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CONFIRMATORY SAMPLING REPORT FOR AREA OF CONCERN F NS MAYPORT FL

12/1/2009

TETRA TECH NUS

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-04-D-0055

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Confirmatory Sampling Report
for
Area of Concern F

Naval Station Mayport
Jacksonville, Florida

Contract Task Order 0050

December 2009

NAVFAC Naval Facilities Engineering Command
NAVFAC SOUTHEAST

NAS Jacksonville
Jacksonville, Florida 32212-0030

TETRA TECH NUS, Inc.

CONFIRMATORY SAMPLING REPORT
FOR
AREA OF CONCERN F

NAVAL STATION MAYPORT
MAYPORT, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, Florida 32212-0030

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CONTRACT NUMBER N62467-04-D-0055
CONTRACT TASK ORDER 0050

DECEMBER 2009

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NAVFAC SOUTHEAST

This document, *Confirmatory Sampling Report for Area of Concern F, Naval Station Mayport, Jacksonville, Florida*, has been prepared under the direction of a Florida Registered Professional Geologist. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. This document was prepared for Naval Station Mayport, Jacksonville, Florida and should not be construed to apply to any other site.

December 15, 2009
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Florida License Number PG-0001852

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ACRONYMS AND ABBREVIATIONS

ABB-ES	ABB Environmental Services, Inc.
AOC	Area of Concern
bls	Below Land Surface
CH2M Hill	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Action Navy
COC	Contaminant of Concern
CS	Confirmatory Sampling
CSR	Confirmatory Sampling Report
CSWP	Confirmatory Sampling Work Plan
CTL	Cleanup Target Level
CTO	Contract Task Order
°C	Degree Celsius
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FL-PRO	Florida Petroleum Range Organics
GAG	Gasoline Analytical Group
GCTL	Groundwater Cleanup Target Level
ISR	Interim Source Removal
KAG	Kerosene Analytical Group
µg/L	Micrograms per Liter
MDL	Method Detection Limit
mg/kg	Milligrams per Kilogram
MSDS	Material Safety Data Sheet
NAVFAC SE	Naval Facilities Engineering Command Southeast
NAVSTA	Naval Station
NELAC	National Environmental Laboratory Accreditation Conference
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RCRA	Resource, Conservation, and Recovery Act
RFI	RCRA Facility Investigation
SCTL	Soil Cleanup Target Level
SOP	Standard Operating Procedure
SVOC	Semivolatile Organic Compound

ACRONYMS AND ABBREVIATIONS

TRPH	Total Recoverable Petroleum Hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This document presents the findings of the Resource Conservation and Recovery Act (RCRA) Confirmation Sampling (CS) activities completed at the Area of Concern (AOC) F site at Naval Station (NAVSTA) Mayport, Jacksonville, Florida. The primary objective of the CS at AOC F was to provide data to characterize site conditions from which to base future courses of action. In order to achieve this primary objective, surface soil and groundwater samples were collected. Current site activities and conditions observed during the CS activities at AOC F include serving as an overflow parking area for sailors and contractors working at NAVSTA Mayport. The parking area also serves as a lay-down area for various contractors working at the base.

During the spring of 2006, a ship camel (a float that serves as a fender used to separate large vessels that are moored together) being stored at AOC F was determined to be unusable and was dismantled for disposal. During the demolition of the camel, Bitumastic No. 50, a petroleum-based epoxy, was present on the interior of the camel and was released onto the ground. Contaminants of concern (COCs) were identified in soils at AOC F at concentrations greater than the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs). COCs that are present at concentrations greater than FDEP SCTLs included total recoverable petroleum hydrocarbons, benzo(a)pyrene equivalents, ethylbenzene, xylenes, n-nitroso-di-n-propylamine, barium, and arsenic in soil samples at AOC F. No constituents were detected in groundwater at AOC F at concentrations greater than FDEP Groundwater Cleanup Target Levels.

Based on findings of the results of the confirmation samples, a RCRA Facility Investigation (FRI) is recommended to completely characterize and delineate the horizontal and vertical extent of contaminants in the soil at AOC F. Based on the results of the RFI, an Interim Measure may be conducted to remove soils impacted with COCs at concentrations greater than FDEP SCTLs.

1.0 INTRODUCTION

Tetra Tech NUS, Inc., (TtNUS) under contract to the United States Navy, Naval Facilities Engineering Command, Southeast (NAVFAC SE) is submitting this Confirmatory Sampling (CS) Report for the Satellite Two Parking Lot (Area of Concern [AOC] F) located at Naval Station (NAVSTA) Mayport, Jacksonville, Florida. This CSR was prepared under the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055, Contract Task Order (CTO) 0050.

1.1 PURPOSE OF CONFIRMATORY SAMPLING

The purpose of the CS was to provide data to evaluate the current environmental conditions and determine the presence or absence of contamination at the site. In order to achieve this primary purpose, soil and groundwater samples were collected and analyzed to identify adverse environmentally impacted areas that may require further investigation. The CS activities were guided by the CS Work Plan (CSWP) (TtNUS, 2008a) approved by NAVFAC SE. Cleanup Target Levels (CTLs) established by the State of Florida served as comparison criteria for this investigation in order to determine impacted areas.

1.2 SITE ENVIRONMENTAL HISTORY

During the spring of 2006, a ship camel (a float that serves as a fender used to separate large vessels that are moored together) being stored at AOC F was determined to be unusable and was dismantled for disposal. During the demolition of the camel, Bitumastic No. 50, a petroleum-based epoxy, was present on the interior of the camel and was released onto the ground. The material is applied to the camel as a liquid and, typically, becomes a solid upon drying; however, the material in the camel that was demolished at AOC F did not solidify and was released as a liquid when the camel was cut apart. The area of the release was visually estimated to measure 115 feet by 30 feet within the Satellite Two Parking Area.

CH2M HILL Constructors, Inc. (CH2M Hill) was contracted by NAVFAC SE to perform an Interim Source Removal (ISR) at the Satellite Two Parking Lot. On July 6, 2006, the initial CS event was conducted that included the collection of surface soil samples CFM01 through CFM08 located in the visually identified area of impacted soil at a depth of 0 to 6 inches. Because of a laboratory error, the volatile organic compound (VOC) samples were required to be recollected on July 11, 2006. Initially, soil analysis used to define the spill area was petroleum-based gasoline analytical group (GAG)/kerosene analytical group (KAG), VOCs, polynuclear aromatic hydrocarbons, and total recoverable petroleum hydrocarbons (TRPH). Regulatory criteria use to determine action levels for the sample results is based on Chapter 62-777 of the Florida Administrative Code (FAC) of which the following samples contained constituents which exceed the respective Soil Cleanup Target Level (SCTL):

- Total xylenes concentrations exceeded the Leachability based on Groundwater Criteria SCTL in sample locations CFM03 and CFM07
- TRPH exceeded the Direct Exposure-residential and Leachability based on Groundwater Criteria based on SCTLs in sample locations CFM03, CFM04, CFM05, and CFM07.
- Benzo(a)pyrene equivalent concentrations exceeded the Leachability based on Groundwater Criteria, Direct Exposure-Residential, and Exposure-Commercial/Industrial SCTLs in sample locations CFM01, CFM02, CFM03, CFM04, CFM05 and CFM07. Also, benzo(a)pyrene equivalent soil concentrations for sample location CFM08 were documented to exceeded the Leachability based on Groundwater Criteria.
- 2-Methylnaphthalene and acenaphthene exceed both Leachability based on Groundwater Criteria SCTL and Residential Direct-Exposure concentrations for sample locations CFM04 and CFM05.

On July 6, 2006, CH2M Hill completed an excavation of 155 feet by 30 feet Bitumastic No. 50-impacted crushed limerock to an approximate depth of 6 inches below land surface (bls). The excavation objective was to remove the visually impacted soil for disposal at Chesser Island Road Landfill, Inc. Based on the non-hazardous waste manifests and truck tickets, 127.79 tons on non-hazardous Bitumastic No. 50-impacted soil were transported for disposal. The 6 inch in depth excavated area was not backfilled. The CH2M HILL ISR Report is provided in Appendix A.

On July 25, 2006, a second sampling event was conducted for the purpose of verifying vertical and horizontal impacts. All samples collected for laboratory analysis were analyzed for GAG/KAG constituents. Six soil samples, CFM09 through CFM14, were collected at 10-foot step-out intervals from the excavation boundary at a depth of land surface to 6 inches bls. Two additional soil samples, CFM15 and CFM16, were collected from the base of the excavation at a depth of 1.5 feet bls. Sample CFM17 was collected approximated 75 feet from the excavation at a depth of land surface to 6 inches bls of which no exceedances were recorded. Samples CFM09 through CFM16 contained the following exceedances:

- Total xylene concentrations exceed the Leachability SCTL based on Groundwater Criteria SCTL in sample locations CFM13 and CFM15.
- Ethylbenzene concentrations exceed Leachability SCTL based on Groundwater Criteria SCTL in sample location CFM13.
- TRPH concentrations exceeded the Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs in sample locations CFM11 and CFM15.
- Benzo(a)pyrene equivalent concentrations exceeded the Direct Exposure-Residential SCTLs in sample locations CFM09 through CFM 16.

- Acenaphthene concentrations exceed Leachability based on Groundwater Criteria SCTL for sample location CFM15.

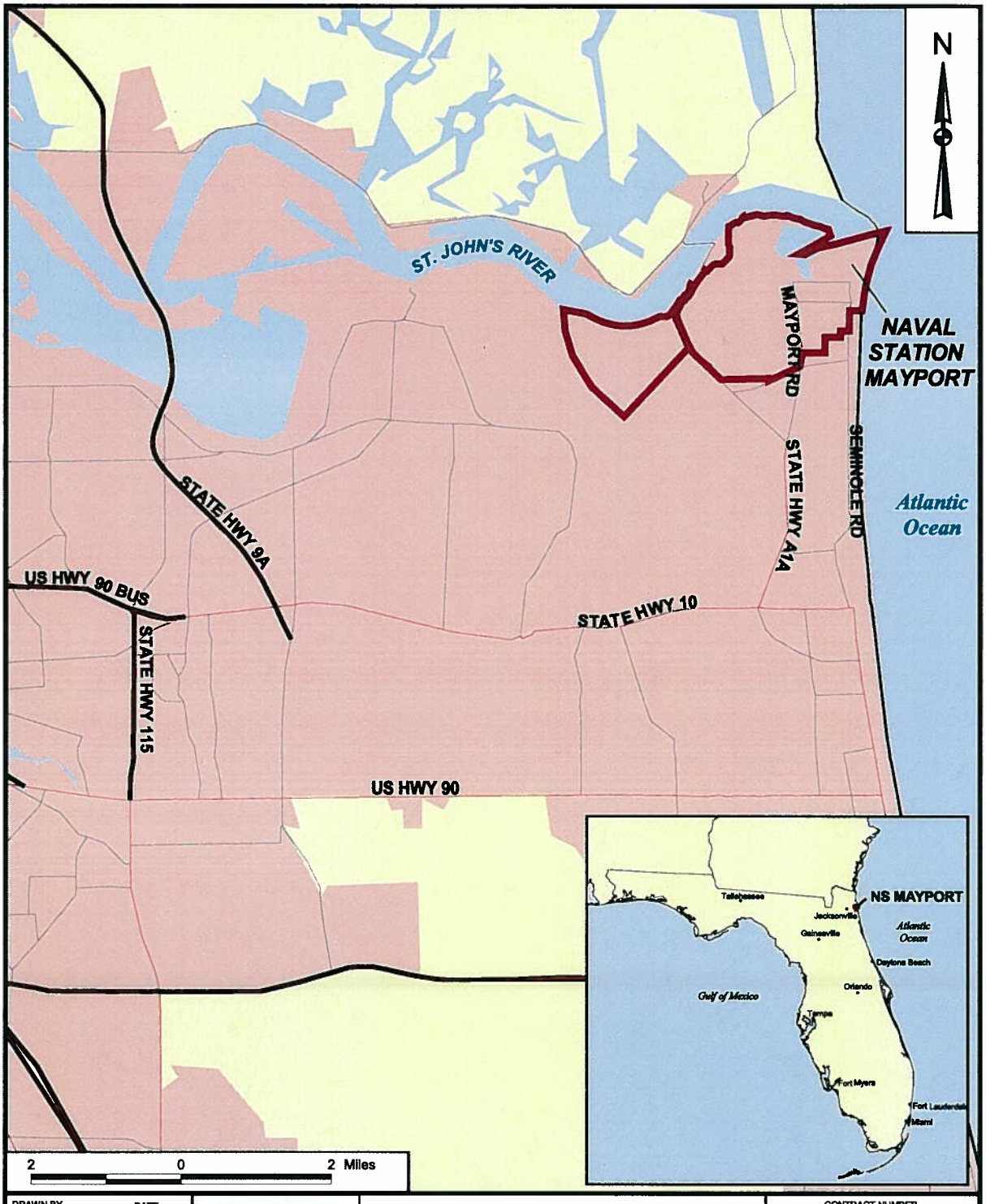
On January 23, 2007, during a NAVSTA Mayport Environmental Partnering Team meeting discussion, it was determined that the site that was originally assessed under the underground storage tank program was to be reassigned as a Resource, Conservation, and Recovery Act (RCRA) site under the Base Installation Restoration Program. The decision was based on regulator input that Bitumastic No. 50 contained non-petroleum-based constituents. Based on these recommendations, a CSWP and CSR were to be prepared. For this reason, all samples were analyzed for Appendix IX group analysis based on process knowledge and not GAG/KAG for the duration of the project (NAVSTA Mayport, 2007).

1.3 FACILITY LOCATION AND DESCRIPTION

NAVSTA Mayport is located within the corporate limits of the City of Jacksonville, Duval County, Florida, approximately 12 miles to the east northeast of downtown Jacksonville, and adjacent to the town of Mayport. The Station complex is located on the northern end of a peninsula bounded by the Atlantic Ocean to the east and the St. Johns River to the north and west. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, which is located to the west between the Station and the St. Johns River. A map of the regional area is provided as Figure 1-1.

AOC F is located in the northwestern section of NAVSTA Mayport adjacent to Patrol Road (Figure 1-2). The Satellite Two Parking Lot consists of an unpaved limestone-covered parking area. The entire parking area measures approximately 240 feet by 165 feet with an unpaved access road providing access from Patrol Road.

The Satellite Two Parking Lot is used as an overflow parking area for sailors and contractors working at NAVSTA Mayport. The parking area also serves as a lay-down area for various contractors working at the base.



DRAWN BY S. PAXTON	DATE 2/28/07	REGIONAL MAP AOC F CONFIRMATORY SAMPLING REPORT NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER CTO 050
CHECKED BY K. WIMBLE	DATE 4/13/07		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 1 - 1 / REV 0

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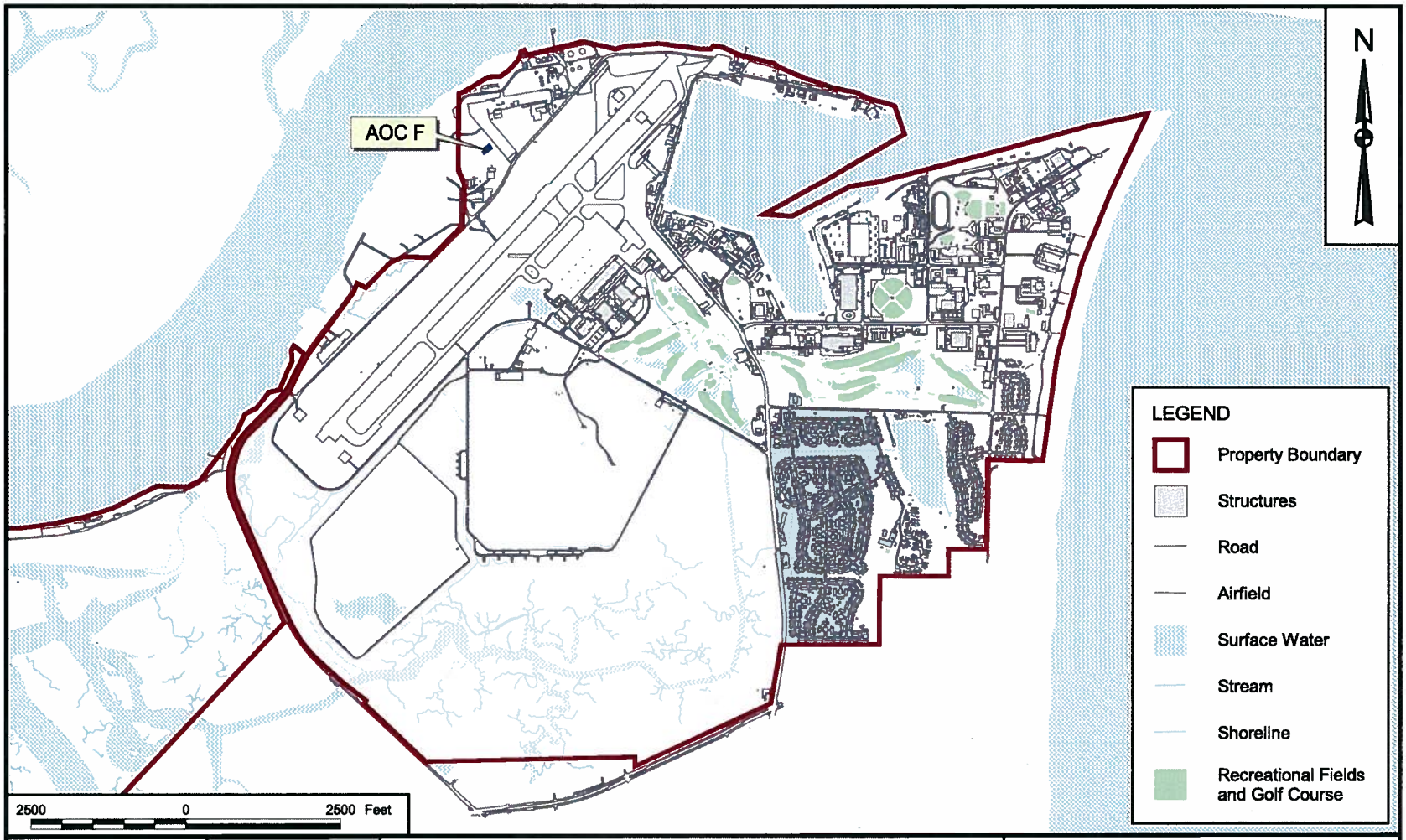

DRAWN BY: J. ENGLISH	DATE: 01/10/08
CHECKED BY: D. SIEFKEN	DATE: 01/10/08
COST/SCHEDULE-AREA	
SCALE: AS NOTED	

NAVFAC

SITE LOCATION MAP
AOC F
CONFIRMATORY SAMPLING REPORT
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER: CTO 0050	
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1.4 GEOLOGY

Surficial deposits of dredge material from the Mayport Turning Basin and St. Johns River make up the interior areas of NAVSTA Mayport covering former marshes and sand flats. Beach and riverbank sands predominate in areas along the Atlantic Ocean and St. Johns River. The dredge material typically consists of fine-grained, well sorted sands, and/or marine shell fragments (ABB Environmental Services, Inc. [ABB-ES], 1995).

Undifferentiated post-Hawthorn deposits are typically encountered beneath the surficial dredge depositional material. This unit consists of fairly uniform, well-sorted, poorly graded, very fine-grained sand, which typically contains minor quantities of fines consisting of silt and clay. It also typically contains numerous shell fragments and gravel. Color ranges from tan to light gray with color change typically gradational over several feet (ABB-ES, 1995).

The Upper Hawthorn Group is encountered beneath the undifferentiated post-Hawthorn deposits. This formation consists of fine- to medium-grained, tan to greenish-gray sand with black phosphatic nodules and/or lithic limestone fragments. Sandy clay, typically gray or olive green in color, may be found within this zone. In addition, clay seams may be encountered varying in thickness from inches to several feet along the zone between the Upper Hawthorn Group and the overlying post-Hawthorn deposits (ABB-ES, 1995).

Soil lithologic information was documented from soil borings completed for soil screening. For soil borings completed to 4 feet bls, site lithology consisted of medium to fine grained sand and shell material. No confining units were observed. Soil and Sediment Sample Log Sheets are provided in Appendix B.

1.5 HYDROGEOLOGY

Three primary aquifer systems are recognized beneath NAVSTA Mayport (in descending order): the surficial aquifer, the intermediate Hawthorn aquifer, and the Floridan aquifer system. The surficial aquifer, which extends from near the surface to a depth of nearly 100 feet bls at NAVSTA Mayport, is the first aquifer beneath AOC F and is the groundwater zone considered in this report. It includes all of the undifferentiated post-Hawthorn deposits and consists of unconsolidated sand, shell, and clay, which vary horizontally and vertically in lithology, thickness, and permeability. It is recharged primarily by precipitation at a countywide estimated rate of 10 to 16 inches per year. Discharge in the vicinity of NAVSTA Mayport is primarily by seepage into surface water bodies and evapotranspiration. It has also been reported that groundwater becomes brackish below a depth of 40 feet bls at NAVSTA Mayport. The water table at AOC F is at an approximate depth of 8 feet bls.

The surficial aquifer is underlain by the Hawthorn aquifer. The Hawthorn aquifer consists of sand and limestone layers interbedded with clayey sand and sandy clay. It was noted in the RCRA Facility Investigation (RFI) for Group II that the most productive limestone layer in the upper part of the Hawthorn aquifer is absent in the Mayport area (ABB-ES, 1996). Thus, the intermediate Hawthorn aquifer may be in hydraulic contact with the surficial aquifer at NAVSTA Mayport. Overall, the Hawthorn Group is a complex aquiclude that acts as a confining bed to the underlying Floridan aquifer. The primary recharge mechanism for the intermediate Hawthorn aquifer is precipitation in areas approximately 30 miles to the west of NAVSTA Mayport where the Hawthorn Group sediments occur at shallow depths.

2.0 CONFIRMATORY SAMPLING ACTIVITIES

The primary objective of the CS was to evaluate the presence or absence of contamination at the AOC F site and provide data or the evaluation of any future assessment. Soil and groundwater samples were collected for off-site laboratory analysis, and the results were compared against Florida Department of Environmental Protection (FDEP) Chapter 62-777, FAC, Soil and Groundwater CTLs. Arsenic in soil was compared to the FDEP-approved base-wide arsenic background concentrations (TtNUS, 2008b). Field activities were conducted in accordance with the Health and Safety Plan and the FDEP Standard Operating Procedures (SOPs) for Field Activities (FDEP, 2008). The sampling locations were chosen to represent the areas where there is the greatest potential of soil and/or groundwater impacts and were based on the previous sampling conducted by CH2M Hill. Samples collected for fixed-based analysis by Empirical Laboratories located in Nashville, Tennessee, a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory. CS and field investigation activities were conducted on June 10, 2008; June 30, 2008; March 17, 2009; and March 18, 2009.

The laboratory methods selected for soil and groundwater analysis were derived from known released compounds as recorded on the Bitumastic No. 50 material safety data sheet (MSDS). A copy of the Bitumastic No. 50 MSDS is provided as Appendix C. Compounds listed on the MSDS include such compounds as coal tar pitch, compounds mixed with coal tar, toluene, benzene, naphthalene, xylene, and ethylbenzene. The listed MSDS compounds and the laboratory method capable of detecting the select compound are presented as Table 2-1. All compounds listed on Table 2-1 are listed in Chapter 62-777, FAC, or are recorded with the Code of Federal Regulation in the Appendix IX list of constituents.

TABLE 2-1
MSDS COMPOUNDS VERSUS LABORATORY METHOD ANALYSIS

Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida

MSDS Compound	United States Environmental Protection Agency Methods			
	8260	8270	8-RCRA Metals	TRPH
Coal Tar Pitch		x	x	x
Coal Tar Creosote		x	x	x
Coal Tar Distillate		x	x	x
Toluene	x			
Xylenes	x			
Benzene	x			
Naphthalene		x		

Notes:
8260 - Aromatic and halogenated volatile organics
8270 - Semivolatiles
8-RCRA Metals - Arsenic, lead, barium, mercury, cadmium, selenium, chromium, silver
TRPH - C8 to C40

Other compounds, such as talc and clay, are part of Bitumastic No. 50. Talc and clay are perceived as having a limited to no potential for environmental impacts given they are bound with the coal tar during the manufacturing process. Possible impacts, although highly unlikely, from talc and clay may include metals. For the reason of low potential environmental impacts, talc and clay were not added to Table 2-1, although their means of potentially impacting the spill area will be assessed through the analysis of the 8-RCRA metals.

2.1 SOIL SAMPLING

The determination of the impact to soil from the release of Bitumastic No. 50 was conducted in two phases: Phase I – Source Area Vertical Soil Impacts and Phase II – Horizontal Soil Impacts. All samples were analyzed for Appendix IX group analysis. The list of constituents analyzed is provided in Section 4.2.1. Field log sheets for the soil sampling events are provided as Appendix B.

2.1.1 Phase I – Source Area Vertical Soil Contamination Impact Determination

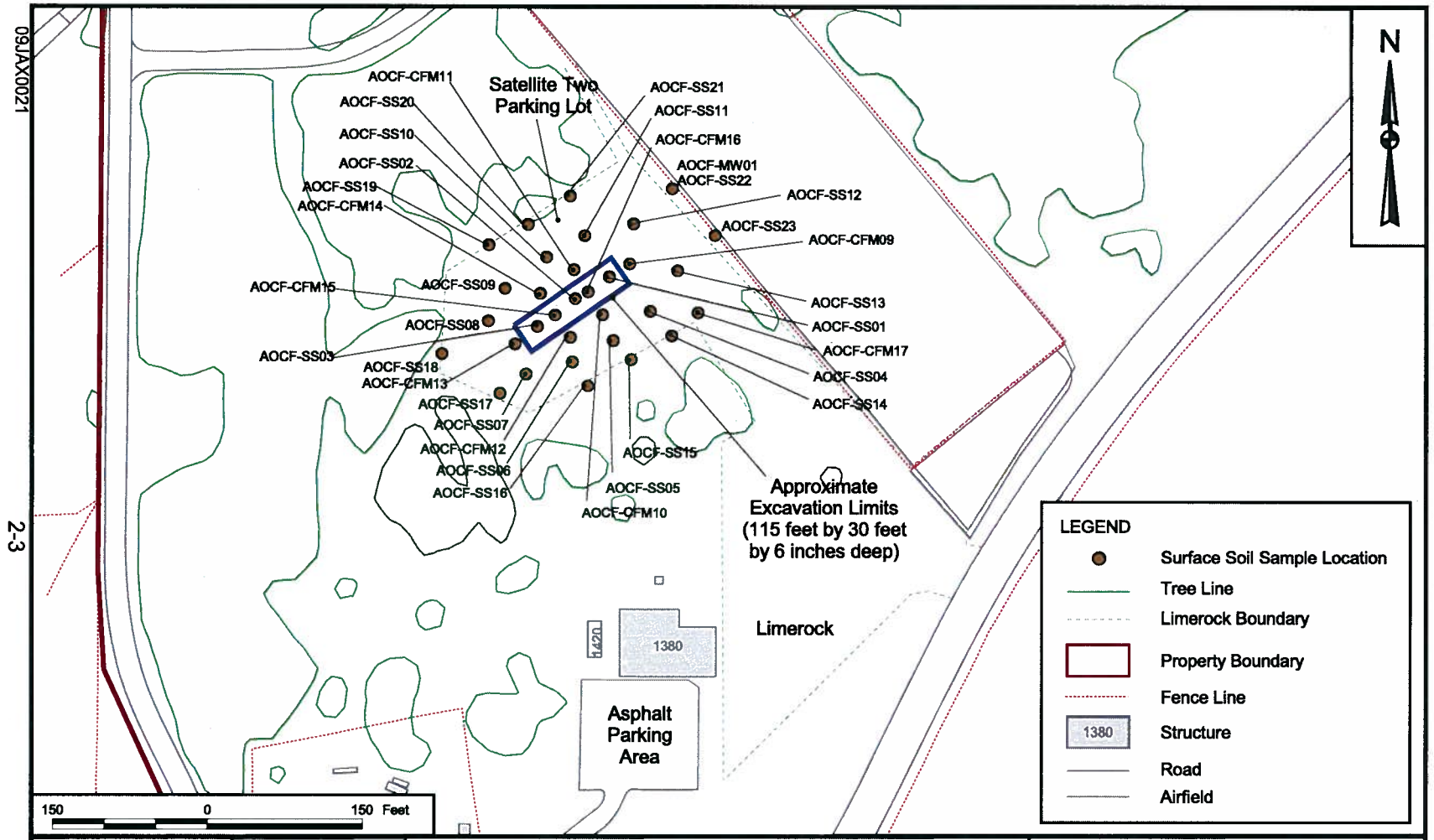
On June 10, 2008, two soil samples were collected by a TtNUS representative at the depths of 2 feet and 4 feet bls. The 2-foot interval was chosen based on the results of the previous CH2M Hill ISR Report, which documents soil SCTL exceedances at an interval of 1.5 feet bls at sample locations CFM 15 and CFM 16. These two samples are located near the center of the excavation.

On June 30, 2008, a TtNUS representative collected three soil samples (SS01, SS02, and SS03) in the source area at the 2-foot and 4-foot bls intervals. The collected samples were linearly positioned to be located in the center of the excavation and are equally distanced at 40 feet apart. The soil sample locations are shown on Figure 2-1.

2.1.2 Phase II – Horizontal Soil Contamination Impact Determination

On March 17 and 18, 2009, a TtNUS representative collected soil samples in an attempt to define the horizontal impact of the Bitumastic No. 50 release. Soil samples were collected from areas which surrounded the source area. A total of 20 sample locations were chosen, and samples were collected from 0 to 6 inches bls for all analyses except VOCs. The VOC samples were collected from 1.0 foot bls. The soil sample locations are shown on Figure 2-1.

Soil samples were collected using a hand auger in accordance with FDEP SOP FS 3100, Surface Soil Sampling (FDEP, 2008). Soil samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped under chain-of-custody protocol to Empirical Laboratories, a fixed-based NELAC certified laboratory. The samples collected and the analyses performed are listed on Table 2-2. A summary of quality assurance/quality control (QA/QC) samples collected during CS activities is presented in Table 2-3.



DRAWN BY: J. ENGLISH	DATE: 01/10/08	**SOIL SAMPLE LOCATION MAP** **AOC F** **CONFIRMATORY SAMPLING REPORT** **NAVAL STATION MAYPORT** **JACKSONVILLE, FLORIDA**	CONTRACT NUMBER: CTO 0050
CHECKED BY: D. SIEFKEN	DATE: 05/19/09		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED		NAVFAC	DRAWING NO.: FIGURE 2-1 REV: 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\AOC_F.APR SITE LAYOUT 05/19/09 JEE

TABLE 2-2
SUMMARY OF AOC F CONFIRMATION SAMPLES

Confirmatory Sampling Report at AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 1 of 3

Sample Identification	Location	Sample Date	Sample Media and Depth (feet bls)	Analyses Method (Contaminant)	Reason
MPT-AOC-F-SS01-02	SS-01	06/30/2008	Soil (0-1)	8260 (VOCs) Florida Petroleum Range Organics (FL-PRO) (TRPH) 8270C (semivolatile organic compounds [SVOCs]) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release
MPT-AOC-F-SS01-04	SS-01	06/30/2008	Soil (3-4)		
MPT-AOC-F-SS02-02	SS-02	06/30/2008	Soil (0-1)		
MPT-AOC-F-SS02-04	SS-02	06/30/2008	Soil (3-4)		
MPT-AOC-F-SS03-02	SS-03	06/30/2008	Soil (0-1)		
MPT-AOC-F-SS03-04	SS-03	06/30/2008	Soil (3-4)		
MPT-AOC-F-SS04-0.5	SS-04	06/30/2008	Soil (0-0.5)		
MPT-AOC-F-SS04-01	SS-04	06/30/2008	Soil (0.5-1)		
MPT-AOC-F-SS04-0.5	SS-05	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release
MPT-AOC-F-SS04-01	SS-05	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS06-0.5	SS-06	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS06-01	SS-06	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS07-0.5	SS-07	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS07-01	SS-07	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS08-0.5	SS-08	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS08-01	SS-08	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS09-0.5	SS-09	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS09-01	SS-09	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS10-0.5	SS-10	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS10-01	SS-10	03/17/2009	Soil (0.5-1)	8260 (VOCs)	

TABLE 2-2
SUMMARY OF AOC F CONFIRMATION SAMPLES

Confirmatory Sampling Report at AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 2 of 3

Sample Identification	Location	Sample Date	Sample Media and Depth (feet bls)	Analyses Method (Contaminant)	Reason
MPT-AOC-F-SS11-0.5	SS-11	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release
MPT-AOC-F-SS11-01	SS-11	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS12-0.5	SS-12	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS12-01	SS-12	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS13-0.5	SS-13	03/17/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS13-01	SS-13	03/17/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS14-0.5	SS-14	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS14-01	SS-14	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS15-0.5	SS-15	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS15-01	SS-15	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS16-0.5	SS-16	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS16-01	SS-16	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS17-0.5	SS-17	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS17-01	SS-17	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS18-0.5	SS-18	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS18-01	SS-18	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS19-0.5	SS-19	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS19-01	SS-19	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS20-0.5	SS-20	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS20-01	SS-20	03/18/2009	Soil (0.5-1)	8260 (VOCs)	

TABLE 2-2
SUMMARY OF AOC F CONFIRMATION SAMPLES

Confirmatory Sampling Report at AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 3 of 3

Sample Identification	Location	Sample Date	Sample Media and Depth (feet bls)	Analyses Method (Contaminant)	Reason
MPT-AOC-F-SS21-0.5	SS-21	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release
MPT-AOC-F-SS21-01	SS-21	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS22-0.5	SS-22	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release
MPT-AOC-F-SS22-01	SS-22	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOC-F-SS23-0.5	SS-23	03/18/2009	Soil (0-0.5)	FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	
MPT-AOC-F-SS23-01	SS-23	03/18/2009	Soil (0.5-1)	8260 (VOCs)	
MPT-AOCF-MW01-20090401	MW-01	04/01/2009	Groundwater collected approximately 1 foot below water table	8260 (VOCs) FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)	Potential impact to soil associated with Bitumastic No. 50 release

TABLE 2-3
SUMMARY OF AOC F QA/QC SAMPLES

Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida

QA/QC Type	Sample Identification	Matrix	Date	Analyses
Equipment Blank	MPT-AOCF- Prerinsate	Aqueous	6/30/2008	8260 (VOCs) FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)
Equipment Blank	MPT-AOCF- Rinsate	Aqueous	6/30/2008	
Trip Blank	Trip Blank # 8571	Aqueous	6/30/2008	8260 (VOCs)
Equipment Blank	MPT-AOCF- Rinsate2	Aqueous	3/17/2009	8260 (VOCs) FL-PRO (TRPH) 8270C (SVOCs) 6010/7471 (8 RCRA Metals)
Trip Blank	Trip Blank # 6829 A	Aqueous	3/17/2009	8260 (VOCs)
Trip Blank	Trip Blank # 6829 B	Aqueous	3/17/2009	
Trip Blank	Trip Blank # 5872	Aqueous	3/18/2009	
Trip Blank	Trip Blank # 6830	Aqueous	3/18/2009	
Trip Blank	Trip Blank-01	Aqueous	03/30/2009	

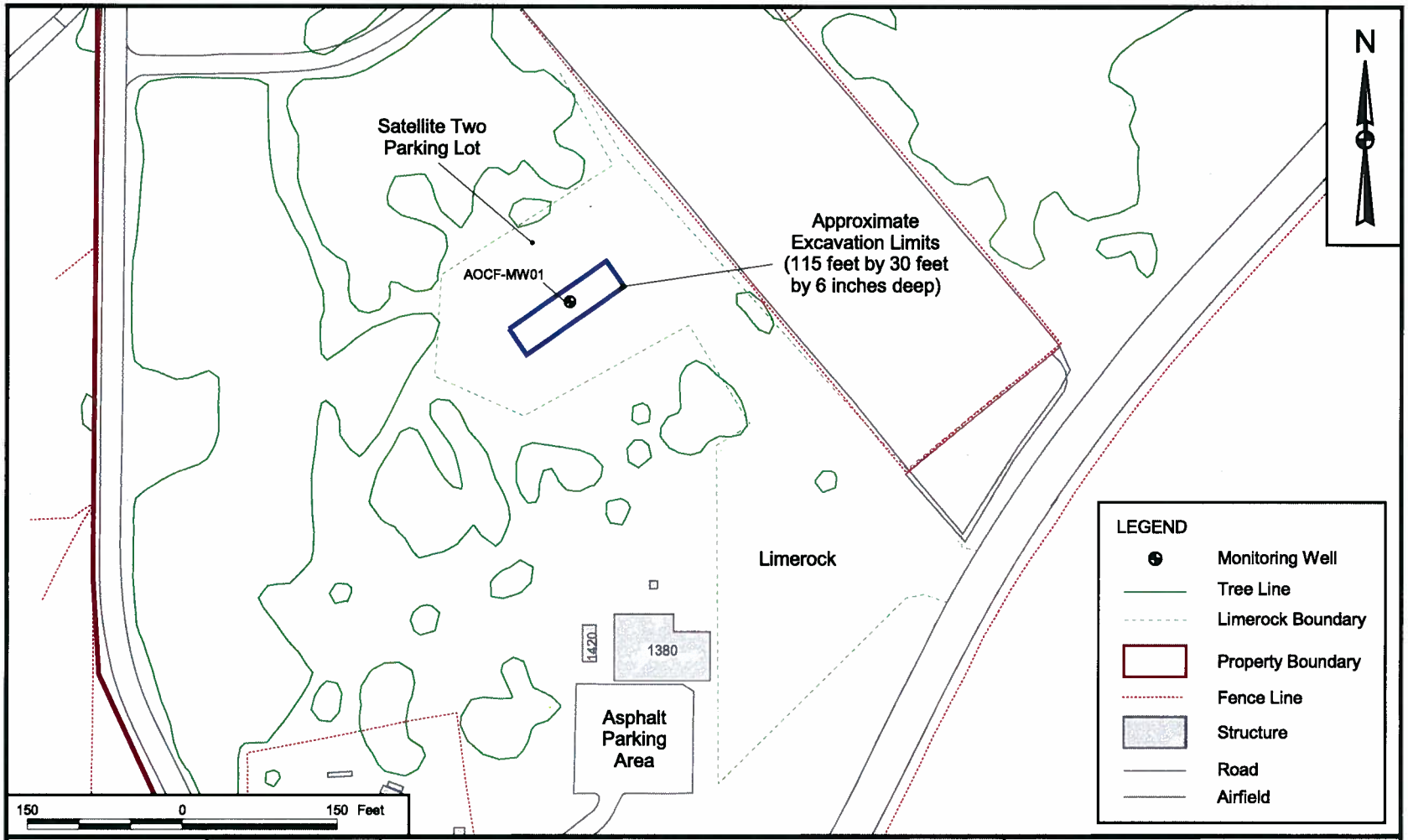
2.2 GROUNDWATER SAMPLING

One monitoring well (AOC F MW01) was installed during the CS activities in order to collect groundwater samples from the upper saturated zone of the surficial aquifer. The installation location of the monitoring well was selected based upon analytical results generated from the ISR Report and analytical obtained from soil samples collected during this assessment. The depth to groundwater at the time of the sampling was approximately 8 feet bls. The monitoring well location is shown in Figure 2-2.

The borehole for monitoring well MPT-AOCF-MW01 was advanced, using a direct-push technology 6610 drill rig to a total depth of 13.60 feet bls before installing the well. This well was constructed of 1.5-inch diameter Schedule 40 polyvinyl chloride (PVC) fitted with 0.010-inch mill slotted Schedule 40 PVC screen. The shallow well was constructed with 10-foot screens, and graded 20/30 silica sand was used as a filter pack between the well screen and surrounding media. The filter pack extended approximately 1.0 foot to 2.0 feet above the top of the screen and was capped by approximately 0.5 foot of 30/65 fine sand. The remaining annular space from the top of the fine sand seal to within 6 inches of ground surface was filled with Type I Portland cement grout. The well was completed at the surface with an 8-inch diameter steel manhole equipped with a bolt down cover. Manholes were secured in place with concrete pads measuring 2 feet square and 6 inches thick. A locking, expansible gasket cap was inserted at the top of the PVC casing after well installation. A schematic diagram showing details of well construction (shallow) is provided as Figure 2-3.

On April 01, 2009, a TtNUS representative collected groundwater samples from the newly-installed monitoring well (MPT-AOCF-MW01). Groundwater sampling was conducted in general accordance with FDEP SOPs. A minimum one well volume was pumped from each shallow well (partially submerged screen) using a peristaltic pump and the low flow quiescent purging method. After purging of these initial quantities, purging was continued and field parameters pH, specific conductance, dissolved oxygen, and temperature were measured periodically (minimum 3-minute intervals) using a YSI 556 instrument. Turbidity was measured using LaMotte 2020 turbidimeter. Purging was considered complete when three consecutive measurements were within the following limits:

- Temperature $\pm$ 0.2 degrees Celsius (°C)
- pH $\pm$ 0.2 Standard Units
- Specific conductivity $\pm$ 5 percent of previous reading(s)
- Dissolved oxygen not greater than 20 percent of saturation at field measured temperature
- Turbidity less than or equal to 20 Nephelometric Turbidity Units.



DRAWN BY: J. ENGLISH	DATE: 05/19/09	MONITORING WELL LOCATION MAP AOC F AOC F REPORT NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER: CTO 0050
CHECKED BY: D. SIEFKEN	DATE: 05/28/09		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: — REV: 0

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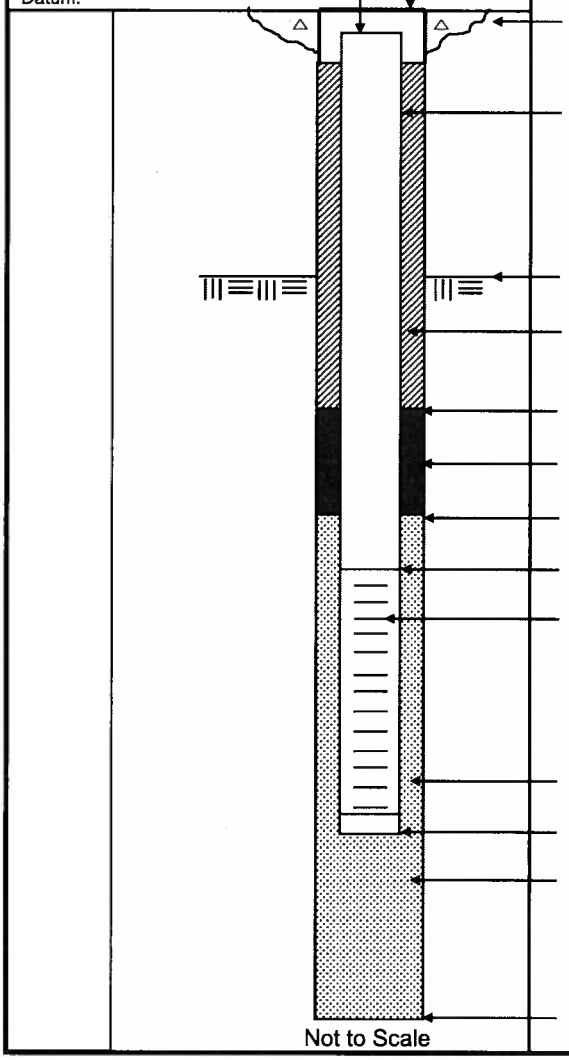
FIGURE 2-3
MONITORING WELL CONSTRUCTION DIAGRAM
AOC F - MARCH 2009
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Tetra Tech NUS, Inc.

WELL No.: MPT-AOCF-MW01

MONITORING WELL SHEET

PROJECT:	NAVSTA MAYPORT	DRILLING Co.:	GWP	BORING No.:	MW01
PROJECT No.:	112G00538	DRILLER:	Billy	DATE COMPLETED:	03/27/09
SITE:	AOC F	DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	DS	DEV. METHOD:	Peristaltic	EASTING:	



Elevation / Depth of Top of Riser:		NA/
Elevation / Height of Top of Surface Casing:		NA/
I.D. of Surface Casing:	8"	
Type of Surface Casing:	steel	
Type of Surface Seal:	cement	
I.D. of Riser:	1.5"	
Type of Riser:	PVC	
Borehole Diameter:	4.5 "	
Elevation / Depth Top of Rock:		NA/
Type of Backfill:	Type I Portland Cement (grout)	
Elevation / Depth of Seal:		0.4'/
Type of Seal:	30/65 sand	
Elevation / Depth of Top of Filter Pack:		1.4'/
Elevation / Depth of Top of Screen:		3.4'/
Type of Screen:	PVC	
Slot Size x Length:	.01"	
I.D. of Screen:	1.0 "	
Type of Filter Pack:	20/30 sand	
Elevation / Depth of Bottom of Screen:		13.4'/
Elevation / Depth of Bottom of Filter Pack:		13.6'/
Type of Backfill Below Well:		
Elevation / Total Depth of Borehole:		13.6'/

After collection, samples were immediately placed on ice and shipped express mail to Empirical Laboratories, Inc. in Nashville, Tennessee under proper chain-of-custody and preservation (4 °C) protocol.

3.0 RESULTS OF INVESTIGATION

The analytical results for soil and groundwater samples collected for this investigation were compared to corresponding CTLs established by FDEP per Chapter 62-777, FAC. Laboratory soil analytical results for arsenic were compared to the FDEP-approved base-wide background limit of 13.7 milligrams per kilogram (mg/kg). Analytical summary tables and contaminant concentration maps are presented in this section. Laboratory methods used to determine the presence of soil and groundwater impacts include VOCs, TRPH, SVOCs, and 8 RCRA Metals.

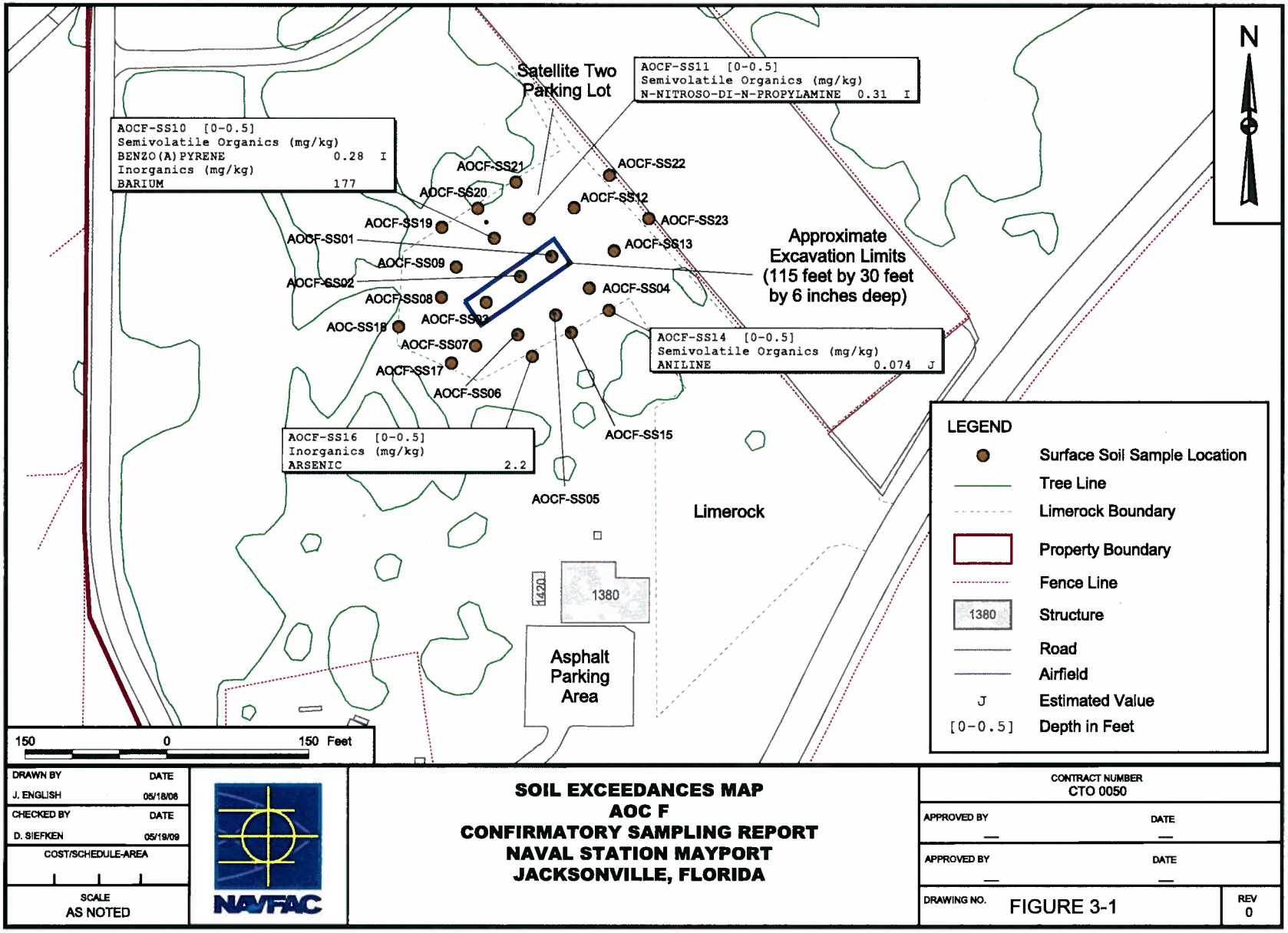
3.1 SOIL SAMPLE RESULTS

Forty-six soil samples were collected from 23 sample borings. Samples SS01 through SS03 were sampled at depths of 2 feet and 4 feet bls, and soil samples SS04 through SS23 were sampled from 0 to 6 inches bls for all analysis except VOC. The VOC analysis was collected from the same bore hole as the other constituents, but at a depth of 1.0 foot bls. To evaluate the presence of contaminants at AOC F, the soil analytical results were compared to the risk-based SCTLs established in FDEP Chapter 62-777, FAC, for direct exposure-residential, direct exposure-industrial, and leachability based on groundwater criteria (FDEP, 2005a).

Of the samples analyzed, four samples (SS10, SS11, SS14, and SS16) exceeded the FDEP SCTLs. These samples and constituents which exceeded the SCTLs are as follows:

- SS10 – Concentration of 0.28 mg/kg of benzo(a)pyrene equivalents and 177 mg/kg of barium exceeded Direct Exposure-Residential SCTLs.
- SS11 – Concentration of 0.31 mg/kg of n-nitroso-di-n-propylamine exceeded Direct Exposure-Commercial/Industrial SCTL, Direct Exposure-Residential, and Leachability based on Groundwater Criteria SCTLs
- SS14 – Concentration of 0.074 mg/kg of analine exceeded Leachability based on Groundwater Criteria SCTL.
- SS16 – Concentrations of 2.2 mg/kg of arsenic exceeded the Direct Exposure-Residential SCTL.

The method detection limit (MDL) for four of the SVOC constituents exceeded the FDEP SCTLs and could not be adequately evaluated. Analine, benzo(a)anthracene, benzo(a)pyrene, and n-nitroso-di-n-propylamine were the SVOCs with MDLs greater than the FDEP SCTLs. Arsenic exceeded the FDEP Direct Exposure-Residential SCTL at one sample location (SS-16); however, this concentration was below the NAVSTA Mayport site-specific background concentration for arsenic. A site map illustrating the laboratory sample results is provided as Figure 3-1. Table 3-1 presents a detailed



DRAWN BY J. ENGLISH	DATE 05/18/09	**SOIL EXCEEDANCES MAP AOC F CONFIRMATORY SAMPLING REPORT NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA**	CONTRACT NUMBER CTO 0050
CHECKED BY D. SIEFKEN	DATE 05/19/09		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 3-1 REV 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\AOC_F.APR SOIL TAG LAYOUT 05/19/09 JEE

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL
Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 1 of 8

Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS01-02 AOCF-SS01 20080630 -9999 -9999 NA	SS01-04 AOCF-SS01 20080630 -9999 -9999 NA	SS02-02 AOCF-SS02 20080630 -9999 -9999 NA	SS02-04 AOCF-SS02 20080630 -9999 -9999 NA	SS03-02 AOCF-SS03 20080630 -9999 -9999 NA	SS03-04 AOCF-SS03 20080630 -9999 -9999 NA
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	0.002 U	0.0022 U	0.0024 U	0.0022 U	0.002 U	0.0022 U
2-BUTANONE	16000	110000	17	17	0.0051 U	0.0054 U	0.0059 U	0.0056 U	0.0051 U	0.0054 U
ACETONE	11000	68000	25	25	0.1	0.14	0.054	0.019	0.01 U	0.0098 J
BENZENE	1.2	1.7	0.007	0.007	0.002 U	0.0022 U	0.0024 U	0.0022 U	0.002 U	0.0022 U
CARBON DISULFIDE	270	1500	5.6	5.6	0.002 U	0.0022 U	0.0024 U	0.0022 U	0.002 U	0.0022 U
ETHYLBENZENE	1500	9200	0.6	0.6	0.002 U	0.0022 U	0.0024 U	0.0022 U	0.002 U	0.0022 U
TOLUENE	7500	60000	0.5	0.5	0.002 U	0.0022 U	0.0024 U	0.0022 U	0.002 U	0.0022 U
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.36 U	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.14 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.1 U
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.26 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.1 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.17 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.056 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
CHRYSENE	NA	NA	77	77	0.18 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.14 U	0.37 U	0.078 U	0.086 U	0.34 U	0.1 J
FLUORANTHENE	3200	59000	1200	1200	0.23 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.11 J	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.36 U	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
PHENANTHRENE	2200	36000	250	250	0.36 U	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
PYRENE	2400	45000	880	880	0.51	0.37 U	0.35 U	0.38 U	0.34 U	0.34 U
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	12 J	22 U	21 U	23 U	20 U	44
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	0.61 U	0.63 U	0.64	0.95	0.6 U	0.61 U
BARIUM	120	130000	1600	120	2.9	3.2	3.3	4.1	4.5	3.3
CADMIUM	82	1700	7.5	7.5	0.2 U	0.21 U	0.2 U	0.23 U	0.2 U	0.2 U
CHROMIUM	NA	NA	NA	NA	1.6	2.4	1.6	1.7	1.8	1.8
LEAD	400	1400	NA	400	0.75	0.86	0.48	0.92	0.69	0.53
MERCURY	3	17	2.1	2.1	0.013 U	0.013 U	0.013 U	0.013 U	0.012 U	0.013 U
SELENIUM	440	11000	5.2	5.2	0.61 U	0.63 U	0.61 U	0.68 U	0.6 U	0.61 U

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL
Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 2 of 8

Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS04-0.5 AOCF-SS04 20090317 0 0.5 FT	SS04-1.0 AOCF-SS04 20090317 0.5 1 FT	SS05-0.5 AOCF-SS05 20090317 0 0.5 FT	SS05-1.0 AOCF-SS05 20090317 0.5 1 FT	SS06-0.5 AOCF-SS06 20090317 0 0.5 FT	SS06-1.0 AOCF-SS06 20090317 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0021 U	NS	0.0021 U	NS	0.0022 U
2-BUTANONE	16000	110000	17	17	NS	0.0052 U	NS	0.0053 U	NS	0.0054 U
ACETONE	11000	68000	25	25	NS	0.0066 J	NS	0.011 U	NS	0.011 U
BENZENE	1.2	1.7	0.007	0.007	NS	0.0009 J	NS	0.0021 U	NS	0.0022 U
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0021 U	NS	0.0021 U	NS	0.0022 U
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0015 J	NS	0.0021 U	NS	0.0022 U
TOLUENE	7500	60000	0.5	0.5	NS	0.001 J	NS	0.0021 U	NS	0.0022 U
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.34 U	NS	0.35 U	NS	0.35 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.34 U	NS	0.35 U	NS	0.35 U	NS
CHRYSENE	NA	NA	77	77	0.34 U	NS	0.35 U	NS	0.35 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.34 U	NS	0.35 U	NS	0.35 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.34 U	NS	0.35 U	NS	0.35 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.34 U	NS	0.35 U	NS	0.35 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.34 U	NS	0.35 U	NS	0.35 U	NS
PHENANTHRENE	2200	36000	250	250	0.34 U	NS	0.35 U	NS	0.35 U	NS
PYRENE	2400	45000	880	880	0.34 U	NS	0.35 U	NS	0.35 U	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	26 J	NS	18 J	NS	21 J	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	0.79 J	NS	0.71 J	NS	1.2 J	NS
BARIUM	120	130000	1600	120	8.7	NS	5.9 J	NS	7 J	NS
CADMIUM	82	1700	7.5	7.5	0.28 J	NS	0.29 J	NS	0.32 J	NS
CHROMIUM	NA	NA	NA	NA	2 J	NS	2.1	NS	3.2	NS
LEAD	400	1400	NA	400	0.92	NS	0.72	NS	2	NS
MERCURY	3	17	2.1	2.1	0.033 U	NS	0.034 U	NS	0.032 U	NS
SELENIUM	440	11000	5.2	5.2	0.84 J	NS	0.76 J	NS	0.73 J	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL
Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida
Page 3 of 8

Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS07-0.5 AOCF-SS07 20090317 0 0.5 FT	SS07-1.0 AOCF-SS07 20090317 0.5 1 FT	SS08-0.5 AOCF-SS08 20090317 0 0.5 FT	SS08-1.0 AOCF-SS08 20090317 0.5 1 FT	SS09-0.5 AOCF-SS09 20090317 0 0.5 FT	SS09-1.0 AOCF-SS09 20090317 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0022 U	NS	0.0021 U	NS	0.0021 U
2-BUTANONE	16000	110000	17	17	NS	0.0055 U	NS	0.0053 U	NS	0.0053 U
ACETONE	11000	68000	25	25	NS	0.011 U	NS	0.011 U	NS	0.011 U
BENZENE	1.2	1.7	0.007	0.007	NS	0.0022 U	NS	0.0021 U	NS	0.0021 U
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0022 U	NS	0.0021 U	NS	0.0021 U
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0022 U	NS	0.0021 U	NS	0.0021 U
TOLUENE	7500	60000	0.5	0.5	NS	0.0022 U	NS	0.0021 U	NS	0.0021 U
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.35 U	NS	0.36 U	NS	0.35 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.35 U	NS	0.36 U	NS	0.041 I	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.35 U	NS	0.36 U	NS	0.35 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.35 U	NS	0.36 U	NS	0.35 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.35 U	NS	0.36 U	NS	0.35 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.35 U	NS	0.36 U	NS	0.35 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.35 U	NS	0.36 U	NS	0.35 U	NS
CHRYSENE	NA	NA	77	77	0.35 U	NS	0.36 U	NS	0.047 I	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.35 U	NS	0.36 U	NS	0.35 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.35 U	NS	0.36 U	NS	0.06 I	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.35 U	NS	0.36 U	NS	0.35 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.35 U	NS	0.36 U	NS	0.35 U	NS
PHENANTHRENE	2200	36000	250	250	0.35 U	NS	0.36 U	NS	0.038 I	NS
PYRENE	2400	45000	880	880	0.35 U	NS	0.36 U	NS	0.064 I	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	17 J	NS	18 J	NS	19 J	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	0.97 J	NS	1.2 J	NS	1.3 J	NS
BARIUM	120	130000	1600	120	4.2 J	NS	5.5 J	NS	6.5 J	NS
CADMIUM	82	1700	7.5	7.5	1 U	NS	0.21 J	NS	0.24 J	NS
CHROMIUM	NA	NA	NA	NA	2.4	NS	2.9	NS	2.8	NS
LEAD	400	1400	NA	400	1.9	NS	2.6	NS	2.6	NS
MERCURY	3	17	2.1	2.1	0.034 U	NS	0.034 U	NS	0.015 J	NS
SELENIUM	440	11000	5.2	5.2	0.68 J	NS	0.8 J	NS	1 U	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL

Confirmatory Sampling Report for AOC F
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Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS10-0.5 AOCF-SS10 20090317 0 0.5 FT	SS10-1.0 AOCF-SS10 20090317 0.5 1 FT	SS11-0.5 AOCF-SS11 20090317 0 0.5 FT	SS11-1.0 AOCF-SS11 20090317 0.5 1 FT	SS12-0.5 AOCF-SS12 20090317 0 0.5 FT	SS12-1.0 AOCF-SS12 20090317 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0002 J	NS	0.0021 U	NS	0.0002 J
2-BUTANONE	16000	110000	17	17	NS	0.0053 U	NS	0.0052 U	NS	0.0052 U
ACETONE	11000	68000	25	25	NS	0.011 U	NS	0.01 U	NS	0.01 U
BENZENE	1.2	1.7	0.007	0.007	NS	0.0021 U	NS	0.0021 U	NS	0.0021 U
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0021 U	NS	0.0021 U	NS	0.0021 U
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0021 U	NS	0.0021 U	NS	0.0021 U
TOLUENE	7500	60000	0.5	0.5	NS	0.0021 U	NS	0.0021 U	NS	0.0021 U
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.36 U	NS	0.33 U	NS	0.34 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.27 I	NS	0.33 U	NS	0.34 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.28 I	NS	0.33 U	NS	0.34 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.38	NS	0.33 U	NS	0.34 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.22 I	NS	0.33 U	NS	0.34 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.15 I	NS	0.33 U	NS	0.34 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.36 U	NS	0.33 U	NS	0.34 U	NS
CHRYSENE	NA	NA	77	77	0.3 I	NS	0.33 U	NS	0.34 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.36 U	NS	0.33 U	NS	0.34 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.38	NS	0.33 U	NS	0.34 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.22 I	NS	0.33 U	NS	0.34 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.36 U	NS	0.31 I	NS	0.34 U	NS
PHENANTHRENE	2200	36000	250	250	0.26 I	NS	0.33 U	NS	0.34 U	NS
PYRENE	2400	45000	880	880	0.5	NS	0.33 U	NS	0.34 U	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	18 J	NS	16 J	NS	20 J	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	1.6 J	NS	0.81 J	NS	0.91 J	NS
BARIUM	120	130000	1600	120	177	NS	6 J	NS	13.8	NS
CADMIUM	82	1700	7.5	7.5	0.62 J	NS	0.27 J	NS	0.3 J	NS
CHROMIUM	NA	NA	NA	NA	6.9	NS	2 J	NS	1.5 J	NS
LEAD	400	1400	NA	400	5.6	NS	0.97	NS	6.4	NS
MERCURY	3	17	2.1	2.1	0.035 U	NS	0.034 U	NS	0.033 U	NS
SELENIUM	440	11000	5.2	5.2	1.2	NS	0.88 J	NS	0.63 J	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL
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Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS13-0.5 AOCF-SS13 20090317 0 0.5 FT	SS13-1.0 AOCF-SS13 20090317 0.5 1 FT	SS14-0.5 AOCF-SS14 20090318 0 0.5 FT	SS14-1 AOCF-SS14 20090318 0.5 1 FT	SS15-0.5 AOCF-SS15 20090318 0 0.5 FT	SS15-1.0 AOCF-SS15 20090318 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0021 U	NS	0.0023 U	NS	0.0021 U
2-BUTANONE	16000	110000	17	17	NS	0.0052 U	NS	0.0057 U	NS	0.014 J2
ACETONE	11000	68000	25	25	NS	0.01 U	NS	0.01 I	NS	0.015 J2
BENZENE	1.2	1.7	0.007	0.007	NS	0.0021 U	NS	0.0023 J2	NS	0.0016 I
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0021 U	NS	0.0023 U	NS	0.0021 U
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0021 U	NS	0.0023	NS	0.0015 I
TOLUENE	7500	60000	0.5	0.5	NS	0.0021 U	NS	0.0018 I	NS	0.0013 I
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.34 U	NS	0.074 J	NS	0.35 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.34 U	NS	0.34 U	NS	0.35 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.34 U	NS	0.34 U	NS	0.35 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.34 U	NS	0.34 U	NS	0.35 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.34 U	NS	0.34 U	NS	0.35 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.34 U	NS	0.34 U	NS	0.35 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.34 U	NS	0.34 U	NS	0.35 U	NS
CHRYSENE	NA	NA	77	77	0.34 U	NS	0.34 U	NS	0.35 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.34 U	NS	0.34 U	NS	0.35 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.34 U	NS	0.34 U	NS	0.35 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.34 U	NS	0.34 U	NS	0.35 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.34 U	NS	0.34 U	NS	0.35 U	NS
PHENANTHRENE	2200	36000	250	250	0.34 U	NS	0.34 U	NS	0.35 U	NS
PYRENE	2400	45000	880	880	0.34 U	NS	0.34 U	NS	0.35 U	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	18 J	NS	16 I	NS	19 I	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	0.79 J	NS	2.1 U	NS	2.1 U	NS
BARIUM	120	130000	1600	120	6.7 J	NS	6.2 J	NS	6.8 J	NS
CADMIUM	82	1700	7.5	7.5	0.33 J	NS	0.42 J	NS	0.27 J	NS
CHROMIUM	NA	NA	NA	NA	2.3	NS	2.4	NS	3.2	NS
LEAD	400	1400	NA	400	0.97	NS	0.82	NS	1.6	NS
MERCURY	3	17	2.1	2.1	0.033 U	NS	0.034 U	NS	0.034 U	NS
SELENIUM	440	11000	5.2	5.2	0.93 J	NS	1	NS	0.65 J	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL
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Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS16-0.5 AOCF-SS16 20090318 0 0.5 FT	SS16-1.0 AOCF-SS16 20090318 0.5 1 FT	SS17-0.5 AOCF-SS17 20090318 0 0.5 FT	SS17-1.0 AOCF-SS17 20090318 0.5 1 FT	SS18-0.5 AOCF-SS18 20090318 0 0.5 FT	SS18-1.0 AOCF-SS18 20090318 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0021 U	NS	0.0022 U	NS	0.0022 U
2-BUTANONE	16000	110000	17	17	NS	0.015 J2	NS	0.0055 U	NS	0.0054 U
ACETONE	11000	68000	25	25	NS	0.011 J2	NS	0.014 J2	NS	0.021 J2
BENZENE	1.2	1.7	0.007	0.007	NS	0.0046 J2	NS	0.0026 J2	NS	0.0026 J2
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0026	NS	0.0022 I	NS	0.0032
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0031	NS	0.005	NS	0.0051
TOLUENE	7500	60000	0.5	0.5	NS	0.0021 I	NS	0.0028	NS	0.0025
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.34 U	NS	0.35 U	NS	0.35 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.34 U	NS	0.35 U	NS	0.35 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.34 U	NS	0.35 U	NS	0.35 U	NS
CHRYSENE	NA	NA	77	77	0.34 U	NS	0.35 U	NS	0.35 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.34 U	NS	0.35 U	NS	0.35 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.34 U	NS	0.35 U	NS	0.35 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.34 U	NS	0.35 U	NS	0.35 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.34 U	NS	0.35 U	NS	0.35 U	NS
PHENANTHRENE	2200	36000	250	250	0.34 U	NS	0.35 U	NS	0.35 U	NS
PYRENE	2400	45000	880	880	0.34 U	NS	0.35 U	NS	0.35 U	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	18 I	NS	17 I	NS	24 I	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	2.2	NS	0.87 J	NS	1.3 J	NS
BARIUM	120	130000	1600	120	4.5 J	NS	3.4 J	NS	10.3	NS
CADMIUM	82	1700	7.5	7.5	1 U	NS	1 U	NS	0.38 J	NS
CHROMIUM	NA	NA	NA	NA	2 J	NS	1.8 J	NS	4.1	NS
LEAD	400	1400	NA	400	0.98	NS	0.72	NS	133	NS
MERCURY	3	17	2.1	2.1	0.032 U	NS	0.033 U	NS	0.028 J	NS
SELENIUM	440	11000	5.2	5.2	1 U	NS	1 U	NS	1 U	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL

Confirmatory Sampling Report for AOC F
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Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS19-0.5 AOCF-SS19 20090318 0 0.5 FT	SS19-1.0 AOCF-SS19 20090318 0.5 1 FT	SS20-0.5 AOCF-SS20 20090318 0 0.5 FT	SS20-1.0 AOCF-SS20 20090318 0.5 1 FT	SS21-0.5 AOCF-SS21 20090318 0 0.5 FT	SS21-1.0 AOCF-SS21 20090318 0.5 1 FT
Volatile Organics (mg/kg)										
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0021 U	NS	0.0022 U	NS	0.0023 U
2-BUTANONE	16000	110000	17	17	NS	0.0054 U	NS	0.0055 U	NS	0.0057 U
ACETONE	11000	68000	25	25	NS	0.014 J2	NS	0.011 J2	NS	0.011 U
BENZENE	1.2	1.7	0.007	0.007	NS	0.0014 I	NS	0.0014 I	NS	0.0015 I
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.002 I	NS	0.003	NS	0.0044
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0028	NS	0.0057	NS	0.0017 I
TOLUENE	7500	60000	0.5	0.5	NS	0.0018 I	NS	0.0023	NS	0.0017 I
Semivolatile Organics (mg/kg)										
ANILINE	27	150	0.03	0.03	0.35 U	NS	0.34 U	NS	0.34 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.35 U	NS	0.34 U	NS	0.34 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.35 U	NS	0.34 U	NS	0.34 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.35 U	NS	0.34 U	NS	0.34 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.35 U	NS	0.34 U	NS	0.34 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.35 U	NS	0.34 U	NS	0.34 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.35 U	NS	0.34 U	NS	0.34 U	NS
CHRYSENE	NA	NA	77	77	0.35 U	NS	0.34 U	NS	0.34 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.35 U	NS	0.34 U	NS	0.34 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.35 U	NS	0.34 U	NS	0.34 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.35 U	NS	0.34 U	NS	0.34 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.35 U	NS	0.34 U	NS	0.34 U	NS
PHENANTHRENE	2200	36000	250	250	0.35 U	NS	0.34 U	NS	0.34 U	NS
PYRENE	2400	45000	880	880	0.35 U	NS	0.34 U	NS	0.34 U	NS
Petroleum Hydrocarbons (mg/kg)										
TPH (C08-C40)	460	2700	340	340	24 J	NS	23 J	NS	26 J	NS
Inorganics (mg/kg)										
ARSENIC	2.1	12	NA	2.1	0.74 J	NS	1.5 J	NS	0.66 J	NS
BARIUM	120	130000	1600	120	5.8 J	NS	6.3 J	NS	5 J	NS
CADMIUM	82	1700	7.5	7.5	0.23 J	NS	0.24 J	NS	0.55 J	NS
CHROMIUM	NA	NA	NA	NA	3.2	NS	4.3	NS	2.1	NS
LEAD	400	1400	NA	400	1.9	NS	2.4	NS	1.5	NS
MERCURY	3	17	2.1	2.1	0.032 U	NS	0.034 U	NS	0.032 U	NS
SELENIUM	440	11000	5.2	5.2	1 U	NS	1 U	NS	0.76 J	NS

TABLE 3-1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL

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Sample ID MPT-AOCF- Sample Location Sample Date Top Depth Bottom Depth Depth Unit	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	Minimum Screening Criteria Value	SS22-0.5 AOCF-SS22 20090318 0 0.5 FT	SS22-1.0 AOCF-SS22 20090318 0.5 1 FT	SS23-0.5 AOCF-SS23 20090318 0 0.5 FT	SS23-1.0 AOCF-SS23 20090318 0.5 1 FT
Volatile Organics (mg/kg)								
1,2,4-TRICHLOROBENZENE	660	8500	5.3	5.3	NS	0.0025 U	NS	0.0023 U
2-BUTANONE	16000	110000	17	17	NS	0.017 J2	NS	0.0057 U
ACETONE	11000	68000	25	25	NS	0.018 J2	NS	0.01 I
BENZENE	1.2	1.7	0.007	0.007	NS	0.0006 I	NS	0.0011 I
CARBON DISULFIDE	270	1500	5.6	5.6	NS	0.0025 U	NS	0.0028
ETHYLBENZENE	1500	9200	0.6	0.6	NS	0.0015 I	NS	0.0017 I
TOLUENE	7500	60000	0.5	0.5	NS	0.0025 U	NS	0.0013 I
Semivolatile Organics (mg/kg)								
ANILINE	27	150	0.03	0.03	0.34 U	NS	0.36 U	NS
BENZO(A)ANTHRACENE	NA	NA	0.8	0.8	0.34 U	NS	0.36 U	NS
BENZO(A)PYRENE	0.1	0.7	8	0.1	0.34 U	NS	0.36 U	NS
BENZO(B)FLUORANTHENE	NA	NA	2.4	2.4	0.34 U	NS	0.36 U	NS
BENZO(G,H,I)PERYLENE	2500	52000	32000	2500	0.34 U	NS	0.36 U	NS
BENZO(K)FLUORANTHENE	NA	NA	24	24	0.34 U	NS	0.36 U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	72	0.34 U	NS	0.36 U	NS
CHRYSENE	NA	NA	77	77	0.34 U	NS	0.36 U	NS
DI-N-BUTYL PHTHALATE	8200	170000	47	47	0.34 U	NS	0.36 U	NS
FLUORANTHENE	3200	59000	1200	1200	0.34 U	NS	0.36 U	NS
INDENO(1,2,3-CD)PYRENE	NA	NA	6.6	6.6	0.34 U	NS	0.36 U	NS
N-NITROSO-DI-N-PROPYLAMINE	0.08	0.2	0.00005	0.00005	0.34 U	NS	0.36 U	NS
PHENANTHRENE	2200	36000	250	250	0.34 U	NS	0.36 U	NS
PYRENE	2400	45000	880	880	0.34 U	NS	0.36 U	NS
Petroleum Hydrocarbons (mg/kg)								
TPH (C08-C40)	460	2700	340	340	16 J	NS	25 J	NS
Inorganics (mg/kg)								
ARSENIC	2.1	12	NA	2.1	2 U	NS	1.3 J	NS
BARIUM	120	130000	1600	120	6.6 J	NS	8.2 J	NS
CADMIUM	82	1700	7.5	7.5	0.29 J	NS	0.64 J	NS
CHROMIUM	NA	NA	NA	NA	2.4	NS	3.6	NS
LEAD	400	1400	NA	400	3.1	NS	14.8	NS
MERCURY	3	17	2.1	2.1	0.047	NS	0.034 U	NS
SELENIUM	440	11000	5.2	5.2	0.71 J	NS	1.1 U	NS

Notes:

NS = Not sampled at this location at this depth.

FT = Foot or feet.

NA = Not applicable.

U = Analyte included in analysis, but not detected.

I = Sample result is above MDL, but below reporting limit.

J = Analyte detected, but below the recording limit; therefore, result is an estimated concentration.

listing of all constituents detected in the soil at AOC F during the confirmation sampling. Laboratory analytical results are included in Appendix D.

3.2 GROUNDWATER SAMPLE RESULTS

Groundwater samples were collected from the well MPT-AOCF-MW01, a newly-installed shallow monitoring well, on May 30, 2009. Groundwater analytical results were compared to the risk-based Groundwater Cleanup Target Levels (GCTLs) established in FDEP Chapter 62-777, FAC (FDEP, 2005b). No groundwater exceedances of FDEP GCTLs were detected. Figure 2-2 depicts the location of monitoring well MPT-AOCF-MW01. Table 3-2 present a detailed listing of all constituents detected in the groundwater at AOC F during the confirmation sampling. Laboratory analytical results are included in Appendix D.

TABLE 3-2
GROUNDWATER DATA FOR MPT-AOCF-MW01

Confirmatory Sampling Report for AOC F
NAVSTA Mayport
Jacksonville, Florida

CONSTITUENT	FDEP GCTL	RESULT
INORGANICS (µg/L)		
Barium	2000	12.8 I
ORGANICS (µg/L)		
Acetone	6300	1.6 I
Chlorobenzene	100	0.11 I
Methylene chloride	5	1.6 I
Toluene	40	0.33 I
1,2,4-Trichlorobenzene	70	0.12 I
Total xylenes	20	0.38 I

Notes:
µg/L = micrograms per liter
(I) = Sample result is above the MDL, but below the reporting limit.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The primary objective of this CS was to provide data to identify the presence of contamination at AOC F and to determine if further investigation is necessary. In order to achieve this primary objective, soil and groundwater samples were collected and analyzed. Fixed-base soil and groundwater sample locations were selected based on previous sampling conducted at the site by CH2M Hill.

During the CS, 46 soil samples were collected from 23 sample borings at sample depths that ranged from land surface to 4 feet bls. Analine, benzo(a)pyrene equivalents, and n-nitroso-di-n-propylamine were detected at concentrations exceeded the FDEP SCTLs in samples collected during the CS. TRPH, ethylene, benzene, xylenes, and benzo(a)pyrene equivalents were also detected in soils at concentrations greater than FDEP SCTLs during previous investigations conducted at AOC F. Although arsenic concentrations exceeded the SCTLs, they did not exceed the FDEP-approved background concentration of 13.7 mg/kg leaving analine, benzo(a)pyrene equivalents, n-nitroso-di-n-propylamine, TRPH, ethylene, benzene, and xylenes as the soil contaminants of concern (COCs) for AOC F.

During the CS, one groundwater sample was collected from monitoring well MPT-AOCF-MW01. Groundwater analytical results were compared to the FDEP GCTLs, and no constituents were detected at concentrations greater then FDEP GCTLs. Based on current site conditions of the AOC F surficial aquifer, no additional groundwater assessment actions are warranted.

Based on findings of the results of the confirmation samples, a RFI is recommended to completely characterize and delineate the horizontal and vertical extent of contaminants in the soil at AOC F. Based on the findings of the RFI, an Interim Measure may be warranted to remove soils impacted with COCs at concentrations greater than FDEP SCTLs.

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APPENDIX A

CH2M HILL INTERIM SOURCE REMOVAL REPORT

Interim Source Removal Report
Soil Excavation at Satellite Two Parking Lot

Naval Station Mayport
Mayport, Florida

Contract No. N62467-01-D-0331
Contract Task Order No. 0051

Submitted to:

U.S. Naval Facilities
Engineering Command Southeast

Prepared by

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

October 2006

Interim Source Removal Report
Soil Excavation at Satellite Two Parking Lot

Naval Station Mayport
Mayport, Florida

Contract No. N62467-01-D-0331
Contract Task Order No. 0051

Prepared by

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

October 2006

Prepared/Approved By:

Michael Halil, Project Manager — October 23, 2006 Date

Approved By:

Scott Smith, Program Manager — October 23, 2006 Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

PROFESSIONAL CERTIFICATION

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data, delivered herewith under Contract No. N62467-01-D-0331, Contract Task Order No. 0051 is complete and accurate and complies with all requirements of this contract and standard professional practices at the time the submittal was prepared.

DATE: 10-20-06

NAME AND TITLE OF CERTIFYING OFFICIAL: Michael D. Halil

Michael D. Halil, P.E.
Project Manager
Professional Engineer Number 0000058049
Expiration Date: February 28, 2007

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Appendices

A **Site Photographs**

B **Waste Disposal Documentation**

- Transportation and Disposal Log
- Non-hazardous Waste Profile
- Certificate of Disposal
- Non-hazardous Waste Manifests
- Weight Tickets

C **Material Safety Data Sheet, Excavation Permit, and Fill Material Certification**

- Tar Coating Material Safety Data Sheet (Bitumasic No. 50)
- Naval Station Mayport Excavation Permit
- Fill Material Certification

D **Laboratory Analytical Reports** (provided on CD)

Acronyms

bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CH2M HILL	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FL-PRO	Florida Petroleum Range Organic
µg/L	microgram per liter
mg/kg	milligrams per kilogram
NAVFAC SE	U.S. Naval Facilities Engineering Command, Southeast
NAVSTA	Naval Station
PAHs	polynuclear aromatic hydrocarbons
QC	quality control
SCTLs	Soil Cleanup Target Levels
TCLP	toxicity characteristic leaching procedure
TRPH	total recoverable petroleum hydrocarbons

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) was contracted by the U.S. Naval Facilities Engineering Command, Southeast (NAVFAC SE) to perform soil excavation at Satellite Two Parking Lot located at Naval Station (NAVSTA) Mayport, Mayport, Florida, under Response Action Contract No. N62467-01-D-0331, Contract Task Order (CTO) No. 0051.

Soil excavation activities were completed as an Interim Source Removal in accordance with the Petroleum Contamination Site Cleanup Criteria, Chapter 62-770, Florida Administrative Code (FAC), Sections 62-770.160 and 62-770.300 (Florida Department of Environmental Protection [FDEP], 2005); the NAVSTA Mayport Basewide Work Plan (CH2M HILL, 1999); and the CTO No. 0051 Work Plan Addendum No. 06, Soil Excavation at Satellite Two Parking Lot (CH2M HILL, 2006).

1.1 Site Description

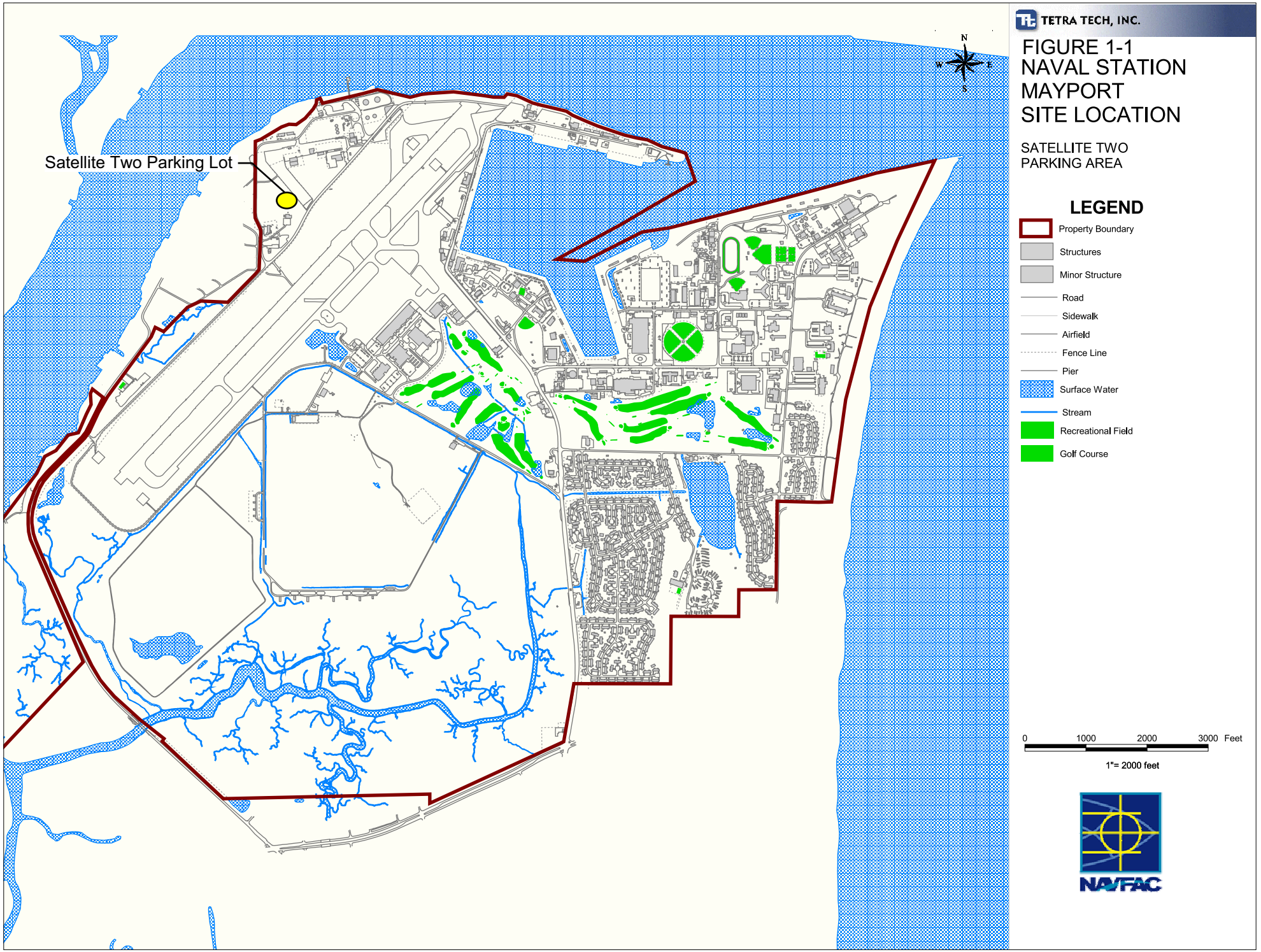
Satellite Two Parking Lot is located in the northwest section of NAVSTA Mayport adjacent to Patrol Road (Figure 1-1). The parking lot is covered with crushed limerock and soil with understory vegetation on the perimeter (Figure 1-2). Satellite Two Parking Lot is used infrequently as an overflow parking area and storage space for large equipment.

Ship camels, structures used to separate large vessels that are moored together, staged at Satellite Two Parking Lot were determined to be unusable. While dismantling the internal steel structures, tar coating that had not cured completely was encountered, resulting in a release (less than 25 gallons) to the ground. The tar coating is identified as Bitumastic No. 50 and is composed of various petroleum constituents. The material safety data sheet for the tar coating is provided in Appendix C. Heavy equipment ground the tar coating into the crushed limerock and soil during further camel dismantling. It was visually estimated by NAVSTA Mayport that tar coating mixed in with the crushed limerock and soil within an approximate 115-foot by 30-foot area to an approximate depth of 6 inches. The estimated impacted area is shown on Figure 1-2.

The tar coating release was discovered on March 20, 2006, with notifications to the FDEP and City of Jacksonville of the release completed by NAVSTA Mayport on March 21, 2006.

1.2 Project Objectives

The project objective specified in the CTO No. 0051 Work Plan Addendum No. 06 (CH2M HILL, 2006) was to excavate to completely remove tar coating-impacted crushed limerock and soil; transport and dispose of the excavated crushed limerock and soil; collect and laboratory analyze confirmatory soil samples to verify complete removal; and backfill, grade, and restore the excavated area. Achieving the project objective would fulfill the Interim Source Removal requirements specified in FAC 62-770.300.



TETRA TECH, INC.

FIGURE 1-1
NAVAL STATION MAYPORT SITE LOCATION

SATELLITE TWO PARKING AREA

LEGEND

- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

0 1000 2000 3000 Feet

1"= 2000 feet

NAVFAC

This graphic was generated using the TtNUS EGIS module

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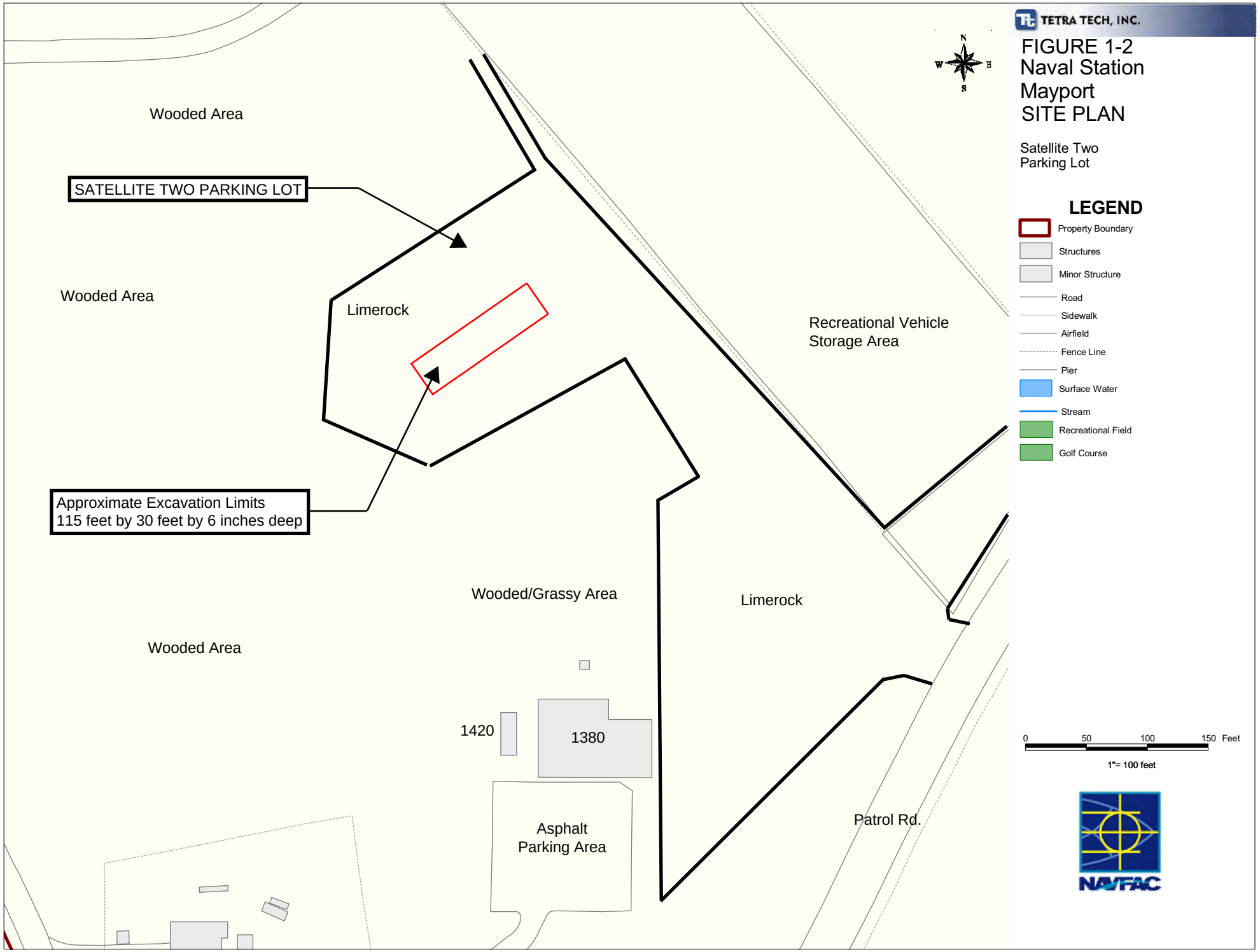

TETRA TECH, INC.

FIGURE 1-2
Naval Station Mayport
SITE PLAN

Satellite Two
Parking Lot

LEGEND

- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

0 50 100 150 Feet

1"= 100 feet

NAVFAC

This graphic was generated using the TtNUS EGIS module

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2.0 Project Activities

Tar coating-impacted crushed limerock and soil excavation activities were completed on July 6, 11, and 25, 2006, and September 15, 2006. Additional task-specific details on the project schedule are included throughout this section.

CH2M HILL provided personnel for all field operations throughout the course of the project. CH2M HILL field staff included Project Superintendents, Quality Control (QC) Managers, Site Health and Safety Specialists, and Field Technicians. Details of daily project activities were maintained in the daily Contractor Production/QC Reports, field logbooks, and site field records. Photographs were taken throughout the project and representative photographs are provided in Appendix A.

2.1 Mobilization and Site Preparation

In preparation for site activities, an excavation permit was completed in accordance with facility procedures. Sunshine State One-call of Florida and NAVSTA Mayport Facilities Engineering Division conducted the utility locates for excavation permit completion. The excavation permit was completed from June 14, 2006 to July 6, 2006. A copy of the completed excavation permit is provided in Appendix C.

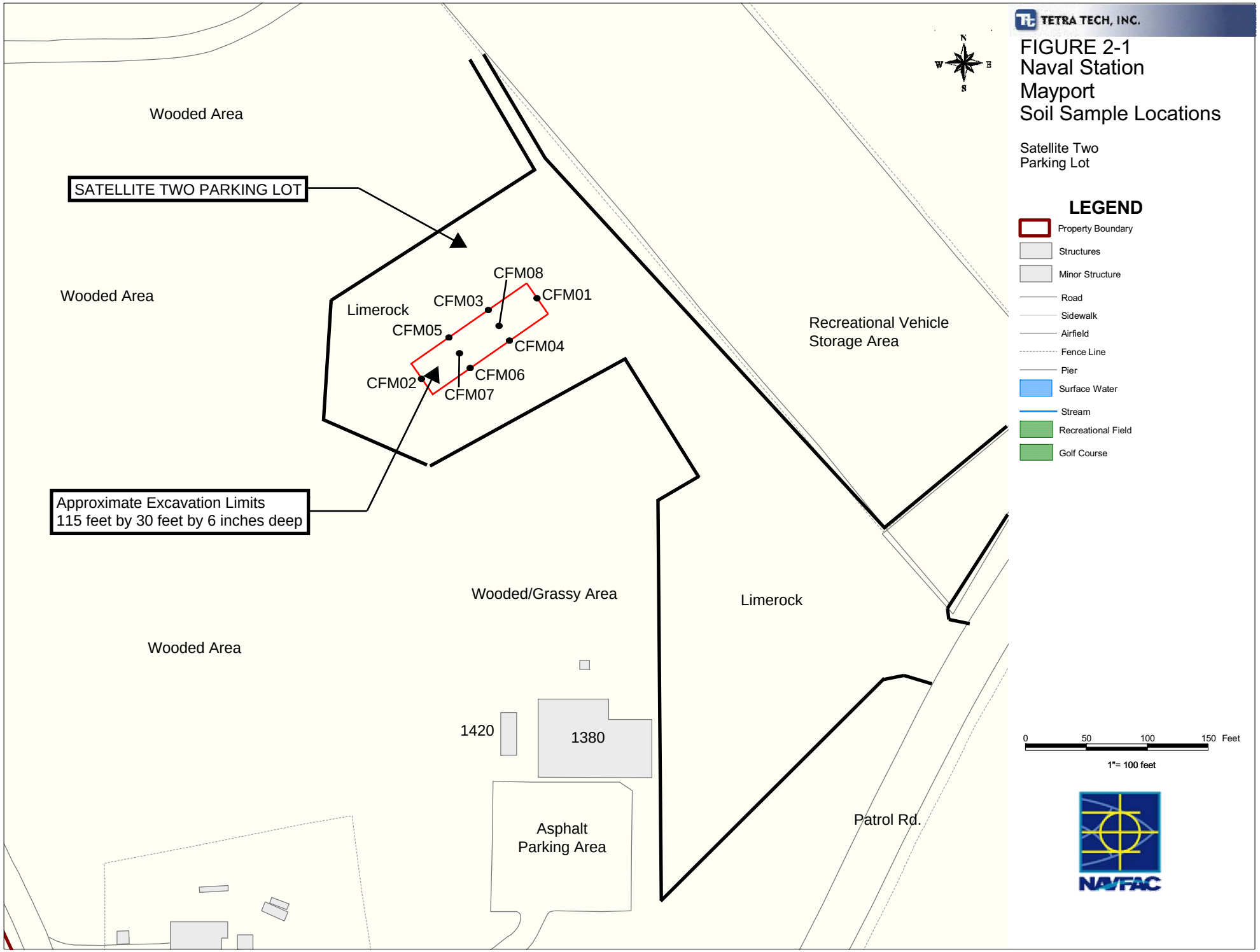
CH2M HILL completed mobilization and site preparation activities on July 6, 2006. This task consisted of mobilizing personnel and equipment, to include a rubber tire backhoe and bulldozer, to the work site; delineating the area of tar coating-impacted crushed limerock and soil for excavation based on a site visit with NAVSTA Mayport; establishing equipment and material laydown areas, to include constructing a stockpile area for the excavated material with plastic sheeting and sandbags; and receiving and staging 74 tons of Florida Department of Transportation (FDOT) CD01 26-100 crushed limerock fill material supplied by Conrad Yelvington Distributors, Inc.

2.2 Soil Excavation

On July 6, 2006, CH2M HILL completed excavation of the 115- by 30-foot tar coating-impacted crushed limerock and soil area to an approximate depth of 6 inches using a bulldozer and rubber tire backhoe. The heavy equipment used and methods to dismantle the camels created an uneven grade over the impacted area, which caused difficulties in verifying the excavation total depth; however, the excavated area and area surrounding the excavation were visually inspected by the Project QC Manager to confirm complete removal of tar coating-impacted crushed limerock and soil.

The excavated tar coating-impacted crushed limerock and soil was stockpiled in a lined and bermed area using the bulldozer and rubber tire backhoe, and covered with plastic sheeting while awaiting transportation for disposal.

The excavated area of tar coating-impacted crushed limerock and soil is shown on Figures 1-2, 2-1, and 2-2.



TETRA TECH, INC.

FIGURE 2-1
Naval Station Mayport
Soil Sample Locations

Satellite Two
Parking Lot

LEGEND

- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

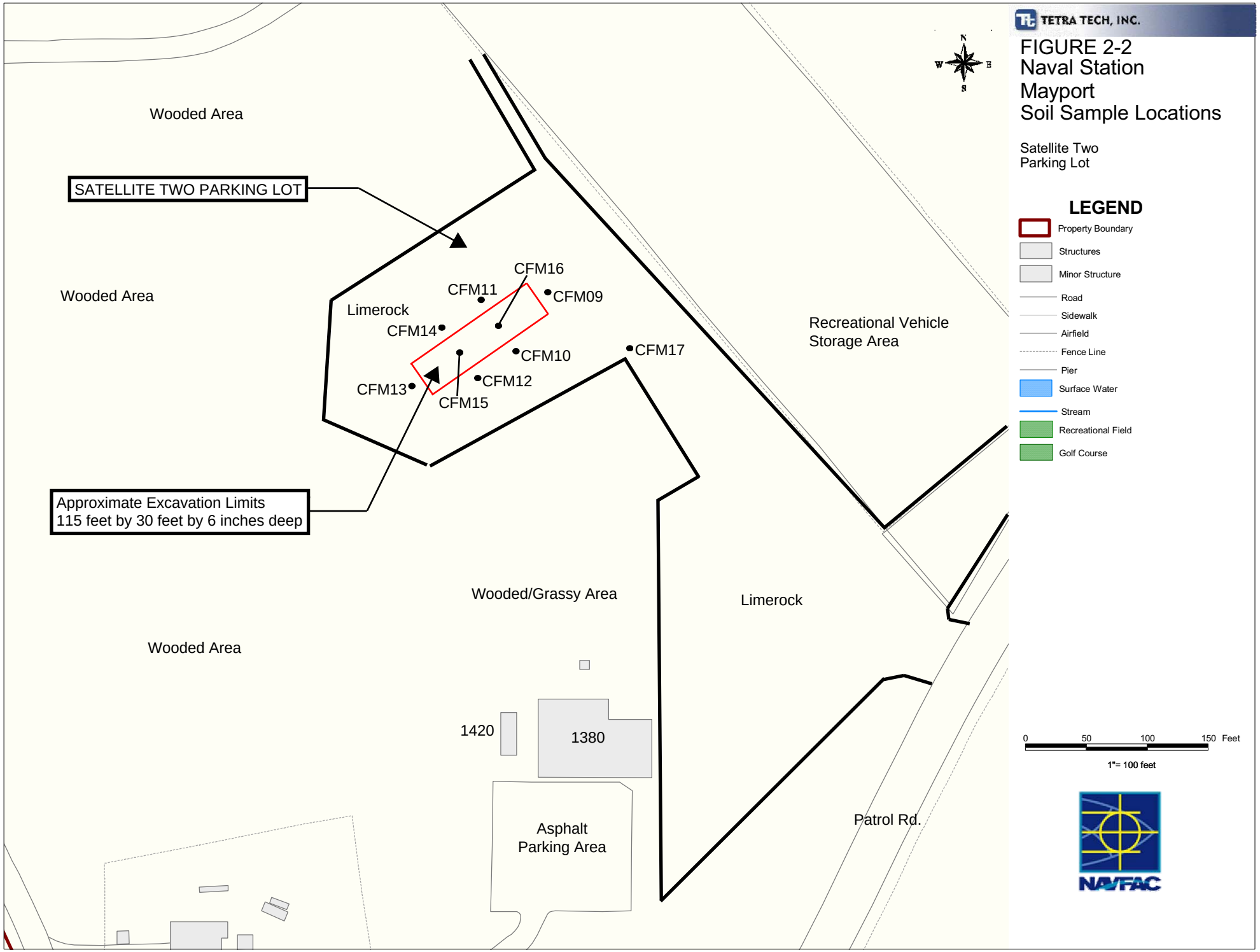
0 50 100 150 Feet

1"= 100 feet

NAVFAC

This graphic was generated using the TtNUS EGIS module

Plot date: Jun 21, 2006; c:\egis\egis_mayport_ns_s2p.apr



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2.3 Confirmatory Soil Sampling and Analyses

2.3.1 Confirmatory Soil Sampling and Analyses – Round 1

Following excavation, eight representative confirmatory soil samples were collected by CH2M HILL on July 6, 2006, to confirm the horizontal and vertical excavation extents. Two confirmatory soil samples, identified as CFM01 and CFM02, were collected for the excavation end walls at depths of 0 to 6 inches below ground surface (bgs); four confirmatory soil samples, identified as CFM03, CFM04, CFM05, and CFM06, were collected for the excavation side walls at depths of 0 to 6 inches bgs; and two confirmatory soil samples, identified as CFM07 and CFM08, were collected from the floor of the excavation. Since no "worst case" locations based on visual observation were identified, sample locations were evenly spaced across the excavation area. The confirmatory soil sample locations are shown on Figure 2-1.

Each confirmatory soil sample was analyzed by Empirical Laboratories, LLC. for the following parameters:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) SW-846 Method 8260B
- 16 listed polynuclear aromatic hydrocarbons (PAHs) with 1- and 2-methylnaphthalene by EPA SW-846 Method 8270C SIMS
- Total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Range Organics (FL-PRO) Method (Samples exceeding a concentration of 460 milligrams per kilogram [mg/kg] were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22, and >C22-C36.)

Because of a laboratory error that resulted in improperly preserving the soil samples collected for BTEX analysis on receipt July 8, 2006, each soil sample location was re-sampled on July 11, 2006 for BTEX analysis by EPA SW-846 Method 8260B. The confirmation soil sample analytical results compared to FDEP Direct Exposure-Residential, Direct Exposure-Commercial/Industrial, and Leachability based on Groundwater Criteria Soil Cleanup Target Levels (SCTLs) are listed in Tables 2-1 and 2-2. The laboratory analytical reports are provided in Appendix D.

Following is an evaluation of the confirmatory soil sample analytical results:

- Total xylene concentrations exceed the Leachability based on Groundwater Criteria SCTL in sample locations CFM03 and CFM07.
- TRPH concentrations exceed the Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs in sample locations CFM03, CFM04, CFM05, and CFM07. TRPH concentrations are below the Direct Exposure-Commercial/Industrial SCTL in each sample location.

TABLE 2-1
Confirmation Soil Sample Analytical Summary - Round 1
Compared to Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs

Parameter and Analysis		Location	CFM01	CFM02	CFM03	CFM04	CFM05	CFM06	CFM07	CFM08	CFM01	CFM02	CFM03	CFM04	CFM05	CFM06	CFM07	CFM08
		Sample ID	51CFM01S060706	51CFM02S060706	51CFM03S060706	51CFM04S060706	51CFM05S060706	51CFM06S060706	51CFM07S060706	51CFM08S060706	51CFM1BS060711	51CFM2BS060711	51CFM3BS060711	51CFM4BS060711	51CFM5BS060711	51CFM6BS060711	51CFM7BS060711	51CFM8BS060711
		Sample Date	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
		Units in mg/kg																
	SCTL[1RES]	LGW																
FL-PRO																		
TRPH	460	340	170 JB	200 JB	**580 JB**	**2200 JB**	**2600 JB**	5.8 JB	**1900 JB**	24 JB	NA	NA	NA	NA	NA	NA	NA	NA
C10-C12	900	520	NA	NA	4.1 B	18 B	9.3 B	NA	16 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C12-C16	1500	1000	NA	NA	20 B	65 B	61 B	NA	84 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C16-C22	1300	3200	NA	NA	170 B	570 B	790 B	NA	530 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C22-C36	2300	25000	NA	NA	480 B	1500 B	**2400 B**	NA	1200 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C8-C10	460	340	NA	NA	18 B	200 B	39 B	NA	150 B	NA								
EPA SW-846 Method 8260B																		
Benzene	1.2	0.007	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.24 U	0.0046 U	0.005 U	0.0056 U	0.27 U	0.0052 U
Ethylbenzene	1500	0.6	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.53	0.0046 U	0.005 U	0.0056 U	0.15 J	0.0052 U
Toluene	7500	0.5	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.24 U	0.0046 U	0.005 U	0.0056 U	0.27 U	0.0052 U
Xylenes, total	130	0.2	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	4.6	0.0046 U	0.005 U	0.0056 U	1.5	0.0052 U
EPA SW-846 Method 8270C																		
1-methylnaphthalene	93	1.7	0.051 U	0.052 U	0.35	1.3	0.59	0.052 U	0.18	0.053 U	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	210	0.9	0.074 J	0.021 U	0.54	2	0.96	0.021 U	0.3	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	2400	2.1	0.39 J	0.068 J	1.8	9.6 J	6.9 J	0.021 U	1.1	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	1800	29	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	21000	2700	0.69 J	0.15 J	2.3	11 J	7.3 J	0.021 U	1.4	0.024 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.3	0.8	**3.3 J**	0.89	**5.9**	**34 J**	**27**	0.021 U	**4.4**	0.23 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.1	8	**3.7 J**	**1.2**	**5.7**	**30**	**24**	0.042 U	**4.3**	**0.31**	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.3	2.6	**4.1 J**	1.2	**6.1**	**28 J**	**31**	0.042 U	**5**	0.33 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	2500	35000	1.7 J	0.76 J	3 J	16 J	14 J	0.042 U	2.2	0.18 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	13	26	1.6 J	0.74 J	3.9	**21 J**	**14 J**	0.042 U	2.2	0.19 J	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	130	83	4.3 J	1.3	7.4	40	34	0.021 U	5.4	0.34 J	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.1	0.8	**0.52 J**	**0.2 J**	**0.86 J**	**4.2 U**	**4.4 J**	0.042 U	**0.7 J**	0.043 U	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	3200	1300	6 J	1.6	14	76	71	0.021 U	9.7	0.38	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2600	170	0.4 J	0.083 J	1.6	10 J	6.2 J	0.021 U	0.95	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-c,d)pyrene	1.3	7.2	**1.9 J**	0.74	**3.2 J**	**18 J**	**15 J**	0.021 U	**2.4**	0.17 J	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	55	1.3	0.032 J	0.021 U	0.24	1	0.4	0.021 U	0.12 J	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2200	270	4 J	1	12	74	42	0.021 U	7.5	0.12 J	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2400	960	5.1 J	2	10	61	54	0.021 U	7.4	0.59	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
All concentrations reported in milligrams per kilogram (mg/kg)
SCTL[1RES] - Direct Exposure-Residential Soil Cleanup Target Level
LGW - Leachability based on Groundwater Criteria Soil Cleanup Target Level
NA - Not analyzed
U - The analyte was analyzed for, but not detected
J - Result is estimated
B - The analyte was detected in the associated method and/or calibration blank
UJ - Value non-detected estimated
JB - Estimated value and the analyte was detected in the associated method and/or calibration blank
Values Bolded Only are concentrations exceeding the Direct Exposure-Residential Soil Cleanup Target Level
Values Shaded Only are concentrations exceeding the Leachability based on Groundwater Criteria Soil Cleanup Target Level
Values Bolded and Shaded are concentrations exceeding both Direct Exposure-Residential and Leachability based on Groundwater Criteria Soil Cleanup Target Levels

TABLE 2-2
Confirmation Soil Sample Analytical Summary - Round 1
Compared to Direct Exposure-Commercial/Industrial and Leachability based on Groundwater Criteria SCTLs

Parameter and Analysis		Location	CFM01	CFM02	CFM03	CFM04	CFM05	CFM06	CFM07	CFM08	CFM01	CFM02	CFM03	CFM04	CFM05	CFM06	CFM07	CFM08
		Sample ID	51CFM01S060706	51CFM02S060706	51CFM03S060706	51CFM04S060706	51CFM05S060706	51CFM06S060706	51CFM07S060706	51CFM08S060706	51CFM1BS060711	51CFM2BS060711	51CFM3BS060711	51CFM4BS060711	51CFM5BS060711	51CFM6BS060711	51CFM7BS060711	51CFM8BS060711
		Sample Date	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/6/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006
		Units in mg/kg																
	SCTL[1IND]	**LGW**																
FL-PRO																		
TRPH	2700	340	170 JB	200 JB	580 JB	2200 JB	2600 JB	5.8 JB	1900 JB	24 JB	NA	NA	NA	NA	NA	NA	NA	NA
C10-C12	5900	520	NA	NA	4.1 B	18 B	9.3 B	NA	16 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C12-C16	12000	1000	NA	NA	20 B	65 B	61 B	NA	84 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C16-C22	11000	3200	NA	NA	170 B	570 B	790 B	NA	530 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C22-C36	40000	25000	NA	NA	480 B	1500 B	2400 B	NA	1200 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
C8-C10	2700	340	NA	NA	18 B	200 B	39 B	NA	150 B	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA SW-846 Method 8260B																		
Benzene	1.7	0.007	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.24 U	0.0046 U	0.005 U	0.0056 U	0.27 U	0.0052 U
Ethylbenzene	9200	0.6	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.53	0.0046 U	0.005 U	0.0056 U	0.15 J	0.0052 U
Toluene	60000	0.5	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	0.24 U	0.0046 U	0.005 U	0.0056 U	0.27 U	0.0052 U
Xylenes, total	700	0.2	NA	NA	NA	NA	NA	NA	NA	NA	0.0056 U	0.007 U	4.6	0.0046 U	0.005 U	0.0056 U	1.5	0.0052 U
EPA SW-846 Method 8270C																		
1-methylnaphthalene	510	1.7	0.051 U	0.052 U	0.35	1.3	0.59	0.052 U	0.18	0.053 U	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	2100	0.9	0.074 J	0.021 U	0.54	2	0.96	0.021 U	0.3	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20000	2.1	0.39 J	0.068 J	1.8	9.6 J	6.9 J	0.021 U	1.1	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	20000	29	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	300000	2700	0.69 J	0.15 J	2.3	11 J	7.3 J	0.021 U	1.4	0.024 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	6.6	0.8	3.3 J	0.89	5.9	**34 J**	**27**	0.021 U	4.4	0.23 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.7	8	**3.7 J**	**1.2**	**5.7**	**30**	**24**	0.042 U	**4.3**	0.31	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	6.5	2.6	4.1 J	1.2	6.1	**28 J**	**31**	0.042 U	5	0.33 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	52000	35000	1.7 J	0.76 J	3 J	16 J	14 J	0.042 U	2.2	0.18 J	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	66	26	1.6 J	0.74 J	3.9	21 J	14 J	0.042 U	2.2	0.19 J	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	640	83	4.3 J	1.3	7.4	40	34	0.021 U	5.4	0.34 J	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.7	0.8	0.52 J	0.2 J	**0.86 J**	4.2 U	**4.4 J**	0.042 U	0.7 J	0.043 U	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	59000	1300	6 J	1.6	14	76	71	0.021 U	9.7	0.38	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	33000	170	0.4 J	0.083 J	1.6	10 J	6.2 J	0.021 U	0.95	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-c,d)pyrene	6.6	7.2	1.9 J	0.74	3.2 J	**18 J**	**15 J**	0.021 U	2.4	0.17 J	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	300	1.3	0.032 J	0.021 U	0.24	1	0.4	0.021 U	0.12 J	0.021 U	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	36000	270	4 J	1	12	74	42	0.021 U	7.5	0.12 J	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	45000	960	5.1 J	2	10	61	54	0.021 U	7.4	0.59	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
All concentrations reported in milligrams per kilogram (mg/kg)
SCTL[1IND] - Direct Exposure-Commercial/Industrial Soil Cleanup Target Level
LGW - Leachability based on Groundwater Criteria Soil Cleanup Target Level
NA - Not analyzed
U - The analyte was analyzed for, but not detected
J - Result is estimated
B - The analyte was detected in the associated method and/or calibration blank
UJ - Value non-detected estimated
JB - Estimated value and the analyte was detected in the associated method and/or calibration blank
Values Bolded Only are concentrations exceeding the Direct Exposure-Commercial/Industrial Soil Cleanup Target Level
Values Shaded Only are concentrations exceeding the Leachability based on Groundwater Criteria Soil Cleanup Target Level
Values Bolded and Shaded are concentrations exceeding both Direct Exposure-Commercial/Industrial and Leachability based on Groundwater Criteria Soil Cleanup Target Levels

- PAH concentrations (various constituents) exceed the Direct Exposure-Residential SCTLs in sample locations CFM01, CFM02, CFM03, CFM04, CFM05, CFM07, and CFM08; exceed the Leachability based on Groundwater Criteria SCTLs in sample locations CFM01, CFM02, CFM03, CFM04, CFM05, and CFM07; and exceed the Direct Exposure-Commercial/Industrial SCTLs in sample locations CFM01, CFM02, CFM03, CFM04, CFM05, and CFM07.

2.3.2 Confirmatory Soil Sampling and Analyses – Round 2

Because of the FDEP SCTL exceedances in the first round of confirmatory soil samples, eight additional soil samples and one limerock background soil sample were collected by CH2M HILL on July 25, 2006, in an attempt to delineate the horizontal and vertical extents of tar coating-impacted crushed limerock and soil. Six soil samples, identified as CFM09, CFM10, CFM11, CFM12, CFM13, and CFM14, were collected on 10-foot step-outs from the excavation area at a depth of 0 to 6 inches bgs. Two soil samples, identified as CFM15 and CFM16, were collected at the locations of samples CFM07 and CFM08 at a depth of 1.5 feet bgs. The limerock background soil sample, identified as CFM17, was collected at a depth of 0 to 6 inches bgs. The second round of confirmatory soil sample locations are shown on Figure 2-2.

Each confirmatory soil sample was analyzed by Empirical Laboratories, LLC. for the following parameters:

- BTEX by EPA SW-846 Method 8260B
- 16 listed PAHs with 1- and 2-methylnaphthalene by EPA SW-846 Method 8270C SIMS
- TRPH by the FL-PRO Method (Samples exceeding a concentration of 460 mg/kg were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22, and >C22-C36.)

The second round of confirmation soil sample analytical results compared to FDEP Direct Exposure-Residential, Direct Exposure-Commercial/Industrial, and Leachability based on Groundwater Criteria SCTLs are provided in Tables 2-3 and 2-4. The laboratory analytical reports are provided in Appendix D.

Following is an evaluation of the confirmatory soil sample analytical results:

- Total xylene concentrations exceed the Leachability based on Groundwater Criteria SCTL in sample locations CFM13 and CFM15.

- Ethylbenzene concentration exceeds the Leachability based on Groundwater Criteria SCTL in sample location CFM13.

- TRPH concentrations exceed the Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs in sample locations CFM11 and CFM15. TRPH concentrations are below the Direct Exposure-Commercial/Industrial SCTL in each sample location.

TABLE 2-3
Confirmation Soil Sample Analytical Summary - Round 2
Compared to Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs

Parameter and Analysis		Location	CFM09	CFM10	CFM11	CFM12	CFM13	CFM14	CFM15	CFM16	CFM17
		Sample ID	51CFM09S060725	51CFM10S060725	51CFM11S060725	51CFM12S060725	51CFM13S060725	51CFM14S060725	51CFM15S060725	51CFM16S060725	51CFM17S060725
		Sample Date	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006
		Units in mg/kg									
	SCTL [1RES]	LGW									
FL-PRO											
TRPH	460	340	100 B	23 B	**710 B**	13 JB	26 B	100 B	**830 B**	27 B	2.6 UJ
C8-C10	460	340	NA	NA	3.8 J	NA	NA	NA	19	NA	NA
C10-C12	900	520	NA	NA	2.8	NA	NA	NA	11	NA	NA
C12-C16	1500	1000	NA	NA	11 B	NA	NA	NA	54 B	NA	NA
C16-C22	1300	3200	NA	NA	290 J	NA	NA	NA	360 J	NA	NA
C22-C36	2300	25000	NA	NA	610 B	NA	NA	NA	680 B	NA	NA
EPA SW-846 Method 8260B											
Benzene	1.2	0.007	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.3 U	0.0043 U	2.5 U	0.005 U	0.0063 U
Ethylbenzene	1500	0.6	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.67	0.0043 U	2.5 U	0.005 U	0.0063 U
Toluene	7500	0.5	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.3 U	0.0043 U	2.5 U	0.005 U	0.0063 U
Xylenes, total	130	0.2	0.0053 U	0.0052 U	0.005 U	0.0058 U	5.2	0.0043 U	24	0.005 U	0.0063 U
EPA SW-846 Method 8270C											
1-methylnaphthalene	93	1.7	0.052 U	0.054 U	0.14 J	0.053 U	0.056 U	0.053 U	0.68	0.053 U	0.054 U
2-methylnaphthalene	210	0.9	0.05 J	0.022 U	0.16 J	0.021 U	0.022 U	0.021 U	0.63	0.021 U	0.022 U
Acenaphthene	2400	2.1	0.22 J	0.022 U	1.8	0.021 U	0.027 J	0.038 J	6 J	0.026 J	0.022 U
Acenaphthylene	1800	29	0.021 U	0.022 U	0.021 U	0.021 U	0.022 U	0.021 U	0.022 U	0.021 U	0.022 U
Anthracene	21000	2700	0.51 J	0.022 U	4.7 J	0.021 U	0.061 J	0.1 J	3.4	0.062 J	0.022 U
Benzo(a)anthracene	1.3	0.8	**3.4 J**	0.3	**28 J**	0.11 J	0.6	1.2	**17**	0.51	0.022 U
Benzo(a)pyrene	0.1	8	**3.8 J**	**0.46**	**37**	**0.18**	**1.4**	**2.1**	**19**	**0.54**	0.022 U
Benzo(b)fluoranthene	1.3	2.6	**4.7 J**	0.54	**41**	0.26	**1.4**	**3.9**	**22**	0.81	0.022 U
Benzo(g,h,i)perylene	2500	35000	1.4	0.18 J	15 J	0.062 J	0.5	0.97	9.3	0.15 J	0.022 U
Benzo(k)fluoranthene	13	26	2	0.38	**29 J**	0.14 J	0.66	1.3	10	0.39	0.022 U
Chrysene	130	83	5.1	0.42	34 J	0.18	0.93	1.9	20	0.71	0.022 U
Dibenz(a,h)anthracene	0.1	0.8	**0.55 J**	0.022 U	**4.9 J**	0.021 U	**0.18**	**0.3**	**1.1 U**	0.046 J	0.022 U
Fluoranthene	3200	1300	6.6	0.29	57	0.12 J	0.83	1.6	36	0.87	0.022 U
Fluorene	2600	170	0.21 J	0.022 U	1.5	0.021 U	0.026 J	0.036 J	3.5	0.021 U	0.022 U
Indeno(1,2,3-c,d)pyrene	1.3	7.2	**1.7**	0.19	**16 J**	0.082 J	0.59	1.1	**2.8**	0.18	0.022 U
Naphthalene	55	1.3	0.032 J	0.022 U	0.11 J	0.021 U	0.022 U	0.021 U	0.25	0.021 U	0.022 U
Phenanthrene	2200	270	4.4	0.065 J	34 J	0.033 J	0.34	0.78	26	0.55	0.022 U
Pyrene	2400	960	8.9	0.38	63	0.13 J	1	1.6	37	0.89	0.022 U

Notes:
All concentrations reported in milligrams per kilogram (mg/kg)
SCTL[1RES] - Direct Exposure-Residential Soil Cleanup Target Level
LGW - Leachability based on Groundwater Criteria Soil Cleanup Target Level
NA - Not analyzed
U - The analyte was analyzed for, but not detected
J - Result is estimated
B - The analyte was detected in the associated method and/or calibration blank
UJ - Value non-detected estimated
JB - Estimated value and the analyte was detected in the associated method and/or calibration blank
Values Bolded Only are concentrations exceeding the Direct Exposure-Residential Soil Cleanup Target Level
Values Shaded Only are concentrations exceeding the Leachability based on Groundwater Criteria Soil Cleanup Target Level
Values Bolded and Shaded are concentrations exceeding both Direct Exposure-Residential and Leachability based on Groundwater Criteria Soil Cleanup Target Levels

TABLE 2-4
Confirmation Soil Sample Analytical Summary - Round 2
Compared to Direct Exposure-Commercial/Industrial and Leachability based on Groundwater Criteria SCTLs

Parameter and Analysis		Location	CFM09	CFM10	CFM11	CFM12	CFM13	CFM14	CFM15	CFM16	CFM17
		Sample ID	51CFM09S060725	51CFM10S060725	51CFM11S060725	51CFM12S060725	51CFM13S060725	51CFM14S060725	51CFM15S060725	51CFM16S060725	51CFM17S060725
		Sample Date	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006
		Units in mg/kg									
	SCTL [1IND]	LGW									
FL-PRO											
TRPH	2700	340	100 B	23 B	710 B	13 JB	26 B	100 B	830 B	27 B	2.6 UJ
C8-C10	2700	340	NA	NA	3.8 J	NA	NA	NA	19	NA	NA
C10-C12	5900	520	NA	NA	2.8	NA	NA	NA	11	NA	NA
C12-C16	12000	1000	NA	NA	11 B	NA	NA	NA	54 B	NA	NA
C16-C22	11000	3200	NA	NA	290 J	NA	NA	NA	360 J	NA	NA
C22-C36	40000	25000	NA	NA	610 B	NA	NA	NA	680 B	NA	NA
EPA SW-846 Method 8260B											
Benzene	1.7	0.007	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.3 U	0.0043 U	2.5 U	0.005 U	0.0063 U
Ethylbenzene	9200	0.6	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.67	0.0043 U	2.5 U	0.005 U	0.0063 U
Toluene	60000	0.5	0.0053 U	0.0052 U	0.005 U	0.0058 U	0.3 U	0.0043 U	2.5 U	0.005 U	0.0063 U
Xylenes, total	700	0.2	0.0053 U	0.0052 U	0.005 U	0.0058 U	5.2	0.0043 U	24	0.005 U	0.0063 U
EPA SW-846 Method 8270C											
1-methylnaphthalene	510	1.7	0.052 U	0.054 U	0.14 J	0.053 U	0.056 U	0.053 U	0.68	0.053 U	0.054 U
2-methylnaphthalene	2100	0.9	0.05 J	0.022 U	0.16 J	0.021 U	0.022 U	0.021 U	0.63	0.021 U	0.022 U
Acenaphthene	20000	2.1	0.22 J	0.022 U	1.8	0.021 U	0.027 J	0.038 J	6 J	0.026 J	0.022 U
Acenaphthylene	20000	29	0.021 U	0.022 U	0.021 U	0.021 U	0.022 U	0.021 U	0.022 U	0.021 U	0.022 U
Anthracene	300000	2700	0.51 J	0.022 U	4.7 J	0.021 U	0.061 J	0.1 J	3.4	0.062 J	0.022 U
Benzo(a)anthracene	6.6	0.8	3.4 J	0.3	**28 J**	0.11 J	0.6	1.2	**17**	0.51	0.022 U
Benzo(a)pyrene	0.7	8	**3.8 J**	0.46	**37**	0.18	**1.4**	**2.1**	**19**	0.54	0.022 U
Benzo(b)fluoranthene	6.5	2.6	4.7 J	0.54	**41**	0.26	1.4	3.9	**22**	0.81	0.022 U
Benzo(g,h,i)perylene	52000	35000	1.4	0.18 J	15 J	0.062 J	0.5	0.97	9.3	0.15 J	0.022 U
Benzo(k)fluoranthene	66	26	2	0.38	29 J	0.14 J	0.66	1.3	10	0.39	0.022 U
Chrysene	640	83	5.1	0.42	34 J	0.18	0.93	1.9	20	0.71	0.022 U
Dibenz(a,h)anthracene	0.7	0.8	0.55 J	0.022 U	**4.9 J**	0.021 U	0.18	0.3	1.1 U	0.046 J	0.022 U
Fluoranthene	59000	1300	6.6	0.29	57	0.12 J	0.83	1.6	36	0.87	0.022 U
Fluorene	33000	170	0.21 J	0.022 U	1.5	0.021 U	0.026 J	0.036 J	3.5	0.021 U	0.022 U
Indeno(1,2,3-c,d)pyrene	6.6	7.2	1.7	0.19	**16 J**	0.082 J	0.59	1.1	2.8	0.18	0.022 U
Naphthalene	300	1.3	0.032 J	0.022 U	0.11 J	0.021 U	0.022 U	0.021 U	0.25	0.021 U	0.022 U
Phenanthrene	36000	270	4.4	0.065 J	34 J	0.033 J	0.34	0.78	26	0.55	0.022 U
Pyrene	45000	960	8.9	0.38	63	0.13 J	1	1.6	37	0.89	0.022 U

Notes:
All concentrations reported in milligrams per kilogram (mg/kg)
SCTL[1IND] - Direct Exposure-Commercial/Industrial Soil Cleanup Target Level
LGW - Leachability based on Groundwater Criteria Soil Cleanup Target Level
NA - Not analyzed
U - The analyte was analyzed for, but not detected
J - Result is estimated
B - The analyte was detected in the associated method and/or calibration blank
UJ - Value non-detected estimated
JB - Estimated value and the analyte was detected in the associated method and/or calibration blank
Values Bolded Only are concentrations exceeding the Direct Exposure-Commercial/Industrial Soil Cleanup Target Level
Values Shaded Only are concentrations exceeding the Leachability based on Groundwater Criteria Soil Cleanup Target Level
Values Bolded and Shaded are concentrations exceeding both Direct Exposure-Commercial/Industrial and Leachability based on Groundwater Criteria Soil Cleanup Target Levels

- PAH concentrations (various constituents) exceed the Direct Exposure-Residential SCTLs in sample locations CFM09 through CFM16; exceed the Leachability based on Groundwater Criteria SCTLs in sample locations CFM09, CFM11, CFM14, and CFM15; and exceed the Direct Exposure-Commercial/Industrial SCTLs in sample locations CFM09, CFM11, CFM13, CFM14, and CFM15.
- The limerock background sample showed concentrations below the FDEP Direct Exposure-Residential and Leachability based on Groundwater Criteria SCTLs.

Because of the FDEP SCTL exceedances in the second round of confirmatory soil samples, no additional soil sampling was completed.

2.4 Waste Disposal Characterization of Excavated Material

Waste characterization sampling was completed by CH2M HILL on July 6, 2006, to determine the necessary waste management and transportation and disposal requirements for the excavated tar coating-impacted crushed limerock and soil. One composite sample was collected from five representative locations within the excavated material stockpile and analyzed by Empirical Laboratories, LLC for the following parameters:

- Toxicity characteristic leaching procedure (TCLP) volatile organic compounds by EPA SW-846 Method 1311/8260B
- TCLP semi-volatile organic compounds by EPA SW-846 Method 1311/8270C
- TCLP pesticides by EPA SW-846 Method 1311/8081A
- Polychlorinated biphenyls by EPA SW-846 Method 8082
- TCLP herbicides by EPA SW-846 Method 1311/8151
- TCLP metals by EPA SW-846 Method 1311/6010B/7470A
- Corrosivity by EPA SW-846 Method 9045B
- Ignitability by EPA SW-846 Method 1010

Based on evaluation of the waste disposal characterization analytical results, the excavated material was characterized as non-hazardous petroleum-contaminated. The waste disposal characterization analytical results are summarized in Table 2-5 and the laboratory analytical reports are provided in Appendix D.

TABLE 2-5
Waste Disposal Characterization Analytical Summary

Parameter and Analysis	Station ID	51WC1S06
	Sample ID	51WC1S060706
	Sample Date	7/6/2006
	Unit	
EPA SW-846 Method 1010		
Ignitability	F	**158**
EPA SW-846 Method 1311/6010B		
Arsenic	µg/L	30 U
Barium	µg/L	50 U
Cadmium	µg/L	10 U
Chromium, total	µg/L	20 U

TABLE 2-5
Waste Disposal Characterization Analytical Summary

Parameter and Analysis	Station ID	51WC1S06
	Sample ID	51WC1S060706
	Sample Date	7/6/2006
	Unit	
Lead	µg/L	15 U
Selenium	µg/L	30 U
Silver	µg/L	10 U
EPA SW-846 Method 1311/7470A		
Mercury	µg/L	0.8 U
EPA SW-846 Method 1311/8081A		
Chlordane	mg/L	0.0005 U
Endrin	mg/L	0.0001 U
Gamma BHC (Lindane)	mg/L	0.0001 U
Heptachlor	mg/L	0.0001 U
Heptachlor Epoxide	mg/L	0.0001 U
Methoxychlor	mg/L	0.0001 UJ
Toxaphene	mg/L	0.01 U
EPA SW-846 Method 8082		
Aroclor-1016	µg/kg	17 U
Aroclor-1221	µg/kg	17 U
Aroclor-1232	µg/kg	17 U
Aroclor-1242	µg/kg	17 U
Aroclor-1248	µg/kg	17 U
Aroclor-1254	µg/kg	17 U
Aroclor-1260	µg/kg	17 U
EPA SW-846 Method 1311/8151		
2,4-D (Dichlorophenoxyacetic Acid)	mg/L	0.005 UJ
Silvex (2,4,5-TP)	mg/L	0.001 UJ
EPA SW-846 Method 1311/8260B		
1,1-Dichloroethene	mg/L	0.01 U
1,2-Dichloroethane	mg/L	0.01 U
1,4-Dichlorobenzene	mg/L	0.01 U
Benzene	mg/L	0.01 U
Carbon tetrachloride	mg/L	0.01 U
Chlorobenzene	mg/L	0.01 U
Chloroform	mg/L	0.01 U
Methyl ethyl ketone (2-butanone)	mg/L	0.1 U
Tetrachloroethene (PCE)	mg/L	0.01 U
Trichloroethene (TCE)	mg/L	0.01 U
Vinyl chloride	mg/L	0.02 U

TABLE 2-5
Waste Disposal Characterization Analytical Summary

Parameter and Analysis	Station ID	51WC1S06
	Sample ID	51WC1S060706
	Sample Date	7/6/2006
	Unit	
EPA SW-846 Method 1311/8270C		
2,4,5-Trichlorophenol	mg/L	0.05 U
2,4,6-Trichlorophenol	mg/L	0.05 U
2,4-Dinitrotoluene	mg/L	0.05 U
2-Methylphenol (o-Cresol)	mg/L	0.05 U
4-Methylphenol (p-Cresol)	mg/L	0.05 U
Hexachlorobenzene	mg/L	0.05 U
Hexachlorobutadiene	mg/L	0.05 U
Hexachloroethane	mg/L	0.05 U
Nitrobenzene	mg/L	0.05 U
Pentachlorophenol	mg/L	0.2 U
Pyridine	mg/L	0.2 U
EPA SW-846 Method 9045B		
pH	Units	**9.6**

Notes:
Values bold and shaded are hits.
U - The analyte was analyzed for, but not detected.
UJ - Value non-detected estimated.

2.5 Transportation and Disposal of Excavated Material

Prior to offsite disposal of the excavated tar coating-impacted crushed limerock and soil, a waste profile package was prepared and provided to Ms. Diane Racine, NAVSTA Mayport Environmental Protection Specialist, for approval and signature. Once waste profile approval was received, manifests were generated and provided to Ms. Racine for signature.

The excavated tar coating-impacted crushed limerock and soil, and stockpile cover, liner, and berm materials were loaded using a front-end loader into tandem trailer trucks on September 15, 2006, for transportation by Beaver Bulk Trucking to Waste Management-Chesser Island Road Landfill, Inc. for final disposal. Based on the non-hazardous waste manifests and truck weight tickets, 127.79 tons of non-hazardous tar coating-impacted crushed limerock and soil were transported for disposal. The Transportation and Disposal Log and copies of the waste disposal profile, certificate of disposal, non-hazardous waste manifests, and truck weight tickets are provided in Appendix B.

2.6 Backfill and Site Restoration

To be used as backfill for the excavated area, Conrad Yelvington Distributors, Inc. delivered 74 tons of FDOT CD01 26-100 crushed limerock on July 6, 2006. No certification of "clean"

fill was required; however, certification that the material was delivered direct from the quarry source is provided in Appendix C.

Because of the FDEP SCTL exceedances in the confirmatory soil samples, the excavated area was not backfilled with the crushed limerock and no significant grading or site restoration was completed to prevent contaminating uncontaminated or less contaminated areas of the site, and the uncontaminated fill material. This deviation from the scope of work was approved by Ms. Racine on September 15, 2006. The stockpiled crushed limerock was left onsite for use by NAVSTA Mayport.

2.7 Decontamination and Demobilization

Decontamination activities were completed by CH2M HILL for each day of site work, and included decontamination to remove all residual tar coating-impacted crushed limerock and soil that may be adhering to personnel or equipment as a result of excavation activities. Decontamination wastes were combined and transported and disposed of with the excavated material. Demobilization activities were also completed by CH2M HILL for each day of site work, and included removing all equipment, temporary facilities, and site controls, and any debris or solid waste material remaining from excavation activities was removed and properly disposed.

3.0 Conclusions and Recommendations

3.1 Site Status Summary

Tar coating-impacted crushed limerock and soil excavation activities were completed on July 6, 11, and 25, 2006, and September 15, 2006. As documented in this Interim Source Removal Report, CH2M HILL completed the following scope of work as outlined in the CTO No. 0051 Work Plan Addendum No. 06 (CH2M HILL, 2006):

- Completed mobilization and site preparation activities, to include completing the excavation permit; mobilizing the appropriate personnel, equipment, and materials to the work site; and establishing equipment and material laydown areas, to include constructing a stockpile area for the excavated material.
- Completed tar coating-impacted crushed limerock and soil excavation of the 115-foot by 30-foot impacted area to an approximate depth of 6 inches. The heavy equipment used and methods to dismantle the camels created an uneven grade over the impacted area, which caused difficulties in verifying the excavation total depth; however, the excavated area and area surrounding the excavation were visually inspected by the Project QC Manager to confirm complete removal of tar coating-impacted crushed limerock and soil. The excavated tar coating-impacted crushed limerock and soil was stockpiled while awaiting transportation for disposal.
- Completed confirmatory soil sampling and laboratory analyses, initially to confirm the excavation extents, and then to attempt to delineate the horizontal and vertical extents of tar coating-impacted crushed limerock and soil. Sixteen confirmatory soil samples and one limerock background sample were collected and analyzed for BTEX, 16 listed PAHs with 1- and 2-methylnaphthalene, and TRPH.
- Completed waste disposal characterization of the excavated tar coating-impacted crushed limerock and soil to determine the necessary waste management and transportation and disposal requirements. One composite sample from five representative locations was collected within the excavated material stockpile and laboratory analyzed. Based on evaluation of the waste disposal characterization analytical results, the excavated material was characterized as non-hazardous petroleum-contaminated.
- Completed waste profiling, manifesting, and transportation and disposal of 127.79 tons of non-hazardous tar coating-impacted crushed limerock and soil.
- Because of the FDEP SCTL exceedances in the confirmatory soil samples, the excavated area was not backfilled with the received crushed limerock and no significant grading or site restoration was completed to prevent contaminating uncontaminated or less contaminated areas of the site, and the uncontaminated fill material. This deviation from the scope of work was approved by Ms. Racine on September 15, 2006. The stockpiled crushed limerock was left onsite for use by NAVSTA Mayport.

- Completed decontamination to remove all residual tar coating-impacted crushed limerock and soil that may be adhering to personnel or equipment as a result of excavation activities. Decontamination wastes were combined and transported and disposed of with the excavated material.
- Completed demobilization activities, to include removing all equipment, temporary facilities, and site controls, and any debris or solid waste material remaining from excavation activities was removed and properly disposed.

3.2 Recommendations

The completed tar coating-impacted crushed limerock and soil excavation was completed as an Interim Source Removal in accordance with the Petroleum Contamination Site Cleanup Criteria, FAC 62-770.160 and FAC 62-770.300 (FDEP, 2005); the NAVSTA Mayport Basewide Work Plan (CH2M HILL, 1999); and the CTO No. 0051 Work Plan Addendum No. 06, Soil Excavation at Satellite Two Parking Lot (CH2M HILL, 2006).

The project objective, as specified in the CTO No. 0051 Work Plan Addendum No. 06 (CH2M HILL, 2006), to completely remove tar coating-impacted crushed limerock and soil was not achieved based on the FDEP SCTL exceedances in the confirmatory soil samples, and therefore, the Interim Source Removal requirements specified in FAC 62-770.300 were not fulfilled.

CH2M HILL recommends a Site Assessment be performed at the Satellite Two Parking Lot in accordance with FAC 62-770.600 to determine the nature and extent of petroleum contamination remaining at the site.

4.0 References

CH2M HILL Constructors, Inc. 1999. *Basewide Work Plan, Naval Station Mayport, Mayport, Florida*. May.

CH2M HILL Constructors, Inc. 2006. *Work Plan Addendum No. 06, Soil Excavation at Satellite Two Parking Lot, Naval Station Mayport, Mayport, Florida*. July.

Florida Department of Environmental Protection. 2005. *Florida Administrative Code, Chapter 62-770, Petroleum Contamination Site Cleanup Criteria*. April.

Appendix A

Site Photographs

Photo 1 - View of the tar coating material prior to excavation.

Photo 2 - View of tar coating-impacted limerock and soil prior to excavation from the east.

Photo 3 - View of tar coating-impacted limerock and soil prior to excavation from the south.

Photo 4 - View of tar coating-impacted limerock and soil prior to excavation from the west.

Photo 5 - View of tar coating-impacted limerock and soil prior to excavation from the south.

Photo 6 - View of tar coating-impacted limerock and soil prior to excavation from the east.

Photo 7 - View of tar coating-impacted limerock and soil prior to excavation from the north.

Photo 8 - View of tar coating-impacted limerock and soil prior to excavation from the northeast.

Photo 9 - View of hardened tar coating material on ground surface.

Photo 10 - View of stockpiling the crushed limerock fill material.

Photo 11 - View of excavation from the south.

Photo 12 - View of the stockpiled tar coating-impacted limerock and soil from the south.

Photo 13 - View of the stockpiled tar coating-impacted limerock and soil from the southeast.

Photo 14 - View of the excavated tar coating-impacted limerock and soil prior to stockpiling from the east.

Photo 15 - View of excavation from the south.

Photo 16 - View of the excavated area from the east.

Photo 17 - View of the covered stockpile from the south.

Photo 18 - View of the stockpile area after transportation and disposal from the east.

Photo 19 - View of stockpiled crushed limerock fill material left on-site.

Photo 20 - View of the stockpile area after transportation and disposal from the south.

Photo 21 - View of the excavated area after demobilization from the east.

Appendix B

Waste Disposal Documentation

- Transportation and Disposal Log
- Non-hazardous Waste Profile
- Certificate of Disposal
- Non-hazardous Waste Manifests
- Weight Tickets

Transportation and Disposal Log
Soil Excavation at Satellite Two Parking Lot
Naval Station Mayport, Mayport, Florida

CTO No	Project No	Project Name	Site Description	Container Type	Container Design	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Certif of Disp/ Destruc Date	Comments/ Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit			
0051	346570	NAVSTA Mayport	Satellite Two Parking Lot	DT	606	51WC1S060706	CH2M HILL	Beaver Bulk	15-Sep-06	Not Required	1	WM-Chesser Island Rd. Landfill	024-0006D	Soil	Non-Haz	Not Applicable	15-Sep-06	69151			22.24		TON	15-Sep-06		Complete
0051	346570	NAVSTA Mayport	Satellite Two Parking Lot	DT	502	51WC1S060706	CH2M HILL	Beaver Bulk	15-Sep-06	Not Required	2	WM-Chesser Island Rd. Landfill	024-0006D	Soil	Non-Haz	Not Applicable	15-Sep-06	69152			23.65		TON	15-Sep-06		Complete
0051	346570	NAVSTA Mayport	Satellite Two Parking Lot	DT	609	51WC1S060706	CH2M HILL	Beaver Bulk	15-Sep-06	Not Required	3	WM-Chesser Island Rd. Landfill	024-0006D	Soil	Non-Haz	Not Applicable	15-Sep-06	69153			28.17		TON	15-Sep-06		Complete
0051	346570	NAVSTA Mayport	Satellite Two Parking Lot	DT	506	51WC1S060706	CH2M HILL	Beaver Bulk	15-Sep-06	Not Required	4	WM-Chesser Island Rd. Landfill	024-0006D	Soil	Non-Haz	Not Applicable	15-Sep-06	69154			25.81		TON	15-Sep-06		Complete
0051	346570	NAVSTA Mayport	Satellite Two Parking Lot	DT	602	51WC1S060706	CH2M HILL	Beaver Bulk	15-Sep-06	Not Required	5	WM-Chesser Island Rd. Landfill	024-0006D	Soil	Non-Haz	Not Applicable	15-Sep-06	69155			27.92		TON	15-Sep-06		Complete

Generator's Non-Hazardous Waste Profile Sheet

Requested Disposal Facility: Chesser Island Landfill Profile Number: BA104074

☐ Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: United States Navy
2. Site Address: Code N4E2 PO Box 280067 Satellite Two Parki
3. City/ZIP: NS Mayport / 32228
4. State: Florida
5. County: Duval
6. Contact Name/Title: Diane Racine
7. Email Address: diane.racine@navy.mil
8. Phone: (904) 270-6730 x208
9. FAX: (904) 270-7398
10. NAICS Code: _____
11. Generator USEPA ID #: Not Required
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P.O. Number: _____

1. Customer Name: DNT Environmental Services,Inc
2. Billing Address: 1492 N. Blair Bridge Road
3. City, State and ZIP: Austell, GA 30168
4. Contact Name: John Teague
5. Contact Email: john@dntenvironmental.com
6. Phone: (770) 739-5600 FAX: (770) 739-8002
7. Transporter Name: Beaver Bulk
8. Transporter ID # (if appl.): Not Required
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Petroleum Contaminated Soil State Waste Code(s): Non-Haz

b. Describe Process Generating Waste or Source of Contamination:

Excavation of petroleum contaminated soil from satellite two parking lot

c. Typical Color(s): Various

d. Strong Odor? ☐ Yes ☑ No Describe: _____

e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____

f. Layers? ☑ Single layer ☐ Multi- layer ☐ NA

g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)

i. pH Range: ☐ ≤2 ☑ 2.1-12.4 ☐ ≥12.5 ☐ NA(solid) ☐ Actual: _____

j. Liquid Flash Point: ☐ < 140°F ☑ ≥ 140°F ☑ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☐ (See Attached)

Constituents *(Total Composition Must be ≥ 100%)*	Concentration %	Constituents *(Total Composition Must be ≥ 100%)*	Concentration %
1. Soil	95-100	4.	
2. Misc Debris: Wood, plastic, paper, and me	0-5	5.	
3.		6.	

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☑ Event ☐ Base/Ongoing (Check One)

b. Estimated Annual Quantity: 100 ☑ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____

c. Shipping Frequency: _____ Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No

e. USDOT Shipping Description (if applicable): Non-Hazardous and Non-Regulated Material

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): None

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Generator's Non-Hazardous Waste Profile Sheet

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☑ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: CTO51 Data Summary Table, Sample #51WC1S060706, TB-2-060706, 0607023-01 # Pages: 11
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: Diane K Racine Title: Environmental Protection Specialist

Company Name: Naval Station Mayport Name (Print): Diane K Racine

Date: 9/12/06

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation Approval Decision: ☐ Approved ☐ Not Approved

☐ Non-hazardous solidification ☐ Other: _____ Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval: _____

☐ Shall not contain free liquid
☐ Shipment must be scheduled into disposal facility
☐ Approval Number must accompany each shipment
☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ Date: _____

State Authorization (if Required): _____ Date: _____

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WASTE MANAGEMENT

Generator's Non-Hazardous Waste Profile Sheet

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ❑ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ❑ Yes ☑ No
   - ❑ Delisted Hazardous Waste
   - ❑ Excluded Wastes Under 40 CFR 261.4
   - ❑ Treated Hazardous Waste Debris
   - ❑ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ❑ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ❑ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ❑ Yes ❑ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ❑ Yes ❑ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ❑ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ❑ Yes ❑ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ❑ Yes ☑ No
7. Does the waste contain asbestos? ❑ Yes ☑ No If Yes, ❑ Friable ❑ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ❑ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ❑ Yes ☑ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: CTO51 Data Summary Table, Sample #51WC1S060706, TB-2-060706, 0607023-01 # Pages: 11
   - ❑ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ❑ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ❑ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ❑ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: _____ **Title:** _____

Company Name: _____ **Name (Print):** _____

Date: _____

FOR WM USE ONLY

Management Method: ❑ Landfill ❑ Bioremediation **Approval Decision:** ❑ Approved ❑ Not Approved

❑ Non-hazardous solidification ❑ Other: _____ Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval: _____

- ❑ Shall not contain free liquid
- ❑ Shipment must be scheduled into disposal facility
- ❑ Approval Number must accompany each shipment
- ❑ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

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WASTE MANAGEMENT

CERTIFICATE OF DISPOSAL

This is to document the disposition of waste material(s) removed from your facility located at:

U.S. NAVY, CODE N4E2, PO BOX 280087, SATELLITE TWO PARKING, NS MAYPORT, FL 32228

Charged to: DNT ENVIRONMENTAL SERV. INC. 1492 N. BLAIR BRIDGE RD., AUSTELL, GA 30168 1048

The waste material(s) consisted of PETROLEUM CONTAMINATED SOIL; SPEC WASTE PROFILE # BA104074

The waste material(s) were disposed of at:

Facility: Chesser Island Road Landfill (Solid Waste Handling Permit #024-006 D (SL)

Address: P.O. Box 128, Highway 121 @ Chesser Island Road
Folkston, GA 31537-0128

Disposal of your waste material(s) was accomplished by the following method(s):

a) Subtitle-D Landfill, immediately compacted and covered in accordance with all permit regulations

C. Date of Disposal: SEPTEMBER 15, 2006

D. Tons Disposed: 127.79

Linda J. Hair

Linda J. Hair, Office Manager

Chesser Island Road Landfill
P.O. Box 128, Hwy 121 @Chesser Island Rd
Folkston, Ga 31537
912/496-7918

WM WASTE MANAGEMENT — NON-HAZARDOUS MANIFEST

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 09117 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
UNITED STATES NAVY
CODE NUE2 PO BOX 280067-SATE2 PRKG
NS MAYPORT, FL 32228

4. Generator's Phone 904 270-6730

A. Manifest Number WMNA 1389268 1303362

B. State Generator's ID

5. Transporter 1 Company Name: BEAVER BULK | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone (386) 935-3501

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 31537

10. US EPA ID Number: 0 2 4 T 0 0 0 0 6 D

G. State Facility's ID: NA

H. Facility's Phone: 912-496-7918

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PETROLEUM CONTAMINATED SOIL WM Profile # 8010AR74	001	DT		T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information
Truck # 0008
Load # 1
CT05/SATELLITE PARKING LOT #2
386-935-3501
Purchase Order # EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month	Day	Year
DIANE RACINE	Diane Racine	09	15	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TIMOTHY W CLIME	Timothy W Clime	09	15	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facitilty Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month	Day	Year
K Barnard		09	15	06

CWM - NHM - 1 - 5/97

#2 - GENERATOR #1 COPY

WASTE MANAGEMENT

Chesser Island
Hwy 121/Chesser Island Rd
Folkston, GA, 31537
Ph: (912) 496-7918

Original
Ticket# 98045

Customer Name DNTENVSERVBA104074 DNT ENV SE
Ticket Date 09/15/2006
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10393362
Destination
PO
Profile BA104074 (PETROLEUM SOIL)
Generator 157-NASMAYPO NAS/MAYPORT

Carrier BEAVERBULK *
Vehicle# 0606
Container
Driver TIMOTHY :-)
Check#
Billing # 0000769
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound			
In	09/15/2006 14:08:05	MANUAL WT	PLORD		Gross	73160	lb
Out	09/15/2006 14:08:05		PLORD		Tare	28680	lb
					Net	44480	lb
					Tons	22.24	

Comments REPLACING 97371 TO CHANGE PRICING

Safety First

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	ContSoilPet-Tons-C	100	22.24	Tons				DUVAL
2	CRM-COST REIMBURSE	100	22.24	Tons				DUVAL
3	EV1-ENVIRONMENTAL	100		%				DUVAL
4	HAS-SPECIAL WASTE	100	22.24	Tons				DUVAL
5	HSF-HOST FEE	100		%				DUVAL
6	SPF-SUPERFUND	100	22.24	Tons				DUVAL

Total Fees
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 6 [illegible] 52 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
UNITED STATES NAVY
CODE NUE2 PO BOX 280067-SATE2 PRKG
NS MAYPORT, FL 32228

A. Manifest Number WMNA 1389268 10393363

B. State Generator's ID

4. Generator's Phone 904 270-6730

5. Transporter 1 Company Name
BEAVER BULK

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone (386) 935-3501

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 31537

10. US EPA ID Number
G A 4 7 0 0 0 6 1

G. State Facility's ID
NA

H. Facility's Phone
912-496-7918

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PETROLEUM CONTAMINATED SOIL WM Profile # 1A184874	001	DT		T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Truck # 0502
Load #

CT05/SATELLITE PARKING LOT #2

Purchase Order #

EMERGENCY CONTACT: 386-935-3501

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month	Day	Year
DIANE RACINE	Diane Racine	09	15	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Cahill	George Cahill	09	15	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month	Day	Year
K Barnard	[signature]	09	15	06

CWM - NHM - 1 - 5/97

#2 - GENERATOR #1 COPY

WASTE MANAGEMENT

Chesser Island
Hwy 121/Chesser Island Rd
Folkston, GA, 31537
Ph: (912) 496-7918

Original
Ticket# 98048

Customer Name DNTENVSERVBA104074 DNT ENV SE
Ticket Date 09/25/2006
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10393363
Destination
PO
Profile BA104074 (PETROLEUM SOIL)
Generator 157-NASMAYPO NAS/MAYPORT

Carrier BEAVERBULK *
Vehicle# 0502
Container
Driver GEORGE :-)
Check#
Billing # 0000769
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound			
In	09/25/2006 14:14:17	MANUAL WT	PLORD		Gross	77300	lb
Out	09/25/2006 14:17:52	MANUAL WT	PLORD		Tare	30000	lb
					Net	47300	lb
					Tons	23.65	

Comments Replacing 97372 to Correct Pricing

Safety First

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	ContSoilPet-Tons-C	100	23.65	Tons				DUVAL
2	CRM-COST REIMBURSE	100	23.65	Tons				DUVAL
3	EV1-ENVIRONMENTAL	100		%				DUVAL
4	HAS-SPECIAL WASTE	100	23.65	Tons				DUVAL
5	HSF-HOST FEE	100		%				DUVAL
6	SPF-SUPERFUND	100	23.65	Tons				DUVAL

Total Fees
Total Ticket

Driver's Signature

WM WASTE MANAGEMENT — NON-HAZARDOUS MANIFEST

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.: 6 7 1 5 3

2. Page 1 of 1

3. Generator's Name and Mailing Address:
UNITED STATES NAVY
CODE NUE2 PO BOX 280067-SATE2 PRKG
NS MAYPORT, FL 32228

4. Generator's Phone: 904 270-6730

A. Manifest Number: WMNA 1033364

B. State Generator's ID:

5. Transporter 1 Company Name: BEAVER BULK

6. US EPA ID Number:

C. State Transporter's ID:

D. Transporter's Phone: ~~(386) 935 3501~~

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address:
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 31537

10. US EPA ID Number: 0 2 4 - 0 0 0 6 D

G. State Facility's ID: MA

H. Facility's Phone: 912-496-7918

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PETROLEUM CONTAMINATED SOIL WM Profile # 80184074	001	DT		T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Truck # 0609
Load # 3

CTO5/SATELLITE PARKING LOT #2

Purchase Order #

EMERGENCY CONTACT: 386-935-3501

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month	Day	Year
DIANE RACINE	Diane Racine	09	15	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Thacker Roger	Roger Thacker	09	15	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month	Day	Year
P. Todd	Peter Todd	09	15	96

GENERATOR | TRANSPORTER | FACILITY

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#2 - GENERATOR #1 COPY

WASTE MANAGEMENT

Chesser Island
Hwy 121/Chesser Island Rd
Folkston, GA, 31537
Ph: (912) 496-7918

Original
Ticket# 98051

Customer Name DNTENVSERVBA104074 DNT ENV SE
Ticket Date 09/15/2006
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10393364
Destination
PO
Profile BA104074 (PETROLEUM SOIL)
Generator 157-NASMAYPO NAS/MAYPORT

Carrier BEAVERBULK *
Vehicle# 0604
Container
Driver THACKER :-)
Check#
Billing # 0000769
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound			
In	09/15/2006 14:20:01	MANUAL WT	PLORD		Gross	84840	lb
Out	09/15/2006 14:20:01		PLORD		Tare	28500	lb
					Net	56340	lb
					Tons	28.17	

Comments REPLACING 97380 TO CORRECT PRICING

Safety First

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	ContSoilPet-Tons C	100	28.17	Tons				DUVAL
2	CRM-COST REIMBURSE	100	28.17	Tons				DUVAL
3	EV1-ENVIRONMENTAL	100		%				DUVAL
4	HAS-SPECIAL WASTE	100	28.17	Tons				DUVAL
5	HSF-HOST FEE	100		%				DUVAL
6	SPF-SUPERFUND	100	28.17	Tons				DUVAL

Total Fees
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 671154 | 2. Page 1 of 1 | 9052

3. Generator's Name and Mailing Address
UNITED STATES NAVY
CODE NUE2 PO BOX 280067-SATE2 PRKG
NS MAYPORT, FL 32228

4. Generator's Phone 904 270-6739

A. Manifest Number WMNA 1389269 10393365

B. State Generator's ID

5. Transporter 1 Company Name
BEAVER BULK

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone (386) 935-3501

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 31537

10. US EPA ID Number
G A 4 T 0 0 0 0 6 1

G. State Facility's ID
NA

H. Facility's Phone
912-496-7918

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PETROLEUM CONTAMINATED SOIL WM Profile # 8018074	001	DT		T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information
Truck #0506
Load # 2.
Purchase Order #

CTCS/SATELLITE PARKING LOT #2

EMERGENCY CONTACT: 386-935-3501

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: DIANE RACINE | Signature "On behalf of": Diane Racine | Month Day Year: 09/15/06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Adam DeRocco | Signature: DeRocco | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name: Ford | Signature: Ford | Month Day Year: 09/15/06

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#2 - GENERATOR #1 COPY

WASTE MANAGEMENT

Chesser Island
Hwy 121/Chesser Island Rd
Folkston, GA, 31537
Ph: (912) 496-7918

Original
Ticket# 98052

Customer Name DNTENVSERVBA104074 DNT ENV SE
Ticket Date 09/15/2006
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10393365
Destination
PO
Profile BA104074 (PETROLEUM SOIL)
Generator 157-NASMAYPO NAS/MAYPORT

Carrier BEAVERBULK *
Vehicle# 0506
Container
Driver ADAM :-)
Check#
Billing # 0000769
Gen EPA ID
Grid

Volume

	Time	Scale	Operator
In	09/15/2006 14:24:24	MANUAL WT	PLORD
Out	09/15/2006 14:24:24	MANUAL WT	PLORD

Inbound

Gross	81340	lb
Tare	29720	lb
Net	51620	lb
Tons	25.81	

Comments REPLACING 97381 TO CORRECT PRICING

Safety First

	Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	ContSoilPet-Tons-C	100	25.81	Tons				DUVAL
2	CRM-COST REIMBURSE	100	25.81	Tons				DUVAL
3	EV1-ENVIRONMENTAL	100		%				DUVAL
4	HAS-SPECIAL WASTE	100	25.81	Tons				DUVAL
5	HSF-HOST FEE	100		%				DUVAL
6	SPF-SUPERFUND	100	25.81	Tons				DUVAL

Total Fees
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 69115 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
UNITED STATES NAVY
CODE NUE2 PO BOX 280067-SATE2 PRKG
NS MAYPORT, FL 32228

4. Generator's Phone 904 270-6730

A. Manifest Number WMNA 10393366

B. State Generator's ID

5. Transporter 1 Company Name BEAVER BULK | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone (386) 935-3501

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 31537

10. US EPA ID Number GAD 0 2 4 - 0 0 0 6 0

G. State Facility's ID NA

H. Facility's Phone 912-496-7918

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PETROLEUM CONTAMINATED SOIL WM Profile # R0104074	001	TT		T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information
Truck #00002 Load #5
CT05/SATELLITE PARKING LOT #2

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month	Day	Year
DIANE RACINE	Diane Racine	09	15	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MATTHEW HARE	Matthew Hare			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month	Day	Year
Howard		09	15	06

CWM - NHM - 1 - 5/97

#2 - GENERATOR #1 COPY

WASTE MANAGEMENT

Chesser Island
Hwy 121/Chesser Island Rd
Folkston, GA, 31537
Ph: (912) 496-7918

Original
Ticket# 98053

Customer Name DNTENVSERVBA104074 DNT ENV SE
Ticket Date 09/15/2006
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10393366
Destination
PO
Profile BA104074 (PETROLEUM SOIL)
Generator 157-NASMAYPO NAS/MAYPORT

Carrier BEAVERBULK *
Vehicle# 0602
Container
Driver MATTHEW :-)
Check#
Billing # 0000769
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound			
In	09/15/2006 14:28:45	MANUAL WT	PLORD		Gross	84760	lb
Out	09/15/2006 14:28:45	MANUAL WT	PLORD		Tare	28920	lb
					Net	55840	lb
					Tons	27.92	

Comments REPLACING 97382 TO CORRECT PRICING

Safety First

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	ContSoilPet-Tons-C	100	27.92	Tons				DUVAL
2	CRM-COST REIMBURSE	100	27.92	Tons				DUVAL
3	EV1-ENVIRONMENTAL	100		%				DUVAL
4	HAS-SPECIAL WASTE	100	27.92	Tons				DUVAL
5	HSF-HOST FEE	100		%				DUVAL
6	SPF-SUPERFUND	100	27.92	Tons				DUVAL

Total Fees
Total Ticket

Driver's Signature

Appendix C

Material Safety Data Sheet, Excavation Permit, and Fill Material Certification

- Tar Coating Material Safety Data Sheet (Bitumastic No. 50)
- Naval Station Mayport Excavation Permit
- Fill Material Certification

SECTION I - PRODUCT: BITUMASTIC 50 (0025S5NL)
Date: 12/03/99 Replaces 09/21/99
(aka BITUMASTIC NO. 50)
CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300
PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS

CHEMICAL NAME	(A)	(B)	(C)	(D)	(E)
INDENE	95-13-6	20%	10 PPM	NE	NE
COAL TAR PITCH	65996-93-2	20%	0.2 MG/M3	NE	NE
COAL TAR CREOSOTE	8001-58-9	15%	0.2 MG/M3	NE	NE
TALC	14807-96-6	10%	2MG/M3	NE	NE
CLAY	71011-27-3	10%	NE	NE	NE
COAL TAR DISTILLATE	65996-79-4	10%	100PPM	NE	NE
TOLUENE	108-88-3	5%	50 PPM	150 PPM	NE
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NE
BENZENE	71-43-2	2%	1 PPM	5PPM-15MIN	NE
NAPHTHALENE	91-20-3	2%	10 PPM	15 PPM	NE

HAZARDOUS INGREDIENTS	ADDITIONAL DATA	
CHEMICAL NAME	(F)	(G)
INDENE	NOT AVAILABLE	NO/NO/1
COAL TAR PITCH	NOT AVAILABLE	NO/NO/1,2
COAL TAR CREOSOTE	NOT AVAILABLE	NO/NO/1,2
TALC	NOT AVAILABLE	NO/NO
CLAY	NOT AVAILABLE	NO/NO
COAL TAR DISTILLATE	NOT AVAILABLE	NO/NO/NR/NO
TOLUENE	5.0 G/KG RAT ORAL, 14G/KG RABBIT DERMAL 8000 PPM/4HRS, RAT, INHALATION	NO/YES/1,2,3/ 1000#/U220
XYLENE	4300MG/KG RAT,ORAL 15000 PPM/4HRS RAT,INHALATION	NO/YES/1,2,3/ 1000#/U239
BENZENE	NOT AVAILABLE	YES/YES/1,2,3
NAPHTHALENE	NOT AVAILABLE	NO/YES/1

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route,LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B
HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 0, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

SECTION III - PHYSICAL DATA:

BOILING RANGE: 176F(80C)-424F(217C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 28 %. VOLATILE BY VOLUME: 39 %. PRODUCT WT/GAL: 11.1 LBS/U.S.GAL. 1.33 sp gr.

PRODUCT: BITUMASTIC 50 (0025S5NL)
Date: 12/03/99 Replaces 09/21/99

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 80 F(26C) (Setaflash) LEL 1.0 % UEL 7.1 %.
OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1C, DOT-PAINT,3,UN1263,PGIII, CANADIAN TDGA: PAINT,3,UN1263,PGIII
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.
FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation.
CONTACT: May cause eye irritation. May cause skin irritation.
NOTICE: Contains COAL TAR CREOSOTE, BENZENE, INDENE, NAPTHALENE and COAL TAR PITCH which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.
PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.
EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention.
EYE CONTACT: Flush with water for 15 minutes.
SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.
INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention.
IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning

material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.
CONDITIONS TO AVOID: Heat, sparks, and open flames.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use.
VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).
SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream.
HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.
APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.
OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages

incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144
PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

PUBLIC WORKS OFFICE
ENGINEERING DIVISION
NAVAL STATION MAYPORT
MAYPORT FLORIDA 32228-0067

Date: 14 June 2006

From C. Wayne Purifoy Code N4B5
PWO Engineering
Bldg 1966, Tel (904) 270-5184 ext 134

To: IAP / JEA Utilities Locates
Building 12
Fax Number (904) 249-9752

Subj: Naval Station Mayport Request for Utilities Locates
Excavation Permit **MYPT-06/06-164**

Encl: (1) Site Map

1. **CH2M-Hill** is requesting Locating and marking underground utilities in area shown on enclosures (1) for the removal of contaminated stones and soil in Satellite Parking Area Two (2) on Naval Station Mayport, Florida.

2. Point of Contact is Randy Dumaop @ (904) 777-4812

3. Sunshine State Confirmation Number/s: 165603041

4. Please contact Mr Randy Dumaop @ (904) 219-6280 for information regarding subject project. Sites shall be marked with White Paint.

5. IAP-Hills (NS Mayport) personnel performing locate shall **initial** and **date** Excavation Permit Request when all locates are completed. **Please provide a copy to PWO Engineering at FAX (904) 270-5115. Attn: C. Wayne Purifoy** or **e-mail: carey.purifoy@navy.mil**

Thank you for your assistance.

V/R
C. Wayne Purifoy

EXCAVATION PERMIT REQUEST

Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill	**Date Requested:** 06/14/06		**Date Required:** 06/24/06
1b. Requestor: Randy Dumaop	**Phone:** (904) 777-4812	**Cell Phone:** (904) 219-6280	**Fax:** (904) 777-4262

1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966: **POC:** C. Wayne Purifoy (904) 5184 x 134

2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)

Sub Contractor: *(if different than 1a,1b)*

2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map)
Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area

3. Permit Request Approval prior to locate: (PW Engineering)
Name: C. Wayne Purifoy **Signature** **Date:** 06/14/06
Comments:

4. Utility Organization Phone	**Ticket#**	**Name of Locator**	**Initial**	**Date**
4a. Primary Elec **JEA Bldg 12** (904) 270-5397 Water & Sewer				
4b. Secondary Elec **IAP Bldg 12** (904) 270-5347				
4c. Natural Gas **Sunshine State** 1-800-432-4770 Tel/Com **Sunshine State** 1-800-432-4770 CATV **Sunshine State** 1-800-432-4770	**165603041**		06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport **POC:** Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com				
4e.Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil				
4f. PWO Environmental Div **POC** Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil				
4g. Navy owned –copper (phone cable: **POC** John Buettgen NAS JAX (904)542-4569				

5. **Permit Request Approval after locate (PW Engineering)**

Name: C. Wayne Purifoy Signature_____ Date:_____
Comments:
Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

Note: Contractor shall identify and mark areas where locates are to be performed with white paint, Provide Map of area where locates are to be performed.

Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise

EXCAVATION PERMIT REQUEST

Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill	**Date Requested:** 06/14/06		**Date Required:** 06/24/06
1b. Requestor: Randy Dumaop	**Phone:** (904) 777-4812	**Cell Phone:** (904) 219-6280	**Fax:** (904) 777-4262
1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966:	**POC:** C. Wayne Purifoy (904) 5184 x 134		
2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)	**Sub Contractor:** *(if different than 1a.1b)*		
2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map) Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area			
3. Permit Request Approval prior to locate: (PW Engineering) **Name:** C. Wayne Purifoy **Signature** [signature] **Date:** 06/14/06 *Comments:*			

4. Utility Organization Phone	**Ticket#**	**Name of Locator**	**Initial**	**Date**	
4a. Primary Elec **JEA Bldg 12** (904) 270-5397 Water & Sewer	no response			7-6-06	CWP
4b. Secondary Elec **IAP Bldg 12** (904) 270-5347	no response			7-6-06	CWP
4c.Natural Gas **Sunshine State** 1-800-432-4770 Tel/Com **Sunshine State** 1-800-432-4770 CATV **Sunshine State** 1-800-432-4770	**165603041**			06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport **POC:** Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com	✓	MHH		6/14/06	CWP
4e.Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil	[signature]			6/15/06	CWP
4f. PWO Environmental Div **POC** Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil	—			6-15-06	CWP
4g. Navy owned –copper (phone cable: **POC** John Buettgen NAS JAX (904)542-4569	✓	DM		6-15-06	CWP

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature [signature] Date: 7-6-06

Comments:

Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature: [signature] Date: 7/6/2006

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

Note: Contractor shall identify and mark areas where locates are to be performed with white paint, Provide Map of area where locates are to be performed.

Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise

EXCAVATION PERMIT REQUEST
Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill		Date Requested: 06/14/06	Date Required: 06/24/06
1b. Requestor: Randy Dunlap	Phone: (904) 777-4812	Cell Phone: (904) 219-6280	Fax: (904) 777-4262
1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966:	POC: C. Wayne Purifoy (904) 5184 x 134		
2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)	Sub Contractor: *(if different than 1a, 1b)*		
2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map) Excavate and remove 35 foot wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area			
3. Permit Request Approval prior to locate: (PW Engineering) Name: C. Wayne Purifoy Signature: Date: 06/14/06 Comments:			

4. Utility Organization Phone	Ticket	Name of Locator Initial	Date	
4a. Primary Elec JEA Bldg 12 (904) 270-5397 Water & Sewer	520167	Swindle	7-30-06	GD
4b. Secondary Elec IAP Bldg 12 (904) 270-5247	520176			
4c. Natural Gas Sunshine State 1-800-432-4770 Tel/Com Sunshine State 1-800-432-4770 CATV Sunshine State 1-800-432-4770	165603041		06/14/06	CWP
4d. Gov Fiber-Optics NRD Mayport POC: Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.johnson-holland@nmci-isf.com				
4e. Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil				
4f. PWD Environmental Div POC Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil				
4g. Navy owned –copper (phone cable): POC John Buettgen NAS JAX (904)542-4569				

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature:_____ Date:_____

Comments:

Is excavation within or near area of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

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Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise

EXCAVATION PERMIT REQUEST
Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill		Date Requested: 06/14/06	Date Required: 06/24/06
1b. Requestor: Randy Dumaop	Phone: (904) 777-4812	Cell Phone: (904) 219-6280	Fax: (904) 777-4262
1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966:		POC: C. Wayne Purifoy (904) 5184 x 134	
2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)		Sub Contractor: *(If different than 1a./1b)*	
2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map): Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area			
3. Permit Request Approval prior to locate: (PW Engineering) Name: C. Wayne Purifoy Signature: [signature] Date: 06/14/06 *Comments:*			

4. Utility Organization Phone	Ticket#	Name of Locator	Initial	Date
4a. Primary Elec JEA Bldg 12 (904) 270-5397 Water & Sewer	520167			
4b. Secondary Elec JAF Bldg 12 (904) 270-5347	520176	Tom Kitchen	JK	6/16/6
4c. Natural Gas Sunshine State 1-800-432-4770 Tel/Com Sunshine State 1-800-432-4770 CATV Sunshine State 1-800-432-4770	165603041		06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport POC: Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.johnson-holland@nmci-isf.com				
4e. Gov Com-Cable CEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil				
4f. PWO Environmental Div POC Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil				
4g. Navy owned –copper (please cable: POC John Buettgen NAS JAX (904)542-4569				

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature:_____ Date:_____

Comments:

Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering. FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

Note: Contractor shall identify and mark areas where locates are to be performed with white paint. Provide Map of area where locates are to be performed.

Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise

EXCAVATION PERMIT REQUEST

Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company:	Date Requested:	Date Required:
CH2M-Hill	06/14/06	06/24/06

1b. Requestor:	Phone:	Cell Phone:	Fax:
Randy Dunlop	(904) 777-4812	(904) 219-6280	(904) 777-4262

1c. Government Issuing Agency: **POC:**
NS Mayport Public Work Engineering Office Building 1966: C. Wayne Purifoy (904) 5184 x 134

2a. Project Title: **Sub Contractor:** *(If different than 1a, 1b)*
Environmental Clean Up at Satellite Parking Area Two (2)

2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map)
Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area

3. Permit Request Approval prior to locate: (PW Engineering)
Name: C. Wayne Purifoy **Signature** _____ **Date:** 06/14/06
Comments:

4. Utility Organization Phone	Ticket#	Name of Locator	Initial	Date	
4a. Primary Elec JEA Bldg 12 (904) 270-5397 Water & Sewer					
4b. Secondary Elec JAP Bldg 12 (904) 270-5347					
4c. Natural Gas Sunshine State 1-800-432-4770 Tel/Com Sunshine State 1-800-432-4770 CATV Sunshine State 1-800-432-4770	165603041			06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport POC: Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com					6-14-06
4e. Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil					
4f. PWO Environmental Div POC Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil					

4g. Navy owned –copper (phone cable:
POC John Buettgen NAS JAX (904)542-4569

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature_____ Date:_____
Comments:
Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

Note: Contractor shall identify and mark areas where locates are to be performed with white paint. Provide Map of area where locates are to be performed.

Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise

P2

EXCAVATION PERMIT REQUEST
Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill		**Date Requested:** 06/14/06	**Date Required:** 06/24/06
1b. Requestor: Randy Dumaop	**Phone:** (904) 777-4812	**Cell Phone:** (904) 219-6280	**Fax:** (904) 777-4262
1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966:		**POC:** C. Wayne Purifoy (904) 5184 x 134	
2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)		**Sub Contractor:** *(if different than 1a,1b)*	
2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map) Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area			
3. Permit Request Approval prior to locate: (PW Engineering) Name: C. Wayne Purifoy Signature: [signature] Date: 06/14/06 *Comments:*			

4. Utility Organization Phone	Ticket#	Name of Locator	Initial	Date	
4a. Primary Elec **JEA Bldg 12** (904) 270-5397 Water & Sewer					
4b. Secondary Elec **IAP Bldg 12** (904) 270-5347					
4c. Natural Gas **Sunshine State** 1-800-432-4770 Tel/Com **Sunshine State** 1-800-432-4770 CATV **Sunshine State** 1-800-432-4770	**165603041**			06/14/06	CWP
4d. **Gov Fiber-Optics ISRD Mayport** POC: Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com					
4e. **Gov Com-Cable GEMD Mayport** POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil					
4f. **PWO Environmental Div** POC Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil					
4g. **Navy owned –copper (phone cable:** POC John Buettgen NAS JAX (904)542-4569	06165008	DAVID McKnight	DJM	6-15-06	

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature_____ Date:_____

Comments:

Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

Note: Contractor shall identify and mark areas where locates are to be performed with white paint. Provide Map of area where locates are to be performed.

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EXCAVATION PERMIT REQUEST
Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill		**Date Requested:** 06/14/06	**Date Required:** 06/24/06
1b. Requestor: Randy Dumaop	**Phone:** (904) 777-4812	**Cell Phone:** (904) 219-6280	**Fax:** (904) 777-4262

1c. Government Issuing Agency: **POC:**
NS Mayport Public Work Engineering Office Building 1966: C. Wayne Purifoy (904) 5184 x 134

2a. Project Title: **Sub Contractor:** *(if different than 1a, 1b)*
Environmental Clean Up at Satellite Parking Area Two (2)

2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map)
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3. Permit Request Approval prior to locate: (PW Engineering)
Name: C. Wayne Purifoy **Signature** [signature] **Date:** 06/14/06
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4c. Natural Gas **Sunshine State** 1-800-432-4770 Tel/Com **Sunshine State** 1-800-432-4770 CATV **Sunshine State** 1-800-432-4770	**165603041**			06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport **POC:** Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com					
4e. Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil	[signature]	[signature]	VRB	6/14/06	
4f. PWO Environmental Div **POC** Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil					
4g. Navy owned –copper (phone cable: **POC** John Buettgen NAS JAX (904)542-4569					

5. Permit Request Approval after locate (PW Engineering)

Name: C. Wayne Purifoy Signature_____ Date:_____
Comments:
Is excavation within or near areas of contamination?

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW

EXCAVATION PERMIT REQUEST

Naval Station Mayport

PERMIT REQUEST NO. MYPT-06/06-164

1a. Name of Company: CH2M-Hill		**Date Requested:** 06/14/06	**Date Required:** 06/24/06
1b. Requestor: Randy Dumaop	**Phone:** (904) 777-4812	**Cell Phone:** (904) 219-6280	**Fax:** (904) 777-4262
1c. Government Issuing Agency: NS Mayport Public Work Engineering Office Building 1966:		**POC:** C. Wayne Purifoy (904) 5184 x 134	
2a. Project Title: Environmental Clean Up at Satellite Parking Area Two (2)		**Sub Contractor:** *(if different than 1a, 1b)*	
2b. Scope of Excavation (Specify Purpose, Method, Length and Depth of Area- Attached Site-Map) Excavate and remove 35 feet wide x 100 feet long x 6 inches deep contaminated lime stone/ soil in parking area			
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4. Utility Organization Phone	Ticket#	Name of Locator	Initial	Date	
4a. Primary Elec **JEA Bldg 12** (904) 270-5397 Water & Sewer					
4b. Secondary Elec **IAP Bldg 12** (904) 270-5347					
4c.Natural Gas **Sunshine State** 1-800-432-4770 Tel/Com **Sunshine State** 1-800-432-4770 CATV **Sunshine State** 1-800-432-4770	**165603041**			06/14/06	CWP
4d. Gov Fiber-Optics ISRD Mayport **POC:** Mary Holland @ Bldg 12 (904) 270-5053 E-mail mary.Johnson-holland@nmci-isf.com					
4e.Gov Com-Cable GEMD Mayport POC Vern Benson Bldg 450 (904)270-6148 Vern.benson@navy.mil					
4f. PWO Environmental Div **POC** Cheryl Mitchell Bldg 2021 (904)270-6730 Cheryl.Mitchell@navy.mil	known contamination	Diane Racine	DR	6/19/06	
4g. Navy owned –copper (phone cable: **POC** John Buettgen NAS JAX (904)542-4569					

5. **Permit Request Approval after locate (PW Engineering)**

Name: C. Wayne Purifoy Signature_____ Date:_____

Comments:

Is excavation within or near areas of contamination?

* Area is petroleum contaminated, the contractor is aware & will be remediating contamination - DRacine

Contractor Supervisor / Representative:

Name:_____ Signature:_____ Date:_____

Note: Please initial and date Excavation Permit Request when locates are complete provide copy to PW Engineering, FAX (904) 270-5115, Attn : C. Wayne Purifoy or e-mail: carey.purifoy@navy.mil

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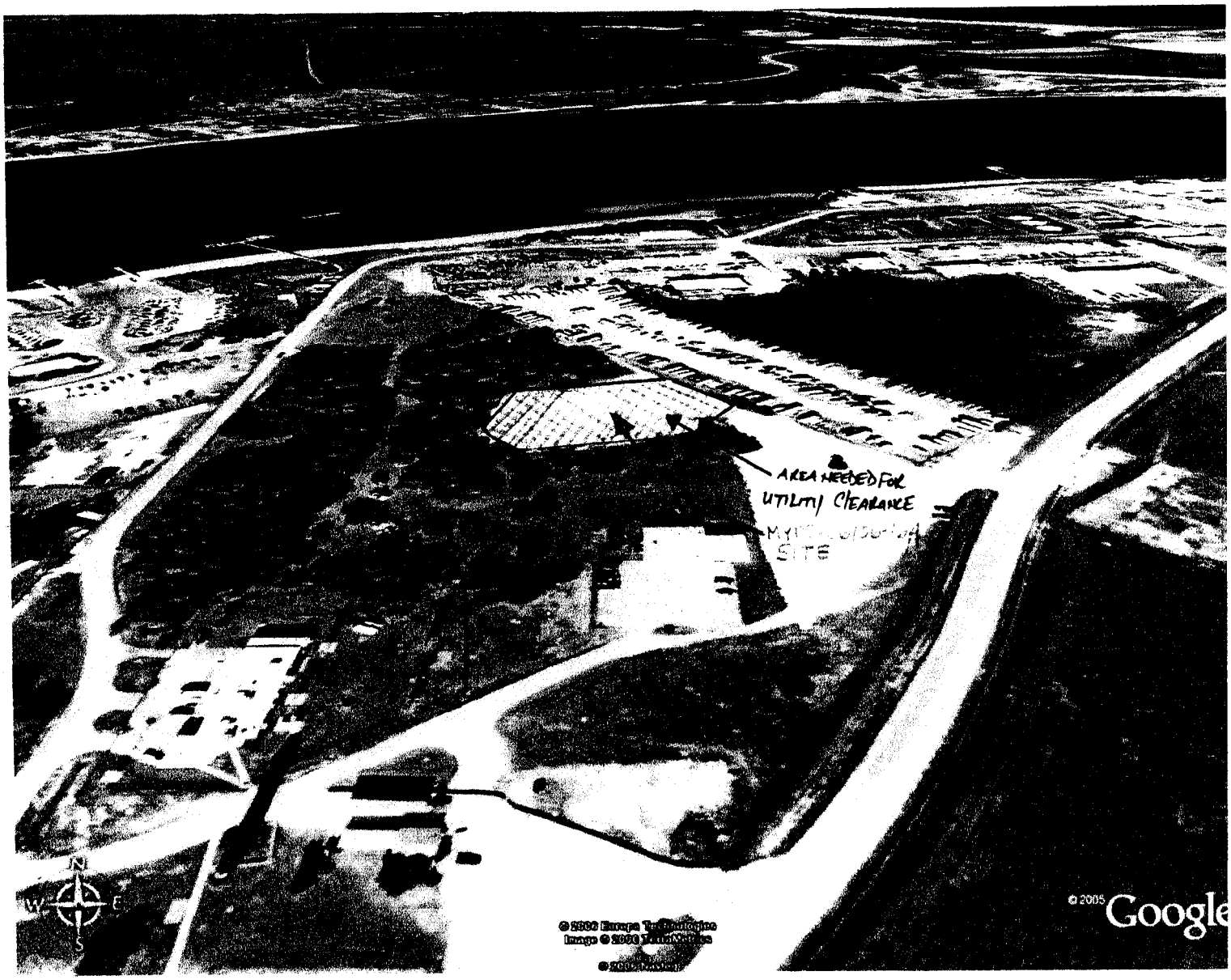
Note: Locators shall call requestor to identify locations of excavation, drilling and boring work when not clearly identified otherwise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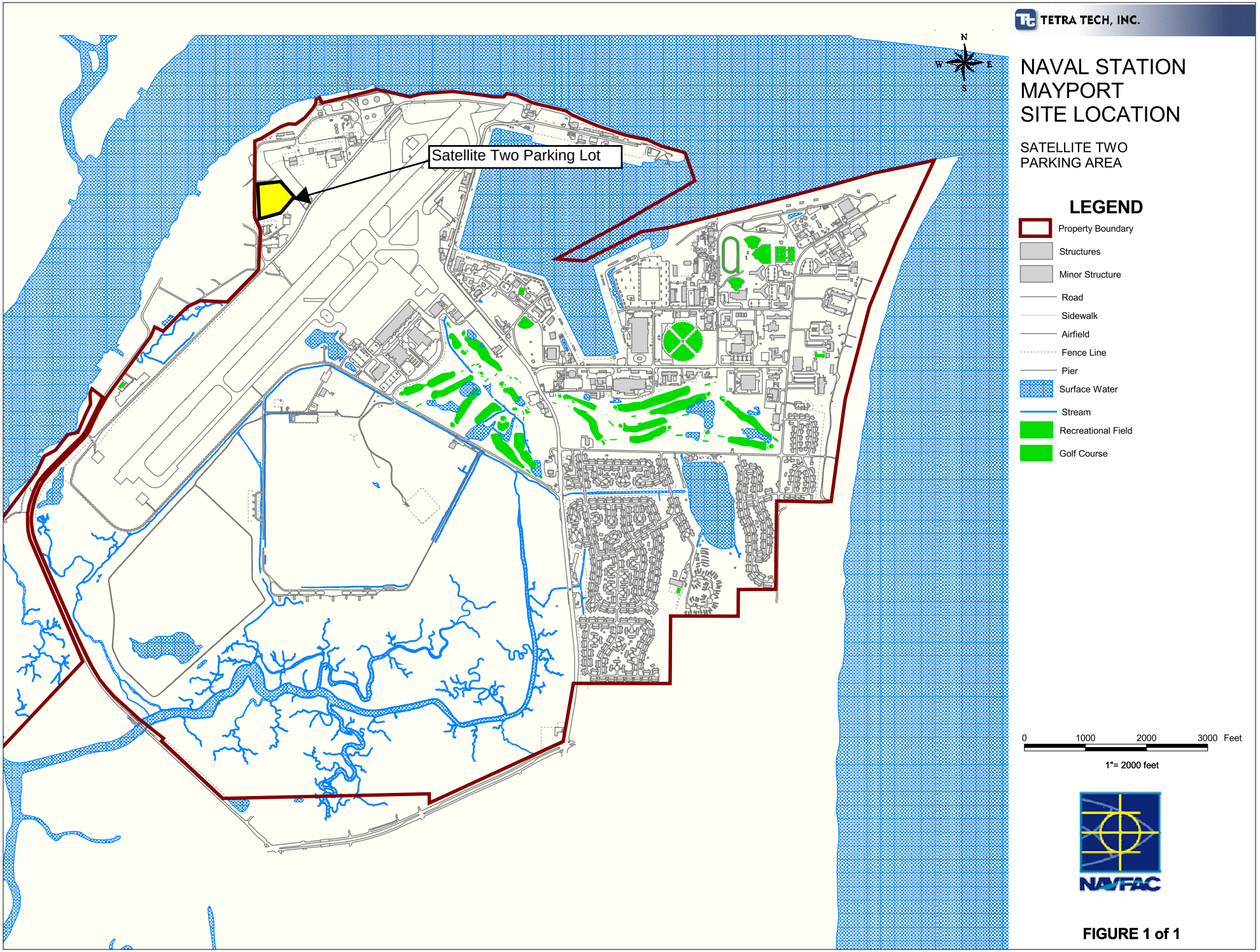

TETRA TECH, INC.

NAVAL STATION MAYPORT SITE LOCATION

SATELLITE TWO PARKING AREA

LEGEND

- Property Boundary
- Structures
- Minor Structure
- Road
- Sidewalk
- Airfield
- Fence Line
- Pier
- Surface Water
- Stream
- Recreational Field
- Golf Course

0 1000 2000 3000 Feet

1"= 2000 feet

NAVFAC

FIGURE 1 of 1

This graphic was generated using the TtNUS EGIS module

Plot date: Jun 13, 2006; U:\apr\EGIS_Mayport_NS.apr

Area needed for utility clearance
30°23'43.50" N 81°25'30.16" W
Streaming 100%
Eye alt

CONRAD YELVINGTON
DISTRIBUTORS, INC.

October 13, 2006

Collene Kurtz
CH2M Hill Constructors Inc.
115 Perimeter Center Place NE Suite #700
Atlanta, Ga 30346-1278

Ph: 210-377-3081x259
Fax 972-385-5116

Re: LRBS-FL_02100 Limerock Roadbase Material Mine #26-100
Proj: Satilite Parking Lot #2 Mayport Naval Station Atlantic Bch, Florida

This materials Conrad Yelvington Distributors supplied your project are in accordance with FDOT Section 911 specifications for Limerock Base not recycled. The following are typical physical properties;

FDOT Source No. 26-100
LBR value – 112 pcf
Dry Unit Wt. 115 pcf @ 13.6 % Moisture
Carbonates 97 %

Should you have any questions or need any additional information, please do not hesitate to contact this office.

Sincerely,

Conrad Yelvington Distributors, Inc.

Kim Thompson
Vice President of Sales & Quality Assurance

Appendix D

Laboratory Analytical Reports
(provided on CD)

NS Mayport

PREPARED FOR: NS Mayport/Satellite Parking Lot 2 Excavation July Soil Sampling

PREPARED BY: Camden Robinson/ Associate Project Chemist/CCI

COPIES: Mike Halil/Project Manager/CCI

DATE: August 1, 2006

SUBJECT: Quality Assessment for Samples Collected July 6th, 2006 and July 11th, 2006

This quality assurance memorandum is based upon a review of analytical data generated for soil samples and the associated field quality control samples collected July 6th 2006 and July 11th 2006 at the Naval Station Mayport, in Jacksonville, Florida. The samples were collected as a part of the satellite parking lot 2 excavations July soil sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories of Nashville, Tennessee served as the laboratory for this satellite parking lot 2 excavations July soil sampling event for the following analyses:

- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by SW-846 method 8260B,
- Polyaromatic Hydrocarbons (PAH) by SW-846 method 8270C,
- Total Petroluem Hydrocarbon (TPH) by method FL-PRO

Table 1-1 *Summary Sample Data Reviewed*
NS Mayport Satellite Parking Lot 2 Excavation July Soil Sampling

Sample ID	Date Sampled	LabID	Matrix	Analysis
51EQB1W060706	07/06/2006	0607022-01	Water	[1], [2], [3]
51EQB2W060706	07/06/2006	0607022-02	Water	[1], [2], [3]
51CFM01S060706	07/06/2006	0607022-03	Water	[2], [3]
51CFM02S060706	07/06/2006	0607022-04	Water	[2], [3]
51CFM03S060706	07/06/2006	0607022-05	Water	[2], [3]
51CFM04S060706	07/06/2006	0607022-06	Water	[2], [3]
51CFM05S060706	07/06/2006	0607022-07	Water	[2], [3]
51CFM06S060706	07/06/2006	0607022-08	Water	[2], [3]
51CFM07S060706	07/06/2006	0607022-09	Water	[2], [3]
51CFM08S060706	07/06/2006	0607022-10	Water	[2], [3]
*51DUP1S060706	07/06/2006	0607022-11	Water	[2], [3]
TB-1-060706	07/06/2006	0607022-12	Water	[1]

51CFM1BS060711	07/11/2006	0607031-01	Water	[1]
51CFM2BS060711	07/11/2006	0607031-02	Water	[1]
51CFM3BS060711	07/11/2006	0607031-03	Water	[1]
51CFM4BS060711	07/11/2006	0607031-04	Water	[1]
51CFM5BS060711	07/11/2006	0607031-05	Water	[1]
51CFM6BS060711	07/11/2006	0607031-06	Water	[1]
51CFM7BS060711	07/11/2006	0607031-07	Water	[1]
51CFM8BS060711	07/11/2006	0607031-08	Water	[1]
**51DUP2S060711	07/11/2006	0607031-09	Water	[1]
51BLK2W060711	07/11/2006	0607031-10	Water	[1]

ANALYSES PERFORMED CODES:
[1] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by Method SW 846 8260B
[2] – Polyaromatic Hydrocarbons (PAH) by Method SW 846 8270C
[3] – Total Petroluem Hydrocarbon by method FL-PRO
** 51DUP1S060706 is blind field duplicate for sample 51CFM01S060706*
*** 51DUP2S060711 is blind field duplicate for sample 51CFM1BS060711*

The quality assessment report for the analyses was reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All organic, inorganic, and classical chemistry results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual for Environmental Laboratories, Final-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, and electronic data deliverables.

The analyses were performed acceptably and required only general qualifying statements. It is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. Result summary reports presenting the validated and qualified results are presented in Attachment II.

SOIL RESIDENTAL CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the Satellite Parking Lot 2 Excavation July Soil Sampling 2006 event for the Benzene, Tolune, Ethylbenzene, Total Xylenes, Polyaromatic Hydrocarbons, and Total Petroluem Hydrocarbon (PRO) analyses were less than the action level soil residental cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (PRO)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
PRO	51CFM03S060706	580 JB	460
PRO	51CFM04S060706	2200 JB	460
PRO	51CFM05S060706	2600 JB	460
C22-C36	51CFM05S060706	2400 B	2300
PRO	51CFM07S060706	1900 JB	460

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Benzo(a)anthracene	51CFM01S060706	3.3 J	1.3
Benzo(a)pyrene	51CFM01S060706	3.7 J	0.1
Benzo(b)fluoranthene	51CFM01S060706	4.1 J	1.3
Dibenz(a,h)anthracene	51CFM01S060706	0.52 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM01S060706	1.9 J	1.3
Benzo(a)pyrene	51CFM02S060706	1.2	0.1
Dibenz(a,h)anthracene	51CFM02S060706	0.2 J	0.1
Benzo(a)anthracene	51CFM03S060706	5.9	1.3
Benzo(a)pyrene	51CFM03S060706	5.7	0.1
Benzo(b)fluoranthene	51CFM03S060706	6.1	1.3
Dibenz(a,h)anthracene	51CFM03S060706	0.86 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM03S060706	3.2 J	1.3
Benzo(a)anthracene	51CFM04S060706	34 J	1.3
Benzo(a)pyrene	51CFM04S060706	30	0.1
Benzo(b)fluoranthene	51CFM04S060706	28 J	1.3

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Benzo(k)fluoranthene	51CFM04S060706	21 J	13
Indeno(1,2,3-cd)pyrene	51CFM04S060706	18 J	1.3
Benzo(a)anthracene	51CFM05S060706	27	1.3
Benzo(a)pyrene	51CFM05S060706	24	0.1
Benzo(b)fluoranthene	51CFM05S060706	31	1.3
Benzo(k)fluoranthene	51CFM05S060706	14 J	13
Dibenz(a,h)anthracene	51CFM05S060706	4.4 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM05S060706	15 J	1.3
Benzo(a)anthracene	51CFM07S060706	4.4	1.3
Benzo(a)pyrene	51CFM07S060706	4.3	0.1
Benzo(b)fluoranthene	51CFM07S060706	5	1.3
Dibenz(a,h)anthracene	51CFM07S060706	0.7 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM07S060706	2.4	1.3
Benzo(a)pyrene	51CFM08S060706	0.31	0.1

SOIL INDUSTRIAL CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the Satellite Parking Lot 2 Excavation July Soil Sampling 2006 event for the Benzene, Tolune, Ethylbenzene, Total Xylenes, Polyaromatic Hydrocarbons, and Total Petroluem Hydrocarbon (PRO) analyses were less than the action level soil industrial cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Benzo(a)pyrene	51CFM01S060706	3.7 J	0.7
Benzo(a)pyrene	51CFM02S060706	1.2	0.7
Benzo(a)pyrene	51CFM03S060706	5.7	0.7
Dibenz(a,h)anthracene	51CFM03S060706	0.86 J	0.7
Benzo(a)anthracene	51CFM04S060706	34 J	6.6
Benzo(a)pyrene	51CFM04S060706	30	0.7
Benzo(b)fluoranthene	51CFM04S060706	28 J	6.5
Indeno(1,2,3-cd)pyrene	51CFM04S060706	18 J	6.6

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Benzo(a)anthracene	51CFM05S060706	27	6.6
Benzo(a)pyrene	51CFM05S060706	24	0.7
Benzo(b)fluoranthene	51CFM05S060706	31	6.5
Dibenz(a,h)anthracene	51CFM05S060706	4.4 J	0.7
Indeno(1,2,3-cd)pyrene	51CFM05S060706	15 J	6.6
Benzo(a)pyrene	51CFM07S060706	4.3	0.7

GENERAL DATA QUALIFIERS

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary tables to indicate that they are quantitative estimates.

ORGANIC DATA QUALIFIERS

The total petroleum hydrocarbon (PRO), C8-C10, C10-C12, C12-C16, C16-C22, and C22-C36 results for the samples listed below are considered estimated due to the levels at which the analytes were present in the associated equipment and/or method blanks. This has been indicated by placing a "JB" qualifier next to the reported results associated with the equipment blank contamination and a "B" qualifier next to the reported results associated with the method blank contamination for the analyte listed on the data summary table for these samples.

Analyte	Affected Samples
PRO	51CFM01S060706, 51CFM02S060706, 51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM06S060706, 51CFM07S060706, 51CFM08S060706, 51DUP1S060706
C8-C10	51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM07S060706
C10-C12	51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM07S060706
C12-C16	51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM07S060706
C16-C22	51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM07S060706
C22-C36	51CFM03S060706, 51CFM04S060706, 51CFM05S060706, 51CFM07S060706

The samples presented below were analyzed, re-analyzed at dilutions, or extracted following medium level protocol for the analyses indicated. These dilutions may have resulted in surrogate compounds diluted below the instrument detection limit; therefore surrogate recoveries may not be reported for all diluted analysis. These dilutions were required to prevent saturation of the instrument and to allow quantitation of the compounds within the linear range of the calibration curve, internal standard failures, and/or to reduce the effects of the matrix on the target compounds. Positive results for these compounds in the samples below have been reported from the diluted analyses. All other results and quantitation limits have been reported on the sample report summary from the initial analysis. However, higher quantitation limits may have resulted for specific volatile organic compounds, polyaromatic hydrocarbons, and total petroleum hydrocarbons which were not detected, in these samples. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds, polyaromatic hydrocarbons, and total petroleum hydrocarbons.

Sample ID	Analysis	Dilution Factor
51CFM3BS060711	BTEX	50X
51CFM7BS060711	BTEX	50X
51CFM03S060706	PRO	5X
51CFM04S060706	PRO	10X
51CFM05S060706	PRO	20X
51CFM07S060706	PRO	10X
51CFM01S060706	PAH	5X
51CFM02S060706	PAH	5X
51CFM03S060706	PAH	20X
51CFM04S060706	PAH	200X
51CFM05S060706	PAH	100X
51CFM06S060706	PAH	2X
51CFM07S060706	PAH	10X
51CFM08S060706	PAH	2X
51DUP1S060706	PAH	5X

The trip blank sample reagent water vials (51BLK1W060711) were received broken at the laboratory; therefore the methanol vial provided for trip blank sample 51BLK1W060711 was analyzed which resulted in elevated detection limits.

Samples 51CFM01S060706 and 51CFM1BS060711 and their blind field duplicate samples 51DUP1S060706 and 51DUP2S060711 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for soil samples relative percent difference (RPD) for benzene, toluene, ethylbenzene, total xylenes, and polyaromatic hydrocarbons analyses with the exception of acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and total petroleum hydrocarbon. A "J" qualifier was appended to the compound for the native sample and field duplicate sample listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Acenaphthene	51CFM01S060706 and 51DUP1S060706
Anthracene	51CFM01S060706 and 51DUP1S060706
Benzo(a)anthracene	51CFM01S060706 and 51DUP1S060706
Benzo(b)fluoranthene	51CFM01S060706 and 51DUP1S060706
Benzo(k)fluoranthene	51CFM01S060706 and 51DUP1S060706
Benzo(g,h,i)perylene	51CFM01S060706 and 51DUP1S060706
Chrysene	51CFM01S060706 and 51DUP1S060706
Dibenz(a,h)anthracene	51CFM01S060706 and 51DUP1S060706
Fluoranthene	51CFM01S060706 and 51DUP1S060706
Fluorene	51CFM01S060706 and 51DUP1S060706
Indeno(1,2,3-cd)pyrene	51CFM01S060706 and 51DUP1S060706
Phenanthrene	51CFM01S060706 and 51DUP1S060706
Pyrene	51CFM01S060706 and 51DUP1S060706
PRO	51CFM01S060706 and 51DUP1S060706

SUMMARY

The organic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached data summary report. A support documentation package has been prepared for this quality assurance review and filed for Contract Task Order 51 Satellite Parking Lot 2 Excavation July Soil Sampling 2006-project files.

ATTACHMENT I

Data Summary Tables

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	The matrix spike/matrix spike duplicate accuracy or precision objectives were not met. (AIR ANALYSIS ONLY)	Not applicable

ATTACHMENT II

Chains of Custody

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702201

Level: (low/med) LOW Date Sampled: 07/06/06 15:10

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702202

Level: (low/med) LOW Date Sampled: 07/06/06 17:00

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-12

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702212

Level: (low/med) LOW Date Sampled: 07/06/06 :

% Moisture: not dec. _____ Date Analyzed: 07/10/06 20:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 012R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 21:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.082	JB J

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 013R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 22:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.060	JB ~~J~~

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 021R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 02:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	170	JB-F,MB

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 016R0201

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	200	JB-F,mB

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	580	D JB F, MF

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.83	2.1	18	D
	>C10-C12	0.83	2.1	4.1	D
	>C12-C16	1.7	4.2	20	D
	>C16-C22	2.5	6.2	170	D
	>C22-C36	5.8	14	480	D

B-MB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	25	70	2200	D SB-F, PR

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	200	D
	>C10-C12	1.6	4.1	18	D
	>C12-C16	3.3	8.3	65	D
	>C16-C22	5.0	12	570	D
	>C22-C36	12	29	1500	D

DB-MB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	49	140	2600	D JB-F, MB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	3.3	8.2	39	D
	>C10-C12	3.3	8.2	9.3	D
	>C12-C16	6.6	16	61	D
	>C16-C22	9.8	24	790	D
	>C22-C36	23	57	2400	D

B-MB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 017R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:39

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	5.8	JB-F,mB

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	24	69	1900	D J B f, M

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	150	D B-MB
	>C10-C12	1.6	4.1	16	D
	>C12-C16	3.2	8.1	84	D
	>C16-C22	4.9	12	530	D
	>C22-C36	11	28	1200	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0201

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	24	B JB 7/14

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 019R0201

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:44

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.9	79	JB-F,m

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 0702201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.051		U
208-96-8	Acenaphthylene	0.0087	0.051		U
120-12-7	Anthracene	0.0097	0.051		U
56-55-3	Benzo(a)anthracene	0.011	0.051		U
205-99-2	Benzo(b)fluoranthene	0.016	0.051		U
207-08-9	Benzo(k)fluoranthene	0.013	0.051		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.051		U
50-32-8	Benzo(a)pyrene	0.0097	0.051		U
218-01-9	Chrysene	0.0092	0.051		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.051		U
206-44-0	Fluoranthene	0.012	0.051		U
86-73-7	Fluorene	0.013	0.051		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.051		U
91-57-6	2-Methylnaphthalene	0.016	0.051		U
90-12-0	1-Methylnaphthalene	0.010	0.051		U
91-20-3	Naphthalene	0.019	0.051		U
85-01-8	Phenanthrene	0.014	0.051		U
129-00-0	Pyrene	0.011	0.051		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 0702202

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:43

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.052		U
208-96-8	Acenaphthylene	0.0088	0.052		U
120-12-7	Anthracene	0.0099	0.052		U
56-55-3	Benzo(a)anthracene	0.011	0.052		U
205-99-2	Benzo(b)fluoranthene	0.017	0.052		U
207-08-9	Benzo(k)fluoranthene	0.014	0.052		U
191-24-2	Benzo(g,h,i)perylene	0.014	0.052		U
50-32-8	Benzo(a)pyrene	0.0099	0.052		U
218-01-9	Chrysene	0.0094	0.052		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.052		U
206-44-0	Fluoranthene	0.012	0.052		U
86-73-7	Fluorene	0.013	0.052		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.019	0.052		U
91-57-6	2-Methylnaphthalene	0.017	0.052		U
90-12-0	1-Methylnaphthalene	0.010	0.052		U
91-20-3	Naphthalene	0.020	0.052		U
85-01-8	Phenanthrene	0.014	0.052		U
129-00-0	Pyrene	0.011	0.052		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203R

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 17:27

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	390	J-Z
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	690	J-Z
56-55-3	Benzo(a)anthracene	20	170	3300	J-Z
205-99-2	Benzo(b)fluoranthene	20	170	4700	E R-D
207-08-9	Benzo(k)fluoranthene	20	170	1600	J-Z
191-24-2	Benzo(g,h,i)perylene	20	170	1700	J-Z
50-32-8	Benzo(a)pyrene	20	100	3600	E R-D
218-01-9	Chrysene	20	170	4100	E R-D
53-70-3	Dibenz(a,h)anthracene	20	100	520	J-Z
206-44-0	Fluoranthene	20	170	5400	E R-D
86-73-7	Fluorene	20	170	400	J-Z
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	J-Z
91-57-6	2-Methylnaphthalene	20	170	74	J
90-12-0	1-Methylnaphthalene	51	170		U
91-20-3	Naphthalene	20	170	32	J
85-01-8	Phenanthrene	20	170	3600	E R-D
129-00-0	Pyrene	20	170	4800	E R-D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:40

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	850	400	JD
208-96-8	Acenaphthylene	100	850		UD
120-12-7	Anthracene	100	850	700	JD
56-55-3	Benzo(a)anthracene	100	850	3400	D
205-99-2	Benzo(b)fluoranthene	100	850	4100	D
207-08-9	Benzo(k)fluoranthene	100	850	2000	D
191-24-2	Benzo(g,h,i)perylene	100	850	2200	D
50-32-8	Benzo(a)pyrene	100	510	3700	D
218-01-9	Chrysene	100	850	4300	D
53-70-3	Dibenz(a,h)anthracene	100	510	620	D
206-44-0	Fluoranthene	100	850	6000	D
86-73-7	Fluorene	100	850	410	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	850	2300	D
91-57-6	2-Methylnaphthalene	100	850		UD
90-12-0	1-Methylnaphthalene	260	850		UD
91-20-3	Naphthalene	100	850		UD
85-01-8	Phenanthrene	100	850	4000	D
129-00-0	Pyrene	100	850	5100	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 15:42

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	68	J
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	150	J
56-55-3	Benzo(a)anthracene	21	170	890	
205-99-2	Benzo(b)fluoranthene	21	170	1800	R-D
207-08-9	Benzo(k)fluoranthene	21	170	870	R-D
191-24-2	Benzo(g,h,i)perylene	21	170	610	R-D
50-32-8	Benzo(a)pyrene	21	100	1500	R-D
218-01-9	Chrysene	21	170	1300	
53-70-3	Dibenz(a,h)anthracene	21	100	160	R-D
206-44-0	Fluoranthene	21	170	1600	
86-73-7	Fluorene	21	170	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	740	
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	1000	
129-00-0	Pyrene	21	170	2000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204D

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:16

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	860		~~UD~~ R-D
208-96-8	Acenaphthylene	100	860		~~UD~~
120-12-7	Anthracene	100	860	~~130~~	~~JD~~
56-55-3	Benzo(a)anthracene	100	860	~~770~~	~~JD~~
205-99-2	Benzo(b)fluoranthene	100	860	1200	~~D~~ =
207-08-9	Benzo(k)fluoranthene	100	860	740	~~JD~~ J
191-24-2	Benzo(g,h,i)perylene	100	860	760	~~JD~~ J
50-32-8	Benzo(a)pyrene	100	520	1200	~~D~~ =
218-01-9	Chrysene	100	860	1000	~~D~~ R-D
53-70-3	Dibenz(a,h)anthracene	100	520	200	~~JD~~ J
206-44-0	Fluoranthene	100	860	1400	D R-D
86-73-7	Fluorene	100	860		~~UD~~
193-39-5	Indeno(1,2,3-cd)pyrene	100	860	780	JD
91-57-6	2-Methylnaphthalene	100	860		~~UD~~
90-12-0	1-Methylnaphthalene	260	860		~~UD~~
91-20-3	Naphthalene	100	860		~~UD~~
85-01-8	Phenanthrene	100	860	830	JD
129-00-0	Pyrene	100	860	1400	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:17

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	1800	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	2300	
56-55-3	Benzo(a)anthracene	21	170	7600	E R-D
205-99-2	Benzo(b)fluoranthene	21	170	8800	E
207-08-9	Benzo(k)fluoranthene	21	170	5300	E
191-24-2	Benzo(g,h,i)perylene	21	170	2400	R-D
50-32-8	Benzo(a)pyrene	21	100	7300	E R-D
218-01-9	Chrysene	21	170	9400	E
53-70-3	Dibenz(a,h)anthracene	21	100	820	R-D
206-44-0	Fluoranthene	21	170	13000	E R-D
86-73-7	Fluorene	21	170	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	2800	R-D
91-57-6	2-Methylnaphthalene	21	170	540	
90-12-0	1-Methylnaphthalene	52	170	350	
91-20-3	Naphthalene	21	170	240	
85-01-8	Phenanthrene	21	170	12000	E R-D
129-00-0	Pyrene	21	170	18000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205D

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 14:29

Injection Volume: 0.5(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	420	3500	1500	JD R-D
208-96-8	Acenaphthylene	420	3500		UD
120-12-7	Anthracene	420	3500	1900	JD
56-55-3	Benzo(a)anthracene	420	3500	5900	D =
205-99-2	Benzo(b)fluoranthene	420	3500	6100	D =
207-08-9	Benzo(k)fluoranthene	420	3500	3900	D =
191-24-2	Benzo(g,h,i)perylene	420	3500	3000	JD J
50-32-8	Benzo(a)pyrene	420	2100	5700	D =
218-01-9	Chrysene	420	3500	7400	D =
53-70-3	Dibenz(a,h)anthracene	420	2100	860	JD J
206-44-0	Fluoranthene	420	3500	14000	D =
86-73-7	Fluorene	420	3500	1600	JD R-D
193-39-5	Indeno(1,2,3-cd)pyrene	420	3500	3200	JD J
91-57-6	2-Methylnaphthalene	420	3500	430	JD R-D
90-12-0	1-Methylnaphthalene	1000	3500		UD
91-20-3	Naphthalene	420	3500		UD
85-01-8	Phenanthrene	420	3500	12000	D =
129-00-0	Pyrene	420	3500	10000	D =

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:52

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	6000	E R-D
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	8500	E R-D
56-55-3	Benzo(a)anthracene	21	170	25000	E
205-99-2	Benzo(b)fluoranthene	21	170	32000	E
207-08-9	Benzo(k)fluoranthene	21	170	12000	E
191-24-2	Benzo(g,h,i)perylene	21	170	7400	E
50-32-8	Benzo(a)pyrene	21	100	22000	E
218-01-9	Chrysene	21	170	28000	E
53-70-3	Dibenz(a,h)anthracene	21	100	2500	R-D
206-44-0	Fluoranthene	21	170	31000	E R-D
86-73-7	Fluorene	21	170	6300	E
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	8000	E
91-57-6	2-Methylnaphthalene	21	170	2000	
90-12-0	1-Methylnaphthalene	52	170	1300	
91-20-3	Naphthalene	21	170	1000	
85-01-8	Phenanthrene	21	170	42000	E R-D
129-00-0	Pyrene	21	170	66000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:17

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000	9600	JD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	11000	JD
56-55-3	Benzo(a)anthracene	4200	35000	34000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	28000	JD
207-08-9	Benzo(k)fluoranthene	4200	35000	21000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	16000	JD
50-32-8	Benzo(a)pyrene	4200	21000	30000	D
218-01-9	Chrysene	4200	35000	40000	D
53-70-3	Dibenz(a,h)anthracene	4200	21000		UD
206-44-0	Fluoranthene	4200	35000	76000	D
86-73-7	Fluorene	4200	35000	10000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	18000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	74000	D
129-00-0	Pyrene	4200	35000	61000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	4700	E R-D
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	4800	E R-D
56-55-3	Benzo(a)anthracene	20	170	22000	E
205-99-2	Benzo(b)fluoranthene	20	170	31000	E
207-08-9	Benzo(k)fluoranthene	20	170	11000	E
191-24-2	Benzo(g,h,i)perylene	20	170	6200	E
50-32-8	Benzo(a)pyrene	20	100	20000	E
218-01-9	Chrysene	20	170	25000	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	24000	E
86-73-7	Fluorene	20	170	3800	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	7100	E
91-57-6	2-Methylnaphthalene	20	170	960	
90-12-0	1-Methylnaphthalene	51	170	590	
91-20-3	Naphthalene	20	170	400	
85-01-8	Phenanthrene	20	170	24000	E R-D
129-00-0	Pyrene	20	170	63000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	2000	17000	6900	JD
208-96-8	Acenaphthylene	2000	17000		UD
120-12-7	Anthracene	2000	17000	7300	JD
56-55-3	Benzo(a)anthracene	2000	17000	27000	D
205-99-2	Benzo(b)fluoranthene	2000	17000	31000	D
207-08-9	Benzo(k)fluoranthene	2000	17000	14000	JD
191-24-2	Benzo(g,h,i)perylene	2000	17000	14000	JD
50-32-8	Benzo(a)pyrene	2000	10000	24000	D
218-01-9	Chrysene	2000	17000	34000	D
53-70-3	Dibenz(a,h)anthracene	2000	10000	4400	JD
206-44-0	Fluoranthene	2000	17000	71000	D
86-73-7	Fluorene	2000	17000	6200	JD
193-39-5	Indeno(1,2,3-cd)pyrene	2000	17000	15000	JD
91-57-6	2-Methylnaphthalene	2000	17000		UD
90-12-0	1-Methylnaphthalene	5100	17000		UD
91-20-3	Naphthalene	2000	17000		UD
85-01-8	Phenanthrene	2000	17000	42000	D
129-00-0	Pyrene	2000	17000	54000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170		U
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170		U
56-55-3	Benzo(a)anthracene	21	170		U
205-99-2	Benzo(b)fluoranthene	21	170		U R-D
207-08-9	Benzo(k)fluoranthene	21	170		U
191-24-2	Benzo(g,h,i)perylene	21	170		U
50-32-8	Benzo(a)pyrene	21	100		U
218-01-9	Chrysene	21	170		U
53-70-3	Dibenz(a,h)anthracene	21	100		U R-D
206-44-0	Fluoranthene	21	170		U
86-73-7	Fluorene	21	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	170		U
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170		U
129-00-0	Pyrene	21	170		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:06

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD R-D
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350		UD
56-55-3	Benzo(a)anthracene	42	350		UD
205-99-2	Benzo(b)fluoranthene	42	350		UD U
207-08-9	Benzo(k)fluoranthene	42	350		UD U
191-24-2	Benzo(g,h,i)perylene	42	350		UD U
50-32-8	Benzo(a)pyrene	42	210		UD U
218-01-9	Chrysene	42	350		UD R-D
53-70-3	Dibenz(a,h)anthracene	42	210		UD U
206-44-0	Fluoranthene	42	350		UD R-D
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350		UD
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	100	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350		UD
129-00-0	Pyrene	42	350		UD

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:38

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	1100	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	1400	
56-55-3	Benzo(a)anthracene	20	170	4800	E R-D
205-99-2	Benzo(b)fluoranthene	20	170	6000	E
207-08-9	Benzo(k)fluoranthene	20	170	3400	E
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	4700	E
218-01-9	Chrysene	20	170	6100	E
53-70-3	Dibenz(a,h)anthracene	20	100	590	R-D
206-44-0	Fluoranthene	20	170	7100	E R-D
86-73-7	Fluorene	20	170	950	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	R-D
91-57-6	2-Methylnaphthalene	20	170	300	
90-12-0	1-Methylnaphthalene	50	170	180	
91-20-3	Naphthalene	20	170	120	J
85-01-8	Phenanthrene	20	170	7400	E R-D
129-00-0	Pyrene	20	170	13000	E

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:04

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	200	1700	1000	JD R-D
208-96-8	Acenaphthylene	200	1700		UD
120-12-7	Anthracene	200	1700	1300	JD
56-55-3	Benzo(a)anthracene	200	1700	4400	D
205-99-2	Benzo(b)fluoranthene	200	1700	5000	D
207-08-9	Benzo(k)fluoranthene	200	1700	2200	D
191-24-2	Benzo(g,h,i)perylene	200	1700	2200	D
50-32-8	Benzo(a)pyrene	200	1000	4300	D
218-01-9	Chrysene	200	1700	5400	D
53-70-3	Dibenz(a,h)anthracene	200	1000	700	JD J
206-44-0	Fluoranthene	200	1700	9700	D
86-73-7	Fluorene	200	1700	960	JD R-D
193-39-5	Indeno(1,2,3-cd)pyrene	200	1700	2400	D
91-57-6	2-Methylnaphthalene	200	1700	270	JD R-D
90-12-0	1-Methylnaphthalene	500	1700		UD
91-20-3	Naphthalene	200	1700		UD
85-01-8	Phenanthrene	200	1700	7500	D
129-00-0	Pyrene	200	1700	7400	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:14

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	24	J
56-55-3	Benzo(a)anthracene	21	180	240	R-D
205-99-2	Benzo(b)fluoranthene	21	180	390	
207-08-9	Benzo(k)fluoranthene	21	180	240	
191-24-2	Benzo(g,h,i)perylene	21	180		U
50-32-8	Benzo(a)pyrene	21	110	280	
218-01-9	Chrysene	21	180	320	
53-70-3	Dibenz(a,h)anthracene	21	110		U
206-44-0	Fluoranthene	21	180	380	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	170	J R-D
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	120	J
129-00-0	Pyrene	21	180	1000	R-D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210D

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:42

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	43	360		UD
208-96-8	Acenaphthylene	43	360		UD
120-12-7	Anthracene	43	360		UD
56-55-3	Benzo(a)anthracene	43	360	230	JD
205-99-2	Benzo(b)fluoranthene	43	360	330	JD
207-08-9	Benzo(k)fluoranthene	43	360	190	JD
191-24-2	Benzo(g,h,i)perylene	43	360	180	JD
50-32-8	Benzo(a)pyrene	43	210	310	D
218-01-9	Chrysene	43	360	340	JD
53-70-3	Dibenz(a,h)anthracene	43	210		UD
206-44-0	Fluoranthene	43	360	490	D
86-73-7	Fluorene	43	360		UD
193-39-5	Indeno(1,2,3-cd)pyrene	43	360	170	JD
91-57-6	2-Methylnaphthalene	43	360		UD
90-12-0	1-Methylnaphthalene	110	360		UD
91-20-3	Naphthalene	43	360		UD
85-01-8	Phenanthrene	43	360	110	JD
129-00-0	Pyrene	43	360	590	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:49

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	120	J-Z
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	200	J-Z
56-55-3	Benzo(a)anthracene	20	170	1000	J-Z
205-99-2	Benzo(b)fluoranthene	20	170	1500	R-D
207-08-9	Benzo(k)fluoranthene	20	170	880	
191-24-2	Benzo(g,h,i)perylene	20	170	480	
50-32-8	Benzo(a)pyrene	20	100	1200	
218-01-9	Chrysene	20	170	1400	J-Z
53-70-3	Dibenz(a,h)anthracene	20	100		UR-D
206-44-0	Fluoranthene	20	170	1300	J-Z
86-73-7	Fluorene	20	170	130	J-Z
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	550	J-Z
91-57-6	2-Methylnaphthalene	20	170	20	J
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170	1100	J-Z
129-00-0	Pyrene	20	170	2500	J-Z

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211D

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:51

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	830	170	JD R-D
208-96-8	Acenaphthylene	100	830		UD
120-12-7	Anthracene	100	830	280	JD
56-55-3	Benzo(a)anthracene	100	830	1400	D
205-99-2	Benzo(b)fluoranthene	100	830	2000	D J-Z
207-08-9	Benzo(k)fluoranthene	100	830	820	JD J-Z
191-24-2	Benzo(g,h,i)perylene	100	830	960	D J-Z
50-32-8	Benzo(a)pyrene	100	500	1700	D J-Z
218-01-9	Chrysene	100	830	1800	D R-Q
53-70-3	Dibenz(a,h)anthracene	100	500	300	JD J-Z
206-44-0	Fluoranthene	100	830	2400	D R-D
86-73-7	Fluorene	100	830	160	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	830	1000	D
91-57-6	2-Methylnaphthalene	100	830		UD
90-12-0	1-Methylnaphthalene	250	830		UD
91-20-3	Naphthalene	100	830		UD
85-01-8	Phenanthrene	100	830	1600	D
129-00-0	Pyrene	100	830	2000	D

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM1BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-01

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703101A

Level: (low/med) LOW Date Sampled: 07/11/06 12:20

% Moisture: not dec. 8 Date Analyzed: 07/12/06 15:35

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM2BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 0703102A

Level: (low/med) LOW Date Sampled: 07/11/06 12:30

% Moisture: not dec. 10 Date Analyzed: 07/12/06 16:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.66	7.0		U
100-41-4	Ethylbenzene	1.0	7.0		U
108-88-3	Toluene	1.2	7.0		U
1330-20-7	Xylene(total)	0.98	7.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM3BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-03

Sample wt/vol: 5.5 (g/mL) G Lab File ID: M0703103

Level: (low/med) MED Date Sampled: 07/11/06 12:35

% Moisture: not dec. 5 Date Analyzed: 07/12/06 18:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	22	240		U
100-41-4	Ethylbenzene	36	240	530	
108-88-3	Toluene	41	240		U
1330-20-7	Xylene(total)	33	240	4600	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM4BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-04

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0703104A

Level: (low/med) LOW Date Sampled: 07/11/06 12:42

% Moisture: not dec. 6 Date Analyzed: 07/13/06 10:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.44	4.6		U
100-41-4	Ethylbenzene	0.70	4.6		U
108-88-3	Toluene	0.80	4.6		U
1330-20-7	Xylene(total)	0.65	4.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM5BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0703105A

Level: (low/med) LOW Date Sampled: 07/11/06 12:50

% Moisture: not dec. 10 Date Analyzed: 07/13/06 11:07

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.76	5.0		U
108-88-3	Toluene	0.87	5.0		U
1330-20-7	Xylene(total)	0.71	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM6BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-06

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0703106A

Level: (low/med) LOW Date Sampled: 07/11/06 12:56

% Moisture: not dec. 9 Date Analyzed: 07/12/06 16:45

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.52	5.6		U
100-41-4	Ethylbenzene	0.83	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM7BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: M0703107

Level: (low/med) MED Date Sampled: 07/11/06 13:05

% Moisture: not dec. 7 Date Analyzed: 07/13/06 09:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	270		U
100-41-4	Ethylbenzene	41	270	150	J
108-88-3	Toluene	47	270		U
1330-20-7	Xylene(total)	38	270	1500	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM8BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-08

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0703108A

Level: (low/med) LOW Date Sampled: 07/11/06 13:12

% Moisture: not dec. 5 Date Analyzed: 07/12/06 17:21

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.48	5.2		U
100-41-4	Ethylbenzene	0.77	5.2		U
108-88-3	Toluene	0.89	5.2		U
1330-20-7	Xylene (total)	0.72	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP2S060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-09

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703109A

Level: (low/med) LOW Date Sampled: 07/11/06 :

% Moisture: not dec. 8 Date Analyzed: 07/12/06 17:56

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51BLK1W060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M0703110

Level: (low/med) MED Date Sampled: 07/11/06 :

% Moisture: not dec. 0 Date Analyzed: 07/12/06 14:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

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Empirical Laboratories

Hill Constructors, Inc.
er Center Place, Suite 700
nta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

Empirical Laboratories

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

7022-

	ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2- methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
01	1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J-HCl pH<2 3J+-unpres			Grab		
02	2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3	↓			Grab		
03	3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J \ 0,1 A - unpres			Grab		
04	4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05	5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06	6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07	7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08	8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09	9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1	↓			Grab		
	-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

	COURIER AND SHIPPING NUMBER:		SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:		
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202		3.0		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc. [signature]	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE / [signature]	7-8-06	1300

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J, 10, 11 – UNPRES	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
1023-01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M, 11 K-UNPRES	Composite		
7022-12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCl pH<2			
7023-02	TB-2-060706	✓	W	✓				2			✓			

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	0800

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Form CCI001, Rev 02/00

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (1 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51CFM1BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:20	C	3 Day	4					Grab		
2	51CFM2BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:30	C	3 Day	4					Grab		
3	51CFM3BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:35	C	3 Day	4					Grab		
4	51CFM4BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:42	C	3 Day	4					Grab		
5	51CFM5BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:50	C	3 Day	4					Grab		
6	51CFM6BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:56	C	3 Day	4					Grab		
7	51CFM7BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:05	C	3 Day	4					Grab		
8	51CFM8BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:12	C	3 Day	4					Grab		
9	51MS2S060711	Matrix Spike Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		
10	51MSD2S060711	Matrix Spike Duplicate Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		–

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7921 4868 1225	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature: Andy Barton	7-12-06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
11	51DUP2S060711	Duplicate Sample	S	07/11/06	--	C	3 Day	4				Grab		
12	51BLK1W060711 *	Trip Blank	W	--	--			3					Prepared by lab	
13	51BLK2W060711 *	Temp Blank	W	--	--			1					Prepared by lab	

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers:7921 4868 1225

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks CH2M HILL Constructors, Inc.					
Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			Andy Bast. Andy Bast	7-12-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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* Reagent water vials received broken. MW 7/12/06

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CH2M HILL WO #0607022
SUMMARY PACKAGE

VOLATILE SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

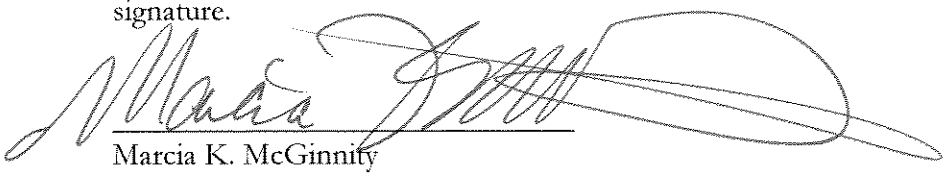
Lab ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-12	TB-1-060706	1

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5030B/8260B (purge and trap followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Soil samples received for volatile analyses were not properly preserved upon receipt at the laboratory Saturday 7/8/06 (refrigerated instead of frozen). Samples were analyzed immediately upon discovery of the error 7/10/06 but results were reported for PM information only and are not included in this data package. Resamples were received 7/12/06 and are reported as a separate package for work order 0607031.
- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met for the target analytes.
- Blank Results: No target analytes were detected.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed without dilution.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

7022-

	ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
01	1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J-HCl pH<2	31+ unpres		Grab		
02	2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3		↓		Grab		
03	3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J.\0,1	unpres		Grab		
04	4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05	5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06	6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07	7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08	8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09	9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1		↓		Grab		
	-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

Jeff Marks
CH2M HILL Constructors, Inc.

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc. [signature]	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE [signature]	7-8-06	1300

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CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include) BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	10 51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J,10,11 – UNFILT	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7025 01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,11 K-UNFILT	Composite		
7022 12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCl pH<2			
7023 02	TB-2-060706	↓	W	↓				2			↓			

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	830

Jeff Marks
CH2M HILL Constructors, Inc.

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 **COC ID(s):** 346570-001

Client CH2M Hill **Project** NAVSTA Mayport

Sample Custodian Andy Boto **Today's Date** 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	**(Yes)**	**No**
Chain of custody provided?	**(Yes)**	**No**
Sample labels present?	**(Yes)**	**No**
Bottle labels correspond w/COC	**(Yes)**	**No**

Number of Custody Seals on Cooler(s): 2 **Seal Date(s):** 7-7

Type of coolant used ICE

Coolant condition: Melted _____ **Partially melted/frozen** C
Frozen _____

# of Coolers 1 **Temp. of Coolers** 3.0

Condition of Bottles in Shipment: **Broken** **Leaking** **(Intact)** **Missing**

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702201

Level: (low/med) LOW Date Sampled: 07/06/06 15:10

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702202

Level: (low/med) LOW Date Sampled: 07/06/06 17:00

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-12

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702212

Level: (low/med) LOW Date Sampled: 07/06/06 :

% Moisture: not dec. _____ Date Analyzed: 07/10/06 20:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene (total)	0.33	1.0		U

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V5BLK0710LCS	97	91	96	100	0
02	V5BLK0710	113	116	102	87	0
03	TB-1-060706	114	119	102	88	0
04	51EQB1W06070	116	118	104	87	0
05	51EQB2W06070	118	116	108	91	0
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07						
08						
09						
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29						
30						

		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1	(DFM) = Dibromofluoromethane	(85-120)	30
SMC2	(DCE) = 1,2-Dichloroethane-d4	(80-135)	30
SMC3	(TOL) = Toluene-d8	(85-115)	30
SMC4	(BFB) = Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V5BLK0710LCS	97	91	96	100	0
02	V5BLK0710	113	116	102	87	0
03	0607022-12	114	119	102	88	0
04	0607022-01	116	118	104	87	0
05	0607022-02	118	116	108	91	0
06						
07						
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30						

		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix Spike - Client Sample No.: V5BLK0710

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	55.14	110	75-125
Ethylbenzene	50.00	0.0000	47.52	95	75-130
Toluene	50.00	0.0000	53.55	107	75-125
Xylene(total)	150.0	0.0000	156.2	104	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID: V5BLK01 Lab Sample ID: V5BLK0710

Date Analyzed: 07/10/06 Time Analyzed: 1936

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	1644
02	TB-1-060706	0607022-12	0702212	2033
03	51EQB1W06070	0607022-01	0702201	2102
04	51EQB2W06070	0607022-02	0702202	2131
05				
06				
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29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: V5BLK0710

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/10/06 19:36

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene (total)	0.33	1.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID: V5BFB01 BFB Injection Date: 07/10/06

Instrument ID: VOA5 BFB Injection Time: 1427

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.4
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	4.4 (7.0)1
176	95.0 - 101.0% of mass 174	61.4 (97.6)1
177	5.0 - 9.0% of mass 176	4.4 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V5STD200PPB	V5STD200PPB	V5STD08	07/10/06	1517
02	V5STD100PPB	V5STD100PPB	V5STD07	07/10/06	1546
03	V5STD50PPB	V5STD50PPB	V5STD06	07/10/06	1615
04	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	07/10/06	1644
05	V5STD20PPB	V5STD20PPB	V5STD05	07/10/06	1713
06	V5STD10PPB	V5STD10PPB	V5STD04	07/10/06	1741
07	V5STD2.0PPB	V5STD2.0PPB	V5STD03	07/10/06	1810
08	V5STD1.0PPB	V5STD1.0PPB	V5STD02	07/10/06	1839
09	V5STD0.5PPB	V5STD0.5PPB	V5STD01	07/10/06	1908
10	V5BLK0710	V5BLK0710	V5BLK01	07/10/06	1936
11	TB-1-060706	0607022-12	0702212	07/10/06	2033
12	51EQB1W06070	0607022-01	0702201	07/10/06	2102
13	51EQB2W06070	0607022-02	0702202	07/10/06	2131
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID (Standard): V5STD06 Date Analyzed: 07/10/06

Instrument ID: VOA5 Time Analyzed: 1615

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	552383		13.10		326019		16.44		271188		18.26	
	UPPER LIMIT	1104766		13.60		652038		16.94		542376		18.76	
	LOWER LIMIT	276192		12.60		163010		15.94		135594		17.76	
	CLIENT SAMPLE NO.												
01	V5BLK0710LCS	552759		13.09		325052		16.44		262739		18.25	
02	V5BLK0710	424178		13.11		241125		16.45		184555		18.27	
03	TB-1-060706	412170		13.11		238007		16.45		186825		18.26	
04	51EQB1W06070	413240		13.11		242181		16.45		191798		18.26	
05	51EQB2W06070	406264		13.11		230278		16.45		178987		18.27	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID (Standard): V5STD06 Date Analyzed: 07/10/06

Instrument ID: VOA5 Time Analyzed: 1615

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	552383		13.10		326019		16.44		271188		18.26	
	UPPER LIMIT	1104766		13.60		652038		16.94		542376		18.76	
	LOWER LIMIT	276192		12.60		163010		15.94		135594		17.76	
	CLIENT SAMPLE NO.												
01	V5BLK0710LCS	552759		13.09		325052		16.44		262739		18.25	
02	V5BLK0710	424178		13.11		241125		16.45		184555		18.27	
03	0607022-12	412170		13.11		238007		16.45		186825		18.26	
04	0607022-01	413240		13.11		242181		16.45		191798		18.26	
05	0607022-02	406264		13.11		230278		16.45		178987		18.27	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

PRO SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab Sample ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-03	51CFM01S060706	1
0607022-04	51CFM02S060706	1
0607022-05	51CFM03S060706	5
0607022-06	51CFM04S060706	10
0607022-07	51CFM05S060706	20
0607022-08	51CFM06S060706	1
0607022-09	51CFM07S060706	10
0607022-10	51CFM08S060706	1
0607022-11	51DUP1S060706	1

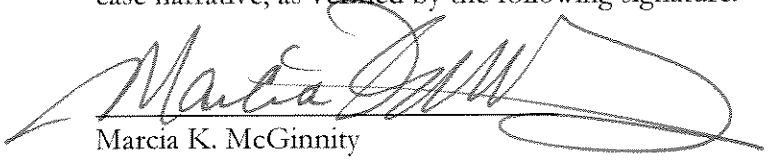
Florida Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, sonication extraction followed by capillary column GC/FID) for soils upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Samples exceeding a concentration of 460mg/kg were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22 and >C22-C36. The associated QC samples FS1BLK0710/LCS were also speciated in this manner.
- Calibration Criteria: All method calibration criteria were met with the exception that the surrogate nonatriacontane (C39) exceeded the limit of 20% RSD at 24.1%.
- Blank Results: Method blanks FS1BLK0710 and FW1BLK0710 have reported concentrations of the target analytes. Reported concentrations in the associated samples within 5x the method blank concentration are flagged with a "B". None of the speciated range concentrations reported were within 5x the method blank concentration.
- Surrogate Recoveries: All surrogate recoveries from undiluted analyses were within limits.
- FS1BLK0710LCS/LCSD results: All recoveries and relative percent differences were within limits.
- FW1BLK0710LCS results: Recovery exceeded the limit of 118% at 129%. Reported concentrations in the associated samples are less than the quantitation limit and flagged "J" as estimated.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 012R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 21:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.082	JB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 013R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 22:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range _____	0.060	0.17	0.060	JB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 021R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 02:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	170	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 016R0201

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	200	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	580	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.83	2.1	18	D
	>C10-C12	0.83	2.1	4.1	D
	>C12-C16	1.7	4.2	20	D
	>C16-C22	2.5	6.2	170	D
	>C22-C36	5.8	14	480	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	25	70	2200	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	200	D
	>C10-C12	1.6	4.1	18	D
	>C12-C16	3.3	8.3	65	D
	>C16-C22	5.0	12	570	D
	>C22-C36	12	29	1500	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	49	140	2600	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	3.3	8.2	39	D
	>C10-C12	3.3	8.2	9.3	D
	>C12-C16	6.6	16	61	D
	>C16-C22	9.8	24	790	D
	>C22-C36	23	57	2400	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 017R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:39

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	5.8	JB

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	24	69	1900	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	150	D
	>C10-C12	1.6	4.1	16	D
	>C12-C16	3.2	8.1	84	D
	>C16-C22	4.9	12	530	D
	>C22-C36	11	28	1200	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0201

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	24	B

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 019R0201

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:44

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.9	79	

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0710	98	126					0
02	FS1BLK0710LC	98	76					0
03	51CFM02S0607	94	90					0
04	51CFM06S0607	99	65					0
05	51CFM08S0607	86	90					0
06	51DUP1S06070	80	93					0
07	51CFM01S0607	85	109					0
08	51CFM01S0607	64	79					0
09	51CFM01S0607	102	143					0
10	51CFM03S0607	73D	125D					0
11	51CFM04S0607	61D	150D					0
12	51CFM05S0607	89D	159D					0
13	51CFM07S0607	58D	136D					0
14								
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26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0710	114	136					0
02	FW1BLK0710LC	114	88					0
03	51EQB1W06070	113	102					0
04	51EQB2W06070	105	85					0
05								
06								
07								
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30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= Ortho-Terphenyl	(30-140)	0.050
S2	= Nonatriacontane	(20-150)	0.30

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0710	98	126					0
02	FS1BLK0710LC	98	76					0
03	51CFM03S0607	73D	125D					0
04	51CFM04S0607	61D	150D					0
05	51CFM05S0607	89D	159D					0
06	51CFM07S0607	58D	136D					0
07								
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30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FS1BLK0710

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	128.0	7.238	141.4	105	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FS1BLK0710

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
>C8-C10	6.400	0.7123	4.766	63	50-140
>C10-C12	6.400	0.1890	6.190	94	50-140
>C12-C16	12.80	0.4823	14.07	106	50-140
>C16-C22	38.40	0.9726	48.70	124	50-140
>C22-C36	44.80	5.511	49.14	97	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FW1BLK0710

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.06896	4.195	129*	55-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Petroleum Range	129.6	168.3	259.3	70	50-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	130.6	385.1	166*	39	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 1 out of 2 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FS1BLK0710 Lab File ID: 014R0201

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2301 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0710LC	FS1BLK0710LCS	07/13/06	
02	51CFM02S0607	0607022-04	07/14/06	
03	51CFM06S0607	0607022-08	07/14/06	
04	51CFM08S0607	0607022-10	07/14/06	
05	51DUP1S06070	0607022-11	07/14/06	
06	51CFM01S0607	0607022-03	07/14/06	
07	51CFM01S0607	0607022-03MS	07/14/06	
08	51CFM01S0607	0607022-03MSD	07/14/06	
09	51CFM03S0607	0607022-05	07/14/06	
10	51CFM04S0607	0607022-06	07/14/06	
11	51CFM05S0607	0607022-07	07/14/06	
12	51CFM07S0607	0607022-09	07/14/06	
13				
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COMMENTS:

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	7.2	

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FW1BLK0710 Lab File ID: 010R0201

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2050 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0710LC	FW1BLK0710LCS	07/13/06	
02	51EQB1W06070	0607022-01	07/13/06	
03	51EQB2W06070	0607022-02	07/13/06	
04				
05				
06				
07				
08				
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COMMENTS:

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0710

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 010R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 20:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.069	J

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FS1BLK0710 Lab File ID: 014R0201

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 07/10/06

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2301 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0710LC	FS1BLK0710LCS	07/13/06	
02	51CFM03S0607	0607022-05	07/14/06	
03	51CFM04S0607	0607022-06	07/14/06	
04	51CFM05S0607	0607022-07	07/14/06	
05	51CFM07S0607	0607022-09	07/14/06	
06				
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COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.16	0.40	0.71	
	>C10-C12	0.16	0.40	0.19	J
	>C12-C16	0.32	0.80	0.48	J
	>C16-C22	0.48	1.2	0.97	J
	>C22-C36	1.1	2.8	5.5	

PAH SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-03	51CFM01S060706DL	5
0607022-03	51CFM01S060706	1
0607022-04	51CFM02S060706	1
0607022-04	51CFM02S060706DL	5
0607022-05	51CFM03S060706	1
0607022-05	51CFM03S060706DL	20
0607022-06	51CFM04S060706	1
0607022-06	51CFM04S060706DL	200
0607022-07	51CFM05S060706	1
0607022-07	51CFM05S060706DL	100
0607022-08	51CFM06S060706	1
0607022-08	51CFM06S060706DL	2
0607022-09	51CFM07S060706	1
0607022-09	51CFM07S060706DL	10
0607022-10	51CFM08S060706	1
0607022-10	51CFM08S060706DL	2
0607022-11	51DUP1S060706	1
0607022-11	51DUP1S060706DL	5

Semi-Volatile PAHs

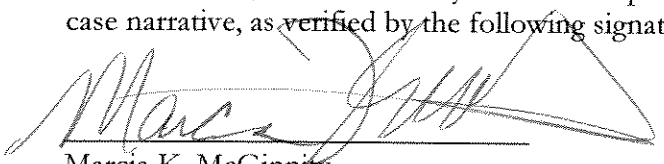
Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (automated soxtherm extraction followed by capillary column GC/MS) for soils and 3510C/8270C (separatory funnel extraction followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: The low concentration water PAH quantitation limits were obtained using 3510C extraction with a 0.5ml final volume and full scan 8270C analysis modified for increased sensitivity with calibration from 0.1ng/µL to 20ng/µL for a nominal water calibration range starting at 0.050µg/L. All instrument enhancements were applied to method QC as well as instrument QC.
- DFTPP Tuning: All method tuning criteria were met.
- Initial Calibration Criteria: All method criteria were met for the target analytes.
- Continuing Calibration Criteria: All method calibration criteria were met for the target analytes with the exception that benzo(k)fluoranthene and pyrene exceeded 20% difference on the high side at 21.7% and 30.2%, respectively, in the low concentration water calibration verification standard. These analytes were not detected in the associated samples.
- Blank Results: No target analytes were detected in the associated method blanks.
- Surrogate Recoveries: All surrogate recoveries were within limits for the water analyses and the diluted soil analyses. Recoveries of the surrogate d14-terphenyl exceeded the limit of 110% as high as 137% in some of the undiluted soil analyses – see form 2.

- Internal Standard Area Counts: Due to the sample matrix, d12-chrysene and/or d12-perylene area counts were below 50% of that found in the associated calibration standard as low as 14% for the undiluted analyses of the soil samples. All soil samples were reanalyzed at the dilutions indicated in the table above with area counts for the internal standards within 50% -200% of that found in the associated calibration verification standard.
- LCS Results: All recoveries were within limits. It should be noted that the spike solutions for the soil extractions did not include 1-methylnaphthalene.
- MS/MSD Results: In spike samples 51CFM01S060706MS/MSD, 12 of 34 recoveries and 7 of 17 relative percent differences were outside the control limits. See form 3 for specifics. This is attributed to sample matrix and analyte concentrations which required dilutions.
- Dilutions: The samples were analyzed at the dilutions indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

7022-

	ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
01	1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J-HCl pH<2 3L+ unpres			Grab		
02	2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3				Grab		
03	3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J. 10,1M- unpres			Grab		
04	4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05	5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06	6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07	7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08	8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09	9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1				Grab		
	-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

Jeff Marks
CH2M HILL Constructors, Inc.

COURIER AND SHIPPING NUMBER:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	1300

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

3.0

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-001 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045s; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		35,10,11 – UNFILT	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7023-01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,1K-UNFILT	Composite		
7022-12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCLPH<2			
7023-02	TB-2-060706	↓	W	↓				2			↓			

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	830

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

3.0

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 **COC ID(s):** 346570-001

Client CH2M Hill **Project** NAVSTA Mayport

Sample Custodian Andy Boto **Today's Date** 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	**(Yes)**	**No**
Chain of custody provided?	**(Yes)**	**No**
Sample labels present?	**(Yes)**	**No**
Bottle labels correspond w/COC	**(Yes)**	**No**

Number of Custody Seals on Cooler(s): 2 **Seal Date(s):** 7-7

Type of coolant used ICE

Coolant condition: Melted _____ **Partially melted/frozen** C
Frozen _____

# of Coolers 1 **Temp. of Coolers** 3.0

Condition of Bottles in Shipment: **Broken** **Leaking** **(Intact)** **Missing**

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 0702201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.051		U
208-96-8	Acenaphthylene	0.0087	0.051		U
120-12-7	Anthracene	0.0097	0.051		U
56-55-3	Benzo(a)anthracene	0.011	0.051		U
205-99-2	Benzo(b)fluoranthene	0.016	0.051		U
207-08-9	Benzo(k)fluoranthene	0.013	0.051		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.051		U
50-32-8	Benzo(a)pyrene	0.0097	0.051		U
218-01-9	Chrysene	0.0092	0.051		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.051		U
206-44-0	Fluoranthene	0.012	0.051		U
86-73-7	Fluorene	0.013	0.051		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.051		U
91-57-6	2-Methylnaphthalene	0.016	0.051		U
90-12-0	1-Methylnaphthalene	0.010	0.051		U
91-20-3	Naphthalene	0.019	0.051		U
85-01-8	Phenanthrene	0.014	0.051		U
129-00-0	Pyrene	0.011	0.051		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 0702202

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:43

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.052		U
208-96-8	Acenaphthylene	0.0088	0.052		U
120-12-7	Anthracene	0.0099	0.052		U
56-55-3	Benzo(a)anthracene	0.011	0.052		U
205-99-2	Benzo(b)fluoranthene	0.017	0.052		U
207-08-9	Benzo(k)fluoranthene	0.014	0.052		U
191-24-2	Benzo(g,h,i)perylene	0.014	0.052		U
50-32-8	Benzo(a)pyrene	0.0099	0.052		U
218-01-9	Chrysene	0.0094	0.052		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.052		U
206-44-0	Fluoranthene	0.012	0.052		U
86-73-7	Fluorene	0.013	0.052		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.019	0.052		U
91-57-6	2-Methylnaphthalene	0.017	0.052		U
90-12-0	1-Methylnaphthalene	0.010	0.052		U
91-20-3	Naphthalene	0.020	0.052		U
85-01-8	Phenanthrene	0.014	0.052		U
129-00-0	Pyrene	0.011	0.052		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203R

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 17:27

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	390	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	690	
56-55-3	Benzo(a)anthracene	20	170	3300	
205-99-2	Benzo(b)fluoranthene	20	170	4700	E
207-08-9	Benzo(k)fluoranthene	20	170	1600	
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	3600	E
218-01-9	Chrysene	20	170	4100	E
53-70-3	Dibenz(a,h)anthracene	20	100	520	
206-44-0	Fluoranthene	20	170	5400	E
86-73-7	Fluorene	20	170	400	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	74	J
90-12-0	1-Methylnaphthalene	51	170		U
91-20-3	Naphthalene	20	170	32	J
85-01-8	Phenanthrene	20	170	3600	E
129-00-0	Pyrene	20	170	4800	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM01S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:40

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	850	400	JD
208-96-8	Acenaphthylene	100	850		UD
120-12-7	Anthracene	100	850	700	JD
56-55-3	Benzo(a)anthracene	100	850	3400	D
205-99-2	Benzo(b)fluoranthene	100	850	4100	D
207-08-9	Benzo(k)fluoranthene	100	850	2000	D
191-24-2	Benzo(g,h,i)perylene	100	850	2200	D
50-32-8	Benzo(a)pyrene	100	510	3700	D
218-01-9	Chrysene	100	850	4300	D
53-70-3	Dibenz(a,h)anthracene	100	510	620	D
206-44-0	Fluoranthene	100	850	6000	D
86-73-7	Fluorene	100	850	410	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	850	2300	D
91-57-6	2-Methylnaphthalene	100	850		UD
90-12-0	1-Methylnaphthalene	260	850		UD
91-20-3	Naphthalene	100	850		UD
85-01-8	Phenanthrene	100	850	4000	D
129-00-0	Pyrene	100	850	5100	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 15:42

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	68	J
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	150	J
56-55-3	Benzo(a)anthracene	21	170	890	
205-99-2	Benzo(b)fluoranthene	21	170	1800	
207-08-9	Benzo(k)fluoranthene	21	170	870	
191-24-2	Benzo(g,h,i)perylene	21	170	610	
50-32-8	Benzo(a)pyrene	21	100	1500	
218-01-9	Chrysene	21	170	1300	
53-70-3	Dibenz(a,h)anthracene	21	100	160	
206-44-0	Fluoranthene	21	170	1600	
86-73-7	Fluorene	21	170	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	740	
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	1000	
129-00-0	Pyrene	21	170	2000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204D

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:16

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	860		UD
208-96-8	Acenaphthylene	100	860		UD
120-12-7	Anthracene	100	860	130	JD
56-55-3	Benzo(a)anthracene	100	860	770	JD
205-99-2	Benzo(b)fluoranthene	100	860	1200	D
207-08-9	Benzo(k)fluoranthene	100	860	740	JD
191-24-2	Benzo(g,h,i)perylene	100	860	760	JD
50-32-8	Benzo(a)pyrene	100	520	1200	D
218-01-9	Chrysene	100	860	1000	D
53-70-3	Dibenz(a,h)anthracene	100	520	200	JD
206-44-0	Fluoranthene	100	860	1400	D
86-73-7	Fluorene	100	860		UD
193-39-5	Indeno(1,2,3-cd)pyrene	100	860	780	JD
91-57-6	2-Methylnaphthalene	100	860		UD
90-12-0	1-Methylnaphthalene	260	860		UD
91-20-3	Naphthalene	100	860		UD
85-01-8	Phenanthrene	100	860	830	JD
129-00-0	Pyrene	100	860	1400	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:17

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	1800	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	2300	
56-55-3	Benzo(a)anthracene	21	170	7600	E
205-99-2	Benzo(b)fluoranthene	21	170	8800	E
207-08-9	Benzo(k)fluoranthene	21	170	5300	E
191-24-2	Benzo(g,h,i)perylene	21	170	2400	
50-32-8	Benzo(a)pyrene	21	100	7300	E
218-01-9	Chrysene	21	170	9400	E
53-70-3	Dibenz(a,h)anthracene	21	100	820	
206-44-0	Fluoranthene	21	170	13000	E
86-73-7	Fluorene	21	170	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	2800	
91-57-6	2-Methylnaphthalene	21	170	540	
90-12-0	1-Methylnaphthalene	52	170	350	
91-20-3	Naphthalene	21	170	240	
85-01-8	Phenanthrene	21	170	12000	E
129-00-0	Pyrene	21	170	18000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205D

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 14:29

Injection Volume: 0.5(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	420	3500	1500	JD
208-96-8	Acenaphthylene	420	3500		UD
120-12-7	Anthracene	420	3500	1900	JD
56-55-3	Benzo(a)anthracene	420	3500	5900	D
205-99-2	Benzo(b)fluoranthene	420	3500	6100	D
207-08-9	Benzo(k)fluoranthene	420	3500	3900	D
191-24-2	Benzo(g,h,i)perylene	420	3500	3000	JD
50-32-8	Benzo(a)pyrene	420	2100	5700	D
218-01-9	Chrysene	420	3500	7400	D
53-70-3	Dibenz(a,h)anthracene	420	2100	860	JD
206-44-0	Fluoranthene	420	3500	14000	D
86-73-7	Fluorene	420	3500	1600	JD
193-39-5	Indeno(1,2,3-cd)pyrene	420	3500	3200	JD
91-57-6	2-Methylnaphthalene	420	3500	430	JD
90-12-0	1-Methylnaphthalene	1000	3500		UD
91-20-3	Naphthalene	420	3500		UD
85-01-8	Phenanthrene	420	3500	12000	D
129-00-0	Pyrene	420	3500	10000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:52

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	6000	E
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	8500	E
56-55-3	Benzo(a)anthracene	21	170	25000	E
205-99-2	Benzo(b)fluoranthene	21	170	32000	E
207-08-9	Benzo(k)fluoranthene	21	170	12000	E
191-24-2	Benzo(g,h,i)perylene	21	170	7400	E
50-32-8	Benzo(a)pyrene	21	100	22000	E
218-01-9	Chrysene	21	170	28000	E
53-70-3	Dibenz(a,h)anthracene	21	100	2500	
206-44-0	Fluoranthene	21	170	31000	E
86-73-7	Fluorene	21	170	6300	E
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	8000	E
91-57-6	2-Methylnaphthalene	21	170	2000	
90-12-0	1-Methylnaphthalene	52	170	1300	
91-20-3	Naphthalene	21	170	1000	
85-01-8	Phenanthrene	21	170	42000	E
129-00-0	Pyrene	21	170	66000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:17

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000	9600	JD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	11000	JD
56-55-3	Benzo(a)anthracene	4200	35000	34000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	28000	JD
207-08-9	Benzo(k)fluoranthene	4200	35000	21000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	16000	JD
50-32-8	Benzo(a)pyrene	4200	21000	30000	D
218-01-9	Chrysene	4200	35000	40000	D
53-70-3	Dibenz(a,h)anthracene	4200	21000		UD
206-44-0	Fluoranthene	4200	35000	76000	D
86-73-7	Fluorene	4200	35000	10000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	18000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	74000	D
129-00-0	Pyrene	4200	35000	61000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	4700	E
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	4800	E
56-55-3	Benzo(a)anthracene	20	170	22000	E
205-99-2	Benzo(b)fluoranthene	20	170	31000	E
207-08-9	Benzo(k)fluoranthene	20	170	11000	E
191-24-2	Benzo(g,h,i)perylene	20	170	6200	E
50-32-8	Benzo(a)pyrene	20	100	20000	E
218-01-9	Chrysene	20	170	25000	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	24000	E
86-73-7	Fluorene	20	170	3800	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	7100	E
91-57-6	2-Methylnaphthalene	20	170	960	
90-12-0	1-Methylnaphthalene	51	170	590	
91-20-3	Naphthalene	20	170	400	
85-01-8	Phenanthrene	20	170	24000	E
129-00-0	Pyrene	20	170	63000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM05S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	2000	17000	6900	JD
208-96-8	Acenaphthylene	2000	17000		UD
120-12-7	Anthracene	2000	17000	7300	JD
56-55-3	Benzo(a)anthracene	2000	17000	27000	D
205-99-2	Benzo(b)fluoranthene	2000	17000	31000	D
207-08-9	Benzo(k)fluoranthene	2000	17000	14000	JD
191-24-2	Benzo(g,h,i)perylene	2000	17000	14000	JD
50-32-8	Benzo(a)pyrene	2000	10000	24000	D
218-01-9	Chrysene	2000	17000	34000	D
53-70-3	Dibenz(a,h)anthracene	2000	10000	4400	JD
206-44-0	Fluoranthene	2000	17000	71000	D
86-73-7	Fluorene	2000	17000	6200	JD
193-39-5	Indeno(1,2,3-cd)pyrene	2000	17000	15000	JD
91-57-6	2-Methylnaphthalene	2000	17000		UD
90-12-0	1-Methylnaphthalene	5100	17000		UD
91-20-3	Naphthalene	2000	17000		UD
85-01-8	Phenanthrene	2000	17000	42000	D
129-00-0	Pyrene	2000	17000	54000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170		U
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170		U
56-55-3	Benzo(a)anthracene	21	170		U
205-99-2	Benzo(b)fluoranthene	21	170		U
207-08-9	Benzo(k)fluoranthene	21	170		U
191-24-2	Benzo(g,h,i)perylene	21	170		U
50-32-8	Benzo(a)pyrene	21	100		U
218-01-9	Chrysene	21	170		U
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	170		U
86-73-7	Fluorene	21	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	170		U
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170		U
129-00-0	Pyrene	21	170		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:06

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350		UD
56-55-3	Benzo(a)anthracene	42	350		UD
205-99-2	Benzo(b)fluoranthene	42	350		UD
207-08-9	Benzo(k)fluoranthene	42	350		UD
191-24-2	Benzo(g,h,i)perylene	42	350		UD
50-32-8	Benzo(a)pyrene	42	210		UD
218-01-9	Chrysene	42	350		UD
53-70-3	Dibenz(a,h)anthracene	42	210		UD
206-44-0	Fluoranthene	42	350		UD
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350		UD
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	100	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350		UD
129-00-0	Pyrene	42	350		UD

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:38

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	1100	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	1400	
56-55-3	Benzo(a)anthracene	20	170	4800	E
205-99-2	Benzo(b)fluoranthene	20	170	6000	E
207-08-9	Benzo(k)fluoranthene	20	170	3400	E
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	4700	E
218-01-9	Chrysene	20	170	6100	E
53-70-3	Dibenz(a,h)anthracene	20	100	590	
206-44-0	Fluoranthene	20	170	7100	E
86-73-7	Fluorene	20	170	950	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	300	
90-12-0	1-Methylnaphthalene	50	170	180	
91-20-3	Naphthalene	20	170	120	J
85-01-8	Phenanthrene	20	170	7400	E
129-00-0	Pyrene	20	170	13000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:04

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	200	1700	1000	JD
208-96-8	Acenaphthylene	200	1700		UD
120-12-7	Anthracene	200	1700	1300	JD
56-55-3	Benzo(a)anthracene	200	1700	4400	D
205-99-2	Benzo(b)fluoranthene	200	1700	5000	D
207-08-9	Benzo(k)fluoranthene	200	1700	2200	D
191-24-2	Benzo(g,h,i)perylene	200	1700	2200	D
50-32-8	Benzo(a)pyrene	200	1000	4300	D
218-01-9	Chrysene	200	1700	5400	D
53-70-3	Dibenz(a,h)anthracene	200	1000	700	JD
206-44-0	Fluoranthene	200	1700	9700	D
86-73-7	Fluorene	200	1700	960	JD
193-39-5	Indeno(1,2,3-cd)pyrene	200	1700	2400	D
91-57-6	2-Methylnaphthalene	200	1700	270	JD
90-12-0	1-Methylnaphthalene	500	1700		UD
91-20-3	Naphthalene	200	1700		UD
85-01-8	Phenanthrene	200	1700	7500	D
129-00-0	Pyrene	200	1700	7400	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:14

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	24	J
56-55-3	Benzo(a)anthracene	21	180	240	
205-99-2	Benzo(b)fluoranthene	21	180	390	
207-08-9	Benzo(k)fluoranthene	21	180	240	
191-24-2	Benzo(g,h,i)perylene	21	180		U
50-32-8	Benzo(a)pyrene	21	110	280	
218-01-9	Chrysene	21	180	320	
53-70-3	Dibenz(a,h)anthracene	21	110		U
206-44-0	Fluoranthene	21	180	380	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	170	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	120	J
129-00-0	Pyrene	21	180	1000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210D

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:42

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
83-32-9	Acenaphthene	43	360		UD
208-96-8	Acenaphthylene	43	360		UD
120-12-7	Anthracene	43	360		UD
56-55-3	Benzo(a)anthracene	43	360	230	JD
205-99-2	Benzo(b)fluoranthene	43	360	330	JD
207-08-9	Benzo(k)fluoranthene	43	360	190	JD
191-24-2	Benzo(g,h,i)perylene	43	360	180	JD
50-32-8	Benzo(a)pyrene	43	210	310	D
218-01-9	Chrysene	43	360	340	JD
53-70-3	Dibenz(a,h)anthracene	43	210		UD
206-44-0	Fluoranthene	43	360	490	D
86-73-7	Fluorene	43	360		UD
193-39-5	Indeno(1,2,3-cd)pyrene	43	360	170	JD
91-57-6	2-Methylnaphthalene	43	360		UD
90-12-0	1-Methylnaphthalene	110	360		UD
91-20-3	Naphthalene	43	360		UD
85-01-8	Phenanthrene	43	360	110	JD
129-00-0	Pyrene	43	360	590	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:49

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	120	J
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	200	
56-55-3	Benzo(a)anthracene	20	170	1000	
205-99-2	Benzo(b)fluoranthene	20	170	1500	
207-08-9	Benzo(k)fluoranthene	20	170	880	
191-24-2	Benzo(g,h,i)perylene	20	170	480	
50-32-8	Benzo(a)pyrene	20	100	1200	
218-01-9	Chrysene	20	170	1400	
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170	1300	
86-73-7	Fluorene	20	170	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	550	
91-57-6	2-Methylnaphthalene	20	170	20	J
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170	1100	
129-00-0	Pyrene	20	170	2500	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211D

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:51

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	830	170	JD
208-96-8	Acenaphthylene	100	830		UD
120-12-7	Anthracene	100	830	280	JD
56-55-3	Benzo(a)anthracene	100	830	1400	D
205-99-2	Benzo(b)fluoranthene	100	830	2000	D
207-08-9	Benzo(k)fluoranthene	100	830	820	JD
191-24-2	Benzo(g,h,i)perylene	100	830	960	D
50-32-8	Benzo(a)pyrene	100	500	1700	D
218-01-9	Chrysene	100	830	1800	D
53-70-3	Dibenz(a,h)anthracene	100	500	300	JD
206-44-0	Fluoranthene	100	830	2400	D
86-73-7	Fluorene	100	830	160	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	830	1000	D
91-57-6	2-Methylnaphthalene	100	830		UD
90-12-0	1-Methylnaphthalene	250	830		UD
91-20-3	Naphthalene	100	830		UD
85-01-8	Phenanthrene	100	830	1600	D
129-00-0	Pyrene	100	830	2000	D

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0710B1	81	76	122						0
02	SBLK0710B1LC	88	69	95						0
03	51EQB1W06070	93	70	123						0
04	51EQB2W06070	75	67	117						0
05										
06										
07										
08										
09										
10										
11										
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26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	1.0
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	1.0
S3 (TPH) = Terphenyl-d14	(55-125)	1.0

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	51CFM01S0607	54	59	107						0
02	51CFM01S0607	58	57	112*						1
03	51CFM02S0607	68	67	102						0
04	51CFM03S0607	59	55	95						0
05	51CFM04S0607	58	64	150*						1
06	51CFM05S0607	44	51	115*						1
07	51CFM06S0607	61	56	107						0
08	51CFM07S0607	60	58	103						0
09	51CFM08S0607	57	57	137*						1
10	51DUP1S06070	52	56	123*						1
11	SBLK0710BS1	58	54	74						0
12	SBLK0710BS1L	58	56	97						0
13	51CFM06S0607	65D	59D	66D						0
14	51CFM08S0607	65D	60D	77D						0
15	51CFM04S0607	0D	0D	0D						0
16	51CFM05S0607	0D	0D	0D						0
17	51CFM03S0607	52D	51D	48D						0
18	51CFM07S0607	57D	54D	49D						0
19	51CFM01S0607	67D	66D	70D						0
20	51CFM02S0607	58D	62D	64D						0
21	51DUP1S06070	74D	79D	94D						0
22	51CFM01S0607	55	59	72						0
23										
24										
25										
26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	3400
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	3400
S3 (TPH) = Terphenyl-d14	(55-110)	3400

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710B1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	1.000	0.0000	0.7094	71	40-110
Acenaphthylene	1.000	0.0000	0.6969	70	45-110
Anthracene	1.000	0.0000	0.7829	78	65-125
Benzo(a)anthracene	1.000	0.0000	0.8103	81	60-130
Benzo(b)fluoranthene	1.000	0.0000	0.7275	73	50-135
Benzo(k)fluoranthene	1.000	0.0000	1.002	100	50-140
Benzo(g,h,i)perylene	1.000	0.0000	0.6836	68	50-150
Benzo(a)pyrene	1.000	0.0000	0.7216	72	55-145
Chrysene	1.000	0.0000	0.9537	95	60-130
Dibenz(a,h)anthracene	1.000	0.0000	0.6189	62	55-145
Fluoranthene	1.000	0.0000	0.8450	84	65-130
Fluorene	1.000	0.0000	0.7345	73	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.0000	0.7262	73	50-150
2-Methylnaphthalene	1.000	0.0000	0.6906	69	25-110
1-Methylnaphthalene	1.000	0.0000	0.6922	69	25-110
Naphthalene	1.000	0.0000	0.6733	67	25-110
Phenanthrene	1.000	0.0000	0.7479	75	65-120
Pyrene	1.000	0.0000	1.053	105	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2209	66	45-110
Acenaphthylene	3333	0.0000	2244	67	50-105
Anthracene	3333	0.0000	2690	81	55-105
Benzo(a)anthracene	3333	0.0000	3040	91	60-110
Benzo(b)fluoranthene	3333	0.0000	3186	96	55-115
Benzo(k)fluoranthene	3333	0.0000	2820	85	55-110
Benzo(g,h,i)perylene	3333	0.0000	3004	90	35-135
Benzo(a)pyrene	3333	0.0000	3115	93	60-120
Chrysene	3333	0.0000	2939	88	55-105
Dibenz(a,h)anthracene	3333	0.0000	2828	85	40-130
Fluoranthene	3333	0.0000	2734	82	55-110
Fluorene	3333	0.0000	2445	73	50-105
Indeno(1,2,3-cd)pyrene	3333	0.0000	3147	94	40-130
2-Methylnaphthalene	3333	0.0000	1772	53	40-110
Naphthalene	3333	0.0000	1684	50	30-110
Phenanthrene	3333	0.0000	2728	82	55-105
Pyrene	3333	0.0000	3284	98	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	3401	389.1	2633	66	45-110
Acenaphthylene	3401	0.0000	2422	71	50-105
Anthracene	3401	689.7	3310	77	55-105
Benzo(a)anthracene	3401	3288	5681	70	60-110
Benzo(b)fluoranthene	3401	4733	8525	111	55-115
Benzo(k)fluoranthene	3401	1590	4136	75	55-110
Benzo(g,h,i)perylene	3401	1697	3275	46	35-135
Benzo(a)pyrene	3401	3616	6299	79	60-120
Chrysene	3401	4061	6411	69	55-105
Dibenz(a,h)anthracene	3401	520.6	2509	58	40-130
Fluoranthene	3401	5450	7065	47*	55-110
Fluorene	3401	401.9	2646	66	50-105
Indeno(1,2,3-cd)pyrene	3401	1892	3514	48	40-130
2-Methylnaphthalene	3401	74.21	1824	51	40-110
Naphthalene	3401	31.69	1639	47	30-110
Phenanthrene	3401	3631	5456	54*	55-105
Pyrene	3401	4811	8838	118*	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3401	3214	83	20	50	45-110
Acenaphthylene	3401	2382	70	2	50	50-105
Anthracene	3401	4748	119*	36	50	55-105
Benzo(a)anthracene	3401	10670	217*	61*	50	60-110
Benzo(b)fluoranthene	3401	16720	352*	65*	50	55-115
Benzo(k)fluoranthene	3401	6329	139*	42	50	55-110
Benzo(g,h,i)perylene	3401	4878	94	39	50	35-135
Benzo(a)pyrene	3401	11920	244*	62*	50	60-120
Chrysene	3401	11760	226*	59*	50	55-105
Dibenz(a,h)anthracene	3401	3448	86	32	50	40-130
Fluoranthene	3401	14960	280*	72*	50	55-110
Fluorene	3401	3484	91	27	50	50-105
Indeno(1,2,3-cd)pyrene	3401	5480	105	44	50	40-130
2-Methylnaphthalene	3401	2003	57	9	50	40-110
Naphthalene	3401	1846	53	12	50	30-110
Phenanthrene	3401	14200	311*	89*	50	55-105
Pyrene	3401	21100	479*	82*	50	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 7 out of 17 outside limits
Spike Recovery: 12 out of 34 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710B1

Instrument ID: BNA3 Date Extracted: 07/10/06

Matrix: (soil/water) WATER Date Analyzed: 07/17/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1440

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06
02	51EQB1W06070	0607022-01	0702201	07/17/06
03	51EQB2W06070	0607022-02	0702202	07/17/06
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: SBLK0710B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0710

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 14:40

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710BS1

Instrument ID: BNA1 Date Extracted: 07/10/06

Matrix: (soil/water) SOIL Date Analyzed: 07/11/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1055

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	51CFM01S0607	0607022-03	0702203M	07/10/06
02	51CFM01S0607	0607022-03	0702203S	07/10/06
03	51CFM02S0607	0607022-04	0702204	07/10/06
04	51CFM03S0607	0607022-05	0702205	07/10/06
05	51CFM04S0607	0607022-06	0702206	07/10/06
06	51CFM05S0607	0607022-07	0702207	07/10/06
07	51CFM06S0607	0607022-08	0702208	07/10/06
08	51CFM07S0607	0607022-09	0702209	07/10/06
09	51CFM08S0607	0607022-10	0702210	07/10/06
10	51DUP1S06070	0607022-11	0702211	07/10/06
11	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06
12	51CFM06S0607	0607022-08	0702208D	07/11/06
13	51CFM08S0607	0607022-10	0702210D	07/11/06
14	51CFM04S0607	0607022-06	0702206D	07/11/06
15	51CFM05S0607	0607022-07	0702207D	07/11/06
16	51CFM03S0607	0607022-05	0702205D	07/11/06
17	51CFM07S0607	0607022-09	0702209D	07/11/06
18	51CFM01S0607	0607022-03	0702203D	07/11/06
19	51CFM02S0607	0607022-04	0702204D	07/11/06
20	51DUP1S06070	0607022-11	0702211D	07/11/06
21	51CFM01S0607	0607022-03	0702203R	07/11/06
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0710BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0710

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 10:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170		U
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170		U
56-55-3	Benzo(a)anthracene	20	170		U
205-99-2	Benzo(b)fluoranthene	20	170		U
207-08-9	Benzo(k)fluoranthene	20	170		U
191-24-2	Benzo(g,h,i)perylene	20	170		U
50-32-8	Benzo(a)pyrene	20	100		U
218-01-9	Chrysene	20	170		U
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170		U
86-73-7	Fluorene	20	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	20	170		U
91-57-6	2-Methylnaphthalene	20	170		U
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170		U
129-00-0	Pyrene	20	170		U

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0421B1 DFTPP Injection Date: 04/21/06

Instrument ID: BNA3 DFTPP Injection Time: 1524

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.24
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	11.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHCCV0.10PP	PAHCCV0.10PPM	PAH001	04/21/06	1628
02	PAHCCV0.20PP	PAHCCV0.20PPM	PAH002	04/21/06	1708
03	PAHCCV0.40PP	PAHCCV0.40PPM	PAH003	04/21/06	1748
04	PAHCCV0.60PP	PAHCCV0.60PPM	PAH004	04/21/06	1828
05	PAHCCV1.00PP	PAHCCV1.00PPM	PAH006	04/21/06	1908
06	PAHCCV2.50PP	PAHCCV2.50PPM	PAH008	04/21/06	1948
07	PAHCCV5.00PP	PAHCCV5.00PPM	PAH009	04/21/06	2027
08	PAHCCV10.0PP	PAHCCV10.0PPM	PAH011	04/21/06	2107
09	PAHCCV20.0PP	PAHCCV20.0PPM	PAH013	04/21/06	2147
10					
11					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0717B1 DFTPP Injection Date: 07/17/06

Instrument ID: BNA3 DFTPP Injection Time: 1257

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.92
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	56.2
443	17.0 - 23.0% of mass 442	10.8 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SPCC020PPM	SPCC020PPM	SPCC020	07/17/06	1318
02	PAHCCV5.0PPM	PAHCCV5.0PPM	PAHCCV	07/17/06	1359
03	SBLK0710B1	SBLK0710B1	SBLK0710	07/17/06	1440
04	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06	1521
05	51EQB1W06070	0607022-01	0702201	07/17/06	1602
06	51EQB2W06070	0607022-02	0702202	07/17/06	1643
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0207B1 DFTPP Injection Date: 02/07/06

Instrument ID: BNA1 DFTPP Injection Time: 1016

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.0% of mass 198	2.53
441	Present, but less than mass 443	12.3
442	Greater than 40.0% of mass 198	76.3
443	17.0 - 23.0% of mass 442	13.9 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	APP9A002PPM	APP9A002PPM	APPA002	02/07/06	1038
02	APP9A005PPM	APP9A005PPM	APPA005	02/07/06	1113
03	APP9A010PPM	APP9A010PPM	APPA010	02/07/06	1149
04	APP9A020PPM	APP9A020PPM	APPA020	02/07/06	1225
05	APP9A030PPM	APP9A030PPM	APPA030	02/07/06	1301
06	APP9A050PPM	APP9A050PPM	APPA050	02/07/06	1337
07	APP9A070PPM	APP9A070PPM	APPA070	02/07/06	1413
08	APP9A100PPM	APP9A100PPM	APPA100	02/07/06	1449
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0710B1 DFTPP Injection Date: 07/10/06

Instrument ID: BNA1 DFTPP Injection Time: 0814

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	80.3
70	Less than 2.0% of mass 69	1.0 (1.3)1
127	40.0 - 60.0% of mass 198	50.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	3.07
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.0
443	17.0 - 23.0% of mass 442	15.0 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050S	07/10/06	0835
02	51CFM01S0607	0607022-03	0702203M	07/10/06	1355
03	51CFM01S0607	0607022-03	0702203S	07/10/06	1430
04	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/10/06	1506
05	51CFM02S0607	0607022-04	0702204	07/10/06	1542
06	51CFM03S0607	0607022-05	0702205	07/10/06	1617
07	51CFM04S0607	0607022-06	0702206	07/10/06	1652
08	51CFM05S0607	0607022-07	0702207	07/10/06	1728
09	51CFM06S0607	0607022-08	0702208	07/10/06	1803
10	51CFM07S0607	0607022-09	0702209	07/10/06	1838
11	51CFM08S0607	0607022-10	0702210	07/10/06	1914
12	51DUP1S06070	0607022-11	0702211	07/10/06	1949
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0711B1 DFTPP Injection Date: 07/11/06

Instrument ID: BNA1 DFTPP Injection Time: 0923

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.5
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.72
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.8
443	17.0 - 23.0% of mass 442	14.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/11/06	0943
02	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/11/06	1019
03	SBLK0710BS1	SBLK0710BS1	SBLK0710	07/11/06	1055
04	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06	1130
05	51CFM06S0607	0607022-08	0702208D	07/11/06	1206
06	51CFM08S0607	0607022-10	0702210D	07/11/06	1242
07	51CFM04S0607	0607022-06	0702206D	07/11/06	1317
08	51CFM05S0607	0607022-07	0702207D	07/11/06	1353
09	51CFM03S0607	0607022-05	0702205D	07/11/06	1429
10	51CFM07S0607	0607022-09	0702209D	07/11/06	1504
11	51CFM01S0607	0607022-03	0702203D	07/11/06	1540
12	51CFM02S0607	0607022-04	0702204D	07/11/06	1616
13	51DUP1S06070	0607022-11	0702211D	07/11/06	1651
14	51CFM01S0607	0607022-03	0702203R	07/11/06	1727
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS1 (DCB)			IS2 (NPT)			IS3 (ANT)	
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	91793		5.45		440409		8.06		269649		12.19	
	UPPER LIMIT	183586		5.95		880818		8.56		539298		12.69	
	LOWER LIMIT	45897		4.95		220205		7.56		134825		11.69	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	121658		5.46		465446		8.06		273330		12.18	
02	SBLK0710B1LC	138773		5.45		538678		8.05		349243		12.19	
03	51EQB1W06070	129959		5.45		457000		8.06		300801		12.19	
04	51EQB2W06070	97583		5.45		420705		8.06		244864		12.19	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	361669		15.71		239219		22.13		175042		25.33	
	UPPER LIMIT	723338		16.21		478438		22.63		350084		25.83	
	LOWER LIMIT	180835		15.21		119610		21.63		87521		24.83	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	357800		15.71		193201		22.14		138896		25.33	
02	SBLK0710B1LC	475655		15.70		301390		22.13		223318		25.33	
03	51EQB1W06070	393613		15.71		192506		22.13		139977		25.33	
04	51EQB2W06070	337290		15.72		207600		22.13		161426		25.33	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	490511	4.28	1549037	5.29	762535	7.72
	UPPER LIMIT	981022	4.78	3098074	5.79	1525070	8.22
	LOWER LIMIT	245256	3.78	774519	4.79	381268	7.22
	CLIENT SAMPLE NO.						
01	51CFM01S0607	463784	4.27	1571829	5.29	729802	7.71
02	51CFM01S0607	455682	4.28	1464992	5.28	766940	7.72
03	51CFM02S0607	362980	4.27	1244309	5.28	563237	7.71
04	51CFM03S0607	376135	4.27	1244549	5.28	622642	7.71
05	51CFM04S0607	579739	4.28	2005483	5.28	937164	7.72
06	51CFM05S0607	569244	4.27	2035797	5.28	892557	7.72
07	51CFM06S0607	498939	4.28	1742860	5.28	860611	7.71
08	51CFM07S0607	424515	4.27	1484378	5.28	732415	7.71
09	51CFM08S0607	522925	4.27	1821101	5.28	886023	7.71
10	51DUP1S06070	588667	4.27	1995612	5.28	967098	7.71
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	979351		11.02		678371		18.44		671653		22.27	
	UPPER LIMIT	1958702		11.52		1356742		18.94		1343306		22.77	
	LOWER LIMIT	489676		10.52		339186		17.94		335827		21.77	
	CLIENT SAMPLE NO.												
01	51CFM01S0607	912148		11.02		479872		18.47		254990	*	22.29	
02	51CFM01S0607	920312		11.04		404607		18.51		209947	*	22.31	
03	51CFM02S0607	711652		11.01		374962		18.43		195060	*	22.26	
04	51CFM03S0607	710268		11.03		299270	*	18.48		160313	*	22.29	
05	51CFM04S0607	821642		11.12		223360	*	18.56		114069	*	22.33	
06	51CFM05S0607	945614		11.08		215513	*	18.55		92065	*	22.34	
07	51CFM06S0607	1078920		11.02		369663		18.43		198523	*	22.27	
08	51CFM07S0607	820238		11.03		244512	*	18.47		129670	*	22.30	
09	51CFM08S0607	1052422		11.02		299916	*	18.44		157786	*	22.28	
10	51DUP1S06070	1135313		11.02		350216		18.45		196508	*	22.29	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	470349	4.24	1533236	5.24	784651	7.64
	UPPER LIMIT	940698	4.74	3066472	5.74	1569302	8.14
	LOWER LIMIT	235175	3.74	766618	4.74	392326	7.14
	CLIENT SAMPLE NO.						
01	SBLK0710BS1	417530	4.24	1466963	5.23	713763	7.63
02	SBLK0710BS1L	538017	4.24	1842774	5.24	947550	7.65
03	51CFM06S0607	561867	4.24	1957507	5.23	954793	7.64
04	51CFM08S0607	576810	4.24	1935806	5.23	991861	7.64
05	51CFM04S0607	550037	4.23	1768695	5.24	910077	7.64
06	51CFM05S0607	522989	4.24	1812935	5.23	891228	7.64
07	51CFM03S0607	566806	4.24	1945729	5.24	977628	7.64
08	51CFM07S0607	541204	4.24	1862652	5.24	930885	7.64
09	51CFM01S0607	554399	4.24	1861201	5.23	974269	7.64
10	51CFM02S0607	495619	4.24	1785336	5.24	858789	7.64
11	51DUP1S06070	534771	4.24	1877607	5.23	918759	7.64
12	51CFM01S0607	527249	4.24	1840100	5.24	900802	7.64
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1083046		10.92		817298		18.33		813632		22.18	
	UPPER LIMIT	2166092		11.42		1634596		18.83		1627264		22.68	
	LOWER LIMIT	541523		10.42		408649		17.83		406816		21.68	
	CLIENT SAMPLE NO.												
01	SBLK0710BS1	981779		10.92		796917		18.32		815226		22.16	
02	SBLK0710BS1L	1224866		10.94		743527		18.35		668049		22.18	
03	51CFM06S0607	1198277		10.92		833738		18.32		770123		22.16	
04	51CFM08S0607	1290131		10.92		867995		18.33		850543		22.16	
05	51CFM04S0607	1219549		10.92		928463		18.32		954726		22.17	
06	51CFM05S0607	1162136		10.92		943983		18.33		967641		22.17	
07	51CFM03S0607	1321612		10.92		1068214		18.33		1098925		22.18	
08	51CFM07S0607	1267737		10.93		1006098		18.34		1014347		22.18	
09	51CFM01S0607	1309895		10.93		1003686		18.34		1036314		22.19	
10	51CFM02S0607	1091272		10.92		770234		18.33		729191		22.16	
11	51DUP1S06070	1231851		10.92		923091		18.33		903015		22.18	
12	51CFM01S0607	1077989		10.94		800087		18.39		639204		22.23	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ANALYTICAL REPORT

MAIN DATA PACKAGE - ORGANICS

VOLATILES SECTION

CH2M Hill, Inc.

WO #0607022
Part 1 of 3

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607022

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-12	TB-1-060706	1

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5030B/8260B (purge and trap followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Soil samples received for volatile analyses were not properly preserved upon receipt at the laboratory Saturday 7/8/06 (refrigerated instead of frozen). Samples were analyzed immediately upon discovery of the error 7/10/06 but results were reported for PM information only and are not included in this data package. Resamples were received 7/12/06 and are reported as a separate package for work order 0607031.
- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met for the target analytes.
- Blank Results: No target analytes were detected.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed without dilution.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnaphthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022-															
01 1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J-HCl pitch 3J+-UNPRES			Grab		
02 2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3				Grab		
03 3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J-HCl pitch- UNPRES			Grab		
04 4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05 5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06 6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07 7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08 8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09 9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1				Grab		
-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	1300

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include) BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	10 51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J,10,11 - UNPRES	Grab		
03	11 51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03	12 51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11	13 51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7025 01	14 51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,1K-UNPRES	Composite		
											1			
7022 12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCl pH<2			
7023 02	TB-2-060706	V	W	V				2			V			

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	1300

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 COC ID(s): 346570-001

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Boto Today's Date 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number FX
Cooler Opened: Date 7-8

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-7

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen (✓)
Frozen _____

# of Coolers 1 Temp. of Coolers 3.0

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

Empirical Laboratories

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V5BLK0710LCS	97	91	96	100	0
02	V5BLK0710	113	116	102	87	0
03	TB-1-060706	114	119	102	88	0
04	51EQB1W06070	116	118	104	87	0
05	51EQB2W06070	118	116	108	91	0
06						
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30						

		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix Spike - Client Sample No.: V5BLK0710

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	55.14	110	75-125
Ethylbenzene	50.00	0.0000	47.52	95	75-130
Toluene	50.00	0.0000	53.55	107	75-125
Xylene(total)	150.0	0.0000	156.2	104	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID: V5BLK01 Lab Sample ID: V5BLK0710

Date Analyzed: 07/10/06 Time Analyzed: 1936

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	1644
02	TB-1-060706	0607022-12	0702212	2033
03	51EQB1W06070	0607022-01	0702201	2102
04	51EQB2W06070	0607022-02	0702202	2131
05				
06				
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08				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID: V5BFB01 BFB Injection Date: 07/10/06

Instrument ID: VOA5 BFB Injection Time: 1427

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.4
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	4.4 (7.0)1
176	95.0 - 101.0% of mass 174	61.4 (97.6)1
177	5.0 - 9.0% of mass 176	4.4 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V5STD200PPB	V5STD200PPB	V5STD08	07/10/06	1517
02	V5STD100PPB	V5STD100PPB	V5STD07	07/10/06	1546
03	V5STD50PPB	V5STD50PPB	V5STD06	07/10/06	1615
04	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	07/10/06	1644
05	V5STD20PPB	V5STD20PPB	V5STD05	07/10/06	1713
06	V5STD10PPB	V5STD10PPB	V5STD04	07/10/06	1741
07	V5STD2.0PPB	V5STD2.0PPB	V5STD03	07/10/06	1810
08	V5STD1.0PPB	V5STD1.0PPB	V5STD02	07/10/06	1839
09	V5STD0.5PPB	V5STD0.5PPB	V5STD01	07/10/06	1908
10	V5BLK0710	V5BLK0710	V5BLK01	07/10/06	1936
11	TB-1-060706	0607022-12	0702212	07/10/06	2033
12	51EQB1W06070	0607022-01	0702201	07/10/06	2102
13	51EQB2W06070	0607022-02	0702202	07/10/06	2131
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Lab File ID (Standard): V5STD06 Date Analyzed: 07/10/06

Instrument ID: VOA5 Time Analyzed: 1615

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 (FLB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	552383	13.10	326019	16.44	271188	18.26
	UPPER LIMIT	1104766	13.60	652038	16.94	542376	18.76
	LOWER LIMIT	276192	12.60	163010	15.94	135594	17.76
	CLIENT SAMPLE NO.						
01	V5BLK0710LCS	552759	13.09	325052	16.44	262739	18.25
02	V5BLK0710	424178	13.11	241125	16.45	184555	18.27
03	TB-1-060706	412170	13.11	238007	16.45	186825	18.26
04	51EQB1W06070	413240	13.11	242181	16.45	191798	18.26
05	51EQB2W06070	406264	13.11	230278	16.45	178987	18.27
06							
07							
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22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702201

Level: (low/med) LOW Date Sampled: 07/06/06 15:10

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702201.D
Report Date: 11-Jul-2006 11:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702201.D
Lab Smp Id: 0607022-01 Client Smp ID: 51EQB1W060706
Inj Date : 10-JUL-2006 21:02 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : 0607022-01;;;;;eb
Misc Info : ch2.v07022;0;;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.112	13.100	(1.000)	413240	30.0000	
47 Chloroform	83	10.863	10.841	(0.828)	5318	0.47634	0.4763(a)
$ 49 Dibromofluoromethane	111	11.080	11.078	(0.845)	231462	34.8275	34.83
$ 52 1,2-Dichloroethane-d4	102	11.908	11.906	(0.908)	33625	35.2744	35.27
$ 76 Toluene-d8	98	15.174	15.171	(0.923)	428988	31.0684	31.07
* 86 Chlorobenzene-d5	82	16.446	16.444	(1.000)	242181	30.0000	(Q)
$ 97 Bromofluorobenzene	95	17.364	17.361	(1.056)	194592	26.1624	26.16
* 110 1,4-Dichlorobenzene-d4	152	18.261	18.259	(1.000)	191798	30.0000	(Q)

QC Flag Legend

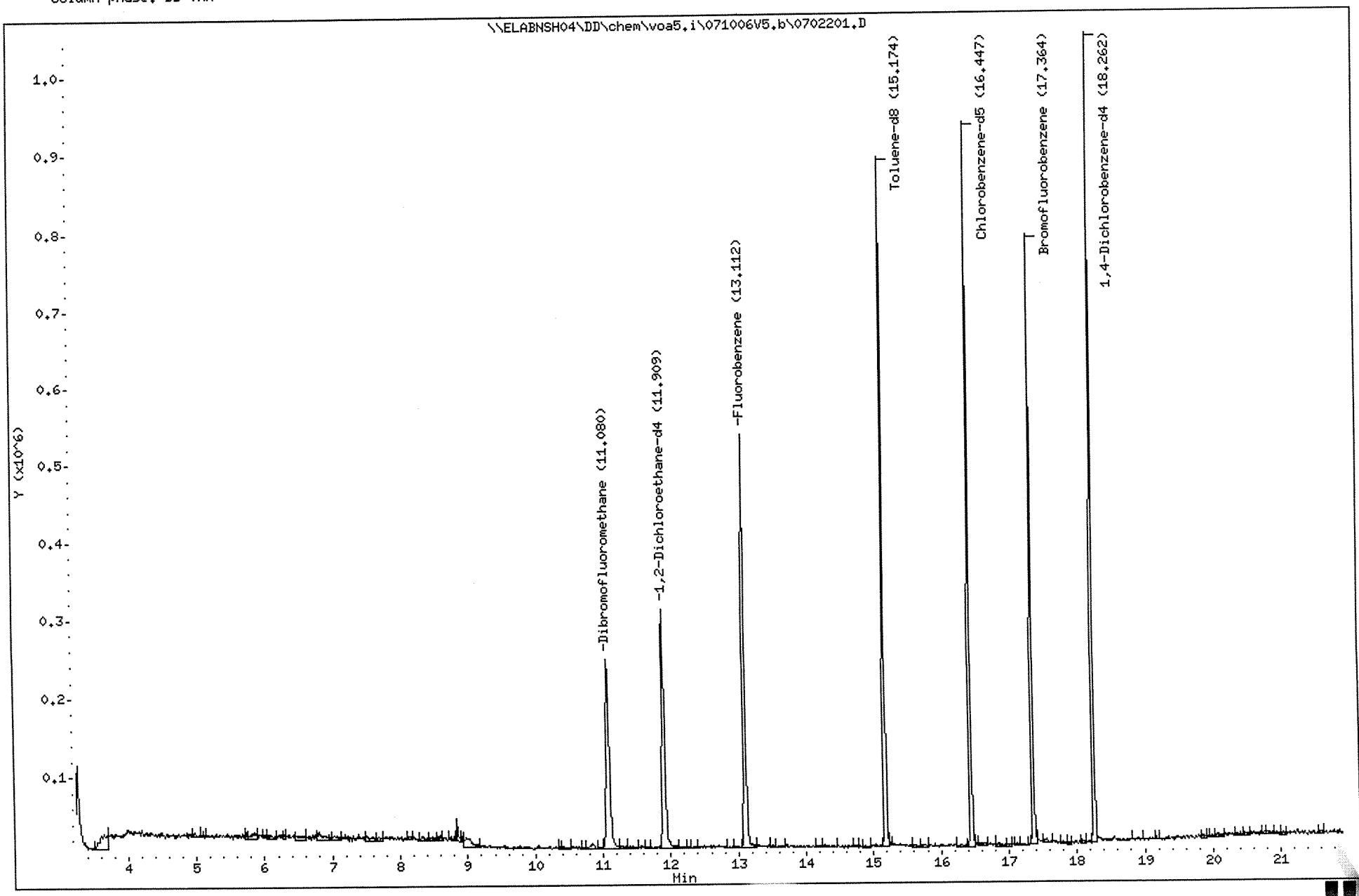
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702201.D
Date : 10-JUL-2006 21:02
Client ID: 51EQB1W060706
Sample Info: 0607022-01;;;;;eb
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

000013



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702201.D

Date : 10-JUL-2006 21:02

Client ID: 51EQB1W060706

Instrument: voa5.i

Sample Info: 0607022-01;;;;;eb

Purge Volume: 5.0

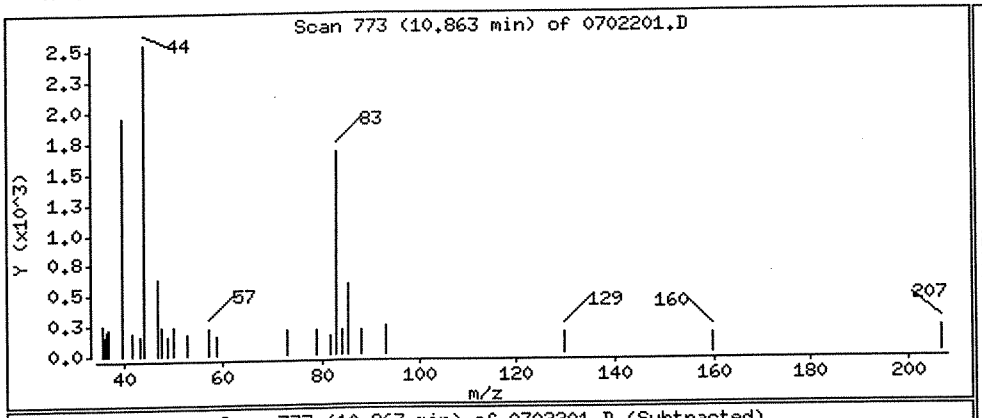
Operator: ADM

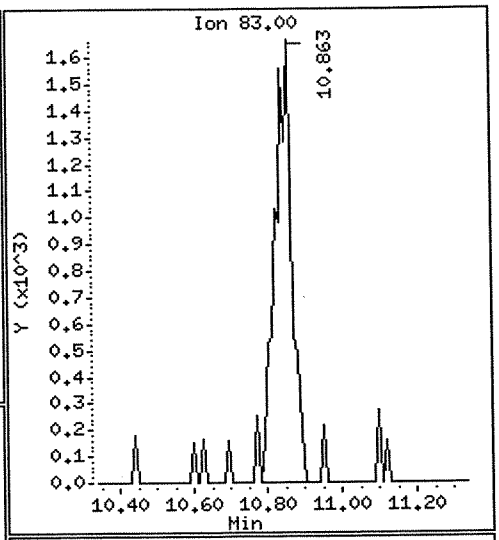
Column phase: DB-VRX

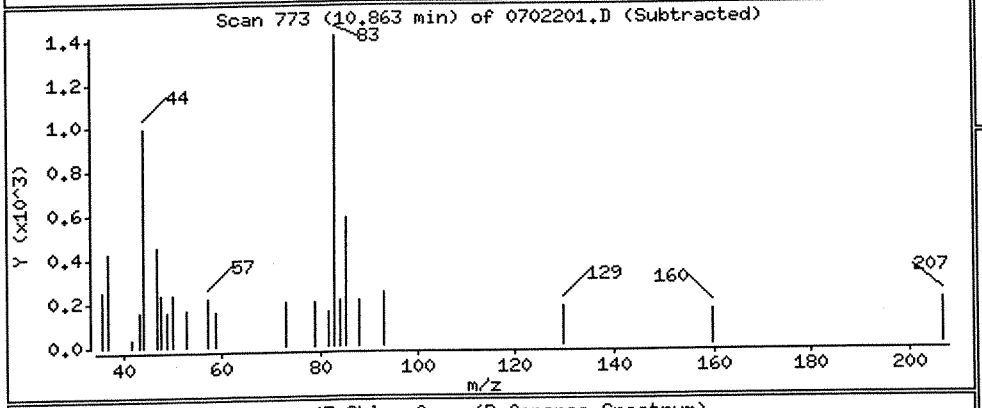
Column diameter: 0.25

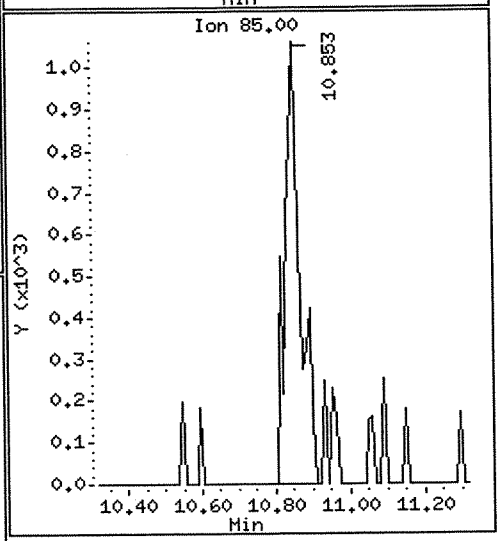
47 Chloroform

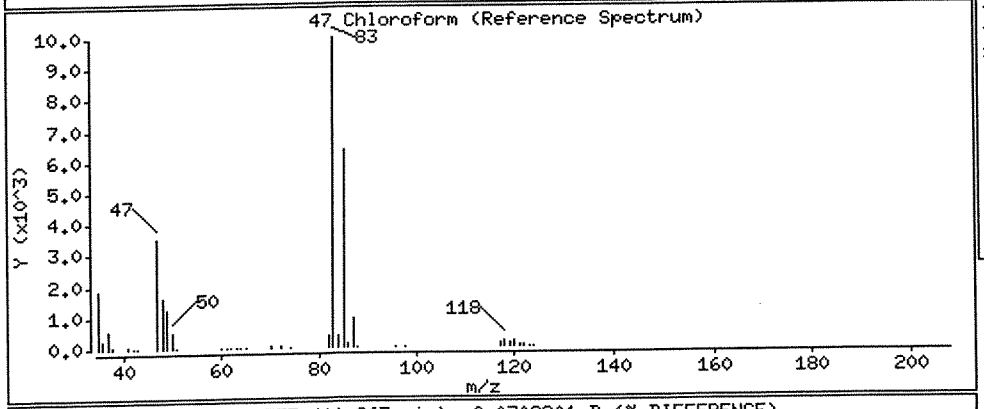
Concentration: 0.4763 ug/L

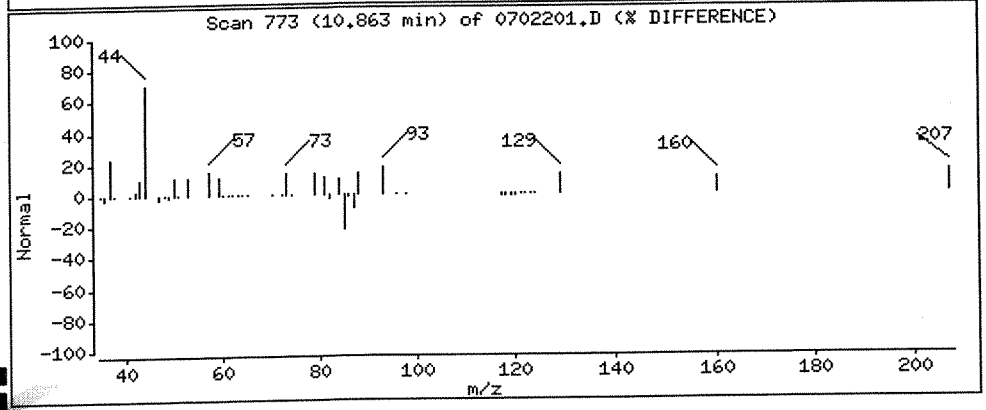












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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702202

Level: (low/med) LOW Date Sampled: 07/06/06 17:00

% Moisture: not dec. _____ Date Analyzed: 07/10/06 21:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene(total)	0.33	1.0		U

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702202.D
Report Date: 11-Jul-2006 11:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702202.D
Lab Smp Id: 0607022-02 Client Smp ID: 51EQB2W060706
Inj Date : 10-JUL-2006 21:31 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : 0607022-02;;;;;eb
Misc Info : ch2.v07022;0;;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

m 7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.105	13.100	(1.000)	406264	30.0000	
14 Acetone	43	5.825	5.820	(0.445)	11162	3.35923	3.359(a)
47 Chloroform	83	10.836	10.841	(0.827)	4462	0.40653	0.4065(a)
$ 49 Dibromofluoromethane	111	11.083	11.078	(0.846)	230928	35.3438	35.34
$ 52 1,2-Dichloroethane-d4	102	11.912	11.906	(0.909)	32620	34.8077	34.81(Q)
$ 76 Toluene-d8	98	15.177	15.171	(0.923)	423916	32.2880	32.29
* 86 Chlorobenzene-d5	82	16.449	16.444	(1.000)	230278	30.0000	(Q)
$ 97 Bromofluorobenzene	95	17.357	17.361	(1.055)	192374	27.2011	27.20
* 110 1,4-Dichlorobenzene-d4	152	18.265	18.259	(1.000)	178987	30.0000	(Q)

QC Flag Legend

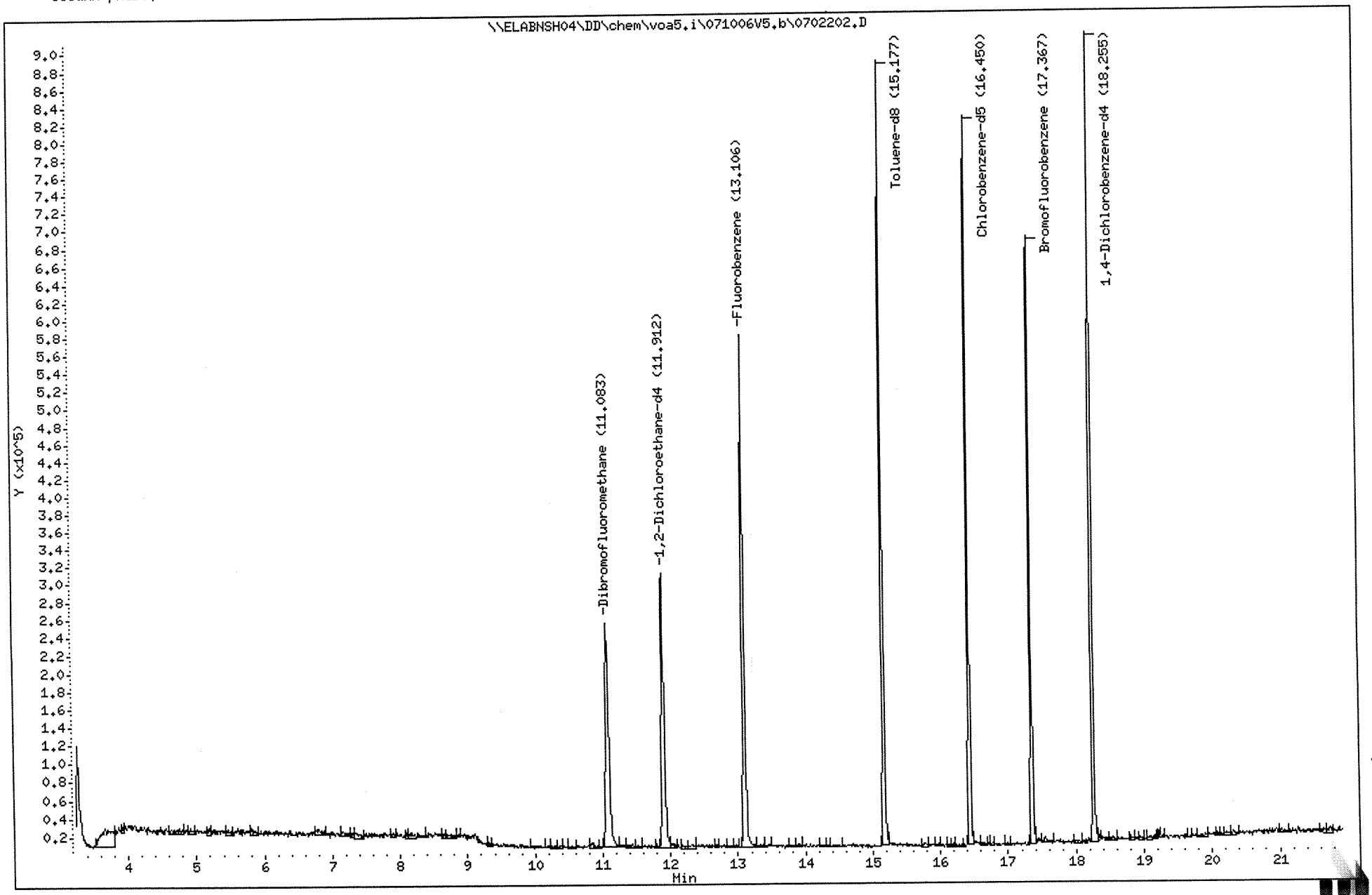
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702202.D
Date : 10-JUL-2006 21:31
Client ID: 51EQB2W060706
Sample Info: 0607022-02;;;;;eb
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

000017



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Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702202.D

Date : 10-JUL-2006 21:31

Client ID: 51EQB2W060706

Instrument: voa5.i

Sample Info: 0607022-02;;;;;eb

Operator: ADM

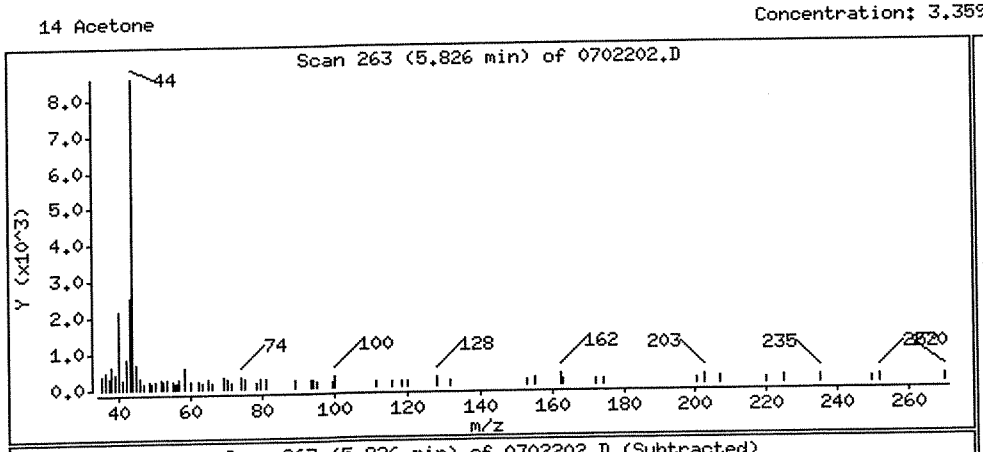
Purge Volume: 5.0

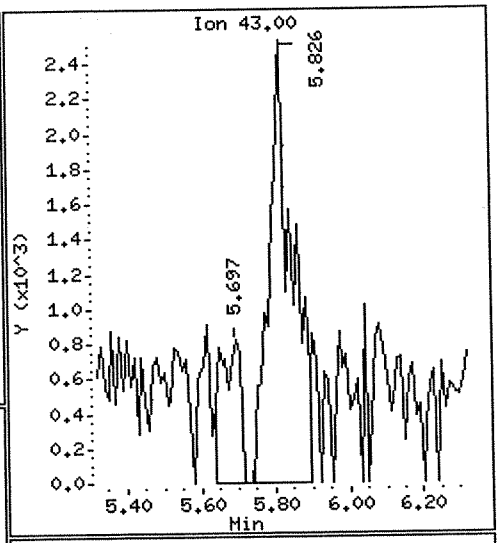
Column phase: DB-VRX

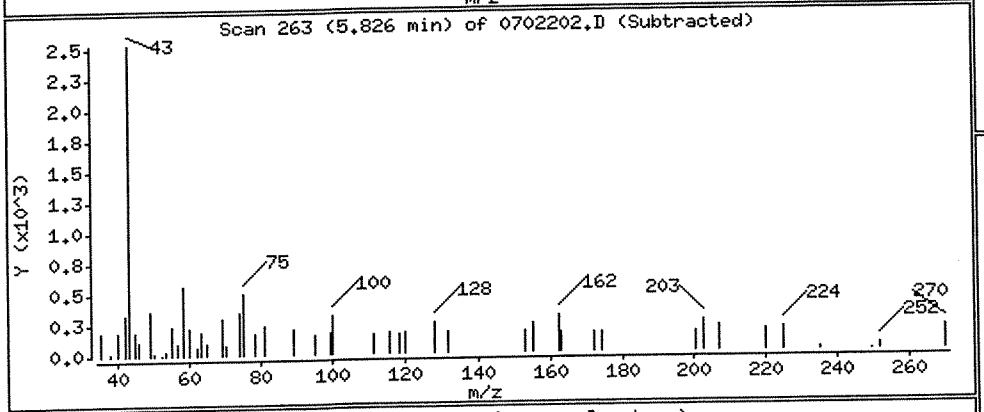
Column diameter: 0.25

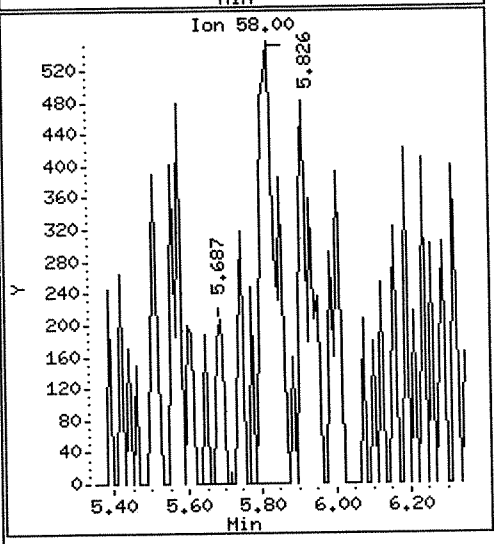
14 Acetone

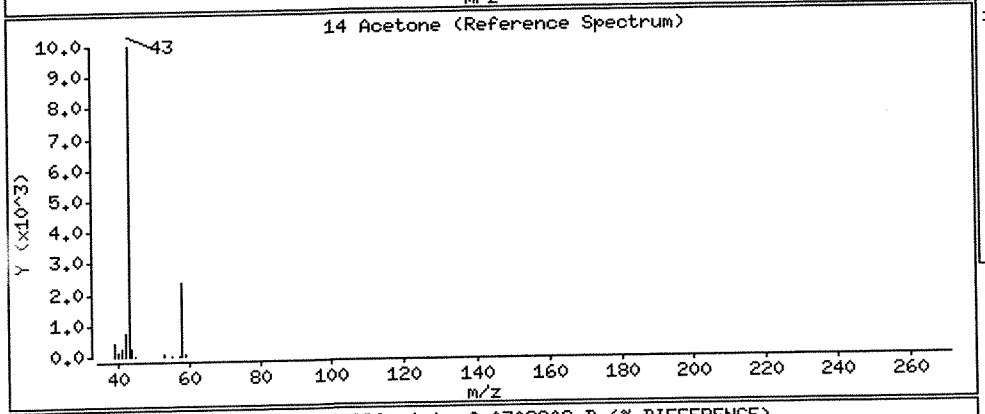
Concentration: 3.359 ug/L

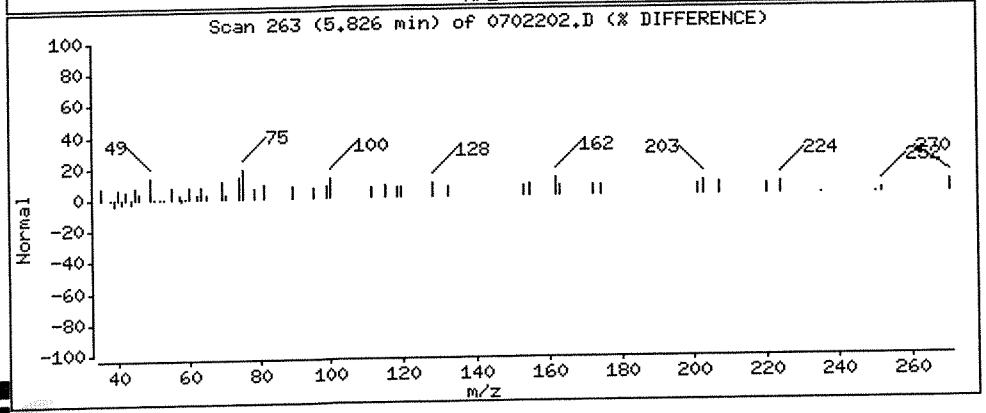












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Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702202.D

Date : 10-JUL-2006 21:31

Client ID: 51EQB2W060706

Instrument: voa5.i

Sample Info: 0607022-02;;;;;eb

Purge Volume: 5.0

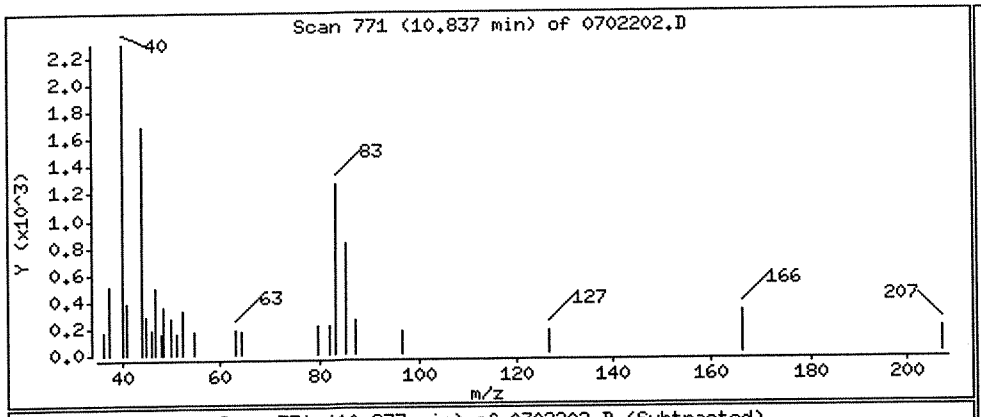
Operator: ADM

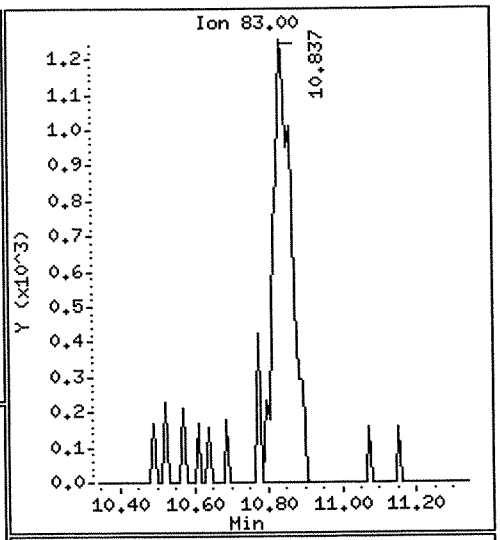
Column phase: DB-VRX

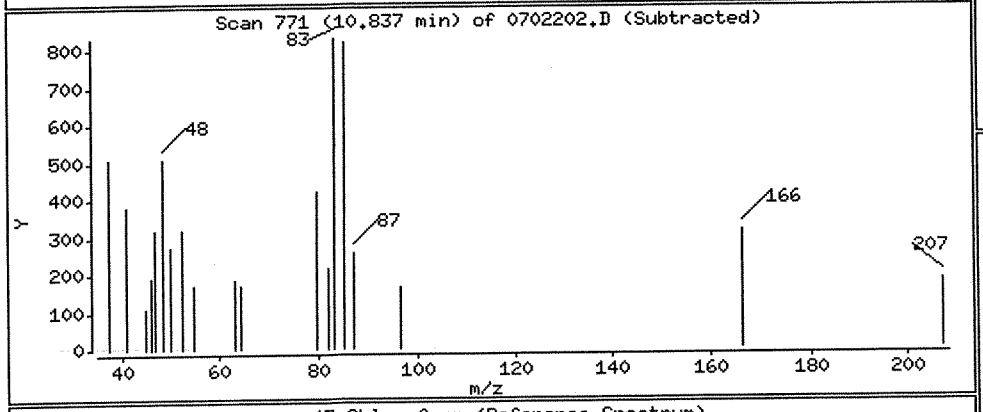
Column diameter: 0.25

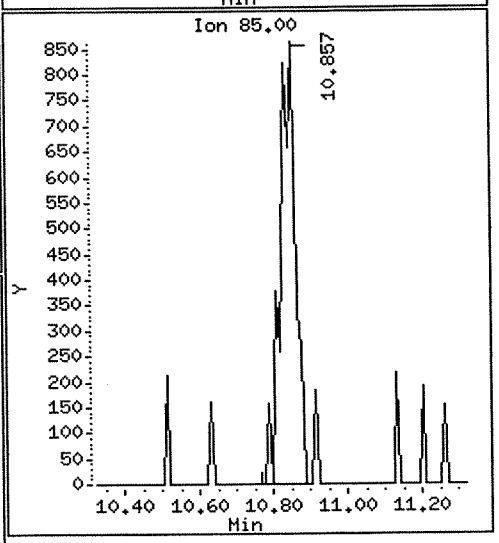
47 Chloroform

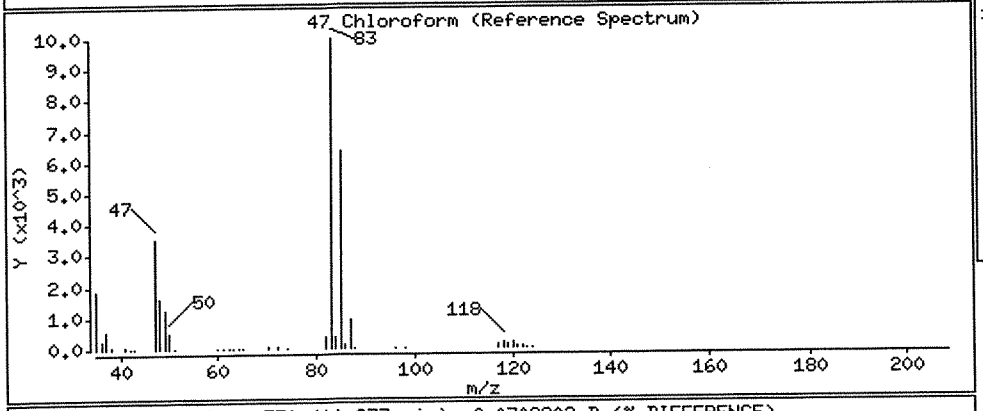
Concentration: 0.4065 ug/L

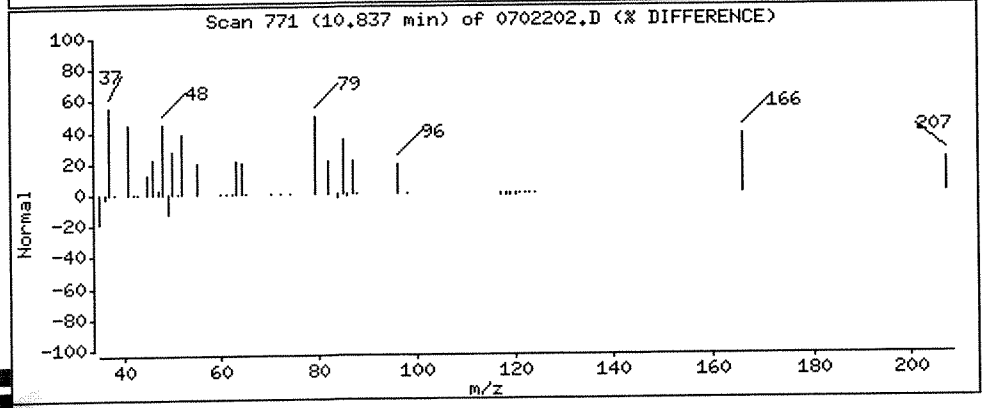












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-12

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702212

Level: (low/med) LOW Date Sampled: 07/06/06 :

% Moisture: not dec. _____ Date Analyzed: 07/10/06 20:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene (total)	0.33	1.0		U

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702212.D
Report Date: 11-Jul-2006 11:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702212.D
Lab Smp Id: 0607022-12 Client Smp ID: TB-1-060706
Inj Date : 10-JUL-2006 20:33 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : 0607022-12;;;;;tb
Misc Info : ch2.v07022;0;;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	13.105	13.100	(1.000)	412170	30.0000		
$ 49 Dibromofluoromethane	111	11.083	11.078	(0.846)	225726	34.0526	34.05	
$ 52 1,2-Dichloroethane-d4	102	11.911	11.906	(0.909)	34044	35.8067	35.81	
$ 76 Toluene-d8	98	15.177	15.171	(0.923)	416167	30.6684	30.67	
* 86 Chlorobenzene-d5	82	16.449	16.444	(1.000)	238007	30.0000		(Q)
$ 97 Bromofluorobenzene	95	17.357	17.361	(1.055)	193546	26.4781	26.48	
* 110 1,4-Dichlorobenzene-d4	152	18.264	18.259	(1.000)	186825	30.0000		(Q)

QC Flag Legend

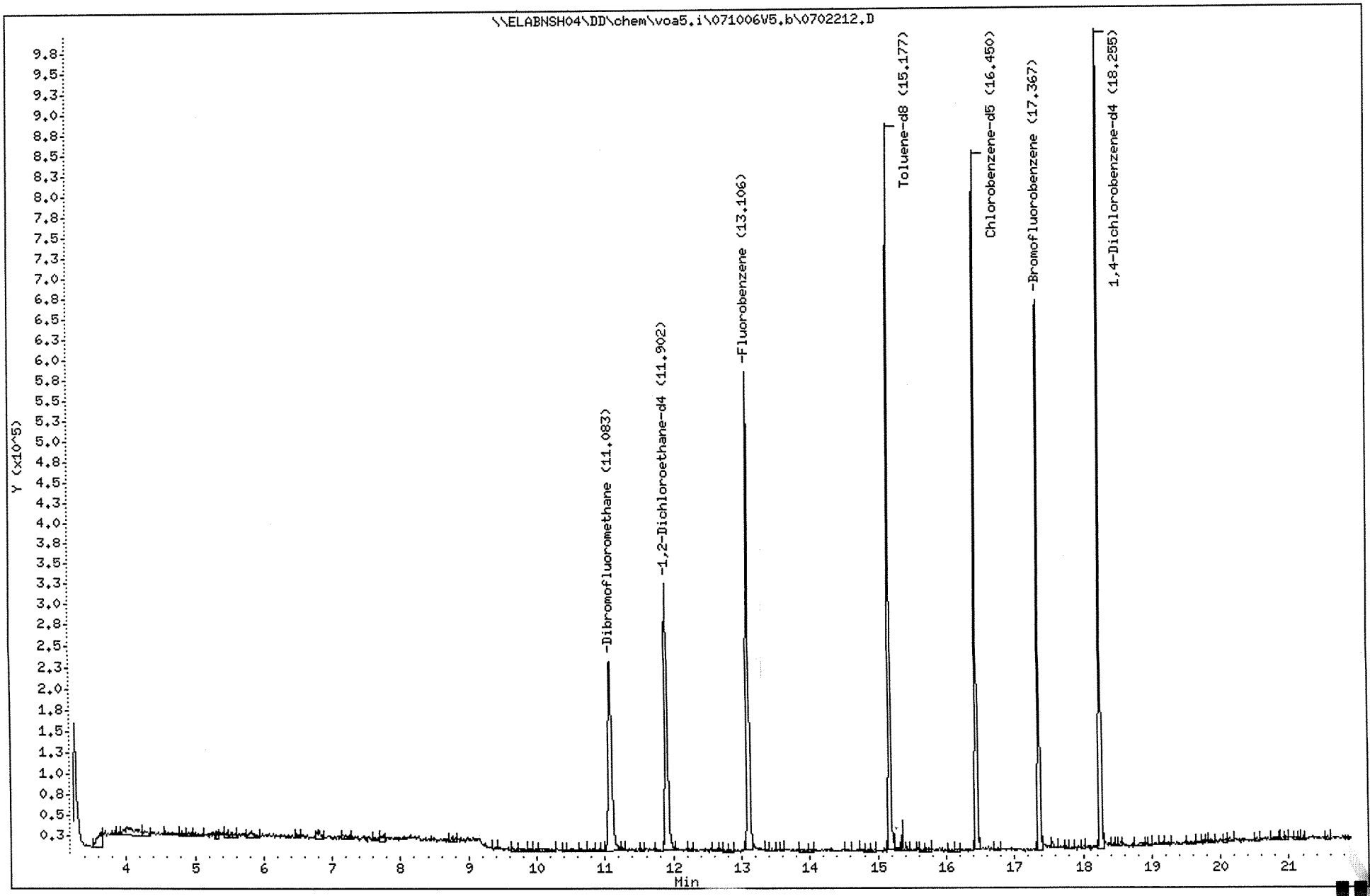
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\0702212.D
Date : 10-JUL-2006 20:33
Client ID: TB-1-060706
Sample Info: 0607022-12;;;;;tb
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

000022



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FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetone		0.520	0.396	0.232	0.227
Acrolein	0.088	0.063	0.074	0.068	0.066
Acrylonitrile	0.150	0.167	0.158	0.153	0.133
Benzene	0.672	0.668	0.782	1.074	0.991
Bromobenzene	0.469	0.455	0.504	0.636	0.677
Bromochloromethane	0.199	0.147	0.190	0.171	0.156
Bromodichloromethane	0.793	0.643	0.638	0.646	0.636
Bromoform	0.566	0.588	0.503	0.638	0.578
Bromomethane	0.453	0.338	0.292	0.274	0.251
2-Butanone		0.143	0.131	0.114	0.119
n-Butylbenzene	1.304	1.105	1.272	1.841	2.109
sec-Butylbenzene	1.089	1.253	1.356	2.356	2.544
tert-Butylbenzene	0.735	0.746	0.772	1.404	1.572
Carbon disulfide	1.527	1.460	1.234	1.129	1.022
Carbon tetrachloride	0.754	0.797	0.706	0.734	0.644
Chlorobenzene	1.625	1.520	1.539	1.576	1.391
Chloroethane	0.404	0.359	0.344	0.234	0.200
2-Chloroethyl vinyl ether		0.044	0.034	0.074	0.114
Chloroform		0.964	0.894	0.850	0.753
Chloromethane	0.541	0.455	0.518	0.386	0.340
2-Chlorotoluene	1.308	1.260	1.406	2.250	2.258
4-Chlorotoluene	1.138	1.191	1.508	2.228	2.341
Cyclohexane	0.207	0.150	0.153	0.282	0.340
Dibromochloromethane	0.878	0.772	0.923	0.935	0.888
1,2-Dibromo-3-chloropropane	0.109	0.102	0.113	0.125	0.134
1,2-Dibromoethane	0.432	0.487	0.540	0.605	0.601
Dibromomethane	0.309	0.272	0.272	0.280	0.259
1,2-Dichlorobenzene	0.976	0.973	0.978	1.200	1.275
1,3-Dichlorobenzene	1.146	1.130	1.143	1.303	1.350
1,4-Dichlorobenzene	1.787	1.938	1.822	1.734	1.675
Dichlorodifluoromethane	0.404	0.350	0.359	0.327	0.277
1,1-Dichloroethane	1.199	1.139	0.931	0.852	0.753
1,2-Dichloroethane	0.878	0.790	0.714	0.764	0.717
1,1-Dichloroethene	0.489	0.354	0.342	0.302	0.270
cis-1,2-Dichloroethene		0.160	0.150	0.175	0.189
1,2-Dichloroethene(total)	0.291	0.319	0.286	0.273	0.250
trans-1,2-Dichloroethene	0.475	0.477	0.422	0.370	0.312

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
1,2-Dichloropropane	0.272	0.269	0.266	0.311	0.303
1,3-Dichloropropane	0.871	0.897	0.961	1.049	0.999
2,2-Dichloropropane	0.569	0.534	0.497	0.526	0.510
1,1-Dichloropropene	0.204	0.226	0.205	0.273	0.305
cis-1,3-Dichloropropene	0.268	0.248	0.237	0.410	0.443
trans-1,3-Dichloropropene	0.406	0.446	0.454	0.778	0.866
Ethylbenzene		1.306	1.327	2.129	2.304
Ethyl methacrylate	0.280	0.233	0.276	0.500	0.612
Hexachlorobutadiene		0.483	0.343	0.354	0.363
2-Hexanone	0.254	0.294	0.355	0.448	0.488
Iodomethane	0.351	0.423	0.416	0.502	0.498
Isopropylbenzene	0.920	0.904	1.013	1.949	2.096
p-Isopropyltoluene	2.155	1.880	1.933	2.121	2.120
Methyl acetate	0.857	0.710	0.602	0.437	0.352
Methyl cyclohexane	0.132	0.132	0.111	0.275	0.304
Methylene chloride		1.038	0.789	0.500	0.401
Methyl methacrylate	0.319	0.247	0.160	0.289	0.287
MTBE		0.801	0.728	0.729	0.702
4-Methyl-2-pentanone	0.134	0.177	0.166	0.302	0.350
Naphthalene	0.987	0.802	0.842	1.327	1.566
n-Propylbenzene	1.460	1.522	1.648	2.863	3.251
Styrene	0.492	0.406	0.586	1.032	1.191
1,1,1,2-Tetrachloroethane	0.774	0.758	0.732	0.718	0.633
1,1,2,2-Tetrachloroethane	0.914	0.813	0.890	0.919	0.893
Tetrachloroethene	0.345	0.448	0.511	0.509	0.481
Tetrahydrofuran				0.039	0.040
Toluene	1.047	1.206	1.017	1.253	1.166
1,2,3-Trichlorobenzene	0.652	0.590	0.562	0.657	0.667
1,2,4-Trichlorobenzene	0.670	0.611	0.585	0.662	0.751
1,1,1-Trichloroethane	0.728	0.702	0.725	0.717	0.690
1,1,2-Trichloroethane	0.440	0.417	0.468	0.512	0.467
Trichloroethene	0.234	0.243	0.222	0.277	0.304
Trichlorofluoromethane	0.977	0.954	0.846	0.784	0.687
Trichlorotrifluoroethane	0.363	0.544	0.442	0.395	0.340
1,2,3-Trichloropropane	0.210	0.258	0.177	0.254	0.245
1,2,4-Trimethylbenzene	1.012	0.769	0.988	2.117	2.352
1,3,5-Trimethylbenzene	0.775	0.879	1.144	2.034	2.314

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Vinyl acetate		0.721	0.771	0.796	0.771
Vinyl chloride	0.606	0.444	0.422	0.390	0.348
Xylene(total)	0.689	0.823	1.029	2.206	2.296
Dibromofluoromethane	0.506	0.541	0.509	0.488	0.464
1,2-Dichloroethane-d4	0.075	0.081	0.075	0.071	0.060
Toluene-d8	1.794	1.874	1.920	1.894	1.757
Bromofluorobenzene	0.816	0.926	1.010	1.084	1.034

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
Acetone	0.234	0.230	0.237
Acrolein	0.066	0.058	0.058
Acrylonitrile	0.143	0.127	0.124
Benzene	1.094	1.068	0.982
Bromobenzene	0.770	0.726	0.676
Bromochloromethane	0.176	0.167	0.160
Bromodichloromethane	0.630	0.592	0.538
Bromoform	0.552	0.515	0.444
Bromomethane	0.259	0.248	0.244
2-Butanone	0.190	0.218	0.247
n-Butylbenzene	2.206	2.171	
sec-Butylbenzene	2.645	2.666	2.429
tert-Butylbenzene	1.616	1.755	1.598
Carbon disulfide	0.965	0.923	0.849
Carbon tetrachloride	0.653	0.608	0.570
Chlorobenzene	1.326	1.216	
Chloroethane	0.202	0.182	0.168
2-Chloroethyl vinyl ether	0.173	0.186	0.187
Chloroform	0.782	0.750	0.680
Chloromethane	0.295	0.276	0.269
2-Chlorotoluene	2.296	2.185	2.026
4-Chlorotoluene	2.752	2.341	2.279
Cyclohexane	0.445	0.447	0.466
Dibromochloromethane	0.836	0.752	0.603
1,2-Dibromo-3-chloropropane	0.155	0.160	
1,2-Dibromoethane	0.622	0.598	0.473
Dibromomethane	0.280	0.281	0.264
1,2-Dichlorobenzene	1.258	1.258	1.179
1,3-Dichlorobenzene	1.462	1.313	1.222
1,4-Dichlorobenzene	1.702	1.434	1.377
Dichlorodifluoromethane	0.292	0.281	0.287
1,1-Dichloroethane	0.745	0.743	0.657
1,2-Dichloroethane	0.749	0.712	0.670
1,1-Dichloroethene	0.270	0.249	0.238
cis-1,2-Dichloroethene	0.263	0.277	0.261
1,2-Dichloroethene(total)	0.296	0.285	0.271
trans-1,2-Dichloroethene	0.330	0.293	0.281

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
1,2-Dichloropropane	0.342	0.332	0.303
1,3-Dichloropropane	0.946	0.854	0.720
2,2-Dichloropropane	0.598	0.567	0.569
1,1-Dichloropropene	0.460	0.452	0.454
cis-1,3-Dichloropropene	0.584	0.579	0.556
trans-1,3-Dichloropropene	1.035	0.974	
Ethylbenzene	2.537	2.175	1.676
Ethyl methacrylate	0.704	0.731	
Hexachlorobutadiene	0.371	0.360	0.321
2-Hexanone	0.600	0.560	
Iodomethane	0.546	0.521	0.461
Isopropylbenzene	2.180	2.074	
p-Isopropyltoluene	2.365	2.298	2.011
Methyl acetate	0.344	0.315	0.311
Methyl cyclohexane	0.349	0.339	0.374
Methylene chloride	0.387	0.359	0.314
Methyl methacrylate	0.338	0.309	0.318
MTBE	0.814	0.805	0.894
4-Methyl-2-pentanone	0.435	0.430	0.444
Naphthalene	1.812	1.868	1.793
n-Propylbenzene	3.538	3.280	2.955
Styrene	1.363	1.288	
1,1,1,2-Tetrachloroethane	0.631	0.560	
1,1,2,2-Tetrachloroethane	0.877	0.847	0.809
Tetrachloroethene	0.497	0.484	0.392
Tetrahydrofuran	0.060	0.079	0.089
Toluene	1.145	1.099	0.831
1,2,3-Trichlorobenzene	0.760	0.735	0.692
1,2,4-Trichlorobenzene	0.814	0.822	0.734
1,1,1-Trichloroethane	0.700	0.649	0.616
1,1,2-Trichloroethane	0.463	0.416	0.332
Trichloroethene	0.337	0.339	0.309
Trichlorofluoromethane	0.680	0.619	0.600
Trichlorotrifluoroethane	0.349	0.318	0.327
1,2,3-Trichloropropane	0.227	0.200	
1,2,4-Trimethylbenzene	2.504	2.389	2.167
1,3,5-Trimethylbenzene	2.334	2.304	2.118

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
Vinyl acetate	0.971	0.998	0.991
Vinyl chloride	0.328	0.292	0.254
Xylene(total)	2.151	1.938	
Dibromofluoromethane	0.463	0.440	0.450
1,2-Dichloroethane-d4	0.067	0.060	0.064
Toluene-d8	1.620	1.500	1.322
Bromofluorobenzene	0.902	0.871	0.729

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	-4.61e-003	0.23566186		1.000
Acrolein	AVRG		6.747e-002		14.3
Acrylonitrile	AVRG		0.14433164		10.6
Benzene	LINR	0.00000000	1.00544683		0.998
Bromobenzene	LINR	0.00000000	0.69123933		0.998
Bromochloromethane	AVRG		0.17069138		10.2
Bromodichloromethane	AVRG		0.63946801		11.2
Bromoform	AVRG		0.54805516		10.9
Bromomethane	LINR	0.00000000	0.24563921		1.000
2-Butanone	LINR	0.41915149	0.24957070		0.995
n-Butylbenzene	LINR	0.00000000	2.17365685		0.999
sec-Butylbenzene	LINR	0.00000000	2.48882522		0.998
tert-Butylbenzene	LINR	0.00000000	1.63049513		0.998
Carbon disulfide	LINR	0.00000000	0.87255271		0.997
Carbon tetrachloride	AVRG		0.68334127		11.3
Chlorobenzene	AVRG		1.45632780		10.2
Chloroethane	LINR	0.00000000	0.17355739		0.995
2-Chloroethyl vinyl ether	LINR	0.00000000	0.18561862		0.996
Chloroform	AVRG		0.81050004		12.0
Chloromethane	LINR	0.00000000	0.27313268		0.998
2-Chlorotoluene	LINR	0.00000000	2.07384278		0.998
4-Chlorotoluene	LINR	0.00000000	2.31801688		0.997
Cyclohexane	LINR	0.00000000	0.46081591		0.998
Dibromochloromethane	AVRG		0.82317985		13.5
1,2-Dibromo-3-chloropropane	LINR	0.00000000	0.15838897		0.998
1,2-Dibromoethane	AVRG		0.54485204		13.3
Dibromomethane	AVRG		0.27704554		5.5
1,2-Dichlorobenzene	AVRG		1.13721308		12.1
1,3-Dichlorobenzene	AVRG		1.25864447		9.4
1,4-Dichlorobenzene	AVRG		1.68385324		11.3
Dichlorodifluoromethane	AVRG		0.32206546		14.2
1,1-Dichloroethane	LINR	0.00000000	0.68088753		0.995
1,2-Dichloroethane	AVRG		0.74924918		8.5
1,1-Dichloroethene	LINR	0.00000000	0.24266118		0.998
cis-1,2-Dichloroethene	LINR	0.00000000	0.26384703		0.998
1,2-Dichloroethene(total)	AVRG		0.28397098		7.1
trans-1,2-Dichloroethene	LINR	0.00000000	0.28687735		0.997

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloropropane	AVRG		0.29982630		9.6
1,3-Dichloropropane	AVRG		0.91205672		11.1
2,2-Dichloropropane	AVRG		0.54636477		6.3
1,1-Dichloropropene	LINR	0.00000000	0.45299022		0.998
cis-1,3-Dichloropropene	LINR	0.00000000	0.56087937		0.999
trans-1,3-Dichloropropene	LINR	0.00000000	0.98254831		0.998
Ethylbenzene	2ORDR	0.00000000	0.27033278	2.877e-002	0.998
Ethyl methacrylate	LINR	0.00000000	0.72152261		0.997
Hexachlorobutadiene	LINR	0.00000000	0.33236598		0.995
2-Hexanone	LINR	0.00000000	0.56568021		0.997
Iodomethane	AVRG		0.46455836		13.9
Isopropylbenzene	LINR	0.00000000	2.09505514		0.999
p-Isopropyltoluene	AVRG		2.11035596		7.9
Methyl acetate	LINR	0.00000000	0.31405978		0.998
Methyl cyclohexane	LINR	0.00000000	0.36587481		0.997
Methylene chloride	LINR	-0.2023059	0.31423700		0.995
Methyl methacrylate	LINR	0.00000000	0.31761976		0.999
MTBE	AVRG		0.78196996		8.5
4-Methyl-2-pentanone	LINR	0.00000000	0.44057598		0.999
Naphthalene	LINR	0.00000000	1.80625017		0.999
n-Propylbenzene	LINR	0.00000000	3.05522089		0.995
Styrene	LINR	0.00000000	1.29870171		0.998
1,1,1,2-Tetrachloroethane	AVRG		0.68668633		11.6
1,1,2,2-Tetrachloroethane	AVRG		0.87034796		4.9
Tetrachloroethene	AVRG		0.45850502		13.1
Tetrahydrofuran	LINR	0.40350416	9.355e-002		0.996
Toluene	AVRG		1.09550634		12.1
1,2,3-Trichlorobenzene	AVRG		0.66442070		10.0
1,2,4-Trichlorobenzene	AVRG		0.70609259		12.5
1,1,1-Trichloroethane	AVRG		0.69094618		5.7
1,1,2-Trichloroethane	AVRG		0.43963304		12.1
Trichloroethene	LINR	0.00000000	0.31609803		0.997
Trichlorofluoromethane	LINR	0.00000000	0.60939400		0.998
Trichlorotrifluoroethane	LINR	0.00000000	0.32693794		0.999
1,2,3-Trichloropropane	AVRG		0.22431191		13.4
1,2,4-Trimethylbenzene	LINR	0.00000000	2.23132065		0.996
1,3,5-Trimethylbenzene	LINR	0.00000000	2.16805570		0.998

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Vinyl acetate	AVRG		0.85999328		14.1
Vinyl chloride	2ORDR	0.00000000	2.66848375	0.75638950	1.000
Xylene(total)	LINR	0.00000000	1.99695582		0.996
Dibromofluoromethane	AVRG		0.48247679		7.1
1,2-Dichloroethane-d4	AVRG		6.92e-002		11.1
Toluene-d8	AVRG		1.71043862		12.4
Bromofluorobenzene	AVRG		0.92135792		12.9

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD08.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD08.D
Lab Smp Id: V5STD200PPB Client Smp ID: V5STD200PPB
Inj Date : 10-JUL-2006 15:17 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5STD200PPB;;;;;
Misc Info : ;1;;;8;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	13.099	13.099	(1.000)	579239	30.0000	
1 Dichlorodifluoromethane	85	3.619	3.619	(0.276)	1109012	200.000	178.3
2 Chloromethane	50	3.856	3.856	(0.294)	1040514	200.000	197.3
4 Vinyl chloride	62	4.083	4.083	(0.312)	979090	200.000	200.1
7 Bromomethane	94	4.616	4.616	(0.352)	941769	200.000	198.6
8 Chloroethane	64	4.803	4.803	(0.367)	650304	200.000	194.1
11 Trichlorofluoromethane	101	5.632	5.632	(0.430)	2318683	200.000	197.1
25 Trichlorotrifluoroethane	101	6.914	6.914	(0.528)	1263669	200.000	200.2(A)
10 Acrolein	56	5.592	5.592	(0.427)	1117911	1000.00	858.1
21 1,1-Dichloroethene	96	6.510	6.510	(0.497)	920986	200.000	196.6
14 Acetone	43	5.800	5.800	(0.443)	1832368	400.000	402.6
22 Iodomethane	142	6.549	6.549	(0.500)	1778974	200.000	198.3
28 Carbon disulfide	76	7.151	7.151	(0.546)	3280369	200.000	194.7
24 Methylene chloride	84	6.786	6.786	(0.518)	1213304	200.000	193.9
23 Acrylonitrile	53	6.599	6.599	(0.504)	2394824	1000.00	859.4
31 trans-1,2-Dichloroethene	96	8.147	8.147	(0.622)	1086909	200.000	196.2

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD08.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.512	8.512	(0.650)	3452751	200.000	228.7
	33 1,1-Dichloroethane	63	8.759	8.759	(0.669)	2538763	200.000	193.1
	36 Vinyl acetate	43	9.163	9.163	(0.700)	7657208	400.000	461.1
	44 cis-1,2-Dichloroethene	96	10.347	10.347	(0.790)	1008125	200.000	197.9
M	29 1,2-Dichloroethene(total)	96				2095034	400.000	382.1
	42 2-Butanone	43	9.992	9.992	(0.763)	1905271	400.000	408.0
	46 Bromochloromethane	128	10.692	10.692	(0.816)	619585	200.000	188.0
	51 Tetrahydrofuran	42	11.521	11.521	(0.880)	343407	200.000	202.2
	47 Chloroform	83	10.831	10.831	(0.827)	2626871	200.000	167.9
	26 Methyl acetate	43	6.875	6.875	(0.525)	1200438	200.000	198.0
$	49 Dibromofluoromethane	111	11.067	11.067	(0.845)	260369	30.0000	27.95
	54 1,1,1-Trichloroethane	97	12.192	12.192	(0.931)	2377850	200.000	178.2
	56 Cyclohexane	56	12.626	12.626	(0.964)	1800049	200.000	202.3
	57 Carbon tetrachloride	117	12.725	12.725	(0.971)	2201223	200.000	166.8
$	52 1,2-Dichloroethane-d4	102	11.896	11.896	(0.908)	37210	30.0000	27.85
	58 Benzene	78	12.764	12.764	(0.974)	3792378	200.000	195.4
	53 1,2-Dichloroethane	62	12.024	12.024	(0.918)	2586167	200.000	178.8
	48 2,2-Dichloropropane	77	10.988	10.988	(0.839)	2196153	200.000	208.2
	55 1,1-Dichloropropene	75	12.508	12.508	(0.955)	1753703	200.000	200.5
	63 Trichloroethene	95	13.652	13.652	(1.042)	1191827	200.000	195.3
	62 1,2-Dichloropropane	63	13.583	13.583	(1.037)	1169012	200.000	201.9
	61 Dibromomethane	93	13.524	13.524	(1.032)	1019253	200.000	190.5
	66 Methyl methacrylate	41	14.264	14.264	(1.089)	1230283	200.000	200.6
	64 Bromodichloromethane	83	13.691	13.691	(1.045)	2076325	200.000	168.2
	67 2-Chloroethyl vinyl ether	63	14.244	14.244	(1.087)	1443503	400.000	402.8
	71 cis-1,3-Dichloropropene	75	14.461	14.461	(1.104)	2146403	200.000	198.2
	72 4-Methyl-2-pentanone	43	14.609	14.609	(1.115)	3431979	400.000	403.4
$	76 Toluene-d8	98	15.171	15.171	(0.923)	557444	30.0000	23.18
	78 Toluene	92	15.230	15.230	(0.926)	2337886	200.000	151.8
	73 trans-1,3-Dichloropropene	75	14.915	14.915	(0.907)	2278861	200.000	165.0
	80 Ethyl methacrylate	69	15.359	15.359	(0.934)	1739966	200.000	171.5
	75 1,1,2-Trichloroethane	83	15.063	15.063	(0.916)	934179	200.000	151.1
	84 Tetrachloroethene	166	15.911	15.911	(0.968)	1103122	200.000	171.1
	81 2-Hexanone	43	15.457	15.457	(0.940)	2803589	400.000	352.5
	82 Dibromochloromethane	129	15.526	15.526	(0.944)	1694690	200.000	146.4
	83 1,2-Dibromoethane	107	15.743	15.743	(0.957)	1330375	200.000	173.7
	69 Methyl cyclohexane	83	14.264	14.264	(1.089)	1443073	200.000	204.3
*	86 Chlorobenzene-d5	82	16.444	16.444	(1.000)	421807	30.0000	
	87 Chlorobenzene	112	16.463	16.463	(1.001)	2716501	200.000	132.7
	85 1,1,1,2-Tetrachloroethane	131	16.414	16.414	(0.998)	1285640	200.000	133.2
	88 Ethylbenzene	91	16.621	16.621	(1.011)	4713285	200.000	198.4
	89 m,p-Xylene	91	16.759	16.759	(1.019)	7624155	400.000	395.4
M	100 Xylene(total)	91				11821182	200.000	421.0
	93 o-Xylene	91	17.065	17.065	(1.038)	4197027	200.000	198.3
	91 Styrene	104	17.006	17.006	(1.034)	2873116	200.000	157.3
	90 Bromoform	173	16.858	16.858	(1.025)	1247675	200.000	161.9
	96 Isopropylbenzene	105	17.322	17.322	(1.053)	4511182	200.000	153.1

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD08.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.351	17.351	(1.055)	307360	30.0000	23.73
	92 1,1,2,2-Tetrachloroethane	83	17.075	17.075	(0.935)	1537548	200.000	185.9
	79 1,3-Dichloropropane	76	15.299	15.299	(0.930)	2024561	200.000	157.9
	94 1,2,3-Trichloropropane	110	17.174	17.174	(1.044)	470387	200.000	149.1
	101 n-Propylbenzene	91	17.627	17.627	(0.965)	5615293	200.000	193.4
	106 1,3,5-Trimethylbenzene	105	17.805	17.805	(0.975)	4025573	200.000	195.4
	104 1,2,4-Trimethylbenzene	105	18.081	18.081	(0.990)	4118144	200.000	194.2
	107 sec-Butylbenzene	105	18.160	18.160	(0.995)	4616396	200.000	195.2
	105 tert-Butylbenzene	119	18.012	18.012	(0.986)	3037026	200.000	196.0
	108 1,3-Dichlorobenzene	146	18.229	18.229	(0.998)	2321376	200.000	194.1
*	110 1,4-Dichlorobenzene-d4	152	18.259	18.259	(1.000)	285027	30.0000	
	111 1,4-Dichlorobenzene	146	18.279	18.279	(1.001)	2616264	200.000	163.5
	114 n-Butylbenzene	91	18.545	18.545	(1.016)	3684121	200.000	178.4
	113 1,2-Dichlorobenzene	146	18.525	18.525	(1.015)	2240230	200.000	207.3
	115 1,2-Dibromo-3-chloropropane	157	18.851	18.851	(1.032)	311448	200.000	207.0
	98 Bromobenzene	156	17.509	17.509	(0.959)	1285506	200.000	195.7
	102 2-Chlorotoluene	91	17.706	17.706	(0.970)	3849242	200.000	195.4
	103 4-Chlorotoluene	91	17.756	17.756	(0.972)	4331034	200.000	196.6
	116 1,2,4-Trichlorobenzene	180	19.837	19.837	(1.086)	1394491	200.000	207.9
	117 Naphthalene	128	20.044	20.044	(1.098)	3406745	200.000	198.5
	112 p-Isopropyltoluene	119	18.269	18.269	(1.001)	3821982	200.000	190.6
	118 Hexachlorobutadiene	225	20.064	20.064	(1.099)	610850	200.000	193.4
	119 1,2,3-Trichlorobenzene	180	20.222	20.222	(1.108)	1315768	200.000	208.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD08.D
Date : 10-JUL-2006 15:17
Client ID: V5STD200PPB
Instrument: voa5.i
Sample Info: V5STD200PPB;;;;;
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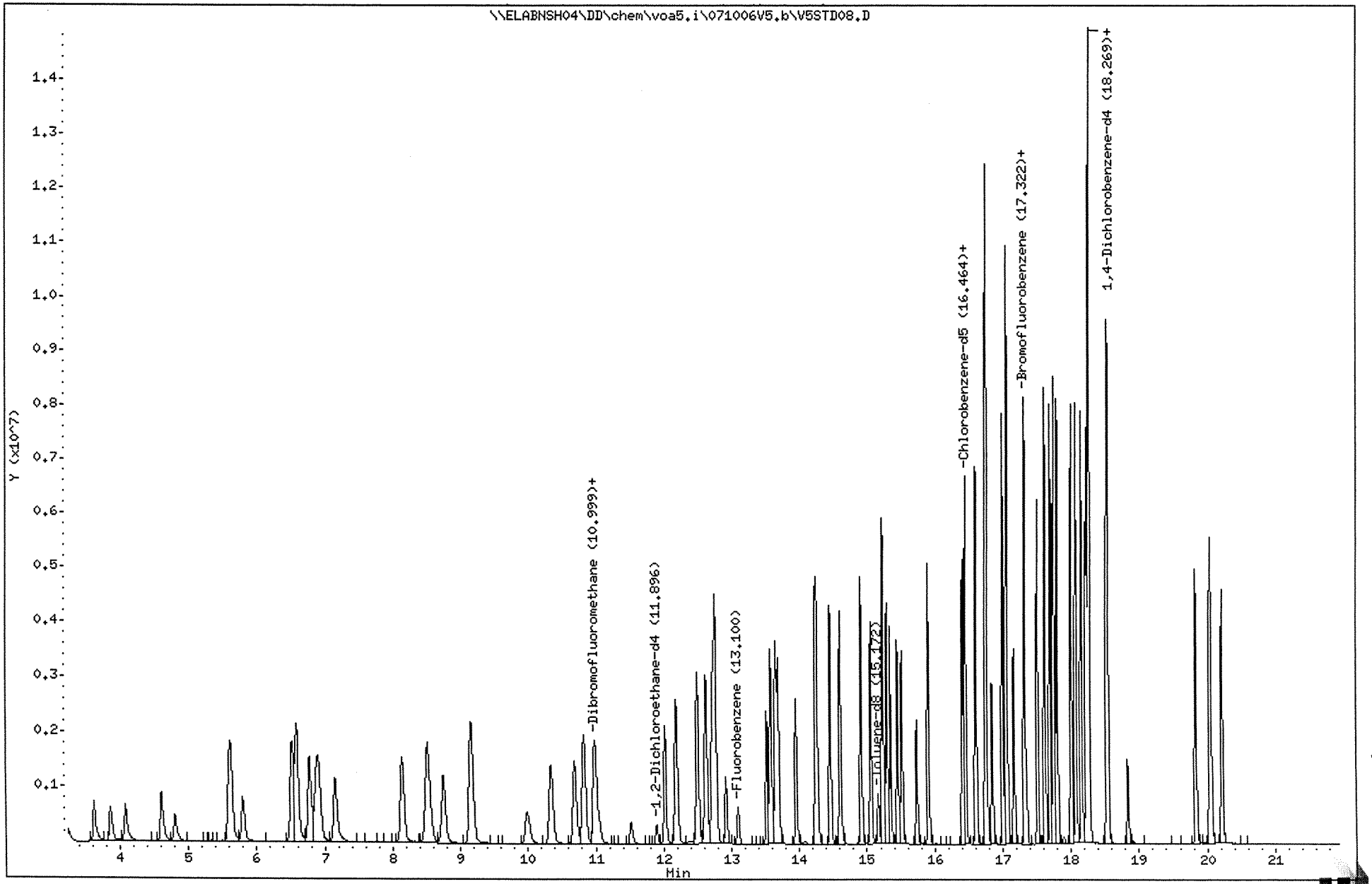
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000035



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
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Inj Date : 10-JUL-2006 15:46 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5STD100PPB;;;;;
Misc Info : ;1;;;7;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.098	13.098	(1.000)	583320	30.0000	
1 Dichlorodifluoromethane	85	3.627	3.627	(0.277)	545963	100.000	87.18
2 Chloromethane	50	3.864	3.864	(0.295)	537529	100.000	101.2
4 Vinyl chloride	62	4.091	4.091	(0.312)	567627	100.000	99.39
7 Bromomethane	94	4.614	4.614	(0.352)	483264	100.000	101.2
8 Chloroethane	64	4.811	4.811	(0.367)	354878	100.000	105.2
11 Trichlorofluoromethane	101	5.630	5.630	(0.430)	1203589	100.000	101.6
25 Trichlorotrifluoroethane	101	6.912	6.912	(0.528)	618644	100.000	97.32(A)
10 Acrolein	56	5.600	5.600	(0.428)	565449	500.000	431.0
21 1,1-Dichloroethene	96	6.518	6.518	(0.498)	484312	100.000	102.6
14 Acetone	43	5.798	5.798	(0.443)	895335	200.000	195.2
22 Iodomethane	142	6.557	6.557	(0.501)	1012810	100.000	112.1
28 Carbon disulfide	76	7.159	7.159	(0.547)	1794938	100.000	105.8
24 Methylene chloride	84	6.784	6.784	(0.518)	697288	100.000	108.0
23 Acrylonitrile	53	6.597	6.597	(0.504)	1236084	500.000	440.4
31 trans-1,2-Dichloroethene	96	8.155	8.155	(0.623)	570300	100.000	102.2

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.520	8.520	(0.651)	1565656	100.000	103.0
	33 1,1-Dichloroethane	63	8.757	8.757	(0.669)	1443985	100.000	109.1
	36 Vinyl acetate	43	9.171	9.171	(0.700)	3882881	200.000	232.2
	44 cis-1,2-Dichloroethene	96	10.345	10.345	(0.790)	539007	100.000	105.1
M	29 1,2-Dichloroethene(total)	96				1109307	200.000	200.9
	42 2-Butanone	43	10.000	10.000	(0.764)	848722	200.000	187.5
	46 Bromochloromethane	128	10.691	10.691	(0.816)	324190	100.000	97.68
	51 Tetrahydrofuran	42	11.529	11.529	(0.880)	154308	100.000	96.93
	47 Chloroform	83	10.829	10.829	(0.827)	1458923	100.000	92.57
	26 Methyl acetate	43	6.873	6.873	(0.525)	611723	100.000	100.2
$	49 Dibromofluoromethane	111	11.065	11.065	(0.845)	256663	30.0000	27.36
	54 1,1,1-Trichloroethane	97	12.200	12.200	(0.931)	1262660	100.000	93.98
	56 Cyclohexane	56	12.624	12.624	(0.964)	870100	100.000	97.11
	57 Carbon tetrachloride	117	12.733	12.733	(0.972)	1182736	100.000	89.02
$	52 1,2-Dichloroethane-d4	102	11.894	11.894	(0.908)	34795	30.0000	25.86
	58 Benzene	78	12.762	12.762	(0.974)	2077588	100.000	106.3
	53 1,2-Dichloroethane	62	12.022	12.022	(0.918)	1383936	100.000	95.00
	48 2,2-Dichloropropane	77	10.996	10.996	(0.840)	1102142	100.000	103.7
	55 1,1-Dichloropropene	75	12.506	12.506	(0.955)	878212	100.000	99.71
	63 Trichloroethene	95	13.660	13.660	(1.043)	658693	100.000	107.2
	62 1,2-Dichloropropane	63	13.581	13.581	(1.037)	645084	100.000	110.6
	61 Dibromomethane	93	13.522	13.522	(1.032)	546606	100.000	101.5
	66 Methyl methacrylate	41	14.262	14.262	(1.089)	601593	100.000	97.41
	64 Bromodichloromethane	83	13.689	13.689	(1.045)	1150807	100.000	92.55
	67 2-Chloroethyl vinyl ether	63	14.242	14.242	(1.087)	721908	200.000	200.0
	71 cis-1,3-Dichloropropene	75	14.469	14.469	(1.105)	1125908	100.000	103.2
	72 4-Methyl-2-pentanone	43	14.607	14.607	(1.115)	1673471	200.000	195.3
$	76 Toluene-d8	98	15.169	15.169	(0.923)	538828	30.0000	26.31
	78 Toluene	92	15.238	15.238	(0.927)	1315432	100.000	100.3
	73 trans-1,3-Dichloropropene	75	14.913	14.913	(0.907)	1166769	100.000	99.19
	80 Ethyl methacrylate	69	15.357	15.357	(0.934)	875004	100.000	101.3
	75 1,1,2-Trichloroethane	83	15.061	15.061	(0.916)	498710	100.000	94.75
	84 Tetrachloroethene	166	15.909	15.909	(0.968)	579592	100.000	105.6
	81 2-Hexanone	43	15.465	15.465	(0.941)	1341556	200.000	198.1
	82 Dibromochloromethane	129	15.524	15.524	(0.944)	899916	100.000	91.32
	83 1,2-Dibromoethane	107	15.741	15.741	(0.957)	716634	100.000	109.9
	69 Methyl cyclohexane	83	14.262	14.262	(1.089)	658535	100.000	92.57
*	86 Chlorobenzene-d5	82	16.442	16.442	(1.000)	359156	30.0000	
	87 Chlorobenzene	112	16.461	16.461	(1.001)	1456239	100.000	83.52
	85 1,1,1,2-Tetrachloroethane	131	16.412	16.412	(0.998)	669893	100.000	81.49
	88 Ethylbenzene	91	16.619	16.619	(1.011)	2604375	100.000	104.2
	89 m,p-Xylene	91	16.767	16.767	(1.020)	4328049	200.000	212.5
M	100 Xylene(total)	91				6648125	100.000	278.1
	93 o-Xylene	91	17.063	17.063	(1.038)	2320076	100.000	105.1
	91 Styrene	104	17.004	17.004	(1.034)	1542053	100.000	99.18
	90 Bromoform	173	16.856	16.856	(1.025)	616639	100.000	93.98
	96 Isopropylbenzene	105	17.320	17.320	(1.053)	2483194	100.000	99.00

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
$ 97	Bromofluorobenzene	95	17.359	17.359	(1.056)	312725	30.0000	28.35
92	1,1,2,2-Tetrachloroethane	83	17.073	17.073	(0.935)	791122	100.000	97.29
79	1,3-Dichloropropane	76	15.297	15.297	(0.930)	1022011	100.000	93.60
94	1,2,3-Trichloropropane	110	17.172	17.172	(1.044)	239353	100.000	89.13
101	n-Propylbenzene	91	17.625	17.625	(0.965)	3064529	100.000	107.4
106	1,3,5-Trimethylbenzene	105	17.813	17.813	(0.976)	2152263	100.000	106.2
104	1,2,4-Trimethylbenzene	105	18.079	18.079	(0.990)	2231888	100.000	107.1
107	sec-Butylbenzene	105	18.158	18.158	(0.995)	2490729	100.000	107.1
105	tert-Butylbenzene	119	18.010	18.010	(0.986)	1639857	100.000	107.6
108	1,3-Dichlorobenzene	146	18.227	18.227	(0.998)	1226824	100.000	104.3
* 110	1,4-Dichlorobenzene-d4	152	18.257	18.257	(1.000)	280282	30.0000	
111	1,4-Dichlorobenzene	146	18.277	18.277	(1.001)	1340027	100.000	85.18
114	n-Butylbenzene	91	18.543	18.543	(1.016)	2028458	100.000	99.88
113	1,2-Dichlorobenzene	146	18.523	18.523	(1.015)	1175090	100.000	110.6
115	1,2-Dibromo-3-chloropropane	157	18.849	18.849	(1.032)	149719	100.000	101.2
98	Bromobenzene	156	17.517	17.517	(0.959)	678505	100.000	105.1
102	2-Chlorotoluene	91	17.704	17.704	(0.970)	2041211	100.000	105.4
103	4-Chlorotoluene	91	17.754	17.754	(0.972)	2187569	100.000	101.0(M)
116	1,2,4-Trichlorobenzene	180	19.845	19.845	(1.087)	768206	100.000	116.4
117	Naphthalene	128	20.042	20.042	(1.098)	1745118	100.000	103.4
112	p-Isopropyltoluene	119	18.267	18.267	(1.001)	2146532	100.000	108.9
118	Hexachlorobutadiene	225	20.062	20.062	(1.099)	336293	100.000	108.3
119	1,2,3-Trichlorobenzene	180	20.220	20.220	(1.108)	686732	100.000	110.6

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
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Column phase: DB-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25

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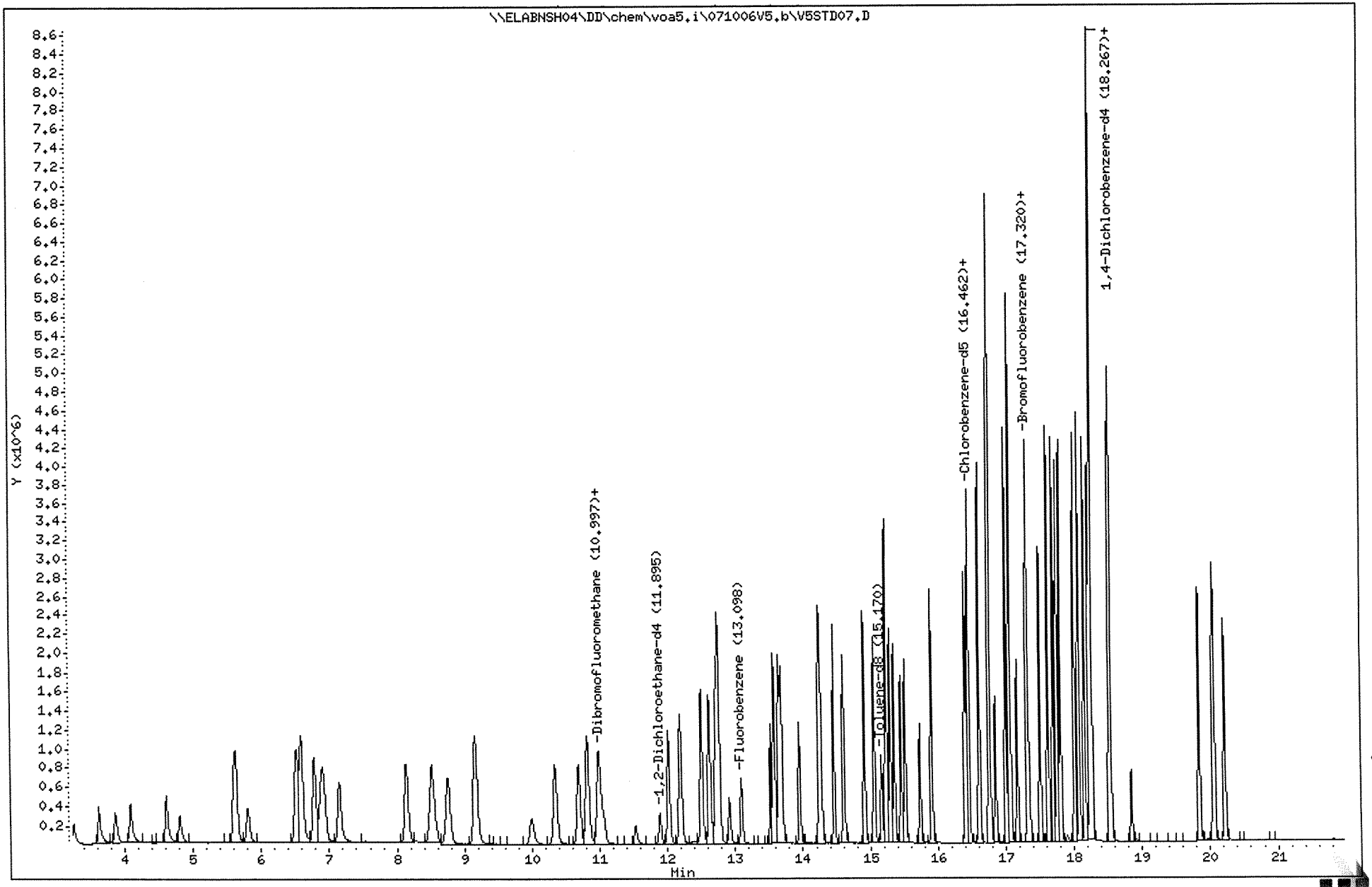
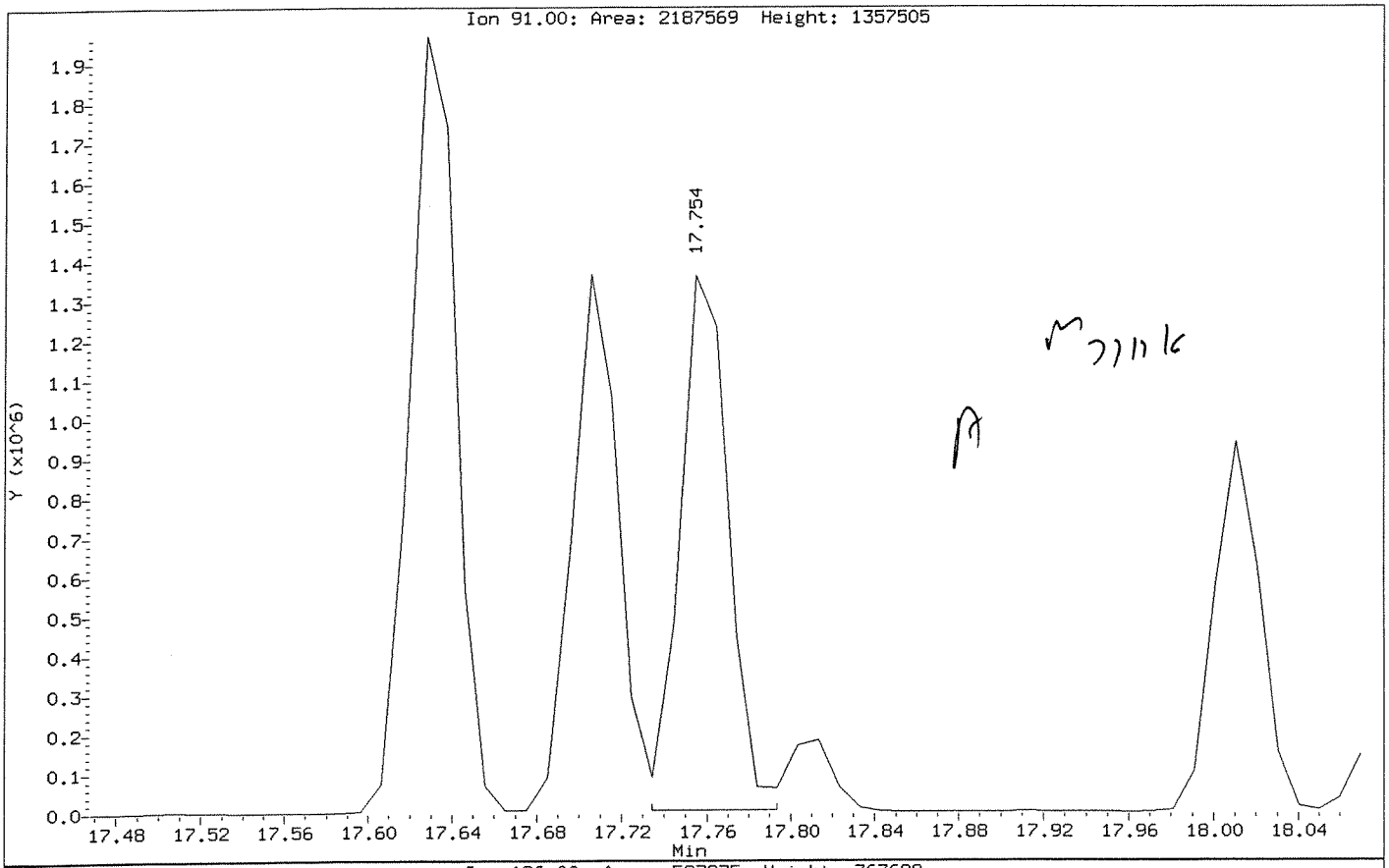
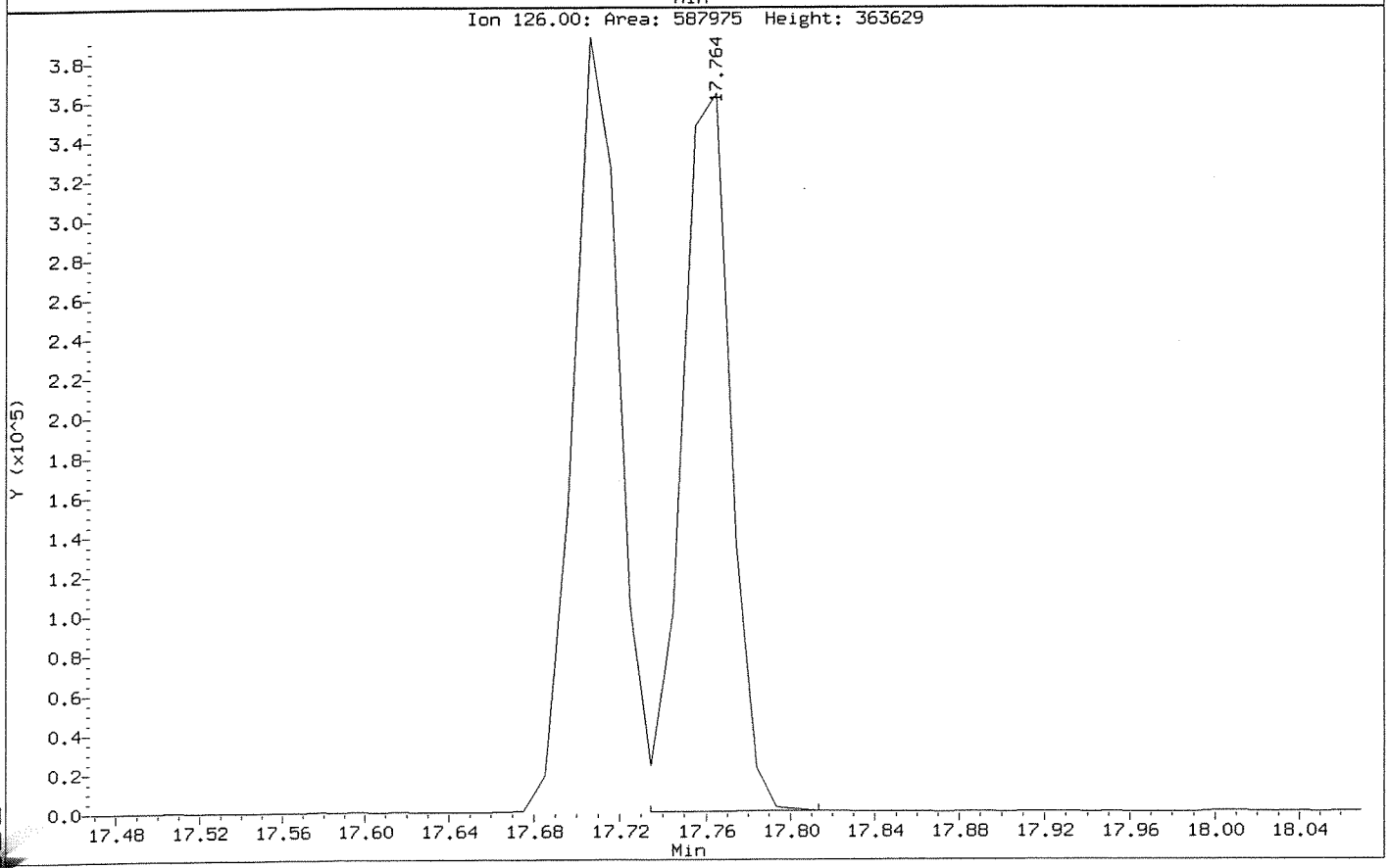


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD07.D
Injection Date: 10-JUL-2006 15:46
Instrument: voa5.i
Client Sample ID: V5STD100PPB

Compound: 4-Chlorotoluene
CAS Number: 106-43-4





Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD06.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD06.D
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Inj Date : 10-JUL-2006 16:15 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5STD50PPB;;;;;
Misc Info : ;1;;;6;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.097	13.097	(1.000)	552383	30.0000	
1 Dichlorodifluoromethane	85	3.627	3.627	(0.277)	268443	50.0000	45.27
2 Chloromethane	50	3.863	3.863	(0.295)	271944	50.0000	54.07
4 Vinyl chloride	62	4.090	4.090	(0.312)	301742	50.0000	50.50
7 Bromomethane	94	4.623	4.623	(0.353)	238273	50.0000	52.68
8 Chloroethane	64	4.810	4.810	(0.367)	186136	50.0000	58.25
11 Trichlorofluoromethane	101	5.639	5.639	(0.431)	625600	50.0000	55.75
25 Trichlorotrifluoroethane	101	6.921	6.921	(0.528)	321276	50.0000	53.37(A)
10 Acrolein	56	5.599	5.599	(0.428)	302113	250.000	243.2
21 1,1-Dichloroethene	96	6.517	6.517	(0.498)	249046	50.0000	55.74
14 Acetone	43	5.807	5.807	(0.443)	431804	100.000	99.37
22 Iodomethane	142	6.556	6.556	(0.501)	502426	50.0000	58.74
28 Carbon disulfide	76	7.158	7.158	(0.547)	888632	50.0000	55.31
24 Methylene chloride	84	6.783	6.783	(0.518)	356736	50.0000	55.59
23 Acrylonitrile	53	6.596	6.596	(0.504)	656455	250.000	247.0
31 trans-1,2-Dichloroethene	96	8.154	8.154	(0.623)	303805	50.0000	57.51

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD06.D
Report Date: 11-Jul-2006 10:44

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	32 MTBE	73	8.529	8.529	(0.651)	749359	50.0000	52.04
	33 1,1-Dichloroethane	63	8.756	8.756	(0.669)	686154	50.0000	54.73
	36 Vinyl acetate	43	9.171	9.171	(0.700)	1787862	100.000	112.9
	44 cis-1,2-Dichloroethene	96	10.354	10.354	(0.791)	241950	50.0000	49.80
M	29 1,2-Dichloroethene(total)	96				545755	100.000	104.4
	42 2-Butanone	43	10.009	10.009	(0.764)	350528	100.000	88.85
	46 Bromochloromethane	128	10.690	10.690	(0.816)	162325	50.0000	51.65
	51 Tetrahydrofuran	42	11.538	11.538	(0.881)	54785	50.0000	43.91
	47 Chloroform	83	10.828	10.828	(0.827)	720437	50.0000	48.28
	26 Methyl acetate	43	6.882	6.882	(0.525)	317060	50.0000	54.83
$	49 Dibromofluoromethane	111	11.065	11.065	(0.845)	255722	30.0000	28.78
	54 1,1,1-Trichloroethane	97	12.199	12.199	(0.931)	644236	50.0000	50.64
	56 Cyclohexane	56	12.633	12.633	(0.965)	409345	50.0000	48.24
	57 Carbon tetrachloride	117	12.732	12.732	(0.972)	601413	50.0000	47.80
$	52 1,2-Dichloroethane-d4	102	11.893	11.893	(0.908)	37015	30.0000	29.05
	58 Benzene	78	12.771	12.771	(0.975)	1007604	50.0000	54.43
	53 1,2-Dichloroethane	62	12.021	12.021	(0.918)	689582	50.0000	49.98
	48 2,2-Dichloropropane	77	10.996	10.996	(0.840)	550763	50.0000	54.75
	55 1,1-Dichloropropene	75	12.505	12.505	(0.955)	423710	50.0000	50.80
	63 Trichloroethene	95	13.659	13.659	(1.043)	310605	50.0000	53.37
	62 1,2-Dichloropropane	63	13.580	13.580	(1.037)	315181	50.0000	57.09
	61 Dibromomethane	93	13.521	13.521	(1.032)	257914	50.0000	50.56
	66 Methyl methacrylate	41	14.271	14.271	(1.090)	311459	50.0000	53.26
	64 Bromodichloromethane	83	13.689	13.689	(1.045)	580344	50.0000	49.29
	67 2-Chloroethyl vinyl ether	63	14.241	14.241	(1.087)	318212	100.000	93.10
	71 cis-1,3-Dichloropropene	75	14.468	14.468	(1.105)	538081	50.0000	52.10
	72 4-Methyl-2-pentanone	43	14.616	14.616	(1.116)	800543	100.000	98.68
$	76 Toluene-d8	98	15.168	15.168	(0.923)	528329	30.0000	28.42
	78 Toluene	92	15.237	15.237	(0.927)	622250	50.0000	52.27
	73 trans-1,3-Dichloropropene	75	14.922	14.922	(0.908)	562246	50.0000	52.66
	80 Ethyl methacrylate	69	15.356	15.356	(0.934)	382849	50.0000	48.83
	75 1,1,2-Trichloroethane	83	15.060	15.060	(0.916)	251493	50.0000	52.64
	84 Tetrachloroethene	166	15.908	15.908	(0.968)	269895	50.0000	54.17
	81 2-Hexanone	43	15.464	15.464	(0.941)	651676	100.000	106.0
	82 Dibromochloromethane	129	15.523	15.523	(0.944)	454489	50.0000	50.80
	83 1,2-Dibromoethane	107	15.740	15.740	(0.957)	337962	50.0000	57.08
	69 Methyl cyclohexane	83	14.271	14.271	(1.090)	321302	50.0000	47.69
*	86 Chlorobenzene-d5	82	16.441	16.441	(1.000)	326019	30.0000	
	87 Chlorobenzene	112	16.470	16.470	(1.002)	720516	50.0000	45.53
	85 1,1,1,2-Tetrachloroethane	131	16.411	16.411	(0.998)	343040	50.0000	45.97
	88 Ethylbenzene	91	16.618	16.618	(1.011)	1378622	50.0000	49.73
	89 m,p-Xylene	91	16.766	16.766	(1.020)	2217054	100.000	94.83
M	100 Xylene(total)	91				3385809	50.0000	156.0
	93 o-Xylene	91	17.062	17.062	(1.038)	1168755	50.0000	47.49
	91 Styrene	104	17.003	17.003	(1.034)	740449	50.0000	52.46
	90 Bromoform	173	16.855	16.855	(1.025)	300176	50.0000	50.40
	96 Isopropylbenzene	105	17.329	17.329	(1.054)	1184796	50.0000	52.04

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD06.D
Report Date: 11-Jul-2006 10:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 97 Bromofluorobenzene	95	17.358	17.358	(1.056)	293956	30.0000	29.36
92 1,1,2,2-Tetrachloroethane	83	17.072	17.072	(0.935)	396220	50.0000	50.36
79 1,3-Dichloropropane	76	15.297	15.297	(0.930)	514106	50.0000	51.87
94 1,2,3-Trichloropropane	110	17.171	17.171	(1.044)	123479	50.0000	50.65
101 n-Propylbenzene	91	17.625	17.625	(0.965)	1598903	50.0000	57.89
106 1,3,5-Trimethylbenzene	105	17.812	17.812	(0.976)	1055152	50.0000	53.84
104 1,2,4-Trimethylbenzene	105	18.078	18.078	(0.990)	1131775	50.0000	56.11
107 sec-Butylbenzene	105	18.157	18.157	(0.995)	1195375	50.0000	53.13
105 tert-Butylbenzene	119	18.009	18.009	(0.986)	730480	50.0000	49.56
108 1,3-Dichlorobenzene	146	18.236	18.236	(0.999)	660960	50.0000	58.09
* 110 1,4-Dichlorobenzene-d4	152	18.256	18.256	(1.000)	271188	30.0000	
111 1,4-Dichlorobenzene	146	18.276	18.276	(1.001)	769412	50.0000	50.55
114 n-Butylbenzene	91	18.542	18.542	(1.016)	996902	50.0000	50.74
113 1,2-Dichlorobenzene	146	18.532	18.532	(1.015)	568820	50.0000	55.33
115 1,2-Dibromo-3-chloropropane	157	18.848	18.848	(1.032)	70147	50.0000	48.99
98 Bromobenzene	156	17.516	17.516	(0.959)	348098	50.0000	55.71
102 2-Chlorotoluene	91	17.704	17.704	(0.970)	1037653	50.0000	55.35
103 4-Chlorotoluene	91	17.763	17.763	(0.973)	1243970	50.0000	59.37
116 1,2,4-Trichlorobenzene	180	19.844	19.844	(1.087)	367833	50.0000	57.63
117 Naphthalene	128	20.042	20.042	(1.098)	819145	50.0000	50.17
112 p-Isopropyltoluene	119	18.266	18.266	(1.001)	1068836	50.0000	56.03
118 Hexachlorobutadiene	225	20.071	20.071	(1.099)	167553	50.0000	55.77
119 1,2,3-Trichlorobenzene	180	20.229	20.229	(1.108)	343296	50.0000	57.16

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD06.D
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Column diameter: 0.25

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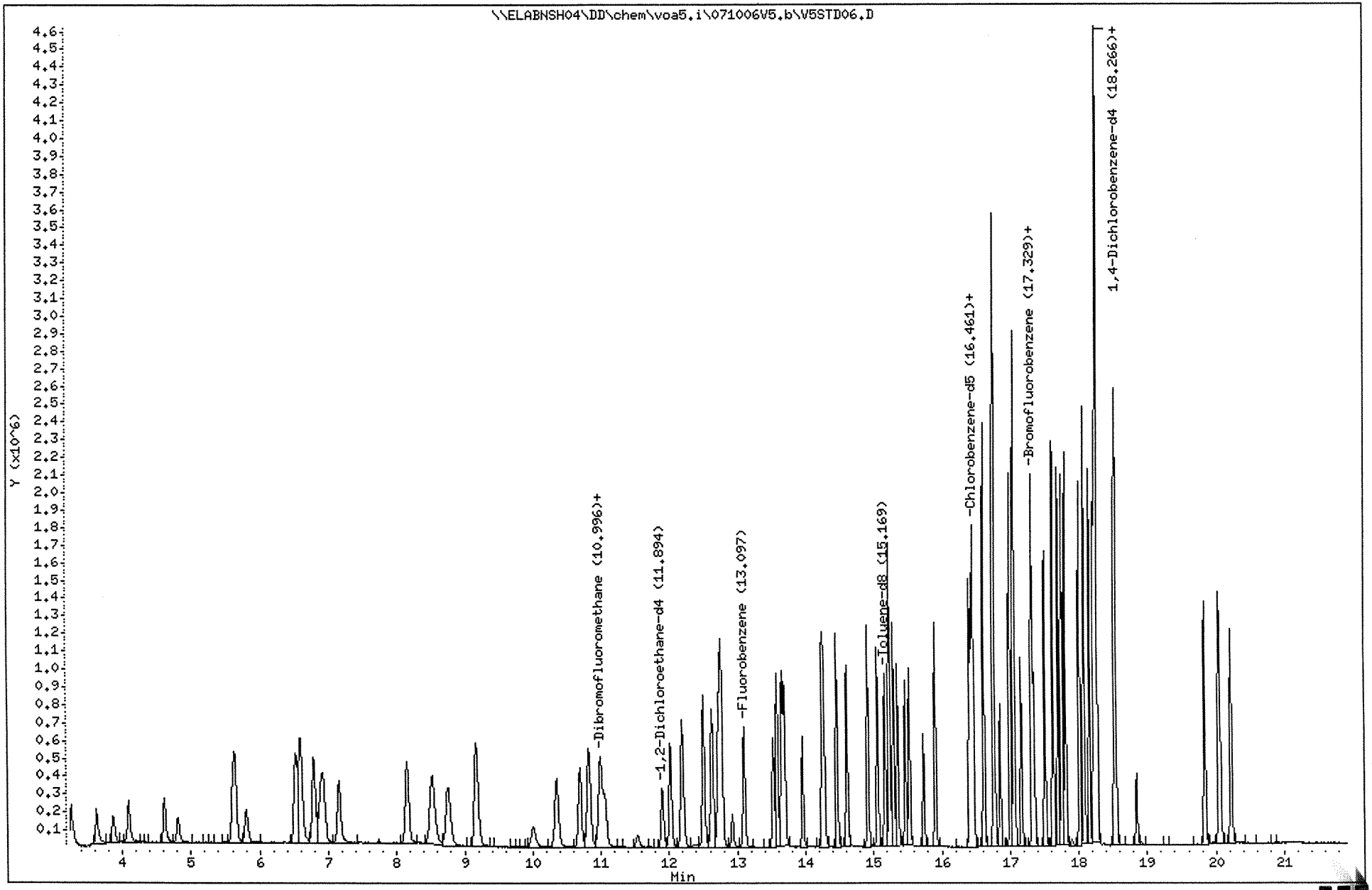

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Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD05.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD05.D
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Operator : ADM Inst ID: voa5.i
Smp Info : V5STD20PPB;;;;;
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Comment :
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Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.096	13.096	(1.000)	529560	30.0000	
1 Dichlorodifluoromethane	85	3.626	3.626	(0.277)	97832	20.0000	17.21
2 Chloromethane	50	3.863	3.863	(0.295)	119981	20.0000	24.88
4 Vinyl chloride	62	4.099	4.099	(0.313)	122909	20.0000	19.80
7 Bromomethane	94	4.622	4.622	(0.353)	88527	20.0000	20.42
8 Chloroethane	64	4.810	4.810	(0.367)	70790	20.0000	23.11
11 Trichlorofluoromethane	101	5.638	5.638	(0.431)	242592	20.0000	22.55
25 Trichlorotrifluoroethane	101	6.921	6.921	(0.528)	119869	20.0000	20.77
10 Acrolein	56	5.599	5.599	(0.428)	117081	100.000	98.31
21 1,1-Dichloroethene	96	6.526	6.526	(0.498)	95162	20.0000	22.22
14 Acetone	43	5.816	5.816	(0.444)	160087	40.0000	38.34
22 Iodomethane	142	6.565	6.565	(0.501)	175675	20.0000	21.42
28 Carbon disulfide	76	7.167	7.167	(0.547)	360978	20.0000	23.44
24 Methylene chloride	84	6.792	6.792	(0.519)	141508	20.0000	19.44
23 Acrylonitrile	53	6.605	6.605	(0.504)	234948	100.000	92.22
31 trans-1,2-Dichloroethene	96	8.154	8.154	(0.623)	110015	20.0000	21.72

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD05.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.529	8.529	(0.651)	247773	20.0000	17.95
	33 1,1-Dichloroethane	63	8.765	8.765	(0.669)	265943	20.0000	22.13
	36 Vinyl acetate	43	9.170	9.170	(0.700)	544458	40.0000	35.86
	44 cis-1,2-Dichloroethene	96	10.354	10.354	(0.791)	66666	20.0000	14.31
M	29 1,2-Dichloroethene(total)	96				176681	40.0000	35.25
	42 2-Butanone	43	10.008	10.008	(0.764)	83954	40.0000	31.63
	46 Bromochloromethane	128	10.699	10.699	(0.817)	54980	20.0000	18.25
	51 Tetrahydrofuran	42	11.527	11.527	(0.880)	14090	20.0000	20.64
	47 Chloroform	83	10.837	10.837	(0.828)	265798	20.0000	18.58
	26 Methyl acetate	43	6.881	6.881	(0.525)	124443	20.0000	22.45
$	49 Dibromofluoromethane	111	11.064	11.064	(0.845)	245896	30.0000	28.87
	54 1,1,1-Trichloroethane	97	12.198	12.198	(0.931)	243607	20.0000	19.97
	56 Cyclohexane	56	12.632	12.632	(0.965)	120185	20.0000	14.78
	57 Carbon tetrachloride	117	12.731	12.731	(0.972)	227341	20.0000	18.85
$	52 1,2-Dichloroethane-d4	102	11.892	11.892	(0.908)	31908	30.0000	26.12
	58 Benzene	78	12.770	12.770	(0.975)	350009	20.0000	19.72
	53 1,2-Dichloroethane	62	12.031	12.031	(0.919)	253229	20.0000	19.15
	48 2,2-Dichloropropane	77	11.005	11.005	(0.840)	180175	20.0000	18.68
	55 1,1-Dichloropropene	75	12.504	12.504	(0.955)	107786	20.0000	13.48
	63 Trichloroethene	95	13.658	13.658	(1.043)	107484	20.0000	19.26
	62 1,2-Dichloropropane	63	13.589	13.589	(1.038)	106872	20.0000	20.19
	61 Dibromomethane	93	13.530	13.530	(1.033)	91329	20.0000	18.68
	66 Methyl methacrylate	41	14.270	14.270	(1.090)	101253	20.0000	18.06
	64 Bromodichloromethane	83	13.698	13.698	(1.046)	224709	20.0000	19.91
	67 2-Chloroethyl vinyl ether	63	14.250	14.250	(1.088)	80310	40.0000	24.51
	71 cis-1,3-Dichloropropene	75	14.467	14.467	(1.105)	156319	20.0000	15.79
	72 4-Methyl-2-pentanone	43	14.615	14.615	(1.116)	247112	40.0000	31.77
$	76 Toluene-d8	98	15.168	15.168	(0.923)	501086	30.0000	30.82
	78 Toluene	92	15.237	15.237	(0.927)	221614	20.0000	21.28
	73 trans-1,3-Dichloropropene	75	14.921	14.921	(0.908)	164651	20.0000	17.63
	80 Ethyl methacrylate	69	15.355	15.355	(0.934)	116275	20.0000	16.96
	75 1,1,2-Trichloroethane	83	15.059	15.059	(0.916)	88786	20.0000	21.25
	84 Tetrachloroethene	166	15.917	15.917	(0.968)	91455	20.0000	20.99
	81 2-Hexanone	43	15.464	15.464	(0.941)	185626	40.0000	34.52
	82 Dibromochloromethane	129	15.523	15.523	(0.944)	168812	20.0000	21.58
	83 1,2-Dibromoethane	107	15.740	15.740	(0.957)	114243	20.0000	22.06
	69 Methyl cyclohexane	83	14.270	14.270	(1.090)	107461	20.0000	16.64
*	86 Chlorobenzene-d5	82	16.440	16.440	(1.000)	285134	30.0000	
	87 Chlorobenzene	112	16.470	16.470	(1.002)	264487	20.0000	19.11
	85 1,1,1,2-Tetrachloroethane	131	16.411	16.411	(0.998)	120404	20.0000	18.45
	88 Ethylbenzene	91	16.618	16.618	(1.011)	438048	20.0000	14.50
	89 m,p-Xylene	91	16.766	16.766	(1.020)	804925	40.0000	31.47
M	100 Xylene(total)	91				1241379	20.0000	65.40
	93 o-Xylene	91	17.062	17.062	(1.038)	436454	20.0000	16.98
	91 Styrene	104	17.012	17.012	(1.035)	226349	20.0000	18.34
	90 Bromoform	173	16.854	16.854	(1.025)	109883	20.0000	21.09
	96 Isopropylbenzene	105	17.328	17.328	(1.054)	398522	20.0000	20.01

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD05.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.358	17.358	(1.056)	294786	30.0000	33.66
	92 1,1,2,2-Tetrachloroethane	83	17.071	17.071	(0.935)	153108	20.0000	20.52
	79 1,3-Dichloropropane	76	15.296	15.296	(0.930)	189909	20.0000	21.91
	94 1,2,3-Trichloropropane	110	17.170	17.170	(1.044)	46547	20.0000	21.83
	101 n-Propylbenzene	91	17.634	17.634	(0.966)	557375	20.0000	21.28
	106 1,3,5-Trimethylbenzene	105	17.811	17.811	(0.976)	396690	20.0000	21.35
	104 1,2,4-Trimethylbenzene	105	18.078	18.078	(0.990)	403306	20.0000	21.09
	107 sec-Butylbenzene	105	18.157	18.157	(0.995)	436092	20.0000	20.44
	105 tert-Butylbenzene	119	18.009	18.009	(0.986)	269483	20.0000	19.28
	108 1,3-Dichlorobenzene	146	18.236	18.236	(0.999)	231402	20.0000	21.45
*	110 1,4-Dichlorobenzene-d4	152	18.255	18.255	(1.000)	257148	30.0000	
	111 1,4-Dichlorobenzene	146	18.275	18.275	(1.001)	287158	20.0000	19.90
	114 n-Butylbenzene	91	18.551	18.551	(1.016)	361495	20.0000	19.40
	113 1,2-Dichlorobenzene	146	18.531	18.531	(1.015)	218582	20.0000	22.42
	115 1,2-Dibromo-3-chloropropane	157	18.847	18.847	(1.032)	22982	20.0000	16.93
	98 Bromobenzene	156	17.515	17.515	(0.959)	116113	20.0000	19.60
	102 2-Chlorotoluene	91	17.713	17.713	(0.970)	387025	20.0000	21.77
	103 4-Chlorotoluene	91	17.762	17.762	(0.973)	401350	20.0000	20.20
	116 1,2,4-Trichlorobenzene	180	19.844	19.844	(1.087)	128696	20.0000	21.26
	117 Naphthalene	128	20.051	20.051	(1.098)	268495	20.0000	17.34
	112 p-Isopropyltoluene	119	18.265	18.265	(1.001)	363498	20.0000	20.09
	118 Hexachlorobutadiene	225	20.070	20.070	(1.099)	62220	20.0000	21.84
	119 1,2,3-Trichlorobenzene	180	20.228	20.228	(1.108)	114428	20.0000	20.09

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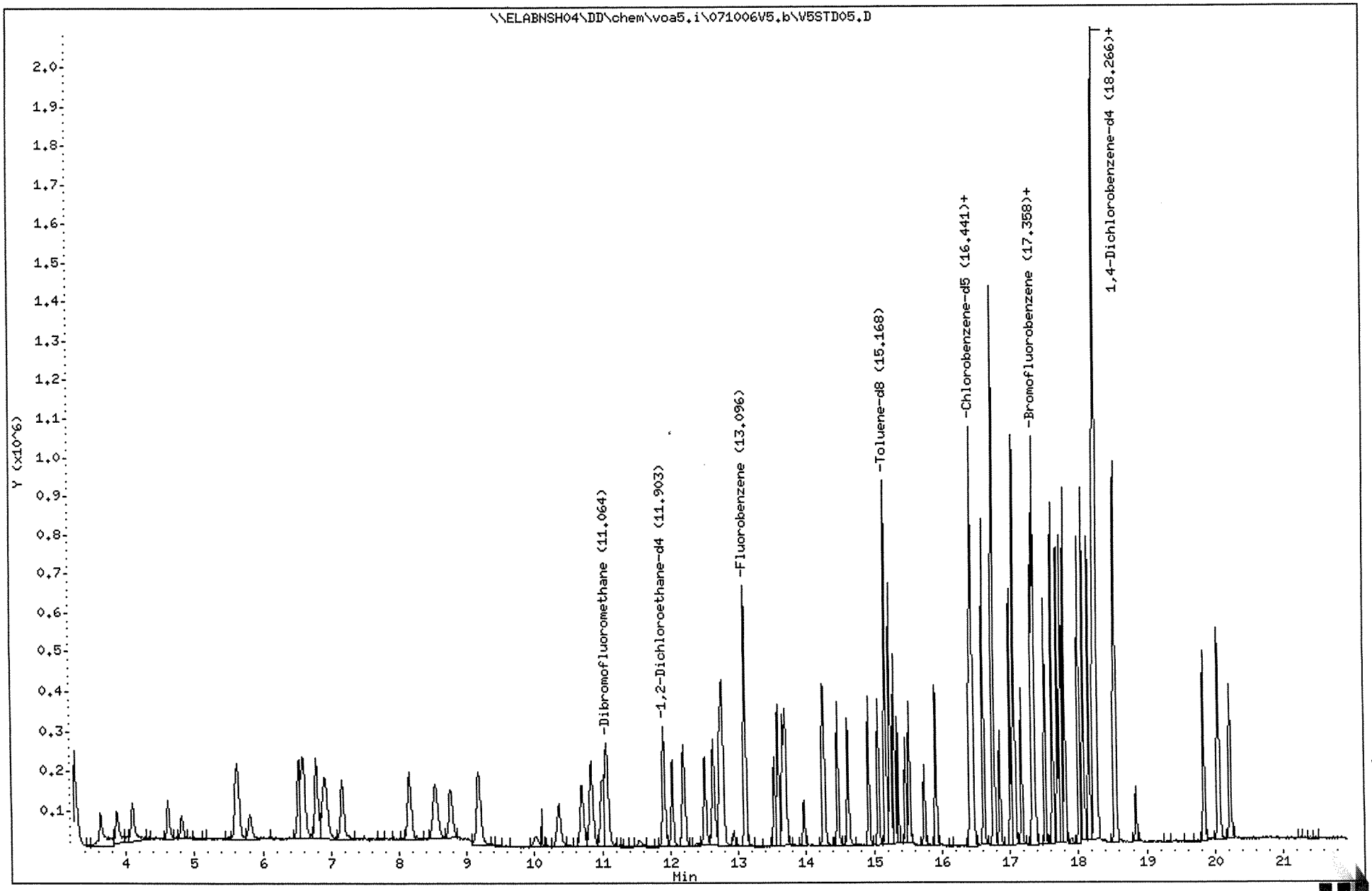

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Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD04.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD04.D
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Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	13.097	13.097	(1.000)	512489	30.0000	
1 Dichlorodifluoromethane	85	3.627	3.627	(0.277)	55804	10.0000	10.14
2 Chloromethane	50	3.873	3.873	(0.296)	65990	10.0000	14.14
4 Vinyl chloride	62	4.100	4.100	(0.313)	66559	10.0000	10.78
7 Bromomethane	94	4.613	4.613	(0.352)	46898	10.0000	11.18
8 Chloroethane	64	4.810	4.810	(0.367)	40014	10.0000	13.50
11 Trichlorofluoromethane	101	5.639	5.639	(0.431)	133889	10.0000	12.86
25 Trichlorotrifluoroethane	101	6.922	6.922	(0.529)	67486	10.0000	12.08
10 Acrolein	56	5.609	5.609	(0.428)	57930	50.0000	50.26
21 1,1-Dichloroethene	96	6.537	6.537	(0.499)	51519	10.0000	12.43
14 Acetone	43	5.807	5.807	(0.443)	79442	20.0000	19.59
22 Iodomethane	142	6.566	6.566	(0.501)	85672	10.0000	10.80
28 Carbon disulfide	76	7.168	7.168	(0.547)	192952	10.0000	12.94
24 Methylene chloride	84	6.783	6.783	(0.518)	85330	10.0000	9.826
23 Acrylonitrile	53	6.606	6.606	(0.504)	130847	50.0000	53.07
31 trans-1,2-Dichloroethene	96	8.164	8.164	(0.623)	63204	10.0000	12.90

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD04.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.529	8.529	(0.651)	124607	10.0000	9.328
	33 1,1-Dichloroethane	63	8.756	8.756	(0.669)	145587	10.0000	12.52
	36 Vinyl acetate	43	9.181	9.181	(0.701)	271924	20.0000	18.51
	44 cis-1,2-Dichloroethene	96	10.354	10.354	(0.791)	29943	10.0000	6.643
M	29 1,2-Dichloroethene(total)	96				93147	20.0000	19.20
	42 2-Butanone	43	10.019	10.019	(0.765)	38827	20.0000	21.68
	46 Bromochloromethane	128	10.700	10.700	(0.817)	29220	10.0000	10.02
	51 Tetrahydrofuran	42	11.568	11.568	(0.883)	6704	10.0000	16.30
	47 Chloroform	83	10.828	10.828	(0.827)	145268	10.0000	10.49
	26 Methyl acetate	43	6.882	6.882	(0.525)	74636	10.0000	13.91
$	49 Dibromofluoromethane	111	11.075	11.075	(0.846)	249891	30.0000	30.32
	54 1,1,1-Trichloroethane	97	12.199	12.199	(0.931)	122568	10.0000	10.38
	56 Cyclohexane	56	12.633	12.633	(0.965)	48267	10.0000	6.131
	57 Carbon tetrachloride	117	12.732	12.732	(0.972)	125436	10.0000	10.74
$	52 1,2-Dichloroethane-d4	102	11.903	11.903	(0.909)	36617	30.0000	30.97
	58 Benzene	78	12.771	12.771	(0.975)	183467	10.0000	10.68
	53 1,2-Dichloroethane	62	12.031	12.031	(0.919)	130433	10.0000	10.19
	48 2,2-Dichloropropane	77	10.996	10.996	(0.840)	89831	10.0000	9.624
	55 1,1-Dichloropropene	75	12.505	12.505	(0.955)	46583	10.0000	6.020
	63 Trichloroethene	95	13.659	13.659	(1.043)	47272	10.0000	8.754
	62 1,2-Dichloropropane	63	13.590	13.590	(1.038)	53167	10.0000	10.38
	61 Dibromomethane	93	13.531	13.531	(1.033)	47850	10.0000	10.11
	66 Methyl methacrylate	41	14.271	14.271	(1.090)	49359	10.0000	9.097
	64 Bromodichloromethane	83	13.699	13.699	(1.046)	110323	10.0000	10.10
	67 2-Chloroethyl vinyl ether	63	14.251	14.251	(1.088)	25397	20.0000	8.009
	71 cis-1,3-Dichloropropene	75	14.468	14.468	(1.105)	70066	10.0000	7.313
	72 4-Methyl-2-pentanone	43	14.616	14.616	(1.116)	103168	20.0000	13.71
$	76 Toluene-d8	98	15.168	15.168	(0.923)	509859	30.0000	33.22
	78 Toluene	92	15.238	15.238	(0.927)	112433	10.0000	11.44
	73 trans-1,3-Dichloropropene	75	14.922	14.922	(0.908)	69792	10.0000	7.917
	80 Ethyl methacrylate	69	15.356	15.356	(0.934)	44852	10.0000	6.929
	75 1,1,2-Trichloroethane	83	15.060	15.060	(0.916)	45953	10.0000	11.65
	84 Tetrachloroethene	166	15.918	15.918	(0.968)	45700	10.0000	11.11
	81 2-Hexanone	43	15.474	15.474	(0.941)	80449	20.0000	15.85
	82 Dibromochloromethane	129	15.524	15.524	(0.944)	83862	10.0000	11.35
	83 1,2-Dibromoethane	107	15.741	15.741	(0.957)	54293	10.0000	11.11
	69 Methyl cyclohexane	83	14.271	14.271	(1.090)	46998	10.0000	7.519
*	86 Chlorobenzene-d5	82	16.441	16.441	(1.000)	269157	30.0000	
	87 Chlorobenzene	112	16.471	16.471	(1.002)	141438	10.0000	10.82
	85 1,1,1,2-Tetrachloroethane	131	16.411	16.411	(0.998)	64434	10.0000	10.46
	88 Ethylbenzene	91	16.619	16.619	(1.011)	191055	10.0000	6.192
	89 m,p-Xylene	91	16.767	16.767	(1.020)	371588	20.0000	13.99
M	100 Xylene(total)	91				569483	10.0000	31.78
	93 o-Xylene	91	17.063	17.063	(1.038)	197895	10.0000	7.540
	91 Styrene	104	17.013	17.013	(1.035)	92627	10.0000	7.950
	90 Bromoform	173	16.855	16.855	(1.025)	57218	10.0000	11.64
	96 Isopropylbenzene	105	17.329	17.329	(1.054)	174904	10.0000	9.305

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD04.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.358	17.358	(1.056)	291912	30.0000	35.31
	92 1,1,2,2-Tetrachloroethane	83	17.072	17.072	(0.935)	80984	10.0000	10.56
	79 1,3-Dichloropropane	76	15.297	15.297	(0.930)	94111	10.0000	11.50
	94 1,2,3-Trichloropropane	110	17.171	17.171	(1.044)	22750	10.0000	11.30
	101 n-Propylbenzene	91	17.635	17.635	(0.966)	252239	10.0000	9.371
	106 1,3,5-Trimethylbenzene	105	17.812	17.812	(0.976)	179249	10.0000	9.384
	104 1,2,4-Trimethylbenzene	105	18.079	18.079	(0.990)	186495	10.0000	9.487
	107 sec-Butylbenzene	105	18.158	18.158	(0.995)	207601	10.0000	9.468
	105 tert-Butylbenzene	119	18.019	18.019	(0.987)	123733	10.0000	8.613
	108 1,3-Dichlorobenzene	146	18.236	18.236	(0.999)	114791	10.0000	10.35
*	110 1,4-Dichlorobenzene-d4	152	18.256	18.256	(1.000)	264311	30.0000	
	111 1,4-Dichlorobenzene	146	18.276	18.276	(1.001)	152822	10.0000	10.30
	114 n-Butylbenzene	91	18.552	18.552	(1.016)	162180	10.0000	8.469
	113 1,2-Dichlorobenzene	146	18.532	18.532	(1.015)	105773	10.0000	10.56
	115 1,2-Dibromo-3-chloropropane	157	18.848	18.848	(1.032)	11031	10.0000	7.905
	98 Bromobenzene	156	17.516	17.516	(0.959)	56083	10.0000	9.209
	102 2-Chlorotoluene	91	17.714	17.714	(0.970)	198254	10.0000	10.85
	103 4-Chlorotoluene	91	17.763	17.763	(0.973)	196311	10.0000	9.612
	116 1,2,4-Trichlorobenzene	180	19.844	19.844	(1.087)	58331	10.0000	9.376
	117 Naphthalene	128	20.052	20.052	(1.098)	116909	10.0000	7.346
	112 p-Isopropyltoluene	119	18.266	18.266	(1.001)	186843	10.0000	10.05
	118 Hexachlorobutadiene	225	20.071	20.071	(1.099)	31174	10.0000	10.64
	119 1,2,3-Trichlorobenzene	180	20.229	20.229	(1.108)	57882	10.0000	9.888

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Instrument: voa5.i
Operator: ADM
Column diameter: 0.25

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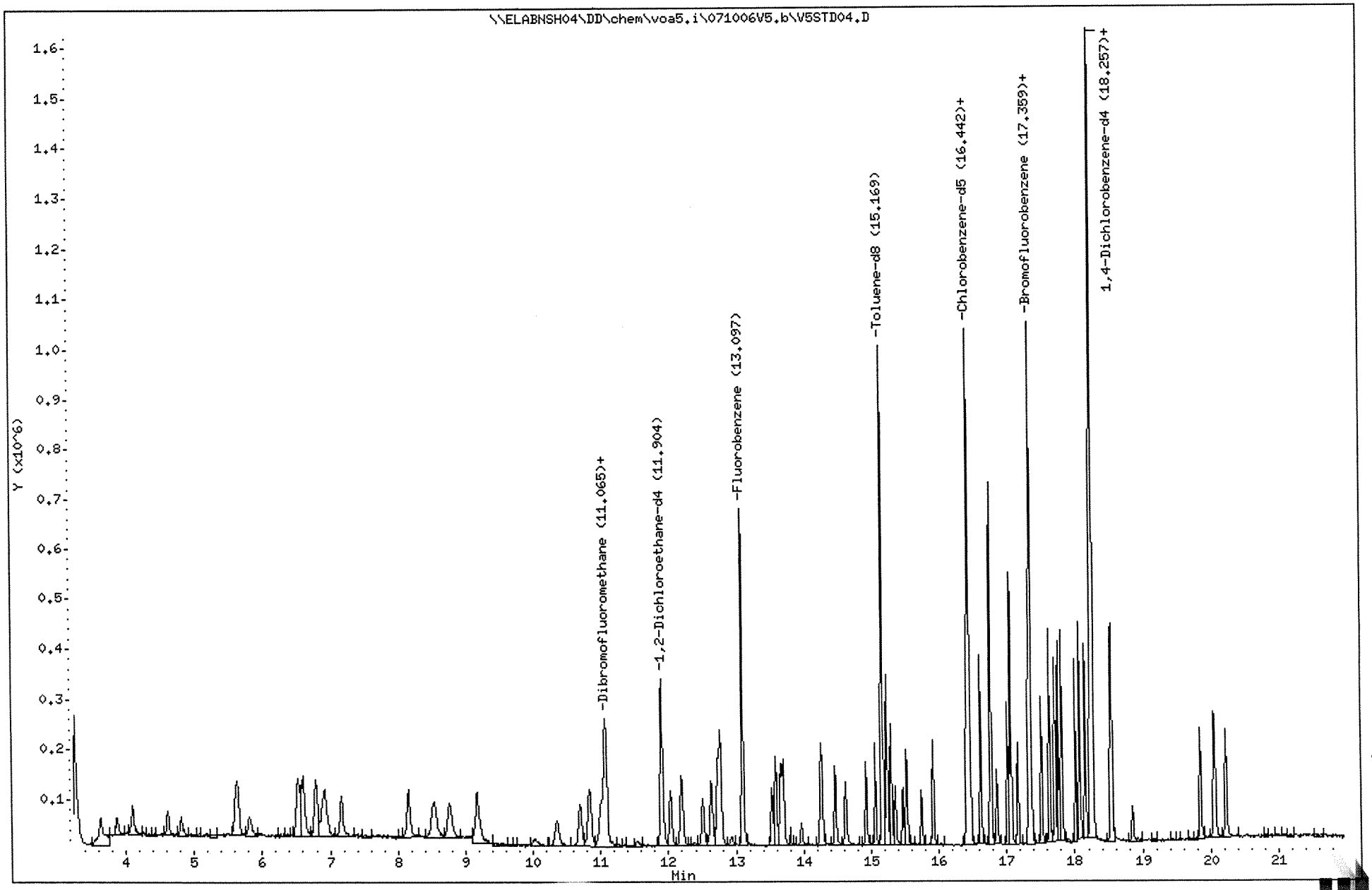

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Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD03.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD03.D
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Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.106	13.106	(1.000)	461882	30.0000	
1 Dichlorodifluoromethane	85	3.635	3.635	(0.277)	11046	2.00000	2.228
2 Chloromethane	50	3.862	3.862	(0.295)	15945	2.00000	3.792
4 Vinyl chloride	62	4.099	4.099	(0.313)	12995	2.00000	2.270
7 Bromomethane	94	4.622	4.622	(0.353)	8990	2.00000	2.377
8 Chloroethane	64	4.819	4.819	(0.368)	10585	2.00000	3.961
11 Trichlorofluoromethane	101	5.638	5.638	(0.430)	26053	2.00000	2.777
25 Trichlorotrifluoroethane	101	6.920	6.920	(0.528)	13611	2.00000	2.704
10 Acrolein	56	5.608	5.608	(0.428)	11324	10.0000	10.90
21 1,1-Dichloroethene	96	6.536	6.536	(0.499)	10529	2.00000	2.818
14 Acetone	43	5.816	5.816	(0.444)	24423	4.00000	6.593(a)
22 Iodomethane	142	6.555	6.555	(0.500)	12828	2.00000	1.794(a)
28 Carbon disulfide	76	7.167	7.167	(0.547)	37988	2.00000	2.828
24 Methylene chloride	84	6.792	6.792	(0.518)	24288	2.00000	(a)
23 Acrylonitrile	53	6.615	6.615	(0.505)	24313	10.0000	10.94
31 trans-1,2-Dichloroethene	96	8.163	8.163	(0.623)	12984	2.00000	2.940

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD03.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.548	8.548	(0.652)	22419	2.00000	1.862
	33 1,1-Dichloroethane	63	8.765	8.765	(0.669)	28681	2.00000	2.736
	36 Vinyl acetate	43	9.170	9.170	(0.700)	47480	4.00000	3.586(a)
	44 cis-1,2-Dichloroethene	96	10.363	10.363	(0.791)	4627	2.00000	1.139
M	29 1,2-Dichloroethene(total)	96				17611	4.00000	4.028
	42 2-Butanone	43	10.018	10.018	(0.764)	8068	4.00000	14.67(M)
	46 Bromochloromethane	128	10.699	10.699	(0.816)	5844	2.00000	2.224
	47 Chloroform	83	10.837	10.837	(0.827)	27515	2.00000	2.205
	26 Methyl acetate	43	6.891	6.891	(0.526)	18525	2.00000	3.831
$	49 Dibromofluoromethane	111	11.074	11.074	(0.845)	235019	30.0000	31.64
	54 1,1,1-Trichloroethane	97	12.208	12.208	(0.931)	22315	2.00000	2.098
	56 Cyclohexane	56	12.632	12.632	(0.964)	4718	2.00000	0.6650(a)
	57 Carbon tetrachloride	117	12.731	12.731	(0.971)	21732	2.00000	2.066
$	52 1,2-Dichloroethane-d4	102	11.902	11.902	(0.908)	34512	30.0000	32.39
	58 Benzene	78	12.770	12.770	(0.974)	24083	2.00000	1.556
	53 1,2-Dichloroethane	62	12.040	12.040	(0.919)	22003	2.00000	1.907
	48 2,2-Dichloropropane	77	11.004	11.004	(0.840)	15319	2.00000	1.821
	55 1,1-Dichloropropene	75	12.514	12.514	(0.955)	6314	2.00000	0.9053(a)
	63 Trichloroethene	95	13.658	13.658	(1.042)	6848	2.00000	1.407
	62 1,2-Dichloropropane	63	13.589	13.589	(1.037)	8198	2.00000	1.776
	61 Dibromomethane	93	13.530	13.530	(1.032)	8361	2.00000	1.960
	66 Methyl methacrylate	41	14.270	14.270	(1.089)	4926	2.00000	1.007
	64 Bromodichloromethane	83	13.698	13.698	(1.045)	19635	2.00000	1.994
	67 2-Chloroethyl vinyl ether	63	14.240	14.240	(1.087)	2112	4.00000	0.7390(a)
	71 cis-1,3-Dichloropropene	75	14.467	14.467	(1.104)	7291	2.00000	0.8443(a)
	72 4-Methyl-2-pentanone	43	14.615	14.615	(1.115)	10211	4.00000	1.505(Ta)
$	76 Toluene-d8	98	15.167	15.167	(0.923)	461468	30.0000	33.68
	78 Toluene	92	15.236	15.236	(0.927)	16289	2.00000	1.856
	73 trans-1,3-Dichloropropene	75	14.921	14.921	(0.908)	7265	2.00000	0.9231(a)
	80 Ethyl methacrylate	69	15.355	15.355	(0.934)	4420	2.00000	0.7648(a)
	75 1,1,2-Trichloroethane	83	15.059	15.059	(0.916)	7505	2.00000	2.131
	84 Tetrachloroethene	166	15.917	15.917	(0.968)	8189	2.00000	2.230
	81 2-Hexanone	43	15.473	15.473	(0.941)	11383	4.00000	2.512(a)
	82 Dibromochloromethane	129	15.532	15.532	(0.945)	14783	2.00000	2.242
	83 1,2-Dibromoethane	107	15.749	15.749	(0.958)	8643	2.00000	1.980
	69 Methyl cyclohexane	83	14.270	14.270	(1.089)	3424	2.00000	0.6078(a)
*	86 Chlorobenzene-d5	82	16.440	16.440	(1.000)	240289	30.0000	
	87 Chlorobenzene	112	16.470	16.470	(1.002)	24649	2.00000	2.113
	85 1,1,1,2-Tetrachloroethane	131	16.420	16.420	(0.999)	11732	2.00000	2.133
	88 Ethylbenzene	91	16.618	16.618	(1.011)	21252	2.00000	0.7240(a)
	89 m,p-Xylene	91	16.766	16.766	(1.020)	32463	4.00000	1.250
M	100 Xylene(total)	91				48945	2.00000	3.060
	93 o-Xylene	91	17.061	17.061	(1.038)	16482	2.00000	0.6555(a)
	91 Styrene	104	17.012	17.012	(1.035)	9390	2.00000	0.9027(a)
	90 Bromoform	173	16.854	16.854	(1.025)	8063	2.00000	1.837
	96 Isopropylbenzene	105	17.328	17.328	(1.054)	16230	2.00000	0.9672(a)
$	97 Bromofluorobenzene	95	17.357	17.357	(1.056)	242734	30.0000	32.89

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD03.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
92	1,1,2,2-Tetrachloroethane	83	17.071	17.071	(0.935)	12963	2.00000	2.046
79	1,3-Dichloropropane	76	15.306	15.306	(0.931)	15395	2.00000	2.107
94	1,2,3-Trichloropropane	110	17.170	17.170	(1.044)	2839	2.00000	1.580
101	n-Propylbenzene	91	17.634	17.634	(0.966)	24001	2.00000	1.079
106	1,3,5-Trimethylbenzene	105	17.811	17.811	(0.976)	16661	2.00000	1.056
104	1,2,4-Trimethylbenzene	105	18.078	18.078	(0.990)	14393	2.00000	0.8860(a)
107	sec-Butylbenzene	105	18.156	18.156	(0.995)	19740	2.00000	1.089
105	tert-Butylbenzene	119	18.008	18.008	(0.986)	11240	2.00000	0.9469(a)
108	1,3-Dichlorobenzene	146	18.235	18.235	(0.999)	16648	2.00000	1.817
* 110	1,4-Dichlorobenzene-d4	152	18.255	18.255	(1.000)	218399	30.0000	
111	1,4-Dichlorobenzene	146	18.275	18.275	(1.001)	26536	2.00000	2.165
114	n-Butylbenzene	91	18.551	18.551	(1.016)	18515	2.00000	1.170
113	1,2-Dichlorobenzene	146	18.531	18.531	(1.015)	14243	2.00000	1.720
115	1,2-Dibromo-3-chloropropane	157	18.847	18.847	(1.032)	1649	2.00000	1.430(a)
98	Bromobenzene	156	17.515	17.515	(0.959)	7340	2.00000	1.459
102	2-Chlorotoluene	91	17.713	17.713	(0.970)	20467	2.00000	1.356
103	4-Chlorotoluene	91	17.762	17.762	(0.973)	21961	2.00000	1.301
116	1,2,4-Trichlorobenzene	180	19.843	19.843	(1.087)	8517	2.00000	1.657
117	Naphthalene	128	20.051	20.051	(1.098)	12258	2.00000	0.9322(a)
112	p-Isopropyltoluene	119	18.265	18.265	(1.001)	28151	2.00000	1.832
118	Hexachlorobutadiene	225	20.070	20.070	(1.099)	4990	2.00000	2.062(M)
119	1,2,3-Trichlorobenzene	180	20.228	20.228	(1.108)	8177	2.00000	1.690

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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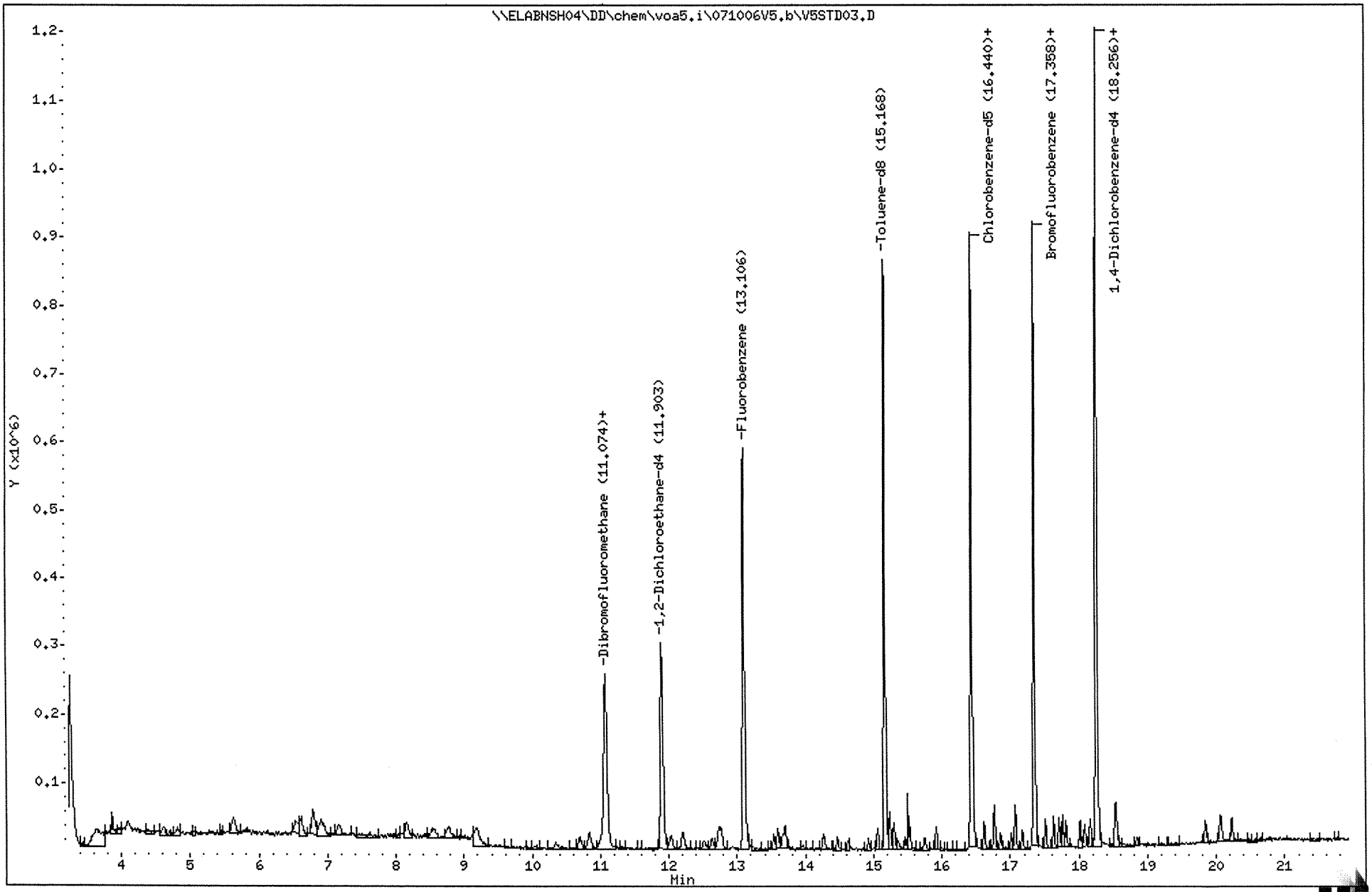

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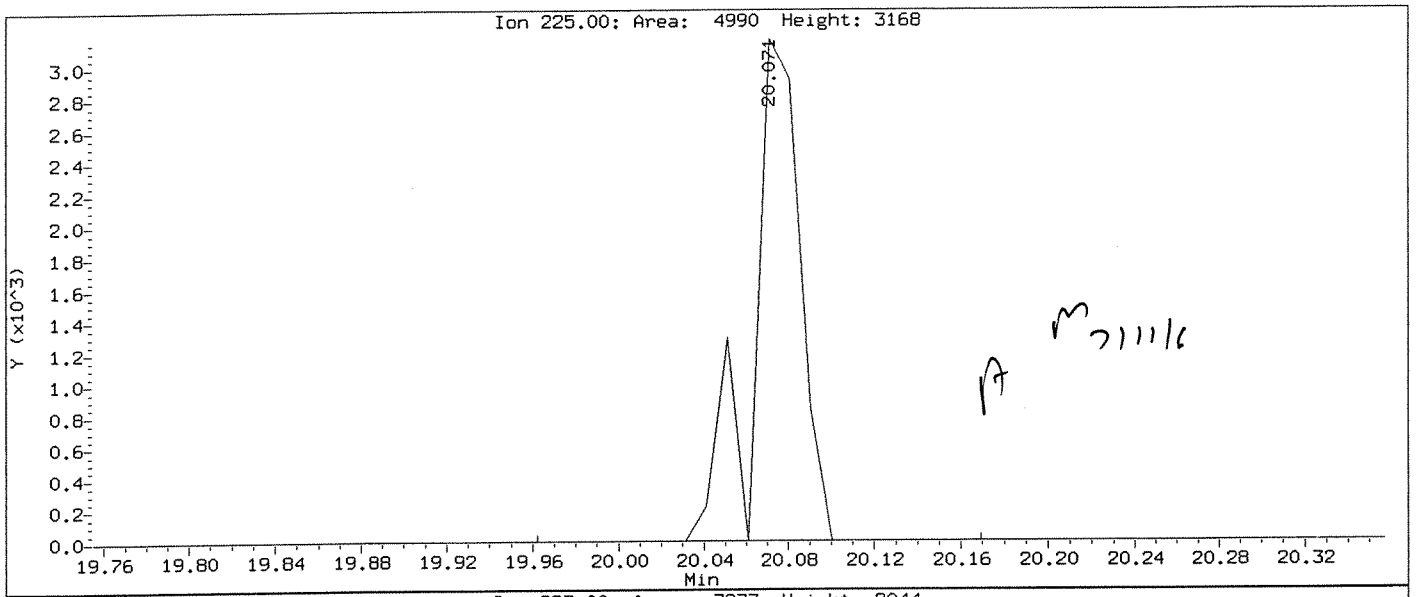
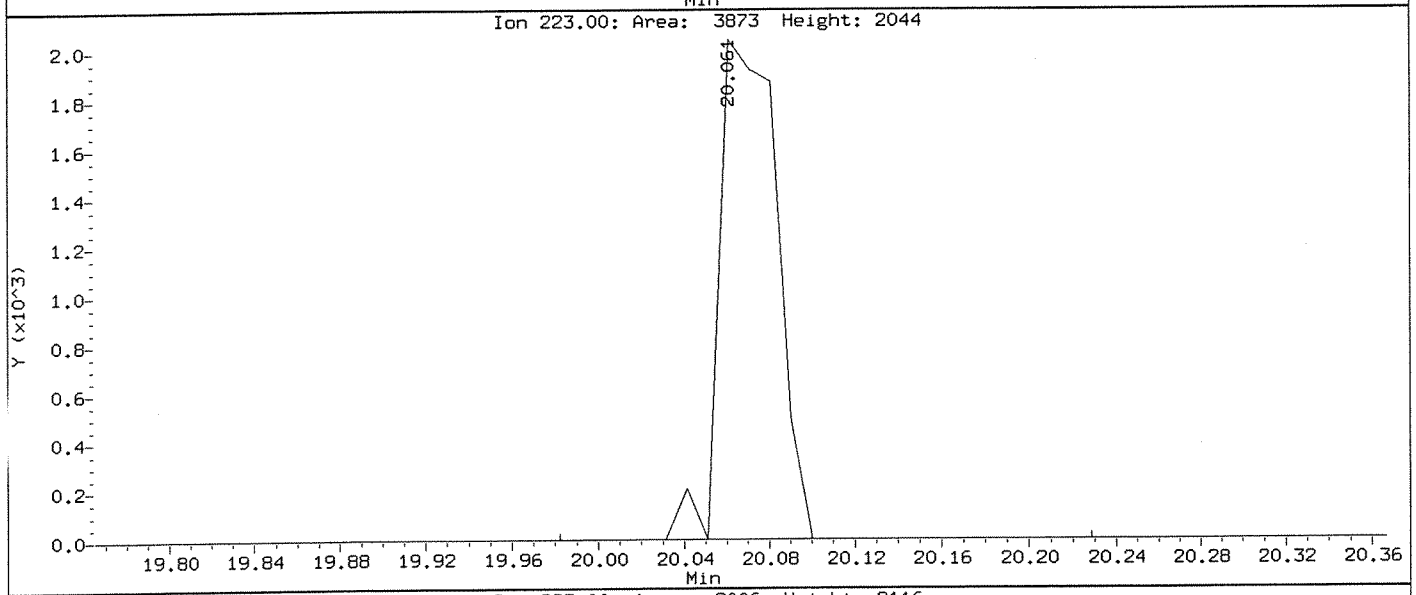
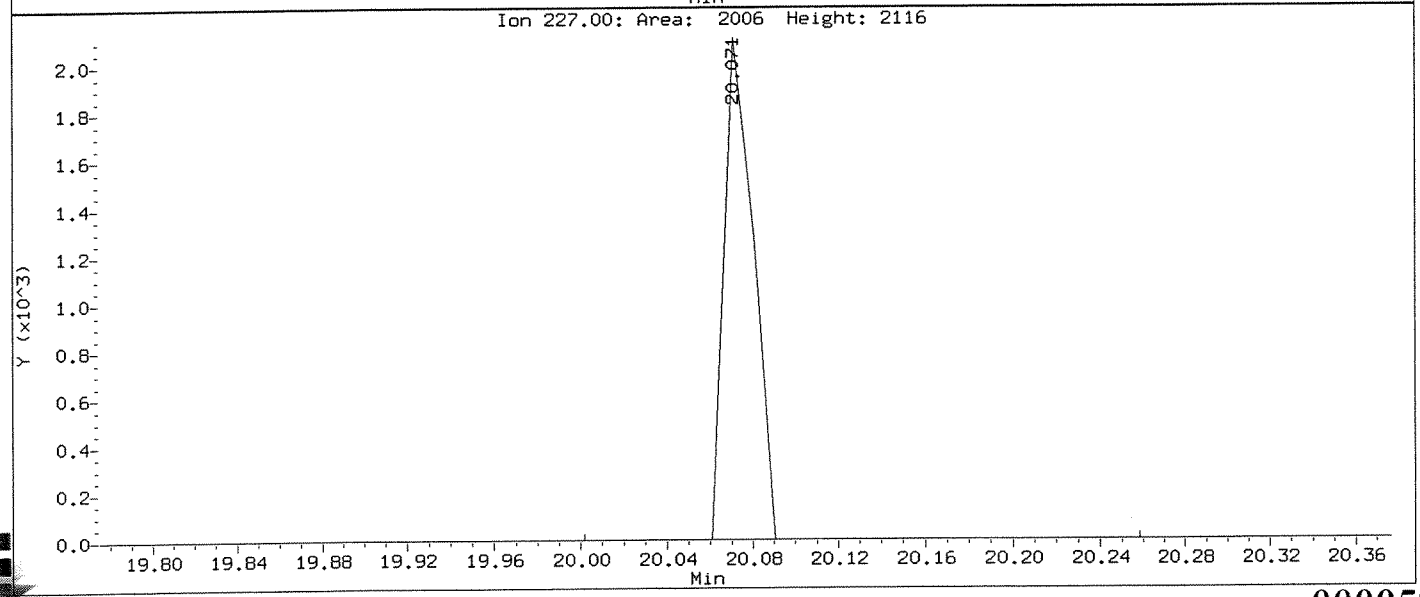
Client Sample ID: V5STD2.OPPB

Compound: Hexachlorobutadiene
CAS Number: 87-68-3







Empirical Laboratories

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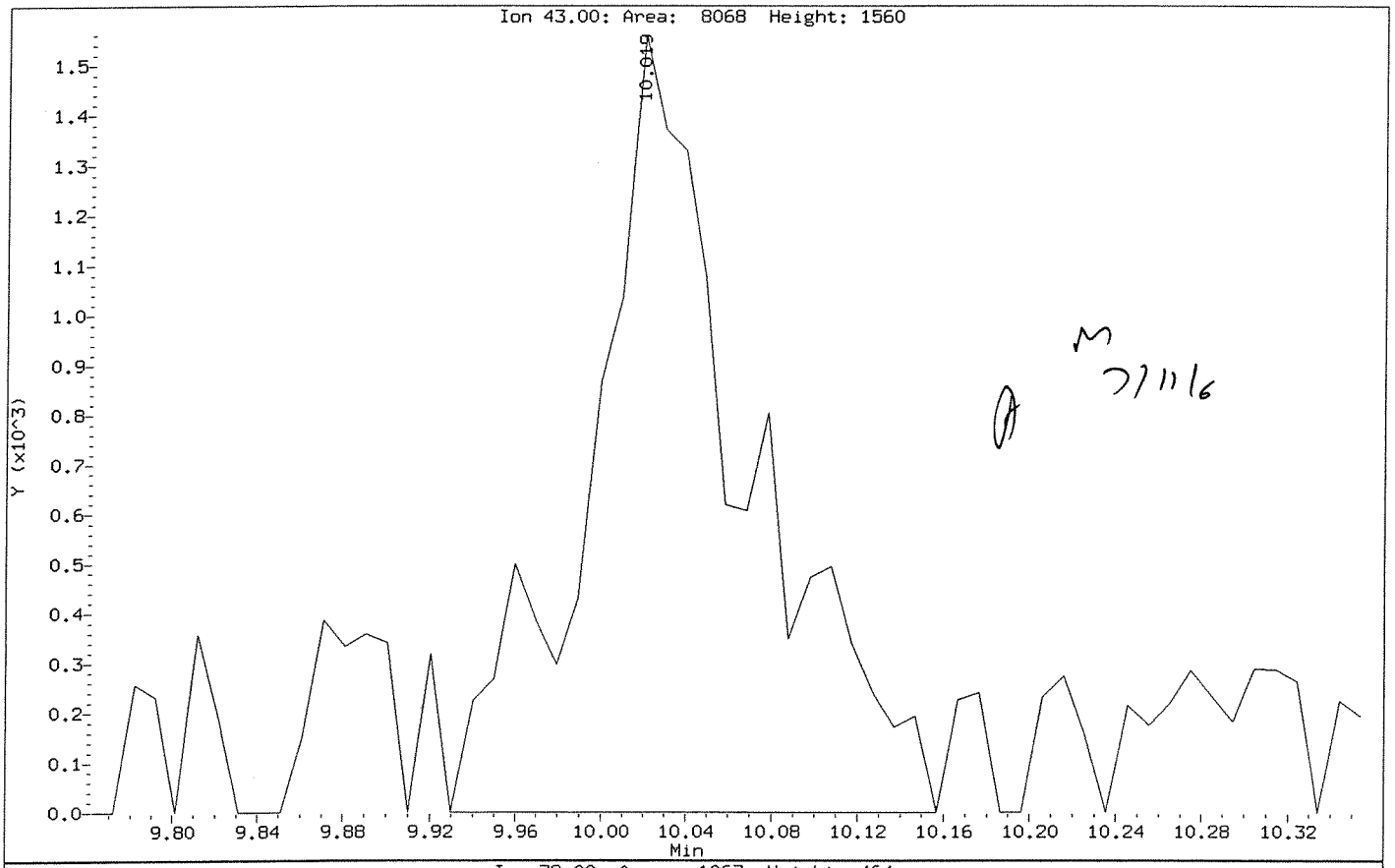
Instrument: voa5.i
Client Sample ID: V5STD2.0PPB

Compound: 2-Butanone
CAS Number: 78-93-3



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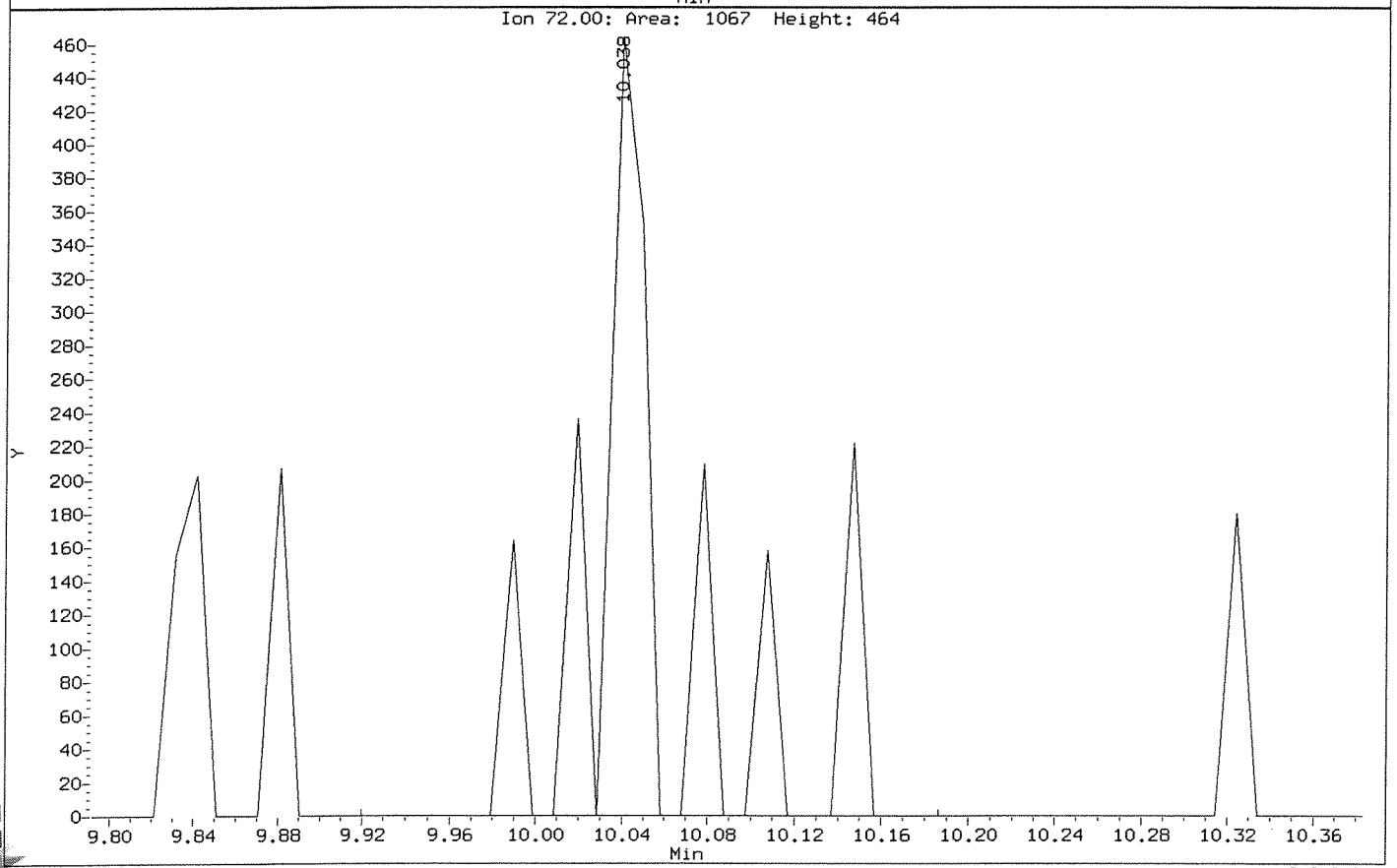

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Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

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Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.106	13.106	(1.000)	442453	30.0000	
1 Dichlorodifluoromethane	85	3.636	3.636	(0.277)	5168	1.00000	1.088(a)
2 Chloromethane	50	3.873	3.873	(0.296)	6716	1.00000	1.667(a)
4 Vinyl chloride	62	4.109	4.109	(0.314)	6549	1.00000	1.190(a)
7 Bromomethane	94	4.613	4.613	(0.352)	4991	1.00000	1.378(a)
8 Chloroethane	64	4.810	4.810	(0.367)	5299	1.00000	2.070
11 Trichlorofluoromethane	101	5.648	5.648	(0.431)	14073	1.00000	1.566(a)
25 Trichlorotrifluoroethane	101	6.921	6.921	(0.528)	8019	1.00000	1.663
10 Acrolein	56	5.619	5.619	(0.429)	4623	5.00000	4.646(a)
21 1,1-Dichloroethene	96	6.536	6.536	(0.499)	5222	1.00000	1.459
14 Acetone	43	5.816	5.816	(0.444)	15325	2.00000	4.271(a)
22 Iodomethane	142	6.566	6.566	(0.501)	6235	1.00000	0.9100(a)
28 Carbon disulfide	76	7.168	7.168	(0.547)	21538	1.00000	1.674
24 Methylene chloride	84	6.803	6.803	(0.519)	15316	1.00000	
23 Acrylonitrile	53	6.605	6.605	(0.504)	12315	5.00000	5.785
31 trans-1,2-Dichloroethene	96	8.154	8.154	(0.622)	7042	1.00000	1.664

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Report Date: 11-Jul-2006 10:44

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32	MTBE	73	8.549	8.549	(0.652)	11816	1.00000	1.024
	33	1,1-Dichloroethane	63	8.785	8.785	(0.670)	16795	1.00000	1.672
	36	Vinyl acetate	43	9.170	9.170	(0.700)	21269	2.00000	1.677(a)
	44	cis-1,2-Dichloroethene	96	10.374	10.374	(0.792)	2367	1.00000	0.6083(a)
M	29	1,2-Dichloroethene(total)	96				9409	2.00000	2.246
	42	2-Butanone	43	10.058	10.058	(0.767)	4215	2.00000	13.72(M)
	46	Bromochloromethane	128	10.699	10.699	(0.816)	2163	1.00000	0.8592(a)
	47	Chloroform	83	10.847	10.847	(0.828)	14211	1.00000	1.189
	26	Methyl acetate	43	6.881	6.881	(0.525)	10474	1.00000	2.261
$	49	Dibromofluoromethane	111	11.074	11.074	(0.845)	239242	30.0000	33.62
	54	1,1,1-Trichloroethane	97	12.208	12.208	(0.931)	10351	1.00000	1.016
	56	Cyclohexane	56	12.643	12.643	(0.965)	2211	1.00000	0.3253(a)
	57	Carbon tetrachloride	117	12.731	12.731	(0.971)	11760	1.00000	1.167
$	52	1,2-Dichloroethane-d4	102	11.913	11.913	(0.909)	35786	30.0000	35.06
	58	Benzene	78	12.771	12.771	(0.974)	9846	1.00000	0.6640(a)
	53	1,2-Dichloroethane	62	12.031	12.031	(0.918)	11656	1.00000	1.055
	48	2,2-Dichloropropane	77	11.015	11.015	(0.840)	7879	1.00000	0.9778(a)
	55	1,1-Dichloropropene	75	12.495	12.495	(0.953)	3332	1.00000	0.4987(a)
	63	Trichloroethene	95	13.659	13.659	(1.042)	3579	1.00000	0.7677(a)
	62	1,2-Dichloropropane	63	13.580	13.580	(1.036)	3968	1.00000	0.8973(a)
	61	Dibromomethane	93	13.540	13.540	(1.033)	4009	1.00000	0.9812(a)
	66	Methyl methacrylate	41	14.270	14.270	(1.089)	3644	1.00000	0.7779(a)
	64	Bromodichloromethane	83	13.698	13.698	(1.045)	9484	1.00000	1.006
	67	2-Chloroethyl vinyl ether	63	14.241	14.241	(1.087)	1314	2.00000	0.4800(Ta)
	71	cis-1,3-Dichloropropene	75	14.477	14.477	(1.105)	3655	1.00000	0.4418(a)
	72	4-Methyl-2-pentanone	43	14.625	14.625	(1.116)	5221	2.00000	0.8035(Ta)
$	76	Toluene-d8	98	15.178	15.178	(0.923)	447244	30.0000	32.88
	78	Toluene	92	15.237	15.237	(0.927)	9588	1.00000	1.100
	73	trans-1,3-Dichloropropene	75	14.921	14.921	(0.908)	3550	1.00000	0.4543(a)
	80	Ethyl methacrylate	69	15.355	15.355	(0.934)	1854	1.00000	0.3231(a)
	75	1,1,2-Trichloroethane	83	15.059	15.059	(0.916)	3319	1.00000	0.9492(a)
	84	Tetrachloroethene	166	15.918	15.918	(0.968)	3561	1.00000	0.9765(a)
	81	2-Hexanone	43	15.474	15.474	(0.941)	4669	2.00000	1.038(a)
	82	Dibromochloromethane	129	15.523	15.523	(0.944)	6136	1.00000	0.9372(a)
	83	1,2-Dibromoethane	107	15.740	15.740	(0.957)	3875	1.00000	0.8942(a)
	69	Methyl cyclohexane	83	14.280	14.280	(1.090)	1941	1.00000	0.3597(aM)
*	86	Chlorobenzene-d5	82	16.440	16.440	(1.000)	238599	30.0000	
	87	Chlorobenzene	112	16.470	16.470	(1.002)	12088	1.00000	1.044
	85	1,1,1,2-Tetrachloroethane	131	16.411	16.411	(0.998)	6030	1.00000	1.104
	88	Ethylbenzene	91	16.618	16.618	(1.011)	10391	1.00000	0.3548(a)
	89	m,p-Xylene	91	16.766	16.766	(1.020)	11684	2.00000	0.4503(a)
M	100	Xylene(total)	91				18232	1.00000	1.148
	93	o-Xylene	91	17.062	17.062	(1.038)	6548	1.00000	0.2611(a)
	91	Styrene	104	17.013	17.013	(1.035)	3228	1.00000	0.3125(a)
	90	Bromoform	173	16.855	16.855	(1.025)	4673	1.00000	1.072
	96	Isopropylbenzene	105	17.328	17.328	(1.054)	7193	1.00000	0.4317(a)
$	97	Bromofluorobenzene	95	17.358	17.358	(1.056)	220833	30.0000	30.14

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Report Date: 11-Jul-2006 10:44

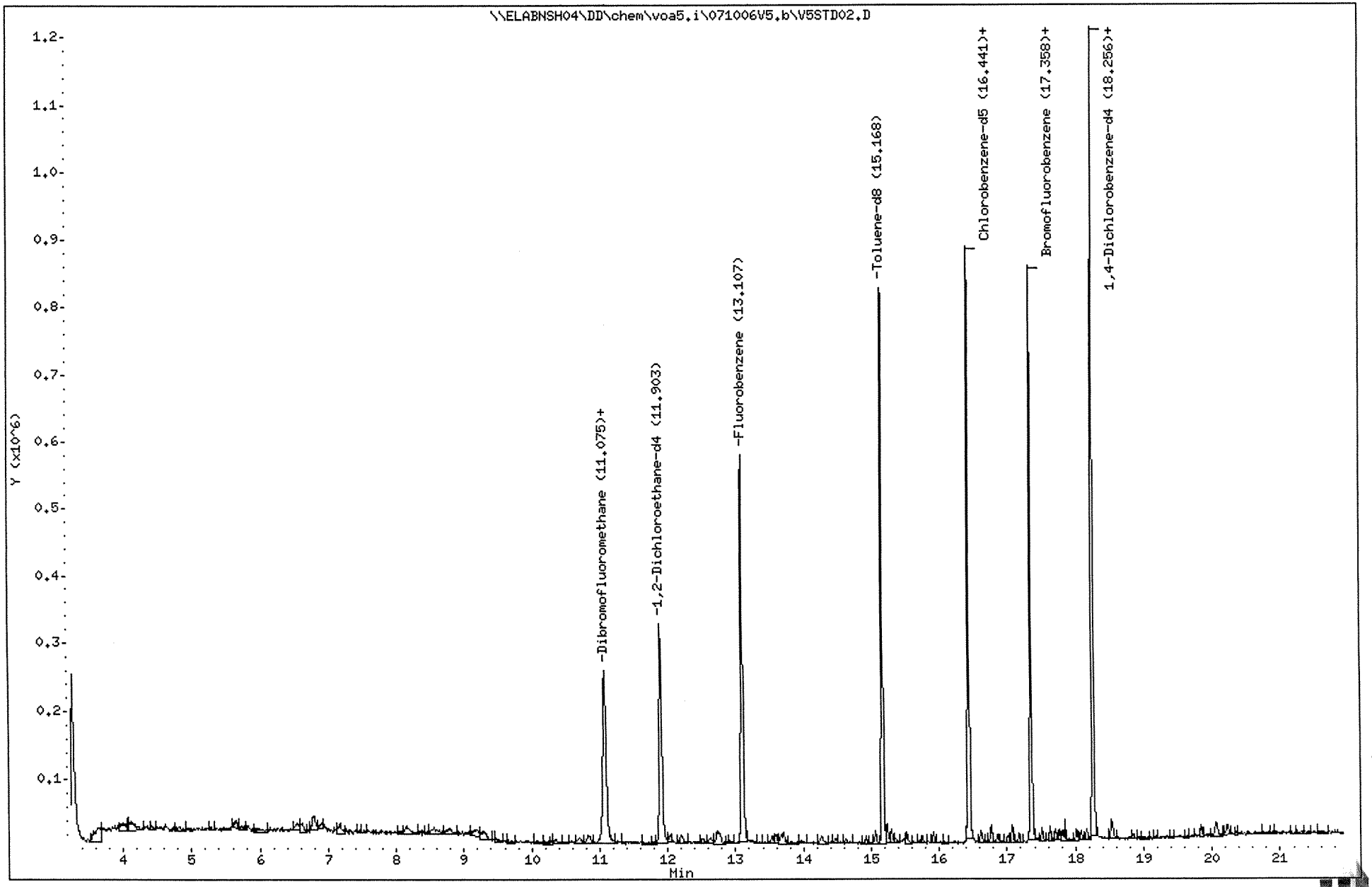
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
92	1,1,2,2-Tetrachloroethane	83	17.072	17.072	(0.935)	5702	1.00000	0.9341(a)
79	1,3-Dichloropropane	76	15.306	15.306	(0.931)	7134	1.00000	0.9835(a)
94	1,2,3-Trichloropropane	110	17.170	17.170	(1.044)	2049	1.00000	1.148
101	n-Propylbenzene	91	17.634	17.634	(0.966)	10671	1.00000	0.4980(a)
106	1,3,5-Trimethylbenzene	105	17.812	17.812	(0.976)	6167	1.00000	0.4056(a)
104	1,2,4-Trimethylbenzene	105	18.078	18.078	(0.990)	5395	1.00000	0.3447(a)
107	sec-Butylbenzene	105	18.157	18.157	(0.995)	8786	1.00000	0.5033(a)
105	tert-Butylbenzene	119	18.019	18.019	(0.987)	5234	1.00000	0.4577(a)
108	1,3-Dichlorobenzene	146	18.236	18.236	(0.999)	7927	1.00000	0.8980(a)
* 110	1,4-Dichlorobenzene-d4	152	18.256	18.256	(1.000)	210403	30.0000	
111	1,4-Dichlorobenzene	146	18.275	18.275	(1.001)	13591	1.00000	1.151
114	n-Butylbenzene	91	18.552	18.552	(1.016)	7749	1.00000	0.5083(a)
113	1,2-Dichlorobenzene	146	18.532	18.532	(1.015)	6824	1.00000	0.8556(a)
115	1,2-Dibromo-3-chloropropane	157	18.847	18.847	(1.032)	716	1.00000	0.6446(a)
98	Bromobenzene	156	17.516	17.516	(0.959)	3191	1.00000	0.6582(a)
102	2-Chlorotoluene	91	17.713	17.713	(0.970)	8840	1.00000	0.6078(a)
103	4-Chlorotoluene	91	17.762	17.762	(0.973)	8354	1.00000	0.5139(a)
116	1,2,4-Trichlorobenzene	180	19.844	19.844	(1.087)	4284	1.00000	0.8651(a)
117	Naphthalene	128	20.051	20.051	(1.098)	5627	1.00000	0.4442(a)
112	p-Isopropyltoluene	119	18.275	18.275	(1.001)	13184	1.00000	0.8908(a)
118	Hexachlorobutadiene	225	20.071	20.071	(1.099)	3387	1.00000	1.453(M)
119	1,2,3-Trichlorobenzene	180	20.229	20.229	(1.108)	4141	1.00000	0.8886(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Date : 10-JUL-2006 18:39
Client ID: V5STD1.0PPB
Instrument: voa5.i
Sample Info: V5STD1.0PPB;;;;;
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

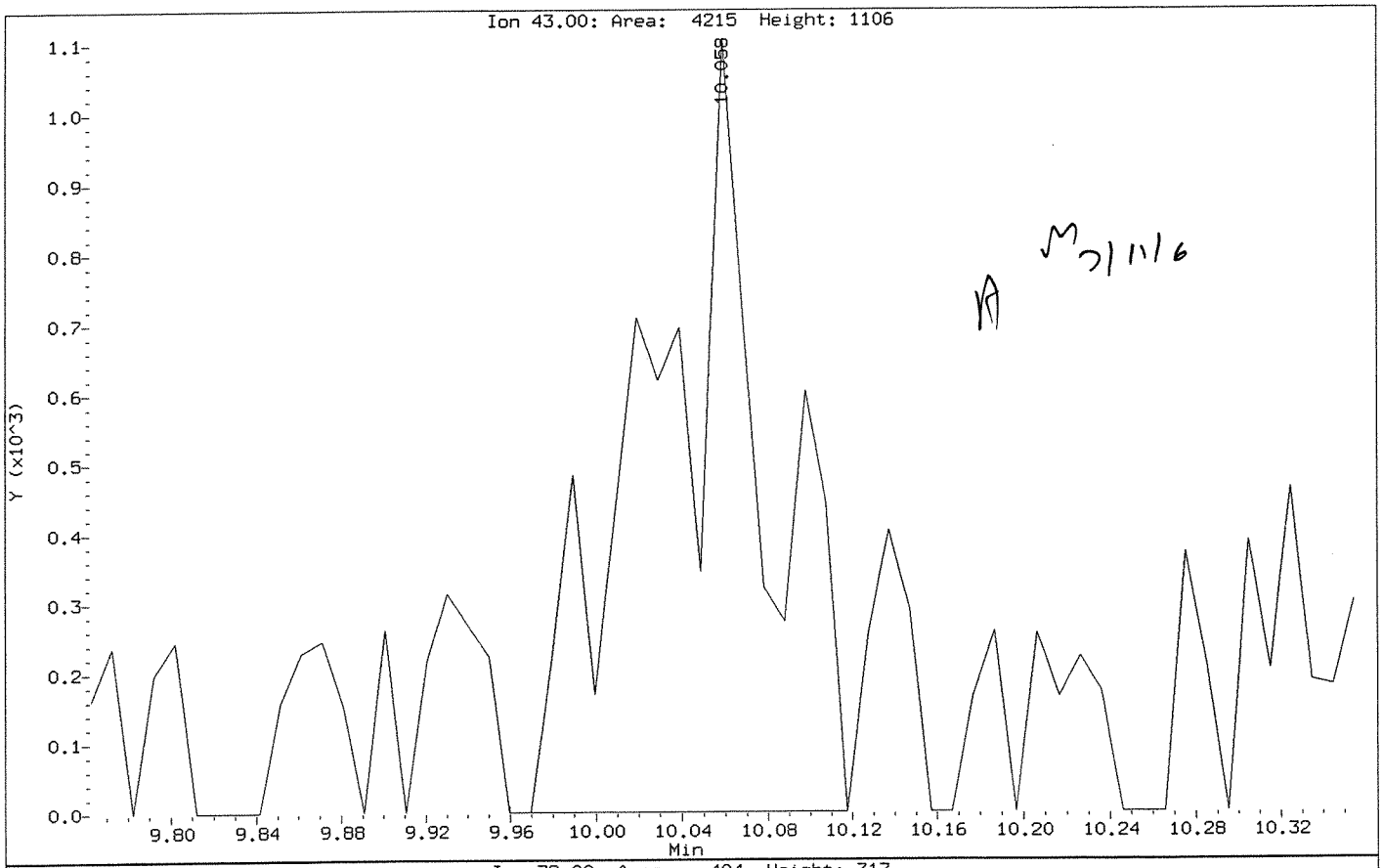
000062



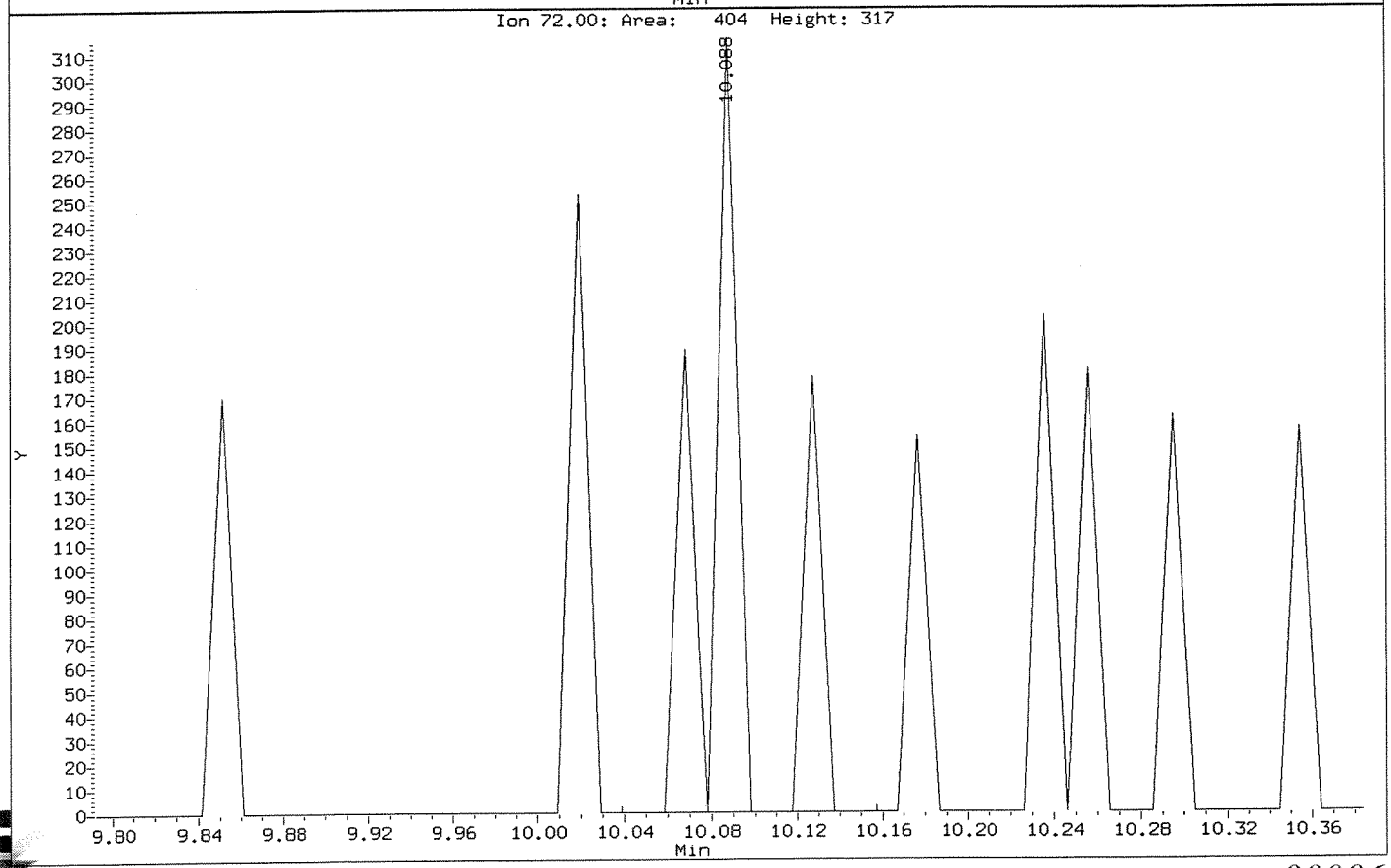
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Injection Date: 10-JUL-2006 18:39
Instrument: voa5.i
Client Sample ID: V5STD1.0PPB

Compound: 2-Butanone
CAS Number: 78-93-3



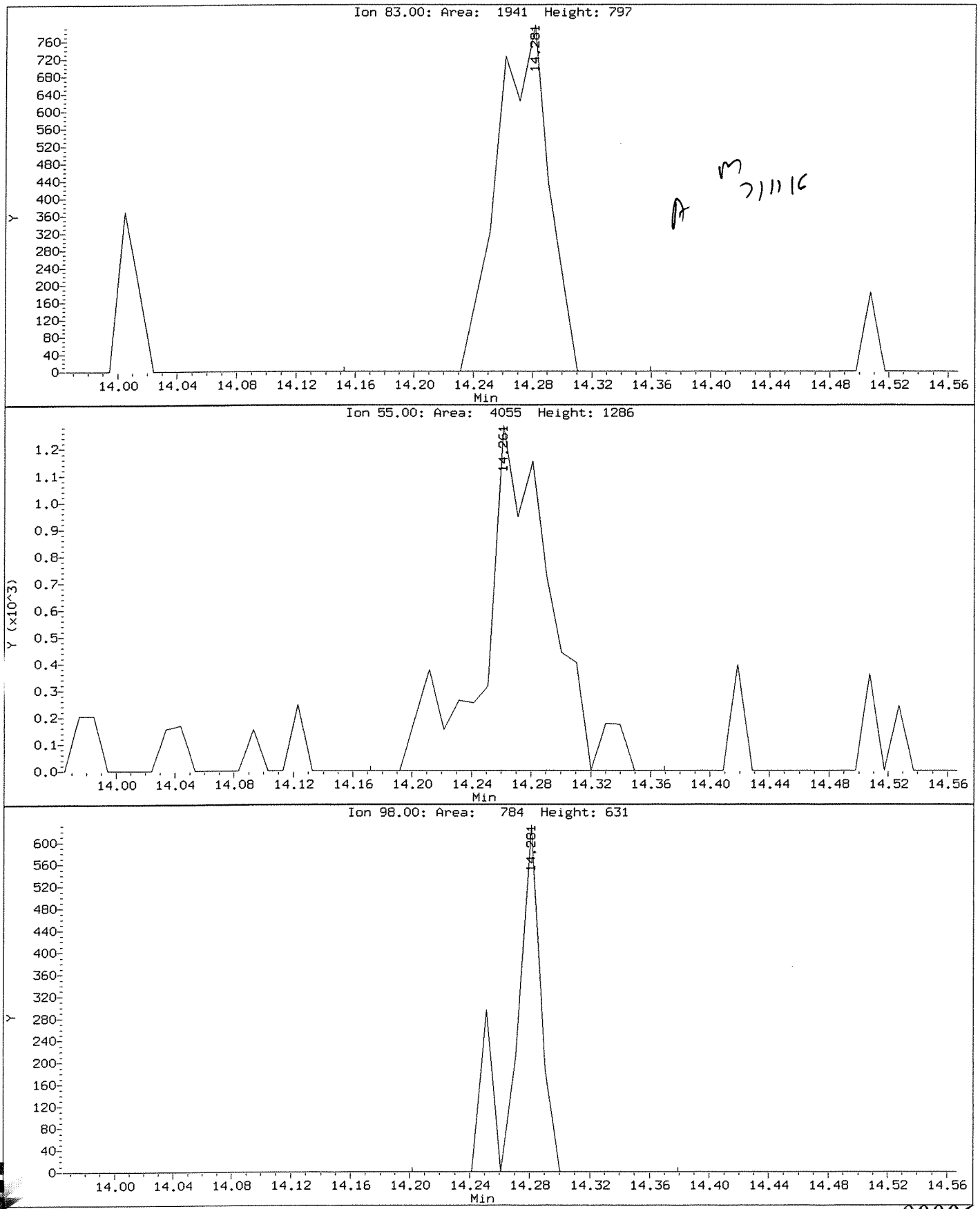
M 7/11/6



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Injection Date: 10-JUL-2006 18:39
Instrument: voa5.i
Client Sample ID: V5STD1.0PPB

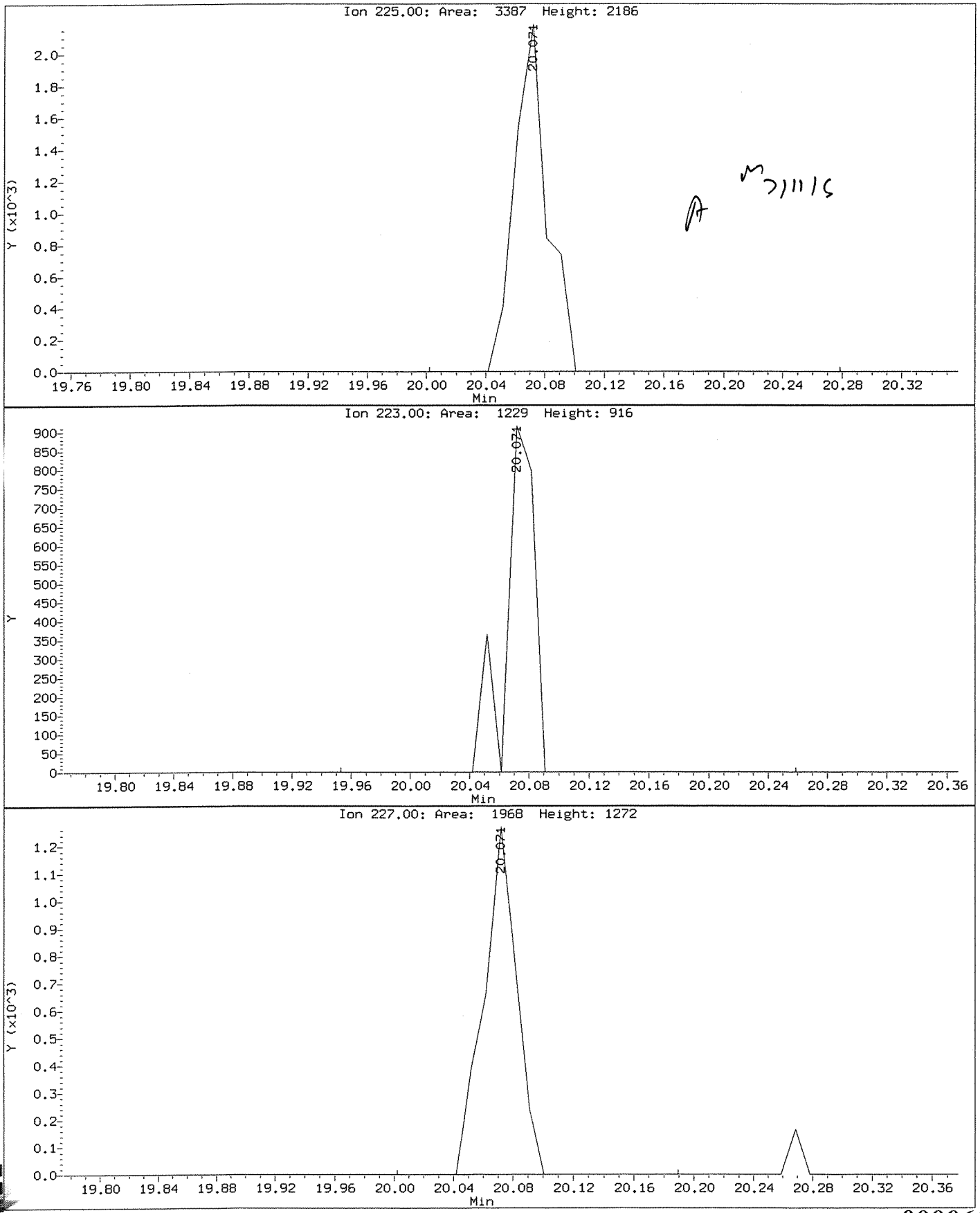
Compound: Methyl cyclohexane
CAS Number: 108-87-2



A M 7/11/16

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD02.D
Injection Date: 10-JUL-2006 18:39
Instrument: voa5.i
Client Sample ID: V5STD1.0PPB

Compound: Hexachlorobutadiene
CAS Number: 87-68-3



Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Report Date: 11-Jul-2006 10:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Lab Smp Id: V5STD0.5PPB Client Smp ID: V5STD0.5PPB
Inj Date : 10-JUL-2006 19:08 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5STD0.5PPB;;;;;
Misc Info : ;1;;;1;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

7/11/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.100	13.100	(1.000)	447572	30.0000	
1 Dichlorodifluoromethane	85	3.630	3.630	(0.277)	3014	0.50000	0.6273(a)
2 Chloromethane	50	3.876	3.876	(0.296)	4037	0.50000	0.9907(a)
4 Vinyl chloride	62	4.103	4.103	(0.313)	4519	0.50000	0.8106(a)
7 Bromomethane	94	4.626	4.626	(0.353)	3377	0.50000	0.9215(a)
8 Chloroethane	64	4.804	4.804	(0.367)	3011	0.50000	1.163(a)
11 Trichlorofluoromethane	101	5.642	5.642	(0.431)	7286	0.50000	0.8014(a)
25 Trichlorotrifluoroethane	101	6.934	6.934	(0.529)	2708	0.50000	0.5552(a)
10 Acrolein	56	5.603	5.603	(0.428)	3270	2.50000	3.249(a)
21 1,1-Dichloroethene	96	6.540	6.540	(0.499)	3648	0.50000	1.008
14 Acetone	43	5.820	5.820	(0.444)	11785	1.00000	3.214(a)
22 Iodomethane	142	6.560	6.560	(0.501)	2616	0.50000	0.3774(a)
28 Carbon disulfide	76	7.171	7.171	(0.547)	11393	0.50000	0.8752(a)
24 Methylene chloride	84	6.786	6.786	(0.518)	15724	0.50000	
23 Acrylonitrile	53	6.589	6.589	(0.503)	5582	2.50000	2.592(a)
31 trans-1,2-Dichloroethene	96	8.148	8.148	(0.622)	3541	0.50000	0.8273(a)

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	8.513	8.513	(0.650)	3055	0.50000	0.2619(a)
	33 1,1-Dichloroethane	63	8.769	8.769	(0.669)	8941	0.50000	0.8802(a)
	36 Vinyl acetate	43	9.164	9.164	(0.700)	5581	1.00000	0.4350(a)
	44 cis-1,2-Dichloroethene	96	10.338	10.338	(0.789)	801	0.50000	0.2035(a)
M	29 1,2-Dichloroethene(total)	96				4342	1.00000	1.025
	46 Bromochloromethane	128	10.703	10.703	(0.817)	1483	0.50000	0.5824(a)
	47 Chloroform	83	10.841	10.841	(0.828)	7973	0.50000	0.6594(a)
	26 Methyl acetate	43	6.915	6.915	(0.528)	6395	0.50000	1.365
$	49 Dibromofluoromethane	111	11.078	11.078	(0.846)	226416	30.0000	31.45
	54 1,1,1-Trichloroethane	97	12.202	12.202	(0.931)	5435	0.50000	0.5272(a)
	56 Cyclohexane	56	12.616	12.616	(0.963)	1542	0.50000	0.2243(a)
	57 Carbon tetrachloride	117	12.735	12.735	(0.972)	5623	0.50000	0.5516(a)
$	52 1,2-Dichloroethane-d4	102	11.906	11.906	(0.909)	33754	30.0000	32.69
	58 Benzene	78	12.774	12.774	(0.975)	5011	0.50000	0.3340(a)
	53 1,2-Dichloroethane	62	12.034	12.034	(0.919)	6548	0.50000	0.5858(a)
	48 2,2-Dichloropropane	77	11.009	11.009	(0.840)	4246	0.50000	0.5209(a)
	55 1,1-Dichloropropene	75	12.508	12.508	(0.955)	1522	0.50000	0.2252(Ta)
	63 Trichloroethene	95	13.672	13.672	(1.044)	1750	0.50000	0.3711(a)
	62 1,2-Dichloropropane	63	13.593	13.593	(1.038)	2033	0.50000	0.4545(a)
	61 Dibromomethane	93	13.534	13.534	(1.033)	2305	0.50000	0.5577(a)
	66 Methyl methacrylate	41	14.274	14.274	(1.090)	2377	0.50000	0.5016(a)
	64 Bromodichloromethane	83	13.702	13.702	(1.046)	5914	0.50000	0.6199(a)
	71 cis-1,3-Dichloropropene	75	14.481	14.481	(1.105)	2001	0.50000	0.2391(Ta)
	72 4-Methyl-2-pentanone	43	14.629	14.629	(1.117)	2001	1.00000	0.3044(Ta)
$	76 Toluene-d8	98	15.171	15.171	(0.923)	436930	30.0000	31.48
	78 Toluene	92	15.241	15.241	(0.927)	4250	0.50000	0.4780(a)
	73 trans-1,3-Dichloropropene	75	14.935	14.935	(0.908)	1648	0.50000	0.2067(a)
	80 Ethyl methacrylate	69	15.359	15.359	(0.934)	1136	0.50000	0.1940(a)
	75 1,1,2-Trichloroethane	83	15.053	15.053	(0.915)	1787	0.50000	0.5008(a)
	84 Tetrachloroethene	166	15.921	15.921	(0.968)	1402	0.50000	0.3768(a)
	81 2-Hexanone	43	15.467	15.467	(0.941)	2066	1.00000	0.4500(a)
	82 Dibromochloromethane	129	15.536	15.536	(0.945)	3561	0.50000	0.5330(a)
	83 1,2-Dibromoethane	107	15.754	15.754	(0.958)	1754	0.50000	0.3966(a)
	69 Methyl cyclohexane	83	14.264	14.264	(1.089)	984	0.50000	0.1803(aM)
*	86 Chlorobenzene-d5	82	16.444	16.444	(1.000)	243475	30.0000	
	87 Chlorobenzene	112	16.474	16.474	(1.002)	6596	0.50000	0.5581(a)
	85 1,1,1,2-Tetrachloroethane	131	16.414	16.414	(0.998)	3140	0.50000	0.5634(a)
	88 Ethylbenzene	91	16.622	16.622	(1.011)	4634	0.50000	0.1547(a)
	89 m,p-Xylene	91	16.770	16.770	(1.020)	6389	1.00000	0.2409(a)
M	100 Xylene(total)	91				9185	0.50000	0.5667(a)
	93 o-Xylene	91	17.066	17.066	(1.038)	2796	0.50000	0.1090(a)
	91 Styrene	104	17.016	17.016	(1.035)	1996	0.50000	0.1894(a)
	90 Bromoform	173	16.858	16.858	(1.025)	2299	0.50000	0.5169(a)
	96 Isopropylbenzene	105	17.322	17.322	(1.053)	3735	0.50000	0.2197(a)
$	97 Bromofluorobenzene	95	17.361	17.361	(1.056)	198604	30.0000	26.56
	92 1,1,2,2-Tetrachloroethane	83	17.075	17.075	(0.935)	3084	0.50000	0.5254(a)
	79 1,3-Dichloropropane	76	15.300	15.300	(0.930)	3533	0.50000	0.4773(a)

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Report Date: 11-Jul-2006 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,2,3-Trichloropropane	110	17.174	17.174	(1.044)	851	0.50000	0.4674(a)
101	n-Propylbenzene	91	17.628	17.628	(0.965)	4925	0.50000	0.2390(a)
106	1,3,5-Trimethylbenzene	105	17.815	17.815	(0.976)	2615	0.50000	0.1788(a)
104	1,2,4-Trimethylbenzene	105	18.082	18.082	(0.990)	3414	0.50000	0.2269(a)
107	sec-Butylbenzene	105	18.170	18.170	(0.995)	3671	0.50000	0.2187(a)
105	tert-Butylbenzene	119	18.013	18.013	(0.986)	2478	0.50000	0.2254(aM)
108	1,3-Dichlorobenzene	146	18.239	18.239	(0.999)	3863	0.50000	0.4551(aM)
* 110	1,4-Dichlorobenzene-d4	152	18.259	18.259	(1.000)	202322	30.0000	
111	1,4-Dichlorobenzene	146	18.279	18.279	(1.001)	6027	0.50000	0.5307(aM)
114	n-Butylbenzene	91	18.545	18.545	(1.016)	4399	0.50000	0.3001(a)
113	1,2-Dichlorobenzene	146	18.526	18.526	(1.015)	3290	0.50000	0.4290(a)
115	1,2-Dibromo-3-chloropropane	157	18.851	18.851	(1.032)	367	0.50000	0.3436(aM)
98	Bromobenzene	156	17.519	17.519	(0.959)	1583	0.50000	0.3396(a)
102	2-Chlorotoluene	91	17.717	17.717	(0.970)	4411	0.50000	0.3154(a)
103	4-Chlorotoluene	91	17.766	17.766	(0.973)	3839	0.50000	0.2456(a)
116	1,2,4-Trichlorobenzene	180	19.838	19.838	(1.086)	2260	0.50000	0.4746(a)
117	Naphthalene	128	20.055	20.055	(1.098)	3329	0.50000	0.2733(a)
112	p-Isopropyltoluene	119	18.269	18.269	(1.001)	7266	0.50000	0.5105(a)
118	Hexachlorobutadiene	225	20.055	20.055	(1.098)	288	0.50000	0.1285(aM)
119	1,2,3-Trichlorobenzene	180	20.222	20.222	(1.108)	2198	0.50000	0.4905(a)

QC Flag Legend

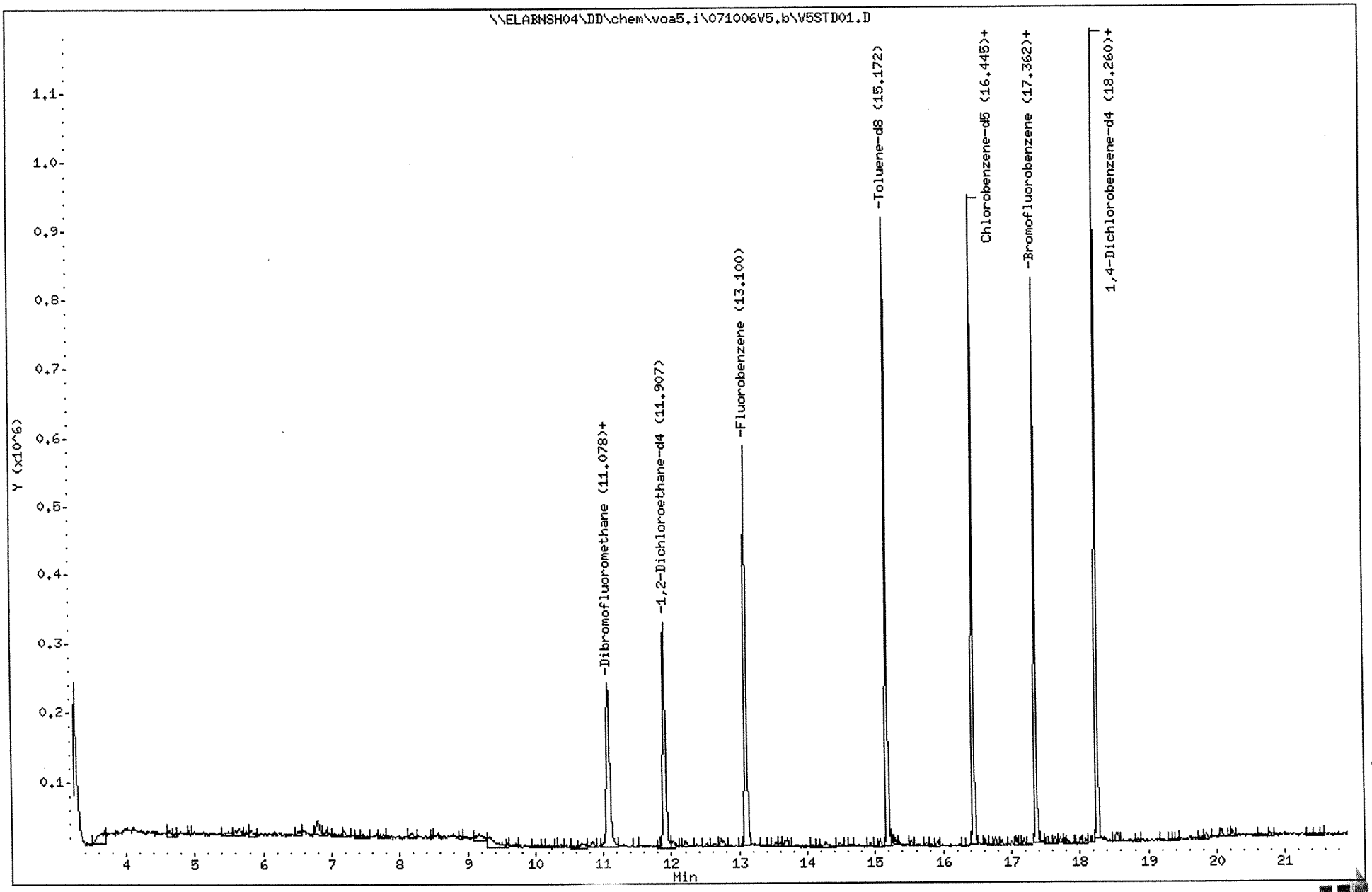
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Date : 10-JUL-2006 19:08
Client ID: V5STD0.5PPB
Sample Info: V5STD0.5PPB;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

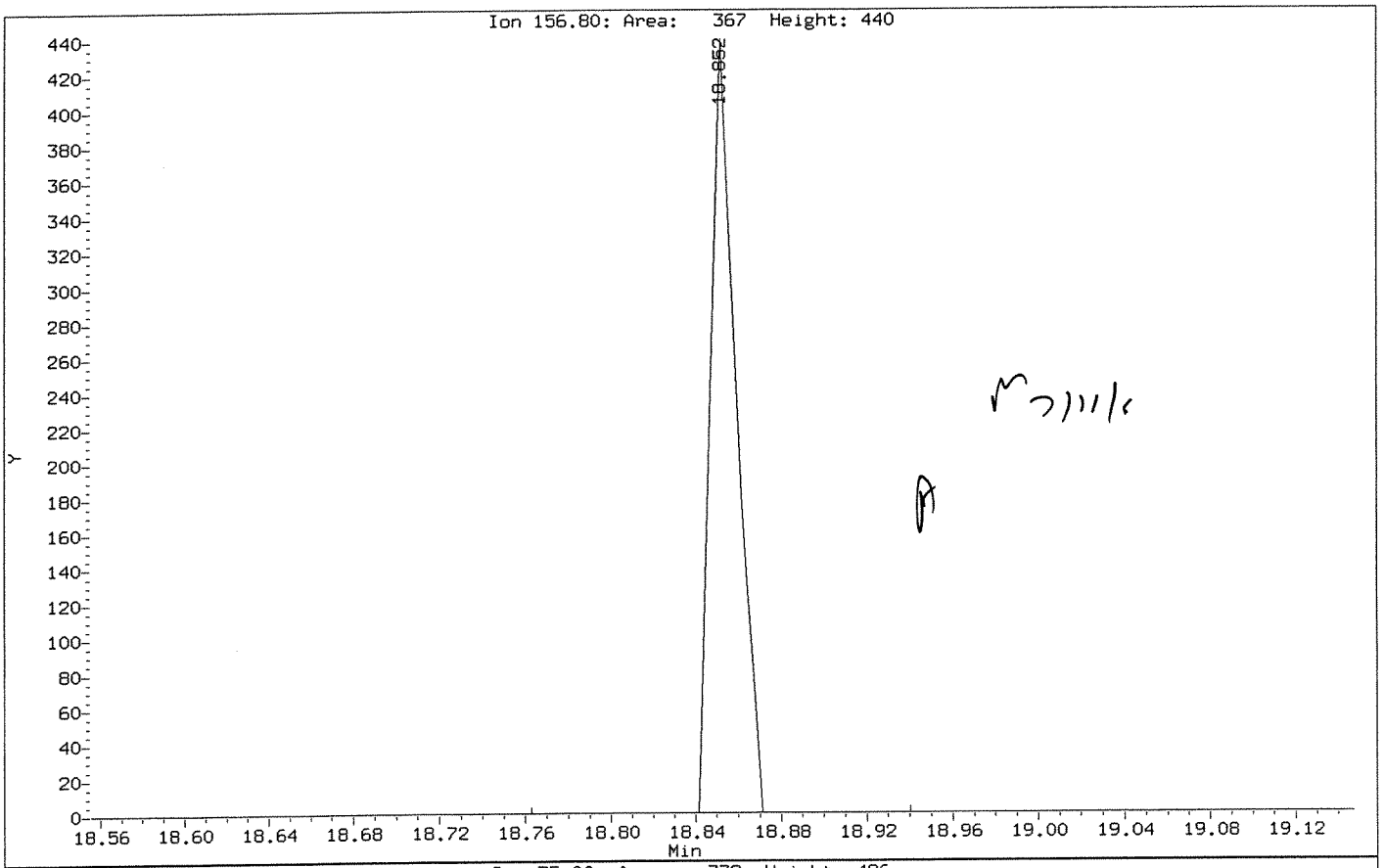
000069

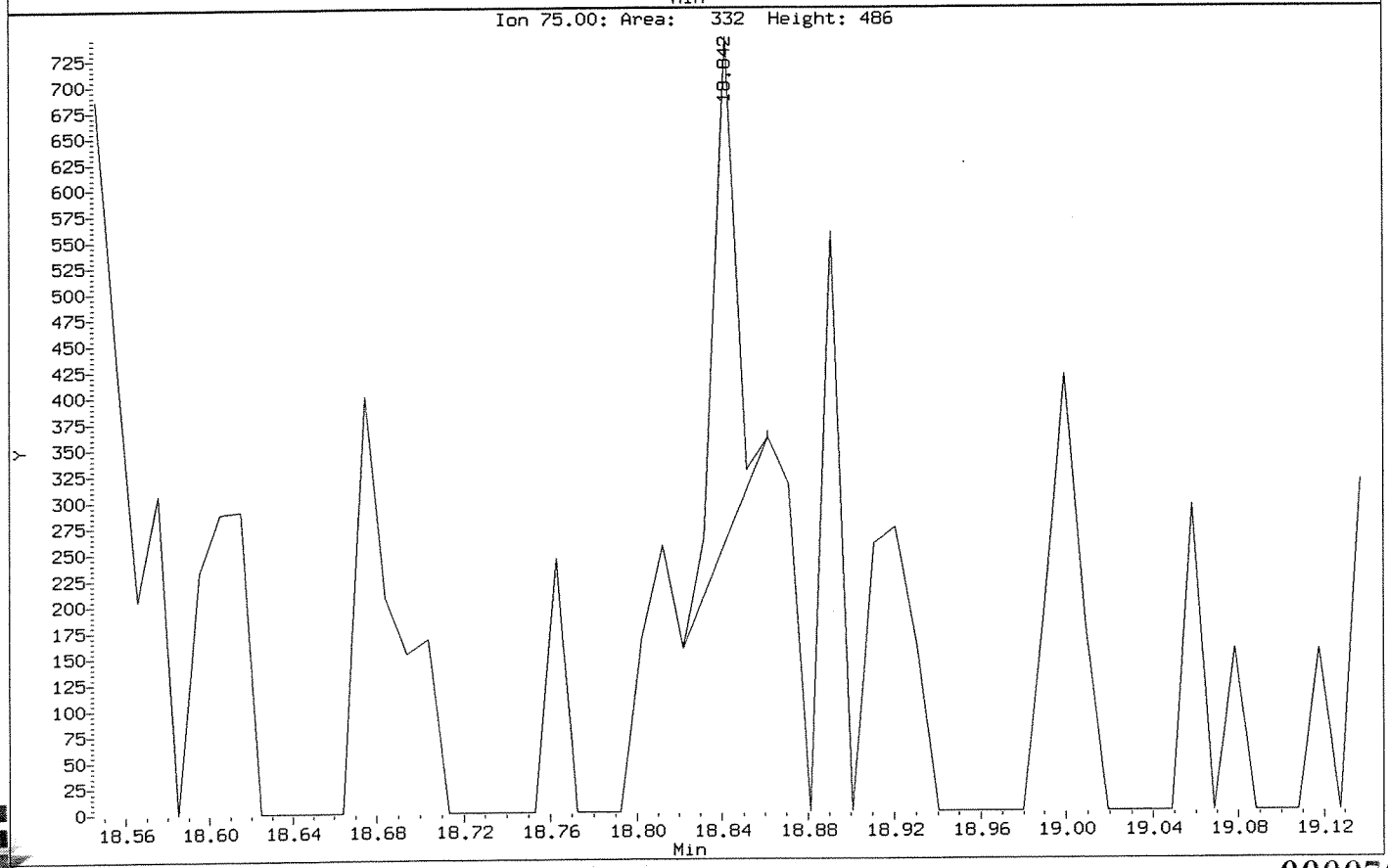


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Injection Date: 10-JUL-2006 19:08
Instrument: voa5.i
Client Sample ID: V5STD0.5PPB

Compound: 1,2-Dibromo-3-chloropropane
CAS Number: 96-12-8





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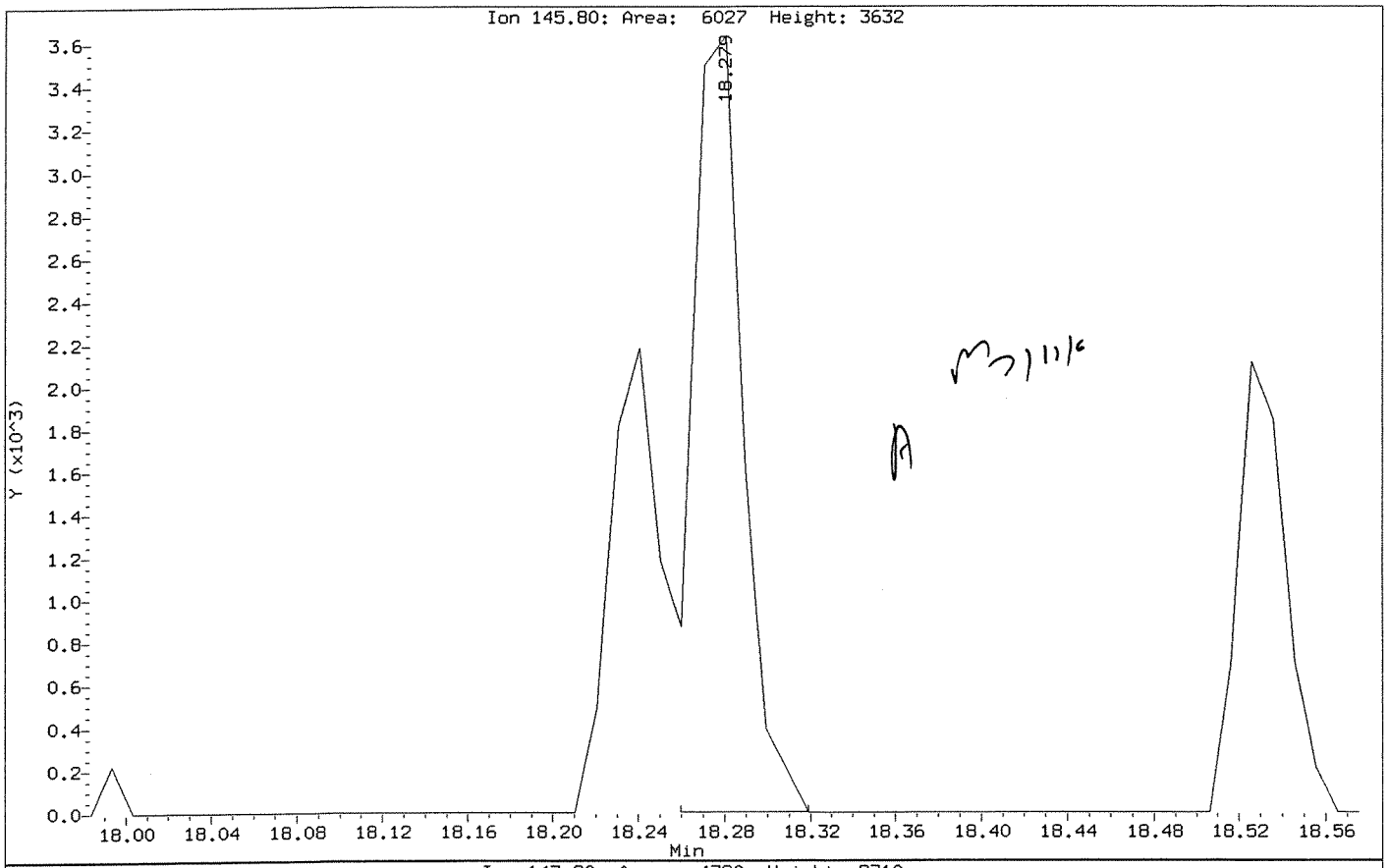
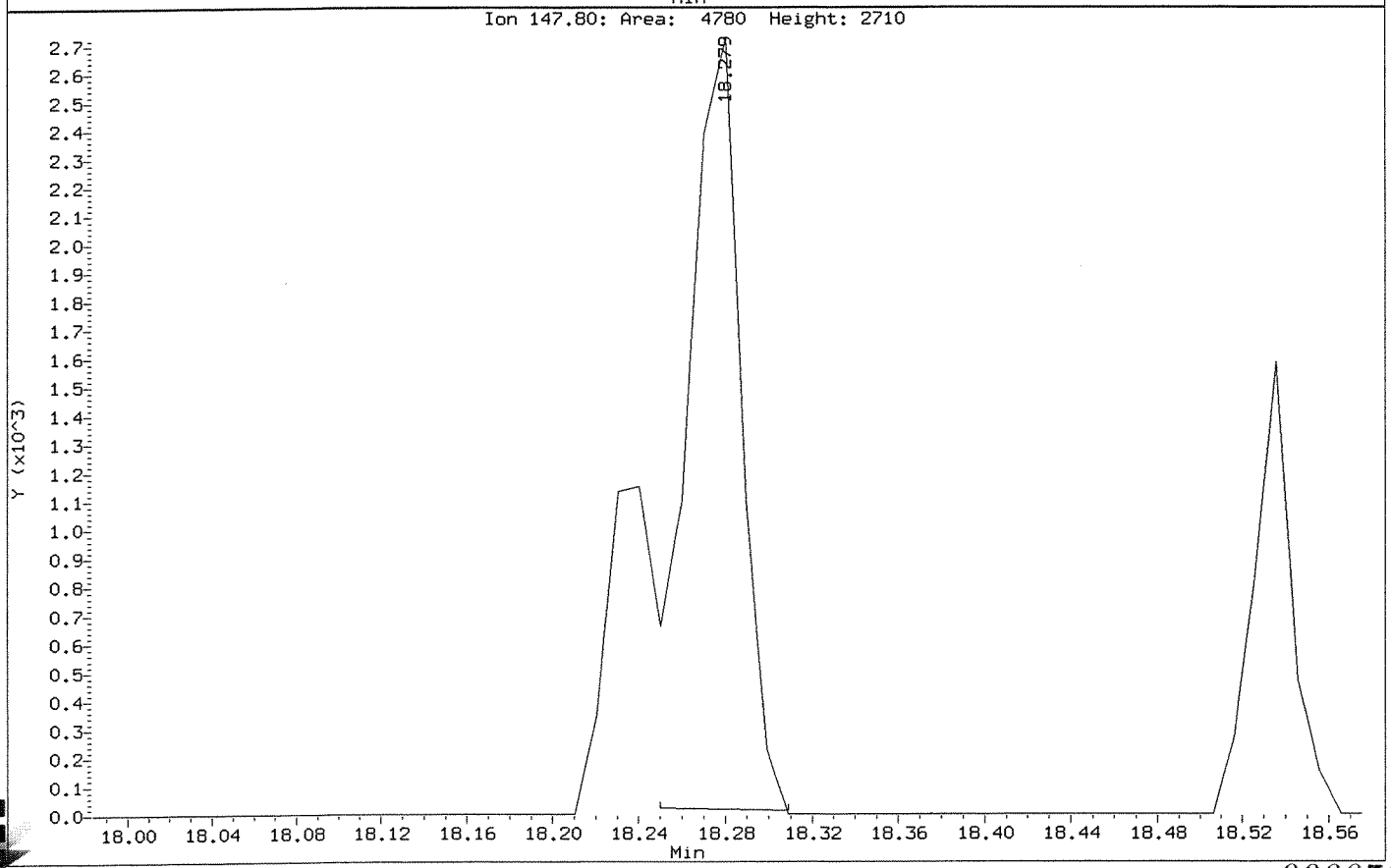
Injection Date: 10-JUL-2006 19:08
Instrument: voa5.i
Client Sample ID: V5STD0.5PPB

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





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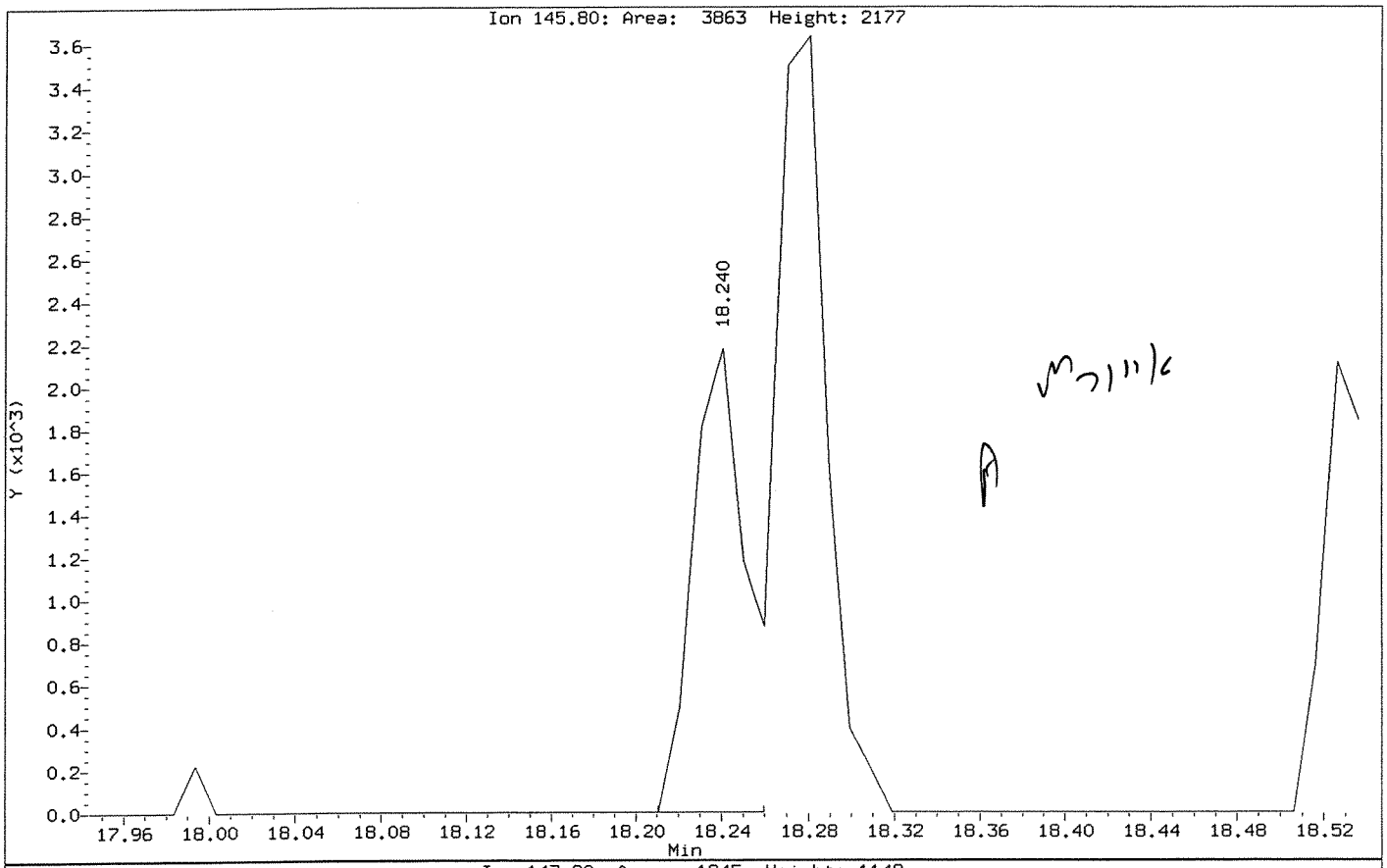
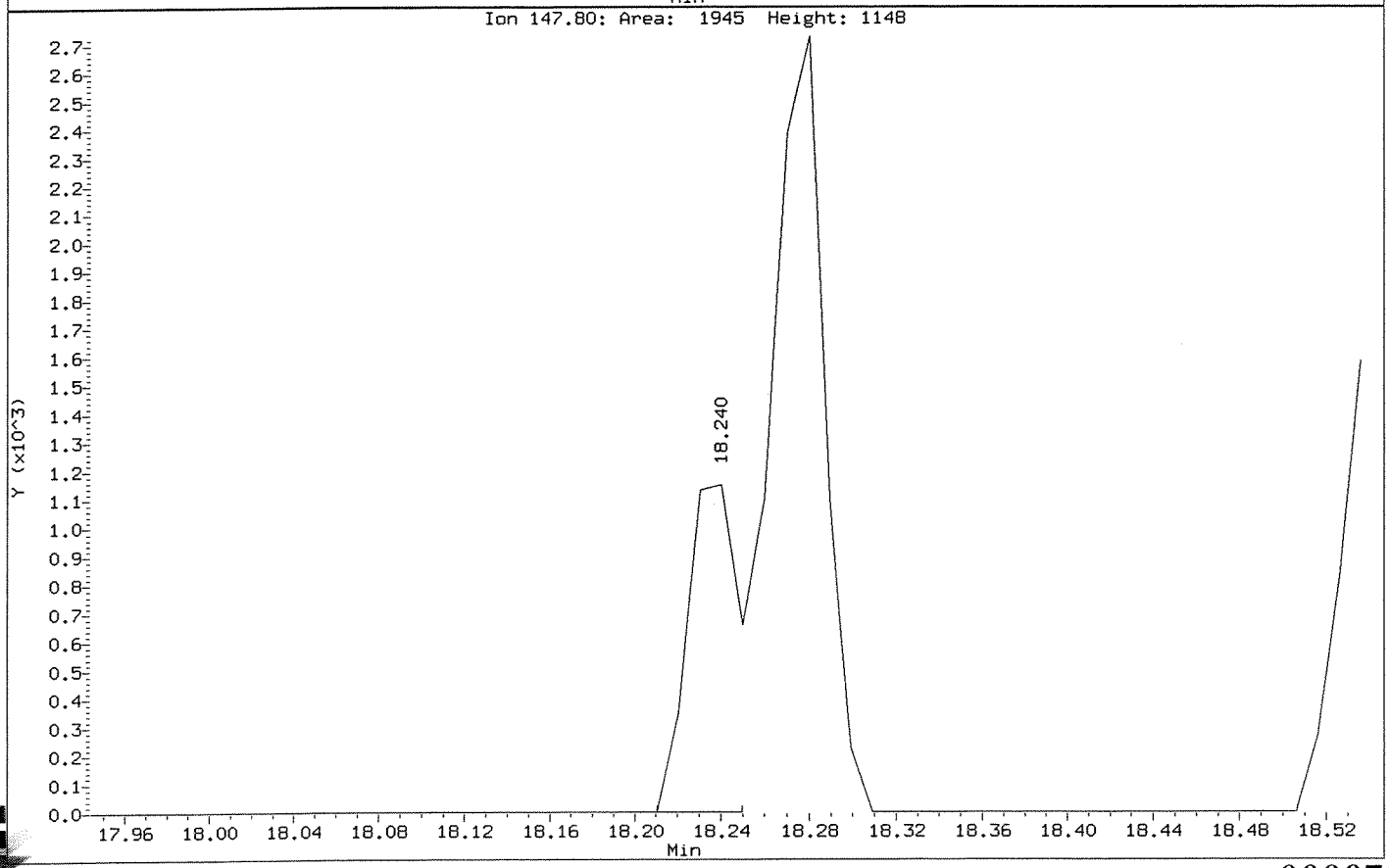
Injection Date: 10-JUL-2006 19:08
Instrument: voa5.i
Client Sample ID: V5STD0.5PPB

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1





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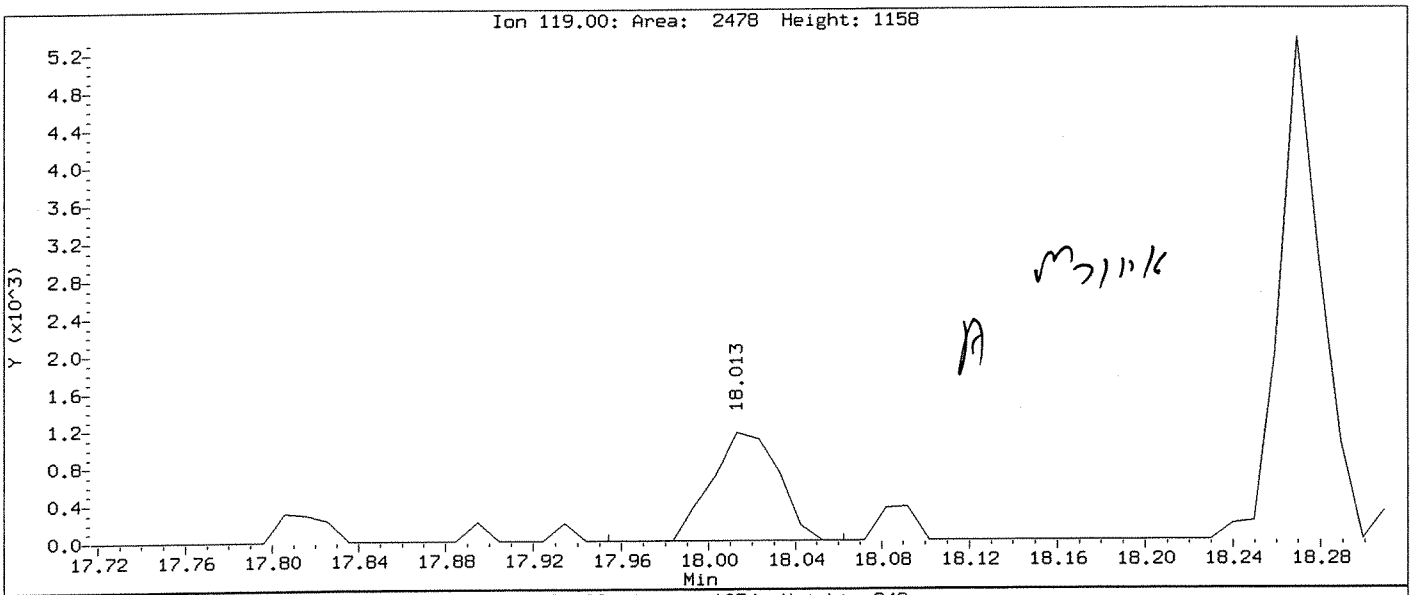
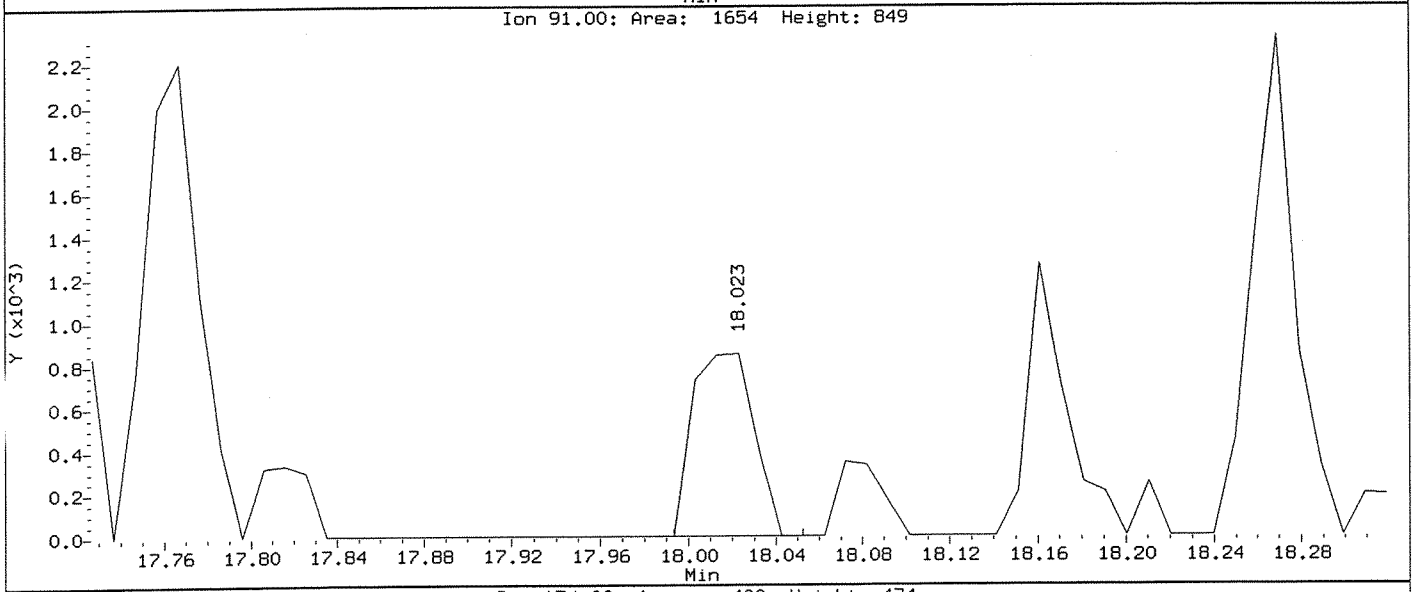
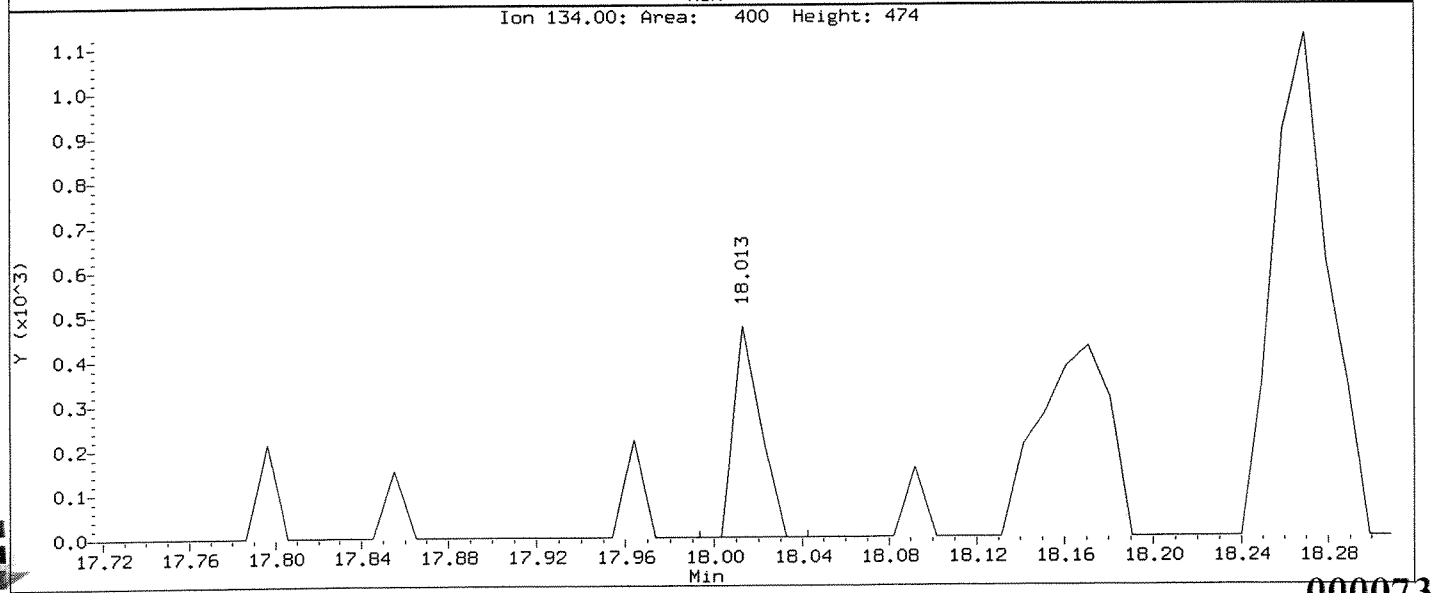
Injection Date: 10-JUL-2006 19:08
Instrument: voa5.i
Client Sample ID: V5STD0.5PPB

Compound: tert-Butylbenzene
CAS Number: 98-06-6







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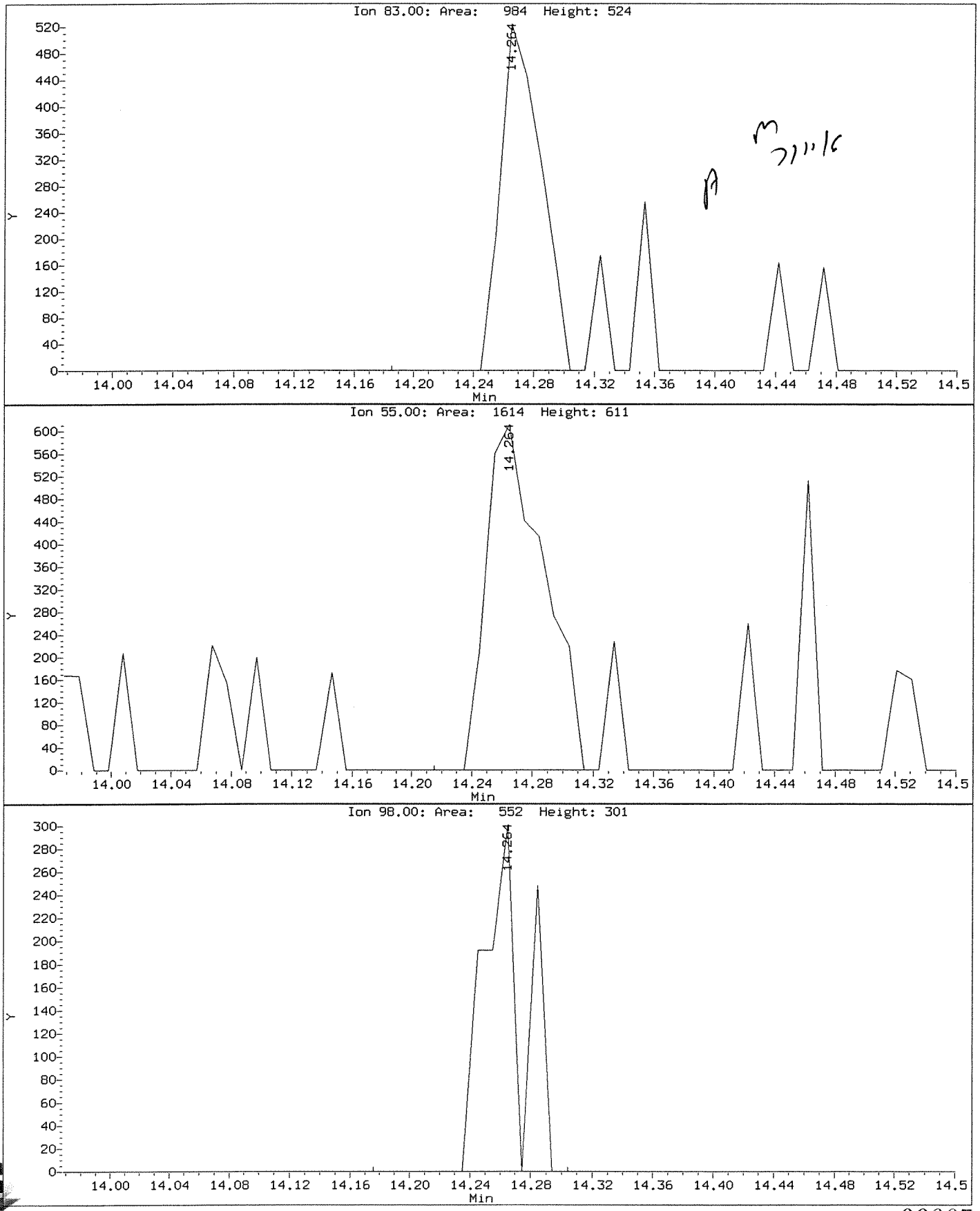
Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5STD01.D
Injection Date: 10-JUL-2006 19:08
Instrument: voa5.i
Client Sample ID: V5STD0.5PPB

Compound: Methyl cyclohexane
CAS Number: 108-87-2



Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BFB01.D

Date : 10-JUL-2006 14:27

Client ID: 50ppb BFB

Instrument: voa5.i

Sample Info: V5BFB 50NG;;;;;

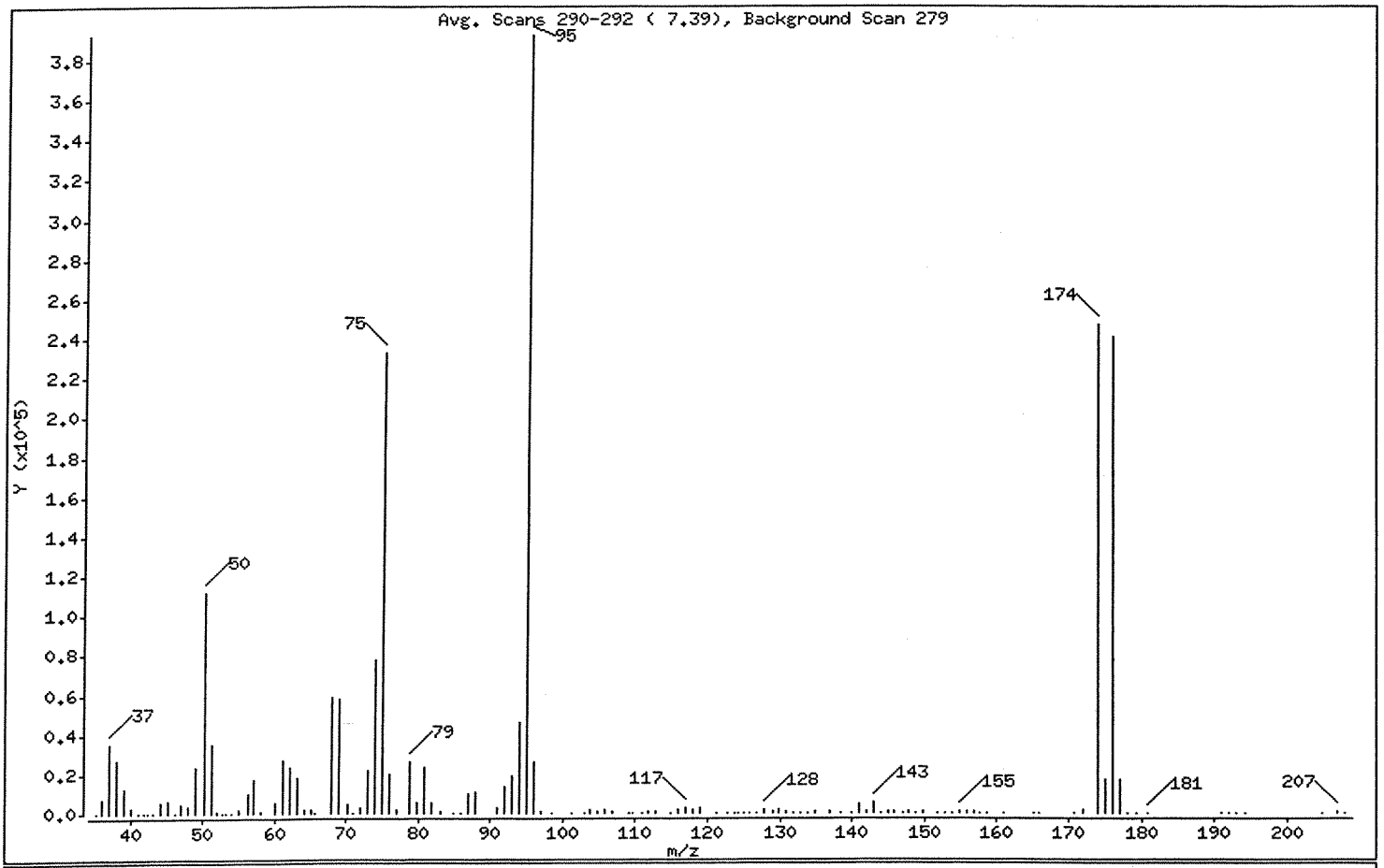
Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.41
75	30.00 - 60.00% of mass 95	59.35
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	62.92
175	5.00 - 9.00% of mass 174	4.38 (6.97)
176	95.00 - 101.00% of mass 174	61.39 (97.56)
177	5.00 - 9.00% of mass 176	4.41 (7.18)

7/11/06 ←
12T. = 2:27
7/11
RET.= ~~HH~~ 14:27
7/11
M 7/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BFB01.D

Date : 10-JUL-2006 14:27

Client ID: 50ppb BFB

Instrument: voa5.i

Sample Info: V5BFB 50NG;;;;;

Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V5BFB01.D
Spectrum: Avg. Scans 290-292 (7.39), Background Scan 279
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.15	159	69.00	57704	110.95	441	147.90	1192
35.95	6848	70.10	4445	111.85	645	148.70	427
37.05	34920	70.90	258	112.85	550	149.90	731
38.05	27344	72.00	2989	114.75	257	151.80	171
39.05	12595	73.00	21576	114.95	237	152.80	321
39.95	2871	74.00	77456	115.95	1453	154.00	137
40.95	364	75.00	233024	116.85	2775	154.90	844
41.85	237	76.00	20016	117.85	1980	156.00	452
42.25	112	77.00	2041	118.85	2425	156.90	467
43.05	398	78.90	26248	121.25	147	157.80	300
43.95	5079	79.90	5777	122.75	293	158.60	224
44.95	6220	80.90	23464	123.65	224	158.80	213
46.05	308	81.90	5463	124.15	297	160.90	314
46.95	4941	83.00	667	125.05	197	165.00	144
47.95	3465	84.80	141	125.85	152	165.90	119
48.95	23896	86.00	415	126.85	147	170.70	171
50.05	111560	86.90	9969	127.85	1991	171.80	1623
51.05	34768	87.90	10933	128.95	946	173.90	247040
51.95	1250	90.90	2410	129.85	1529	174.90	17216
52.75	186	92.00	13327	130.85	654	175.90	241024
53.15	215	93.00	18944	131.85	194	176.90	17296
54.05	155	94.00	46192	132.95	250	177.90	259
54.95	1490	95.00	392640	133.95	174	179.30	109
56.10	10116	96.00	25976	134.85	666	180.90	275
57.00	17584	97.00	622	136.85	702	190.95	115
58.10	463	98.65	107	138.45	179	191.85	241
60.00	5701	101.45	164	139.85	396	192.85	169
61.00	27304	103.05	352	140.85	4294	194.15	110
62.00	23824	103.95	2006	141.90	664	204.85	103
63.10	17632	104.95	665	142.90	5658	206.95	1051
64.00	1967	105.95	2063	143.90	241	207.95	349
65.00	1478	106.95	692	145.00	854		
65.70	380	109.25	101	145.90	604		
68.00	58880	109.85	301	147.00	427		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BFB01.D
Date : 10-JUL-2006 14:27
Client ID: 50ppb BFB
Instrument: voa5.i
Sample Info: V5BFB 50NG;;;;;
Volume Injected (uL): 1.0
Operator: ADM
Column phase: DB-624
Column diameter: 0.53

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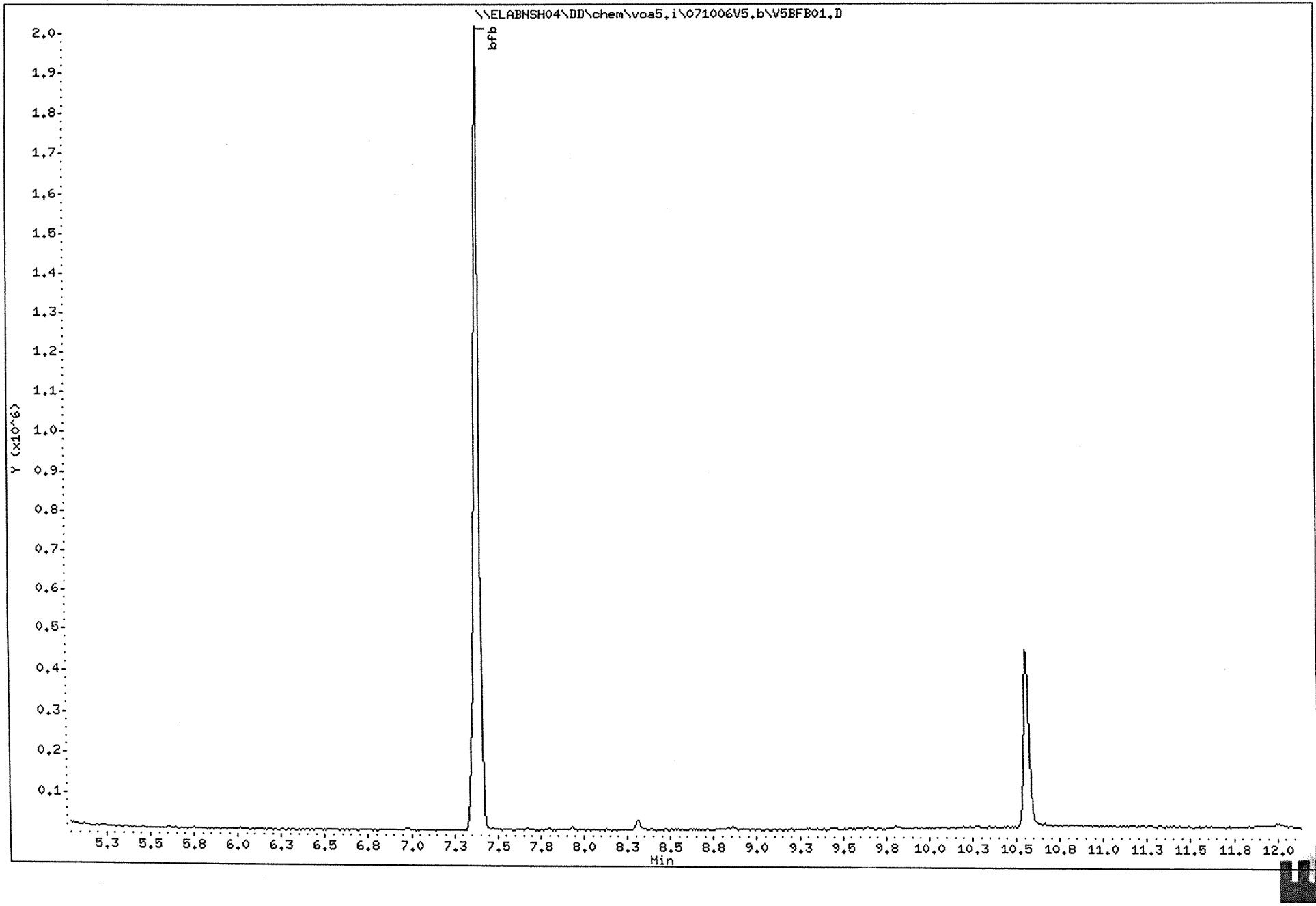


Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: V5BLK0710

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/10/06 19:36

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
100-41-4	Ethylbenzene	0.30	1.0		U
108-88-3	Toluene	0.30	1.0		U
1330-20-7	Xylene (total)	0.33	1.0		U

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BLK01.D
Report Date: 11-Jul-2006 11:40

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BLK01.D
Lab Smp Id: V5BLK0710 Client Smp ID: V5BLK0710
Inj Date : 10-JUL-2006 19:36 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5BLK0710;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 100 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

7/11/06

Concentration Formula: Amt * DF * 5*Uf/Vo

7/11/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

use this one

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.108	13.100	(1.000)	424178	30.0000	
$ 49 Dibromofluoromethane ★	111	11.085	11.078	(0.846)	231905	33.9944 ✓	33.99
$ 52 1,2-Dichloroethane-d4	102	11.914	11.906	(0.909)	34118	34.8687	34.87
$ 76 Toluene-d8	98	15.179	15.171	(0.923)	420498	30.5869	30.59
* 86 Chlorobenzene-d5	82	16.452	16.444	(1.000)	241125	30.0000	
$ 97 Bromofluorobenzene	95	17.369	17.361	(1.056)	193451	26.1229	26.12
* 110 1,4-Dichlorobenzene-d4	152	18.267	18.259	(1.000)	184555	30.0000	

★ = $\frac{231905 * 30}{424178 * 0.48247679} = 33.994361$

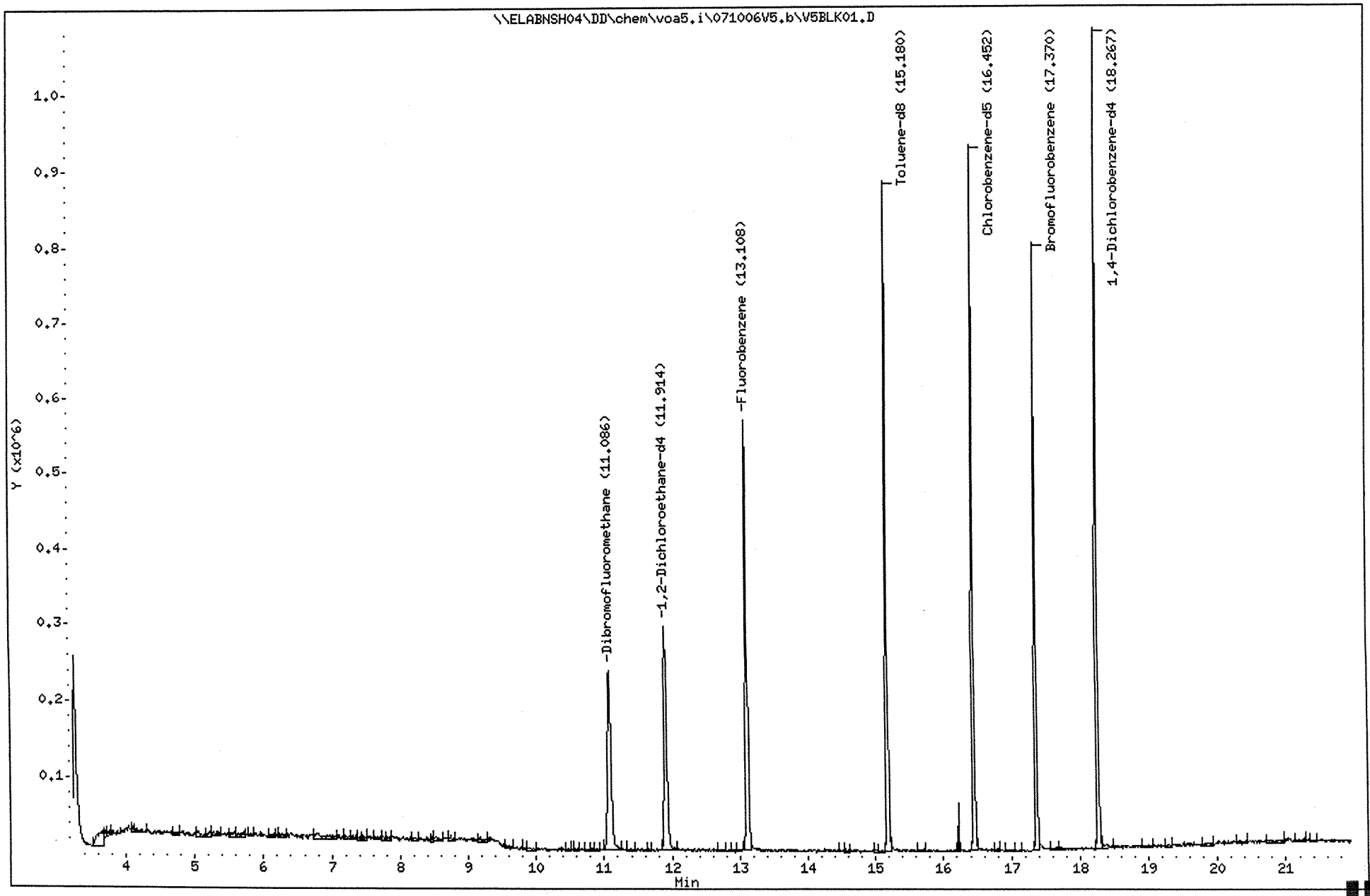
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5BLK01.D
Date : 10-JUL-2006 19:36
Client ID: V5BLK0710
Sample Info: V5BLK0710;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

000080



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0710LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07022

Matrix: (soil/water) WATER Lab Sample ID: V5BLK0710LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/10/06 16:44

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0	55	
100-41-4	Ethylbenzene	0.30	1.0	48	
108-88-3	Toluene	0.30	1.0	54	
1330-20-7	Xylene(total)	0.33	1.0	160	

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Report Date: 11-Jul-2006 11:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Lab Smp Id: V5BLK0710LCS Client Smp ID: V5BLK0710LCS
Inj Date : 10-JUL-2006 16:44 MS Autotune Date: 07-JUL-2006 08:17
Operator : ADM Inst ID: voa5.i
Smp Info : V5BLK0710LCS;;;;; 50PPB
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4942
Comment :
Method : \\ELABNSH04\DD\chem\voa5.i\071006V5.b\VWATER5.m
Meth Date : 11-Jul-2006 10:44 amonteiro Quant Type: ISTD
Cal Date : 16-MAY-2006 00:44 Cal File: V5STD01A.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.093	13.100	(1.000)	552759	30.0000	
1 Dichlorodifluoromethane	85	3.623	3.630	(0.277)	266413	44.8949	44.89
2 Chloromethane	50	3.859	3.876	(0.295)	274485	54.5419	54.54
4 Vinyl chloride	62	4.096	4.103	(0.313)	305261	51.1306	51.13
7 Bromomethane	94	4.619	4.626	(0.353)	234959	51.9134	51.91
8 Chloroethane	64	4.806	4.804	(0.367)	176154	55.0852	55.08
11 Trichlorofluoromethane	101	5.635	5.642	(0.430)	628881	56.0087	56.01
25 Trichlorotrifluoroethane	101	6.917	6.934	(0.528)	323486	53.7002	53.70(A)
10 Acrolein	56	5.596	5.603	(0.427)	295101	237.382	237.4
21 1,1-Dichloroethene	96	6.523	6.540	(0.498)	244081	54.5908	54.59
14 Acetone	43	5.803	5.820	(0.443)	443556	102.013	102.0
22 Iodomethane	142	6.552	6.560	(0.500)	495349	57.8704	57.87
28 Carbon disulfide	76	7.154	7.171	(0.546)	906813	56.4042	56.40
24 Methylene chloride	84	6.779	6.786	(0.518)	343725	53.2970	53.30
23 Acrylonitrile	53	6.602	6.589	(0.504)	638727	240.181	240.2
31 trans-1,2-Dichloroethene	96	8.151	8.148	(0.623)	300078	56.7706	56.77

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Report Date: 11-Jul-2006 11:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	32 MTBE	73	8.525	8.513	(0.651)	712390	49.4440	49.44	
	33 1,1-Dichloroethane	63	8.762	8.769	(0.669)	723138	57.6410	57.64	
	36 Vinyl acetate	43	9.167	9.164	(0.700)	1680294	106.041	106.0	
	44 cis-1,2-Dichloroethene	96	10.350	10.338	(0.791)	225950	46.4778	46.48	
M	29 1,2-Dichloroethene(total)	96				526028	100.536	100.5	
	42 2-Butanone	43	10.005	10.058	(0.764)	335339	85.4995	85.50	
	46 Bromochloromethane	128	10.696	10.703	(0.817)	159831	50.8200	50.82	
	51 Tetrahydrofuran	42	11.534	11.568	(0.881)	52859	42.7704	42.77	
	47 Chloroform	83	10.834	10.841	(0.827)	716099	47.9519	47.95	
	26 Methyl acetate	43	6.878	6.915	(0.525)	333318	57.6012	57.60	
$	49 Dibromofluoromethane	111	11.071	11.078	(0.846)	259807	29.2254	29.22	
	54 1,1,1-Trichloroethane	97	12.195	12.202	(0.931)	628255	49.3489	49.35	
	56 Cyclohexane	56	12.629	12.616	(0.965)	401633	47.3029	47.30	
	57 Carbon tetrachloride	117	12.728	12.735	(0.972)	600369	47.6833	47.68	
$	52 1,2-Dichloroethane-d4	102	11.899	11.906	(0.909)	34985	27.4376	27.44	
	58 Benzene	78	12.767	12.774	(0.975)	1021610	55.1457	55.14	
	53 1,2-Dichloroethane	62	12.027	12.034	(0.919)	681303	49.3514	49.35	
	48 2,2-Dichloropropane	77	11.002	11.009	(0.840)	535551	53.1990	53.20	
	55 1,1-Dichloropropene	75	12.511	12.508	(0.956)	407425	48.8140	48.81	
	63 Trichloroethene	95	13.655	13.672	(1.043)	319513	54.8595	54.86	
	62 1,2-Dichloropropane	63	13.586	13.593	(1.038)	317186	57.4156	57.42	
	61 Dibromomethane	93	13.527	13.534	(1.033)	268935	52.6843	52.68	
	66 Methyl methacrylate	41	14.267	14.274	(1.090)	293859	50.2131	50.21	
	64 Bromodichloromethane	83	13.695	13.702	(1.046)	570586	48.4270	48.43	
	67 2-Chloroethyl vinyl ether	63	14.247	14.241	(1.088)	304901	89.1503	89.15	
	71 cis-1,3-Dichloropropene	75	14.464	14.481	(1.105)	509914	49.3416	49.34	
	72 4-Methyl-2-pentanone	43	14.612	14.629	(1.116)	806618	99.3648	99.36	
$	76 Toluene-d8	98	15.164	15.171	(0.923)	533023	28.7612	28.76	
	78 Toluene	92	15.234	15.241	(0.927)	635656	53.5520	53.55	
	73 trans-1,3-Dichloropropene	75	14.918	14.935	(0.908)	561444	52.7377	52.74	
	80 Ethyl methacrylate	69	15.352	15.359	(0.934)	402319	51.4623	51.46	
	75 1,1,2-Trichloroethane	83	15.056	15.053	(0.916)	245586	51.5563	51.56	
	84 Tetrachloroethene	166	15.914	15.921	(0.968)	266461	53.6362	53.64	
	81 2-Hexanone	43	15.460	15.467	(0.941)	619348	101.049	101.0	
	82 Dibromochloromethane	129	15.529	15.536	(0.945)	447739	50.1994	50.20	
	83 1,2-Dibromoethane	107	15.737	15.754	(0.957)	329312	55.7824	55.78	
	69 Methyl cyclohexane	83	14.267	14.264	(1.090)	299516	44.4297	44.43	
*	86 Chlorobenzene-d5	82	16.437	16.444	(1.000)	325052	30.0000		(Q)
	87 Chlorobenzene	112	16.467	16.474	(1.002)	708958	44.9293	44.93	
	85 1,1,1,2-Tetrachloroethane	131	16.417	16.414	(0.999)	331603	44.5685	44.57	(Q)
	88 Ethylbenzene	91	16.615	16.622	(1.011)	1327655	47.5242	47.52	
	89 m,p-Xylene	91	16.763	16.770	(1.020)	2244098	96.7735	96.77	
M	100 Xylene(total)	91				3379118	156.172	156.2	
	93 o-Xylene	91	17.058	17.066	(1.038)	1135020	45.9130	45.91	
	91 Styrene	104	17.009	17.016	(1.035)	703961	50.0274	50.03	
	90 Bromoform	173	16.851	16.858	(1.025)	291318	49.0582	49.06	
	96 Isopropylbenzene	105	17.325	17.322	(1.054)	1153033	50.7943	50.79	

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Report Date: 11-Jul-2006 11:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
$ 97 Bromofluorobenzene	95	17.354	17.361	(1.056)	298433	29.8942	29.89	
92 1,1,2,2-Tetrachloroethane	83	17.068	17.075	(0.935)	393904	51.6766	51.68	
79 1,3-Dichloropropane	76	15.293	15.300	(0.930)	520764	52.6972	52.70	
94 1,2,3-Trichloropropane	110	17.167	17.174	(1.044)	116192	47.8071	47.81	
101 n-Propylbenzene	91	17.631	17.628	(0.966)	1571694	58.7384	58.74	
106 1,3,5-Trimethylbenzene	105	17.808	17.815	(0.976)	1014355	53.4215	53.42	
104 1,2,4-Trimethylbenzene	105	18.075	18.082	(0.990)	1138751	58.2725	58.27	
107 sec-Butylbenzene	105	18.163	18.170	(0.995)	1223613	56.1366	56.14	
105 tert-Butylbenzene	119	18.015	18.013	(0.987)	812475	56.8967	56.90	
108 1,3-Dichlorobenzene	146	18.232	18.239	(0.999)	621262	56.3597	56.36	(M)
* 110 1,4-Dichlorobenzene-d4	152	18.252	18.259	(1.000)	262739	30.0000		(Q)
111 1,4-Dichlorobenzene	146	18.272	18.279	(1.001)	658032	44.6210	44.62	
114 n-Butylbenzene	91	18.548	18.545	(1.016)	987450	51.8705	51.87	
113 1,2-Dichlorobenzene	146	18.528	18.526	(1.015)	574019	57.6343	57.63	
115 1,2-Dibromo-3-chloropropane	157	18.844	18.851	(1.032)	67112	48.3807	48.38	
98 Bromobenzene	156	17.512	17.519	(0.959)	333933	55.1604	55.16	
102 2-Chlorotoluene	91	17.710	17.717	(0.970)	1085748	59.7792	59.78	
103 4-Chlorotoluene	91	17.759	17.766	(0.973)	1121890	55.2625	55.26	
116 1,2,4-Trichlorobenzene	180	19.840	19.838	(1.087)	361154	58.4020	58.40	
117 Naphthalene	128	20.048	20.055	(1.098)	827360	52.3014	52.30	
112 p-Isopropyltoluene	119	18.272	18.269	(1.001)	982878	53.1791	53.18	
118 Hexachlorobutadiene	225	20.067	20.055	(1.099)	159879	54.9252	54.92	
119 1,2,3-Trichlorobenzene	180	20.225	20.222	(1.108)	340181	58.4606	58.46	

QC Flag Legend

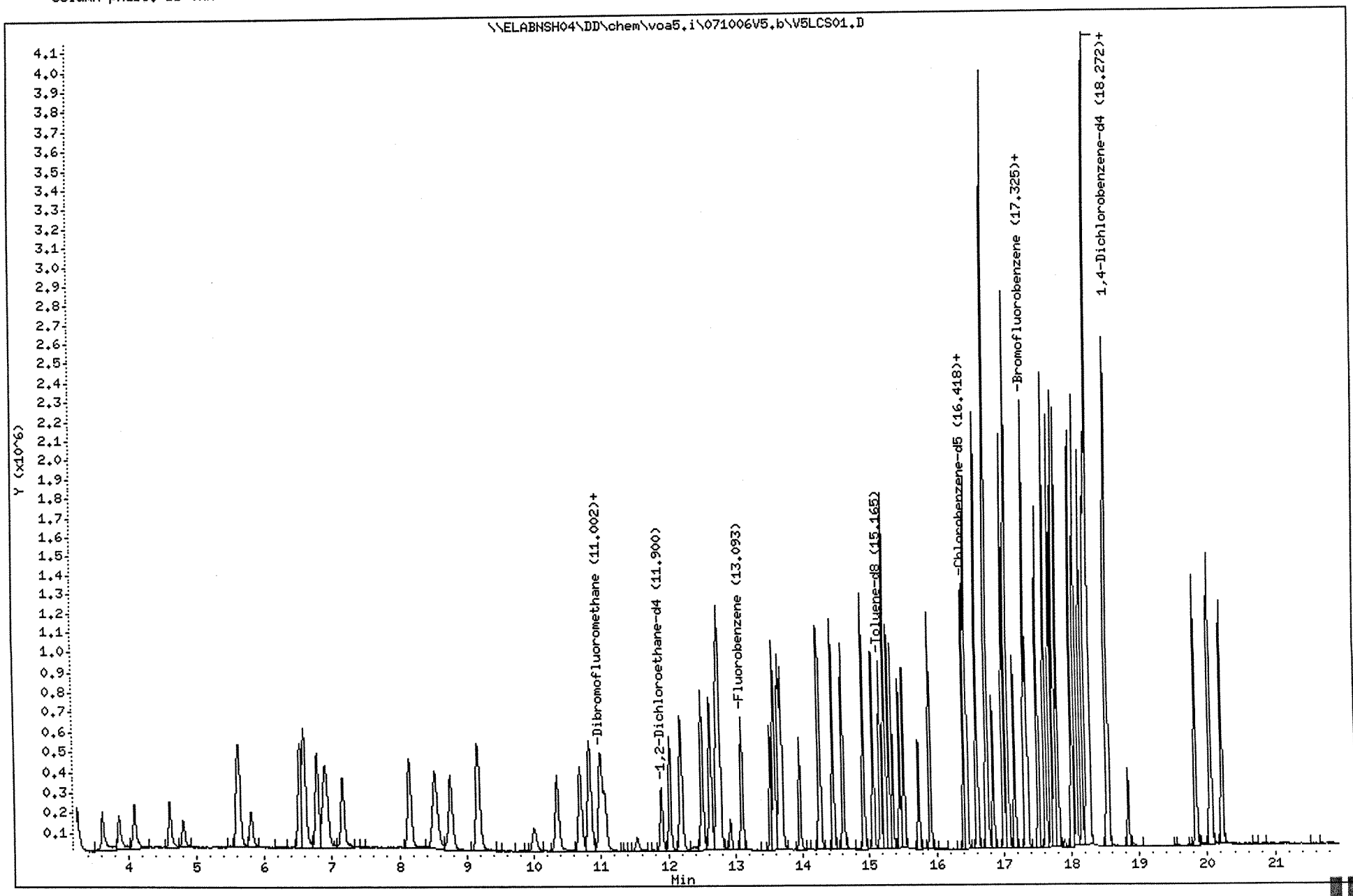
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Date : 10-JUL-2006 16:44
Client ID: V5BLK0710LCS
Sample Info: V5BLK0710LCS;;;;; 50PPB
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

000085



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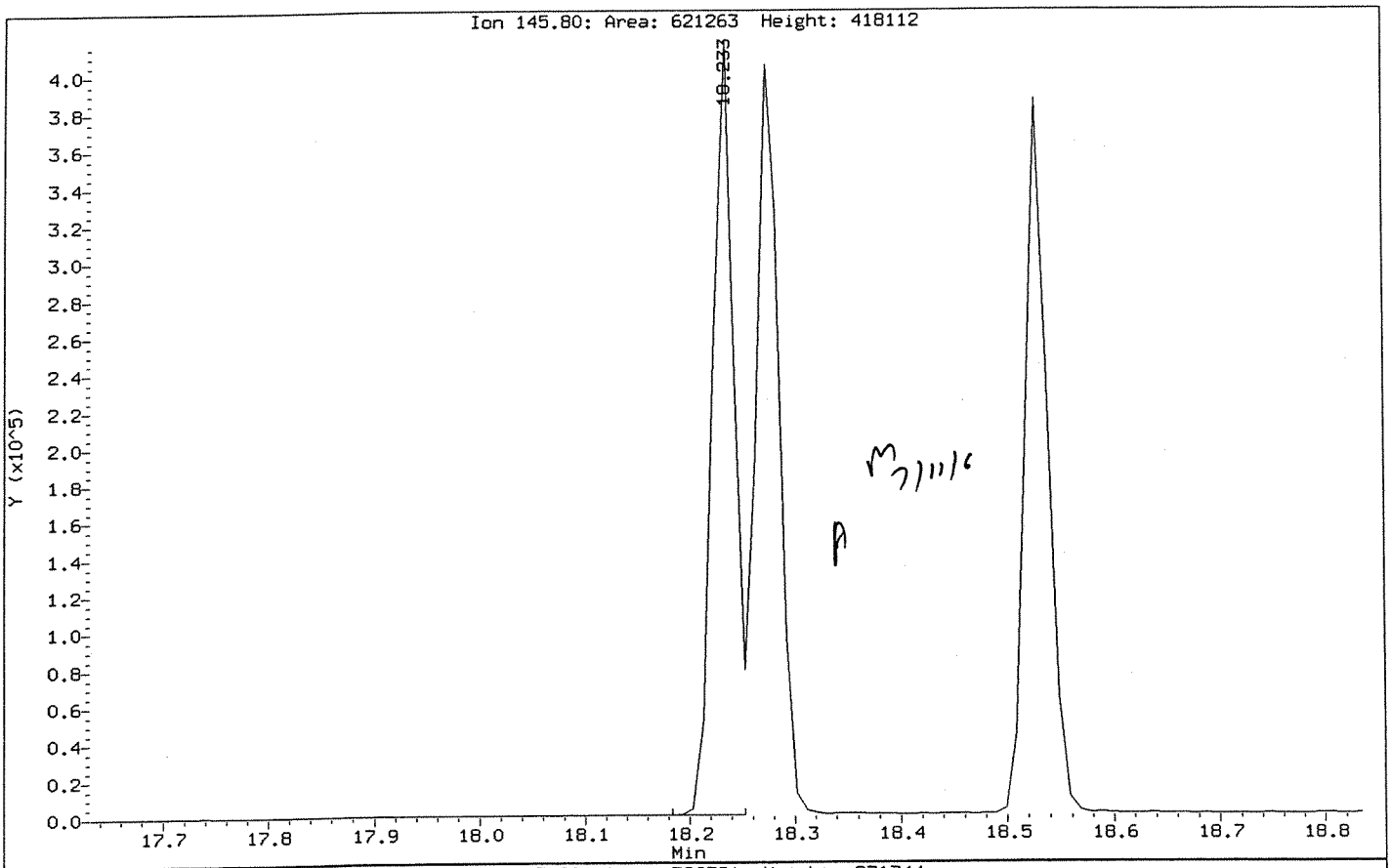
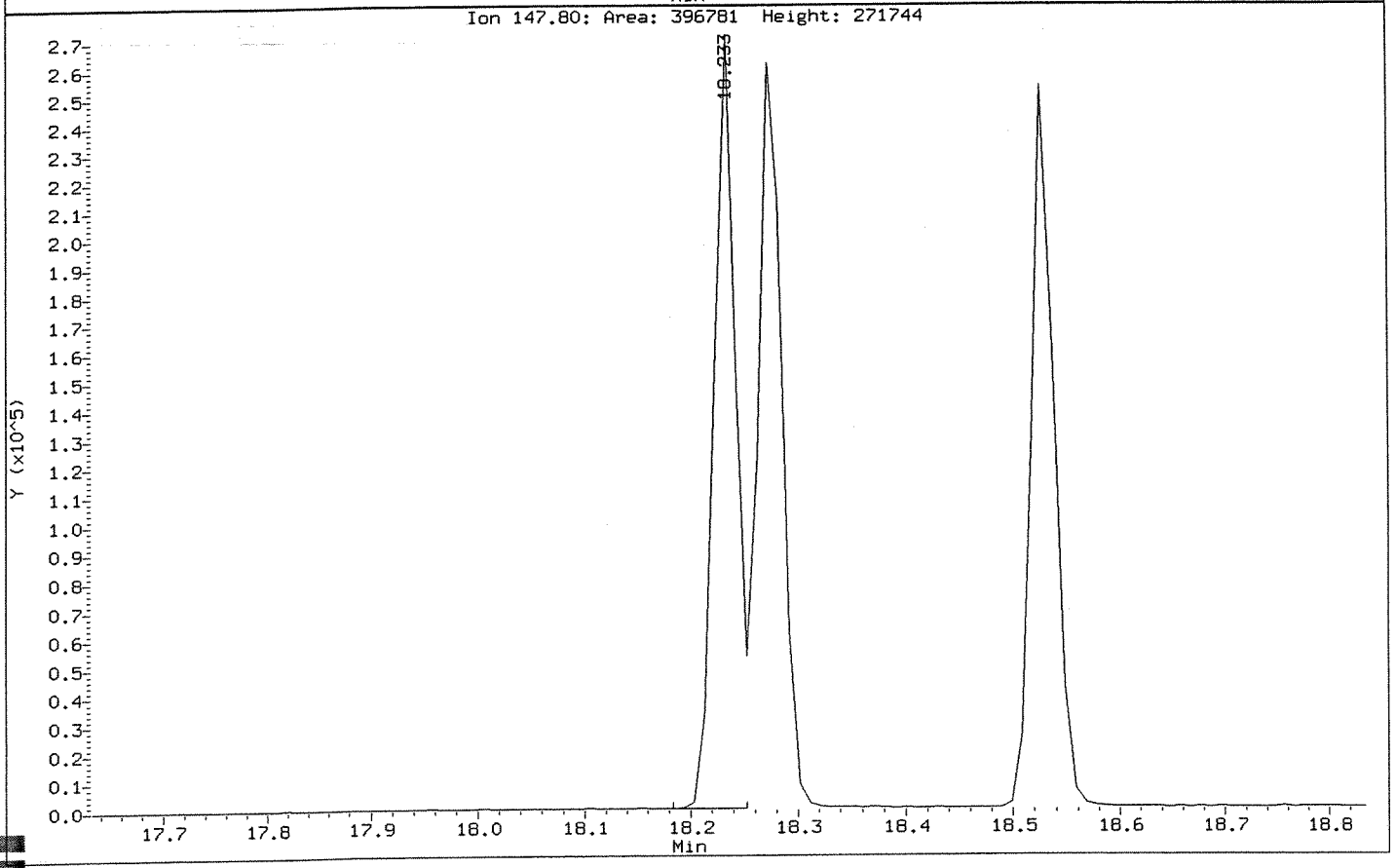
Data File: \\ELABNSH04\DD\chem\voa5.i\071006V5.b\V5LCS01.D
Injection Date: 10-JUL-2006 16:44
Instrument: voa5.i
Client Sample ID: V5BLK0710LCS

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1





Empirical Laboratories

Comment: 8260B/624/524.2
Operator: ADM
Data Path: D:\HPCHEM\1\DATA\071006V5\
Pre-Seq Cmd:
Post-Seq Cmd:

695

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Blank Vial: 100 Meth: VWATER5.M Data: PREBLK01.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	blank;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
2	Type: BFB Vial: 50 Meth: V5BFB.M Data: V5BFB01.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5BFB 50NG;;;;; ;3;BFB;;;all.sub;#4916 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
3	Type: Calibration Vial: 1 Meth: VWATER5.M Data: V5STD08A.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5STD200PPB;;;;; ;1;;;8;gm-all.sub;#4928,4941 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
4	Type: Calibration Vial: 2 Meth: VWATER5.M Data: V5STD08.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5STD200PPB;;;;; ;1;;;8;gm-all.sub;#4928,4941 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
5	Type: Calibration Vial: 3 Meth: VWATER5.M Data: V5STD07.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5STD100PPB;;;;; ;1;;;7;gm-all.sub;#4928,4941 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
6	Type: Calibration Vial: 4 Meth: VWATER5.M Data: V5STD06.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5STD50PPB;;;;; ;1;;;6;gm-all.sub;#4928,4941 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
7	Type: Spike Vial: 5 Meth: VWATER5.M Data: V5LCS01.D Area% Report :per Method Quant Report :per Method CR Database :per Method
	V5BLK0710LCS;;;;; 50PPB ;3;LCS;;;gm-all.sub;#4928,4942 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method

```
8   Type: Calibration V5STD20PPB;;;;;
    Vial: 6            ;1;;;5;gm-all.sub;#4928,4941
    Meth: VWATER5.M    Barcode:
    Data: V5STD05.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V5STD10PPB;;;;;
    Vial: 7            ;1;;;4;gm-all.sub;#4928,4941
    Meth: VWATER5.M    Barcode:
    Data: V5STD04.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Calibration V5STD2.0PPB;;;;;
    Vial: 8            ;1;;;3;gm-all.sub;#4928,4941
    Meth: VWATER5.M    Barcode:
    Data: V5STD03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V5STD1.0PPB;;;;;
    Vial: 9            ;1;;;2;gm-all.sub;#4928,4941
    Meth: VWATER5.M    Barcode:
    Data: V5STD02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V5STD0.5PPB;;;;;
    Vial: 10           ;1;;;1;gm-all.sub;#4928,4941
    Meth: VWATER5.M    Barcode:
    Data: V5STD01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank        V5BLK0710;;;;;
    Vial: 100          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: V5BLK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Blank        V5BLK0710;;;;;
    Vial: 100          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: V5BLK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Sample       0607022-12;;;;;tb
    Vial: 11           ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0702212.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Sample       0607022-01;;;;;eb
    Vial: 12           ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0702201.D    Samp Amt: 0          Multiplr: 1
```

6096

PHC 2.0

```
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
17  Type: Sample      0607022-02;;;;;eb
    Vial: 13          ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M   Barcode:
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
18  Type: Sample      0607023-02;;;;;eb
    Vial: 14          ch2.v07023;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0702302.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
19  Type: Sample      0607017-02;;;;;tb
    Vial: 15          nas.v07017;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701702.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
20  Type: Sample      0607017-01;;;;;
    Vial: 16          nas.v07017;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701701.D   Samp Amt: 0          Multiplr: 1
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
21  Type: Sample      0607019-09;;;;;tb
    Vial: 17          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701909.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
22  Type: Sample      0607019-04;;;;;
    Vial: 18          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701904.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
23  Type: Sample      0607019-05;;;;;
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    Meth: VWATER5.M   Barcode:
    Data: 0701905.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
24  Type: Sample      0607019-06;;;;;
    Vial: 20          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701906.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
25  Type: Sample      0607019-07;;;;;
```


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```
    Meth: VWATER5.M    Barcode:
    Data: 0701907.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
26  Type: Sample       0607019-08;;;;;
    Vial: 22           ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0701908.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
27  Type: Sample       0607019-02;;;;;2x-25ml
    Vial: 23           ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0701902D.D   Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
28  Type: Sample       0607019-03;;;;;2x-25ml
    Vial: 24           ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0701903D.D   Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
29  Type: Sample       0607019-08;;;;;MS
    Vial: 25           ear.v07019;3;MS;;;etrobafb624.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0701908M.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
30  Type: Sample       0607019-08;;;;;MSD
    Vial: 26           ear.v07019;3;MSD;;;etrobafb624.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: 0701908S.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
31  Type: Blank        blank;;;;;
    Vial: 100          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M    Barcode:
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

PHC25 6098

Empirical Laboratories
ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6394-1, 6411-1-3, 6419-1-3	7:30 7/7/6 M		TCLP	VOA
6408-1-4, 6406-2,3 6466-1-3, 5-7	"			VOA
7007-1,2 7012-1, 6424-1-3	"			"
7018-1-3	10:15am 7/7/06 TJM	10:35am 7/7/06 TJM	analysis	GRO
6423-01 7001-01-02	Cam for 4TV	1:30 7/7/6 M	TCLP	VOA
6424-03 7022-1, 2, 12	9:55 7/10/6 M			VOA
7023-02 7019-2-9	"			"
6468-1-13-14	12:45 7/10/6 M			VOA
6468-5,9	10:20 7/11/6 M			VOA
7023-01	Cam for Metr.	10:30 7/11/6 M	TCLP	VOA
7025-02, 7019-9 7024-1-21	12:05 7/11/6 M			VOA
6466-06 7026-02	1:50 7/11/6 M			VOA
7015-01	8:45 7/12/6 M			VOA

ANALYTICAL REPORT

MAIN DATA PACKAGE – ORGANIC

SEMIVOLATILE PAH SECTION

CH2M Hill, Inc.

WO #0607022
Part 3 of 3

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607022

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-03	51CFM01S060706DL	5
0607022-03	51CFM01S060706	1
0607022-04	51CFM02S060706	1
0607022-04	51CFM02S060706DL	5
0607022-05	51CFM03S060706	1
0607022-05	51CFM03S060706DL	20
0607022-06	51CFM04S060706	1
0607022-06	51CFM04S060706DL	200
0607022-07	51CFM05S060706	1
0607022-07	51CFM05S060706DL	100
0607022-08	51CFM06S060706	1
0607022-08	51CFM06S060706DL	2
0607022-09	51CFM07S060706	1
0607022-09	51CFM07S060706DL	10
0607022-10	51CFM08S060706	1
0607022-10	51CFM08S060706DL	2
0607022-11	51DUP1S060706	1
0607022-11	51DUP1S060706DL	5

Semi-Volatile PAHs

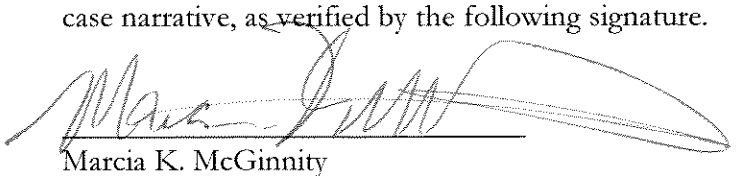
Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (automated soxtherm extraction followed by capillary column GC/MS) for soils and 3510C/8270C (separatory funnel extraction followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: The low concentration water PAH quantitation limits were obtained using 3510C extraction with a 0.5ml final volume and full scan 8270C analysis modified for increased sensitivity with calibration from 0.1ng/µL to 20ng/µL for a nominal water calibration range starting at 0.050µg/L. All instrument enhancements were applied to method QC as well as instrument QC.
- DFTPP Tuning: All method tuning criteria were met.
- Initial Calibration Criteria: All method criteria were met for the target analytes.
- Continuing Calibration Criteria: All method calibration criteria were met for the target analytes with the exception that benzo(k)fluoranthene and pyrene exceeded 20% difference on the high side at 21.7% and 30.2%, respectively, in the low concentration water calibration verification standard. These analytes were not detected in the associated samples.
- Blank Results: No target analytes were detected in the associated method blanks.
- Surrogate Recoveries: All surrogate recoveries were within limits for the water analyses and the diluted soil analyses. Recoveries of the surrogate d14-terphenyl exceeded the limit of 110% as high as 137% in some of the undiluted soil analyses – see form 2.

- Internal Standard Area Counts: Due to the sample matrix, d12-chrysene and/or d12-perylene area counts were below 50% of that found in the associated calibration standard as low as 14% for the undiluted analyses of the soil samples. All soil samples were reanalyzed at the dilutions indicated in the table above with area counts for the internal standards within 50% -200% of that found in the associated calibration verification standard.
- LCS Results: All recoveries were within limits. It should be noted that the spike solutions for the soil extractions did not include 1-methylnaphthalene.
- MS/MSD Results: In spike samples 51CFM01S060706MS/MSD, 12 of 34 recoveries and 7 of 17 relative percent differences were outside the control limits. See form 3 for specifics. This is attributed to sample matrix and analyte concentrations which required dilutions.
- Dilutions: The samples were analyzed at the dilutions indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

[redacted] Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022-															
01 1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J+ HCl pitted 3J+ UNPRES			Grab		
02 2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3				Grab		
03 3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J- UNPRES			Grab		
04 4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05 5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06 6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07 7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08 8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09 9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1				Grab		
-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks CH2M HILL Constructors, Inc.					
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	1300

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

3.0

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Twn Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnaphthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		35,10,11 - UNPRES	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
1023 01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,1K-UNPRES	Composite		
1022 12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2S-HCLPRES			
1023 02	TB-2-060706	✓	W	✓				2			✓			

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	BCW

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

3.0

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 COC ID(s): 346570-001

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Boto Today's Date 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-7

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen C
Frozen _____

# of Coolers 1 Temp. of Coolers 3.0

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0710B1	81	76	122						0
02	SBLK0710B1LC	88	69	95						0
03	51EQB1W06070	93	70	123						0
04	51EQB2W06070	75	67	117						0
05										
06										
07										
08										
09										
10										
11										
12										
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26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	1.0
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	1.0
S3 (TPH) = Terphenyl-d14	(55-125)	1.0

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	51CFM01S0607	54	59	107						0
02	51CFM01S0607	58	57	112*						1
03	51CFM02S0607	68	67	102						0
04	51CFM03S0607	59	55	95						0
05	51CFM04S0607	58	64	150*						1
06	51CFM05S0607	44	51	115*						1
07	51CFM06S0607	61	56	107						0
08	51CFM07S0607	60	58	103						0
09	51CFM08S0607	57	57	137*						1
10	51DUP1S06070	52	56	123*						1
11	SBLK0710BS1	58	54	74						0
12	SBLK0710BS1L	58	56	97						0
13	51CFM06S0607	65D	59D	66D						0
14	51CFM08S0607	65D	60D	77D						0
15	51CFM04S0607	0D	0D	0D						0
16	51CFM05S0607	0D	0D	0D						0
17	51CFM03S0607	52D	51D	48D						0
18	51CFM07S0607	57D	54D	49D						0
19	51CFM01S0607	67D	66D	70D						0
20	51CFM02S0607	58D	62D	64D						0
21	51DUP1S06070	74D	79D	94D						0
22	51CFM01S0607	55	59	72						0
23										
24										
25										
26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	3400
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	3400
S3 (TPH) = Terphenyl-d14	(55-110)	3400

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710B1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	1.000	0.0000	0.7094	71	40-110
Acenaphthylene	1.000	0.0000	0.6969	70	45-110
Anthracene	1.000	0.0000	0.7829	78	65-125
Benzo(a)anthracene	1.000	0.0000	0.8103	81	60-130
Benzo(b)fluoranthene	1.000	0.0000	0.7275	73	50-135
Benzo(k)fluoranthene	1.000	0.0000	1.002	100	50-140
Benzo(g,h,i)perylene	1.000	0.0000	0.6836	68	50-150
Benzo(a)pyrene	1.000	0.0000	0.7216	72	55-145
Chrysene	1.000	0.0000	0.9537	95	60-130
Dibenz(a,h)anthracene	1.000	0.0000	0.6189	62	55-145
Fluoranthene	1.000	0.0000	0.8450	84	65-130
Fluorene	1.000	0.0000	0.7345	73	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.0000	0.7262	73	50-150
2-Methylnaphthalene	1.000	0.0000	0.6906	69	25-110
1-Methylnaphthalene	1.000	0.0000	0.6922	69	25-110
Naphthalene	1.000	0.0000	0.6733	67	25-110
Phenanthrene	1.000	0.0000	0.7479	75	65-120
Pyrene	1.000	0.0000	1.053	105	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2209	66	45-110
Acenaphthylene	3333	0.0000	2244	67	50-105
Anthracene	3333	0.0000	2690	81	55-105
Benzo(a)anthracene	3333	0.0000	3040	91	60-110
Benzo(b)fluoranthene	3333	0.0000	3186	96	55-115
Benzo(k)fluoranthene	3333	0.0000	2820	85	55-110
Benzo(g,h,i)perylene	3333	0.0000	3004	90	35-135
Benzo(a)pyrene	3333	0.0000	3115	93	60-120
Chrysene	3333	0.0000	2939	88	55-105
Dibenz(a,h)anthracene	3333	0.0000	2828	85	40-130
Fluoranthene	3333	0.0000	2734	82	55-110
Fluorene	3333	0.0000	2445	73	50-105
Indeno(1,2,3-cd)pyrene	3333	0.0000	3147	94	40-130
2-Methylnaphthalene	3333	0.0000	1772	53	40-110
Naphthalene	3333	0.0000	1684	50	30-110
Phenanthrene	3333	0.0000	2728	82	55-105
Pyrene	3333	0.0000	3284	98	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	3401	389.1	2633	66	45-110
Acenaphthylene	3401	0.0000	2422	71	50-105
Anthracene	3401	689.7	3310	77	55-105
Benzo(a)anthracene	3401	3288	5681	70	60-110
Benzo(b)fluoranthene	3401	4733	8525	111	55-115
Benzo(k)fluoranthene	3401	1590	4136	75	55-110
Benzo(g,h,i)perylene	3401	1697	3275	46	35-135
Benzo(a)pyrene	3401	3616	6299	79	60-120
Chrysene	3401	4061	6411	69	55-105
Dibenz(a,h)anthracene	3401	520.6	2509	58	40-130
Fluoranthene	3401	5450	7065	47*	55-110
Fluorene	3401	401.9	2646	66	50-105
Indeno(1,2,3-cd)pyrene	3401	1892	3514	48	40-130
2-Methylnaphthalene	3401	74.21	1824	51	40-110
Naphthalene	3401	31.69	1639	47	30-110
Phenanthrene	3401	3631	5456	54*	55-105
Pyrene	3401	4811	8838	118*	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3401	3214	83	20	50	45-110
Acenaphthylene	3401	2382	70	2	50	50-105
Anthracene	3401	4748	119*	36	50	55-105
Benzo(a)anthracene	3401	10670	217*	61*	50	60-110
Benzo(b)fluoranthene	3401	16720	352*	65*	50	55-115
Benzo(k)fluoranthene	3401	6329	139*	42	50	55-110
Benzo(g,h,i)perylene	3401	4878	94	39	50	35-135
Benzo(a)pyrene	3401	11920	244*	62*	50	60-120
Chrysene	3401	11760	226*	59*	50	55-105
Dibenz(a,h)anthracene	3401	3448	86	32	50	40-130
Fluoranthene	3401	14960	280*	72*	50	55-110
Fluorene	3401	3484	91	27	50	50-105
Indeno(1,2,3-cd)pyrene	3401	5480	105	44	50	40-130
2-Methylnaphthalene	3401	2003	57	9	50	40-110
Naphthalene	3401	1846	53	12	50	30-110
Phenanthrene	3401	14200	311*	89*	50	55-105
Pyrene	3401	21100	479*	82*	50	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 7 out of 17 outside limits
Spike Recovery: 12 out of 34 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710B1

Instrument ID: BNA3 Date Extracted: 07/10/06

Matrix: (soil/water) WATER Date Analyzed: 07/17/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1440

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06
02	51EQB1W06070	0607022-01	0702201	07/17/06
03	51EQB2W06070	0607022-02	0702202	07/17/06
04				
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COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710BS1

Instrument ID: BNA1 Date Extracted: 07/10/06

Matrix: (soil/water) SOIL Date Analyzed: 07/11/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1055

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	51CFM01S0607	0607022-03	0702203M	07/10/06
02	51CFM01S0607	0607022-03	0702203S	07/10/06
03	51CFM02S0607	0607022-04	0702204	07/10/06
04	51CFM03S0607	0607022-05	0702205	07/10/06
05	51CFM04S0607	0607022-06	0702206	07/10/06
06	51CFM05S0607	0607022-07	0702207	07/10/06
07	51CFM06S0607	0607022-08	0702208	07/10/06
08	51CFM07S0607	0607022-09	0702209	07/10/06
09	51CFM08S0607	0607022-10	0702210	07/10/06
10	51DUP1S06070	0607022-11	0702211	07/10/06
11	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06
12	51CFM06S0607	0607022-08	0702208D	07/11/06
13	51CFM08S0607	0607022-10	0702210D	07/11/06
14	51CFM04S0607	0607022-06	0702206D	07/11/06
15	51CFM05S0607	0607022-07	0702207D	07/11/06
16	51CFM03S0607	0607022-05	0702205D	07/11/06
17	51CFM07S0607	0607022-09	0702209D	07/11/06
18	51CFM01S0607	0607022-03	0702203D	07/11/06
19	51CFM02S0607	0607022-04	0702204D	07/11/06
20	51DUP1S06070	0607022-11	0702211D	07/11/06
21	51CFM01S0607	0607022-03	0702203R	07/11/06
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0421B1 DFTPP Injection Date: 04/21/06

Instrument ID: BNA3 DFTPP Injection Time: 1524

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.24
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	11.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHCCV0.10PP	PAHCCV0.10PPM	PAH001	04/21/06	1628
02	PAHCCV0.20PP	PAHCCV0.20PPM	PAH002	04/21/06	1708
03	PAHCCV0.40PP	PAHCCV0.40PPM	PAH003	04/21/06	1748
04	PAHCCV0.60PP	PAHCCV0.60PPM	PAH004	04/21/06	1828
05	PAHCCV1.00PP	PAHCCV1.00PPM	PAH006	04/21/06	1908
06	PAHCCV2.50PP	PAHCCV2.50PPM	PAH008	04/21/06	1948
07	PAHCCV5.00PP	PAHCCV5.00PPM	PAH009	04/21/06	2027
08	PAHCCV10.0PP	PAHCCV10.0PPM	PAH011	04/21/06	2107
09	PAHCCV20.0PP	PAHCCV20.0PPM	PAH013	04/21/06	2147
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0717B1 DFTPP Injection Date: 07/17/06

Instrument ID: BNA3 DFTPP Injection Time: 1257

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.92
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	56.2
443	17.0 - 23.0% of mass 442	10.8 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SPCC020PPM	SPCC020PPM	SPCC020	07/17/06	1318
02	PAHCCV5.0PPM	PAHCCV5.0PPM	PAHCCV	07/17/06	1359
03	SBLK0710B1	SBLK0710B1	SBLK0710	07/17/06	1440
04	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06	1521
05	51EQB1W06070	0607022-01	0702201	07/17/06	1602
06	51EQB2W06070	0607022-02	0702202	07/17/06	1643
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0207B1 DFTPP Injection Date: 02/07/06

Instrument ID: BNA1 DFTPP Injection Time: 1016

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.0% of mass 198	2.53
441	Present, but less than mass 443	12.3
442	Greater than 40.0% of mass 198	76.3
443	17.0 - 23.0% of mass 442	13.9 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	APP9A002PPM	APP9A002PPM	APPA002	02/07/06	1038
02	APP9A005PPM	APP9A005PPM	APPA005	02/07/06	1113
03	APP9A010PPM	APP9A010PPM	APPA010	02/07/06	1149
04	APP9A020PPM	APP9A020PPM	APPA020	02/07/06	1225
05	APP9A030PPM	APP9A030PPM	APPA030	02/07/06	1301
06	APP9A050PPM	APP9A050PPM	APPA050	02/07/06	1337
07	APP9A070PPM	APP9A070PPM	APPA070	02/07/06	1413
08	APP9A100PPM	APP9A100PPM	APPA100	02/07/06	1449
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0710B1 DFTPP Injection Date: 07/10/06

Instrument ID: BNA1 DFTPP Injection Time: 0814

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	80.3
70	Less than 2.0% of mass 69	1.0 (1.3)1
127	40.0 - 60.0% of mass 198	50.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	3.07
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.0
443	17.0 - 23.0% of mass 442	15.0 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050S	07/10/06	0835
02	51CFM01S0607	0607022-03	0702203M	07/10/06	1355
03	51CFM01S0607	0607022-03	0702203S	07/10/06	1430
04	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/10/06	1506
05	51CFM02S0607	0607022-04	0702204	07/10/06	1542
06	51CFM03S0607	0607022-05	0702205	07/10/06	1617
07	51CFM04S0607	0607022-06	0702206	07/10/06	1652
08	51CFM05S0607	0607022-07	0702207	07/10/06	1728
09	51CFM06S0607	0607022-08	0702208	07/10/06	1803
10	51CFM07S0607	0607022-09	0702209	07/10/06	1838
11	51CFM08S0607	0607022-10	0702210	07/10/06	1914
12	51DUP1S06070	0607022-11	0702211	07/10/06	1949
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0711B1 DFTPP Injection Date: 07/11/06

Instrument ID: BNA1 DFTPP Injection Time: 0923

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.5
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.72
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.8
443	17.0 - 23.0% of mass 442	14.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/11/06	0943
02	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/11/06	1019
03	SBLK0710BS1	SBLK0710BS1	SBLK0710	07/11/06	1055
04	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06	1130
05	51CFM06S0607	0607022-08	0702208D	07/11/06	1206
06	51CFM08S0607	0607022-10	0702210D	07/11/06	1242
07	51CFM04S0607	0607022-06	0702206D	07/11/06	1317
08	51CFM05S0607	0607022-07	0702207D	07/11/06	1353
09	51CFM03S0607	0607022-05	0702205D	07/11/06	1429
10	51CFM07S0607	0607022-09	0702209D	07/11/06	1504
11	51CFM01S0607	0607022-03	0702203D	07/11/06	1540
12	51CFM02S0607	0607022-04	0702204D	07/11/06	1616
13	51DUP1S06070	0607022-11	0702211D	07/11/06	1651
14	51CFM01S0607	0607022-03	0702203R	07/11/06	1727
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	91793		5.45		440409		8.06		269649		12.19	
	UPPER LIMIT	183586		5.95		880818		8.56		539298		12.69	
	LOWER LIMIT	45897		4.95		220205		7.56		134825		11.69	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	121658		5.46		465446		8.06		273330		12.18	
02	SBLK0710B1LC	138773		5.45		538678		8.05		349243		12.19	
03	51EQB1W06070	129959		5.45		457000		8.06		300801		12.19	
04	51EQB2W06070	97583		5.45		420705		8.06		244864		12.19	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	361669		15.71		239219		22.13		175042		25.33	
	UPPER LIMIT	723338		16.21		478438		22.63		350084		25.83	
	LOWER LIMIT	180835		15.21		119610		21.63		87521		24.83	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	357800		15.71		193201		22.14		138896		25.33	
02	SBLK0710B1LC	475655		15.70		301390		22.13		223318		25.33	
03	51EQB1W06070	393613		15.71		192506		22.13		139977		25.33	
04	51EQB2W06070	337290		15.72		207600		22.13		161426		25.33	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	490511		4.28		1549037		5.29		762535		7.72	
	UPPER LIMIT	981022		4.78		3098074		5.79		1525070		8.22	
	LOWER LIMIT	245256		3.78		774519		4.79		381268		7.22	
	CLIENT SAMPLE NO.												
01	51CFM01S0607	463784		4.27		1571829		5.29		729802		7.71	
02	51CFM01S0607	455682		4.28		1464992		5.28		766940		7.72	
03	51CFM02S0607	362980		4.27		1244309		5.28		563237		7.71	
04	51CFM03S0607	376135		4.27		1244549		5.28		622642		7.71	
05	51CFM04S0607	579739		4.28		2005483		5.28		937164		7.72	
06	51CFM05S0607	569244		4.27		2035797		5.28		892557		7.72	
07	51CFM06S0607	498939		4.28		1742860		5.28		860611		7.71	
08	51CFM07S0607	424515		4.27		1484378		5.28		732415		7.71	
09	51CFM08S0607	522925		4.27		1821101		5.28		886023		7.71	
10	51DUP1S06070	588667		4.27		1995612		5.28		967098		7.71	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	979351		11.02		678371		18.44		671653		22.27	
	UPPER LIMIT	1958702		11.52		1356742		18.94		1343306		22.77	
	LOWER LIMIT	489676		10.52		339186		17.94		335827		21.77	
	CLIENT SAMPLE NO.												
01	51CFM01S0607	912148		11.02		479872		18.47		254990	*	22.29	
02	51CFM01S0607	920312		11.04		404607		18.51		209947	*	22.31	
03	51CFM02S0607	711652		11.01		374962		18.43		195060	*	22.26	
04	51CFM03S0607	710268		11.03		299270	*	18.48		160313	*	22.29	
05	51CFM04S0607	821642		11.12		223360	*	18.56		114069	*	22.33	
06	51CFM05S0607	945614		11.08		215513	*	18.55		92065	*	22.34	
07	51CFM06S0607	1078920		11.02		369663		18.43		198523	*	22.27	
08	51CFM07S0607	820238		11.03		244512	*	18.47		129670	*	22.30	
09	51CFM08S0607	1052422		11.02		299916	*	18.44		157786	*	22.28	
10	51DUP1S06070	1135313		11.02		350216		18.45		196508	*	22.29	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	470349		4.24		1533236		5.24		784651		7.64	
	UPPER LIMIT	940698		4.74		3066472		5.74		1569302		8.14	
	LOWER LIMIT	235175		3.74		766618		4.74		392326		7.14	
	CLIENT SAMPLE NO.												
01	SBLK0710BS1	417530		4.24		1466963		5.23		713763		7.63	
02	SBLK0710BS1L	538017		4.24		1842774		5.24		947550		7.65	
03	51CFM06S0607	561867		4.24		1957507		5.23		954793		7.64	
04	51CFM08S0607	576810		4.24		1935806		5.23		991861		7.64	
05	51CFM04S0607	550037		4.23		1768695		5.24		910077		7.64	
06	51CFM05S0607	522989		4.24		1812935		5.23		891228		7.64	
07	51CFM03S0607	566806		4.24		1945729		5.24		977628		7.64	
08	51CFM07S0607	541204		4.24		1862652		5.24		930885		7.64	
09	51CFM01S0607	554399		4.24		1861201		5.23		974269		7.64	
10	51CFM02S0607	495619		4.24		1785336		5.24		858789		7.64	
11	51DUP1S06070	534771		4.24		1877607		5.23		918759		7.64	
12	51CFM01S0607	527249		4.24		1840100		5.24		900802		7.64	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1083046		10.92		817298		18.33		813632		22.18	
	UPPER LIMIT	2166092		11.42		1634596		18.83		1627264		22.68	
	LOWER LIMIT	541523		10.42		408649		17.83		406816		21.68	
	CLIENT SAMPLE NO.												
01	SBLK0710BS1	981779		10.92		796917		18.32		815226		22.16	
02	SBLK0710BS1L	1224866		10.94		743527		18.35		668049		22.18	
03	51CFM06S0607	1198277		10.92		833738		18.32		770123		22.16	
04	51CFM08S0607	1290131		10.92		867995		18.33		850543		22.16	
05	51CFM04S0607	1219549		10.92		928463		18.32		954726		22.17	
06	51CFM05S0607	1162136		10.92		943983		18.33		967641		22.17	
07	51CFM03S0607	1321612		10.92		1068214		18.33		1098925		22.18	
08	51CFM07S0607	1267737		10.93		1006098		18.34		1014347		22.18	
09	51CFM01S0607	1309895		10.93		1003686		18.34		1036314		22.19	
10	51CFM02S0607	1091272		10.92		770234		18.33		729191		22.16	
11	51DUP1S06070	1231851		10.92		923091		18.33		903015		22.18	
12	51CFM01S0607	1077989		10.94		800087		18.39		639204		22.23	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 0702201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.051		U
208-96-8	Acenaphthylene	0.0087	0.051		U
120-12-7	Anthracene	0.0097	0.051		U
56-55-3	Benzo(a)anthracene	0.011	0.051		U
205-99-2	Benzo(b)fluoranthene	0.016	0.051		U
207-08-9	Benzo(k)fluoranthene	0.013	0.051		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.051		U
50-32-8	Benzo(a)pyrene	0.0097	0.051		U
218-01-9	Chrysene	0.0092	0.051		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.051		U
206-44-0	Fluoranthene	0.012	0.051		U
86-73-7	Fluorene	0.013	0.051		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.051		U
91-57-6	2-Methylnaphthalene	0.016	0.051		U
90-12-0	1-Methylnaphthalene	0.010	0.051		U
91-20-3	Naphthalene	0.019	0.051		U
85-01-8	Phenanthrene	0.014	0.051		U
129-00-0	Pyrene	0.011	0.051		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Lab Smp Id: 0607022-01 Client Smp ID: 51EQB1W060706
Inj Date : 17-JUL-2006 16:02 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-01;1;980;500;1;UG/L;10-JUL-2006
Misc Info : ch2.b07022;;;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

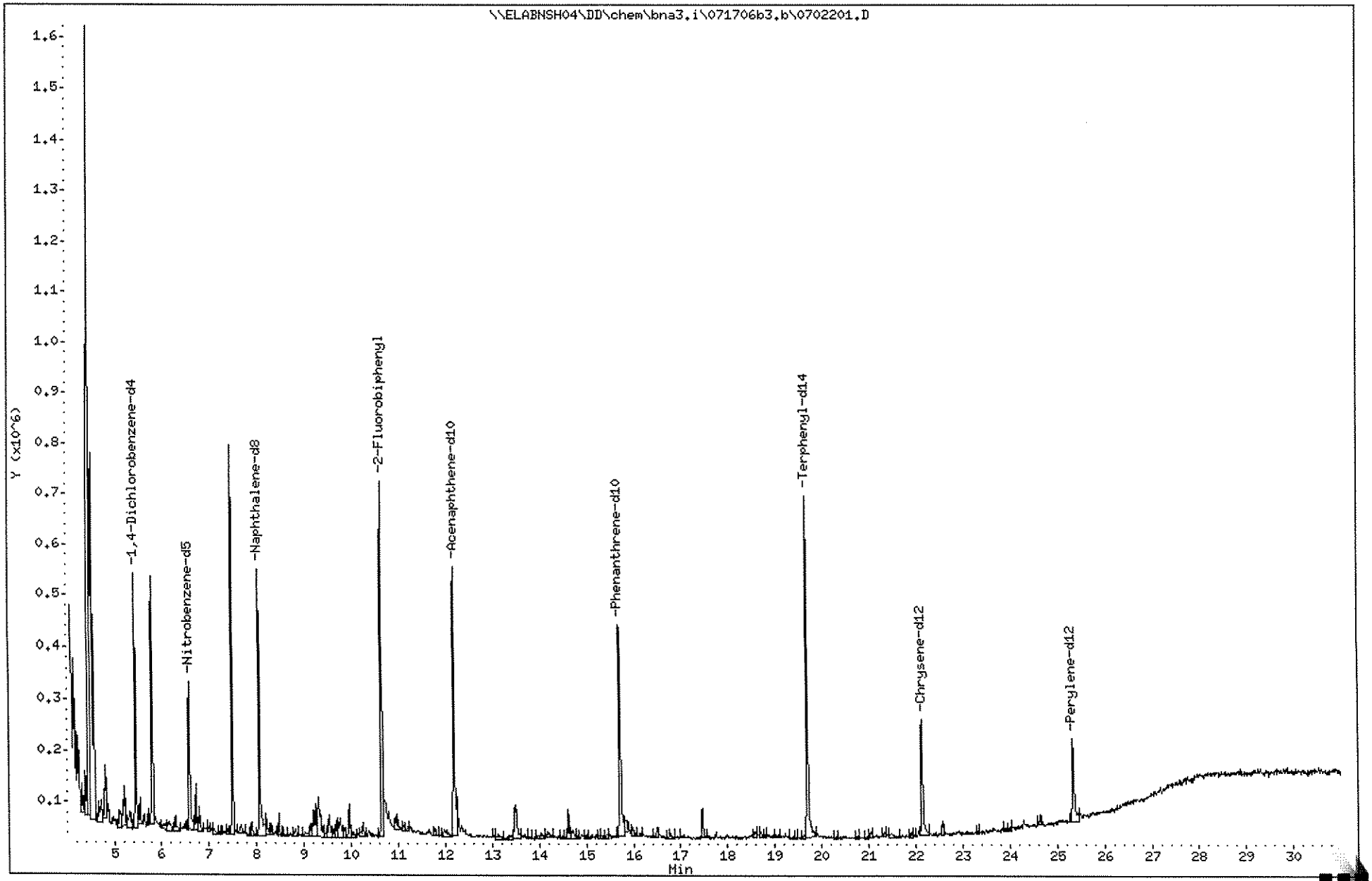
Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	980.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1 1,4-Dichlorobenzene-d4	152	5.454	5.452	(1.000)	129959	1.00000	
* 3 Naphthalene-d8	136	8.057	8.055	(1.000)	457000	1.00000	
$ 4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	217110	1.85618	0.9470
* 8 Acenaphthene-d10	164	12.190	12.188	(1.000)	300801	1.00000	
$ 10 2-Fluorobiphenyl	172	10.649	10.648	(0.874)	510020	1.40567	0.7172
* 16 Phenanthrene-d10	188	15.706	15.704	(1.000)	393613	1.00000	
* 20 Chrysene-d12	240	22.134	22.132	(1.000)	192506	1.00000	
$ 22 Terphenyl-d14	244	19.691	19.690	(0.890)	450247	2.45664	1.253
* 25 Perylene-d12	264	25.331	25.340	(1.000)	139977	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Date : 17-JUL-2006 16:02
Client ID: 51EQB1W060706
Instrument: bna3.i
Sample Info: 0607022-01:1:980:500:1:UG/L:10-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000029



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 0702202

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:43

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.052		U
208-96-8	Acenaphthylene	0.0088	0.052		U
120-12-7	Anthracene	0.0099	0.052		U
56-55-3	Benzo(a)anthracene	0.011	0.052		U
205-99-2	Benzo(b)fluoranthene	0.017	0.052		U
207-08-9	Benzo(k)fluoranthene	0.014	0.052		U
191-24-2	Benzo(g,h,i)perylene	0.014	0.052		U
50-32-8	Benzo(a)pyrene	0.0099	0.052		U
218-01-9	Chrysene	0.0094	0.052		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.052		U
206-44-0	Fluoranthene	0.012	0.052		U
86-73-7	Fluorene	0.013	0.052		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.019	0.052		U
91-57-6	2-Methylnaphthalene	0.017	0.052		U
90-12-0	1-Methylnaphthalene	0.010	0.052		U
91-20-3	Naphthalene	0.020	0.052		U
85-01-8	Phenanthrene	0.014	0.052		U
129-00-0	Pyrene	0.011	0.052		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Lab Smp Id: 0607022-02 Client Smp ID: 51EQB2W060706
Inj Date : 17-JUL-2006 16:43 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-02;1;960;500;1;UG/L;10-JUL-2006
Misc Info : ch2.b07022;;;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	960.000	Volume of initial extraction

7/18/06

7/18/06

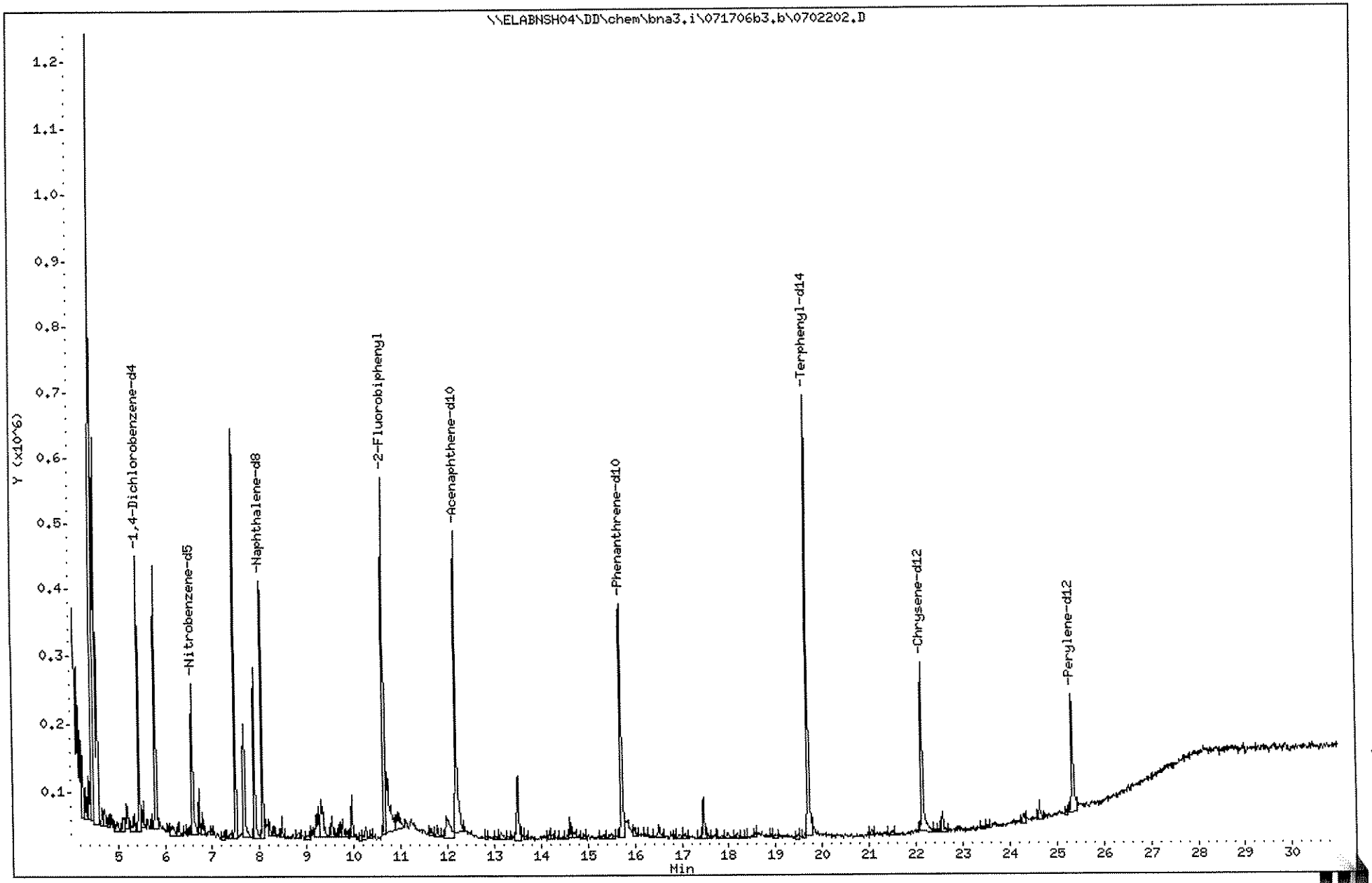
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1 1,4-Dichlorobenzene-d4	152	5.453	5.452	(1.000)	97583	1.00000	
* 3 Naphthalene-d8	136	8.056	8.055	(1.000)	420705	1.00000	
$ 4 Nitrobenzene-d5	82	6.583	6.584	(0.817)	162493	1.50908	0.7860
* 8 Acenaphthene-d10	164	12.189	12.188	(1.000)	244864	1.00000	
$ 10 2-Fluorobiphenyl	172	10.647	10.648	(0.874)	396492	1.34241	0.6992
* 16 Phenanthrene-d10	188	15.716	15.704	(1.000)	337290	1.00000	
* 20 Chrysene-d12	240	22.133	22.132	(1.000)	207600	1.00000	
$ 22 Terphenyl-d14	244	19.689	19.690	(0.890)	463031	2.34270	1.220
* 25 Perylene-d12	264	25.329	25.340	(1.000)	161426	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Date : 17-JUL-2006 16:43
Client ID: 51EQB2W060706
Sample Info: 0607022-02;1;960;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: SDB
Column diameter: 0.25

000032



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203R

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 17:27

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	390	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	690	
56-55-3	Benzo(a)anthracene	20	170	3300	
205-99-2	Benzo(b)fluoranthene	20	170	4700	E
207-08-9	Benzo(k)fluoranthene	20	170	1600	
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	3600	E
218-01-9	Chrysene	20	170	4100	E
53-70-3	Dibenz(a,h)anthracene	20	100	520	
206-44-0	Fluoranthene	20	170	5400	E
86-73-7	Fluorene	20	170	400	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	74	J
90-12-0	1-Methylnaphthalene	51	170		U
91-20-3	Naphthalene	20	170	32	J
85-01-8	Phenanthrene	20	170	3600	E
129-00-0	Pyrene	20	170	4800	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 11-JUL-2006 17:27
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.240	4.235	(1.000)	527249	40.0000	
*	31 Naphthalene-d8	136	5.237	5.240	(1.000)	1840100	40.0000	
$	32 Nitrobenzene-d5	82	4.667	4.668	(0.891)	1112091	55.3637	1883
	47 Naphthalene	128	5.251	5.254	(1.003)	42622	0.93162	31.69(a)
	51 2-Methylnaphthalene	141	5.999	6.004	(1.145)	57357	2.18181	74.21(a)
*	65 Acenaphthene-d10	164	7.642	7.641	(1.000)	900802	40.0000	
$	70 2-Fluorobiphenyl	172	6.556	6.555	(0.858)	1705178	59.4836	2023
	76 Acenaphthene	153	7.691	7.703	(1.006)	297395	11.4394	389.1
	84 Fluorene	166	8.724	8.727	(1.141)	328555	11.8161	401.9
*	97 Phenanthrene-d10	188	10.935	10.923	(1.000)	1077989	40.0000	
	106 Phenanthrene	178	11.004	10.986	(1.006)	3281125	106.753	3631(A)
	107 Anthracene	178	11.101	11.096	(1.015)	615270	20.2763	689.7
	110 Fluoranthene	202	14.262	14.195	(1.304)	4875510	160.222	5450(A)

7/12/06

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Report Date: 12-Jul-2006 12:12

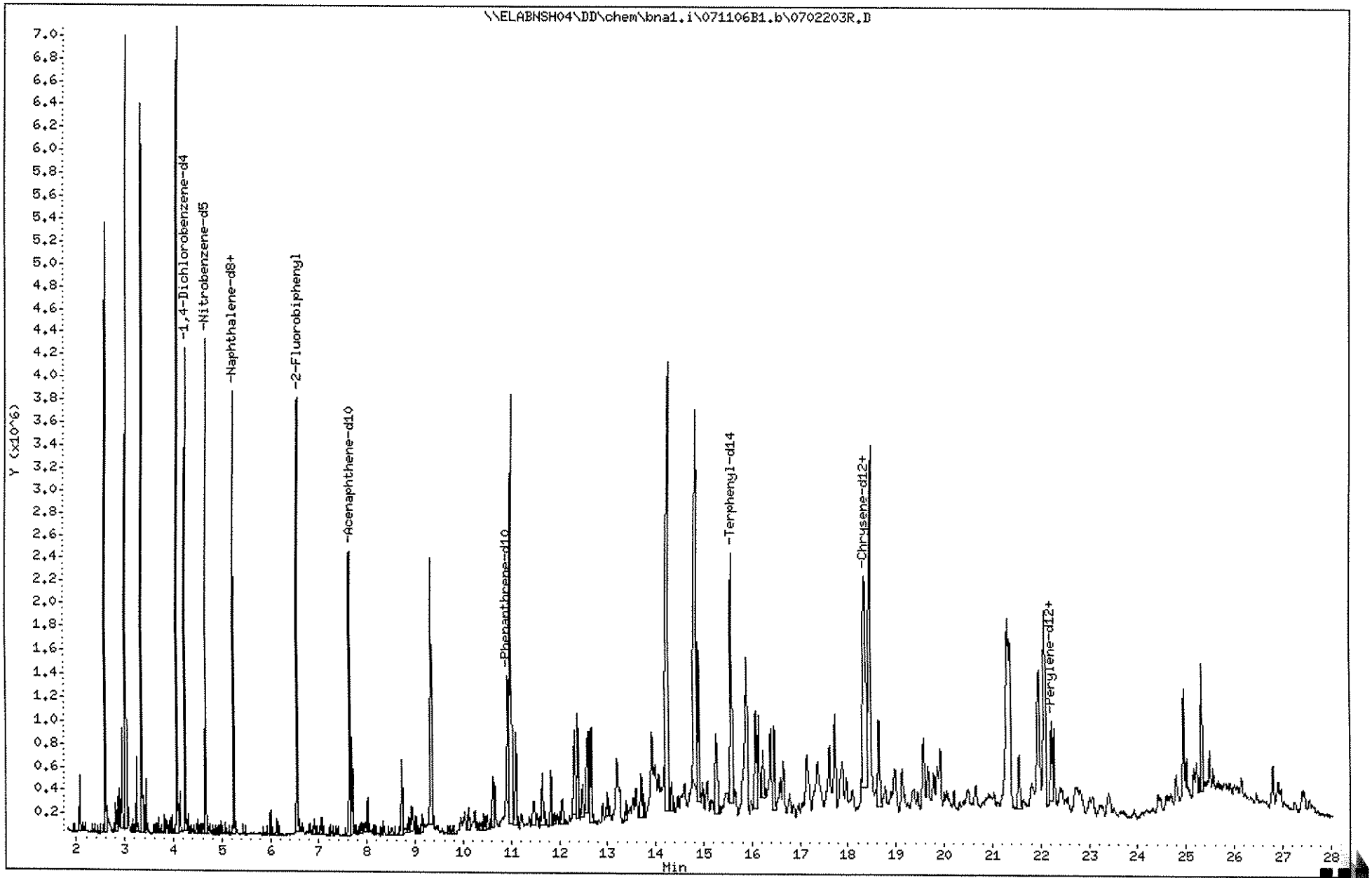
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 124 Chrysene-d12	240	18.386	18.333	(1.000)	800087	40.0000	
126 Pyrene	202	14.841	14.770	(0.807)	4519295	141.437	4811(A)
$ 127 Terphenyl-d14	244	15.581	15.545	(0.847)	1450475	71.7942	2442
130 Benzo(a)anthracene	228	18.351	18.291	(0.998)	2492085	96.6716	3288
131 Chrysene	228	18.470	18.409	(1.005)	2811142	119.393	4061(AH)
* 145 Perylene-d12	264	22.228	22.175	(1.000)	639204	40.0000	
147 Benzo(b)fluoranthene	252	21.332	21.248	(0.960)	2740162	139.163	4733(AM)
148 Benzo(k)fluoranthene	252	21.374	21.317	(0.962)	954713	46.7338	1590(M)
149 Benzo(a)pyrene	252	22.101	22.017	(0.994)	1805256	106.323	3616(AH)
150 Indeno(1,2,3-cd)pyrene	276	24.964	24.921	(1.123)	805763	55.6229	1892
151 Dibenz(a,h)anthracene	278	25.014	24.998	(1.125)	223234	15.3072	520.6
152 Benzo(g,h,i)perylene	276	25.333	25.301	(1.140)	749978	49.8889	1697

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Date : 11-JUL-2006 17:27
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000036



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

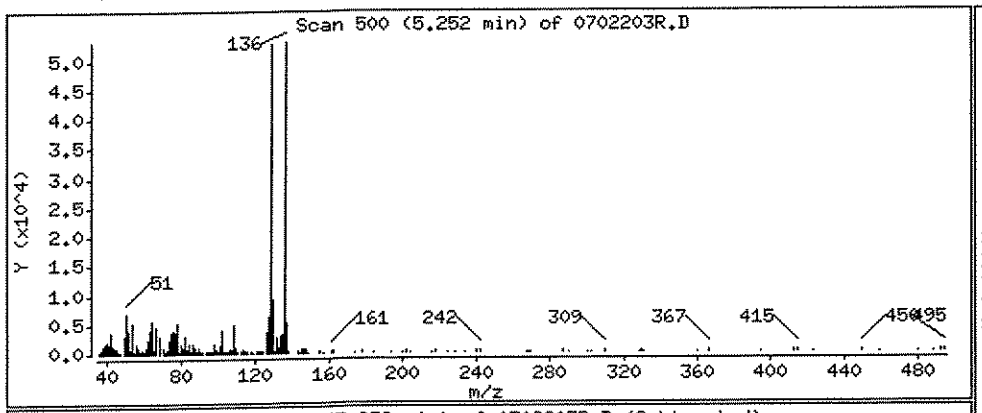
Client ID: 51CFM01S060706 Instrument: bna1.i

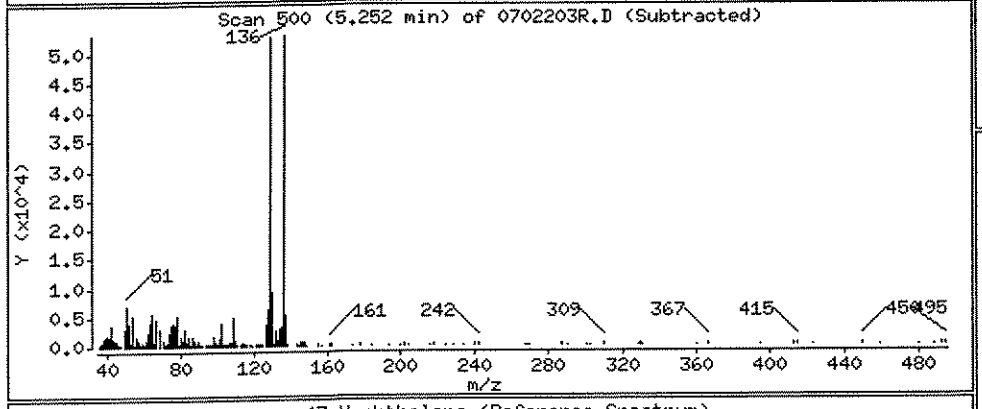
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

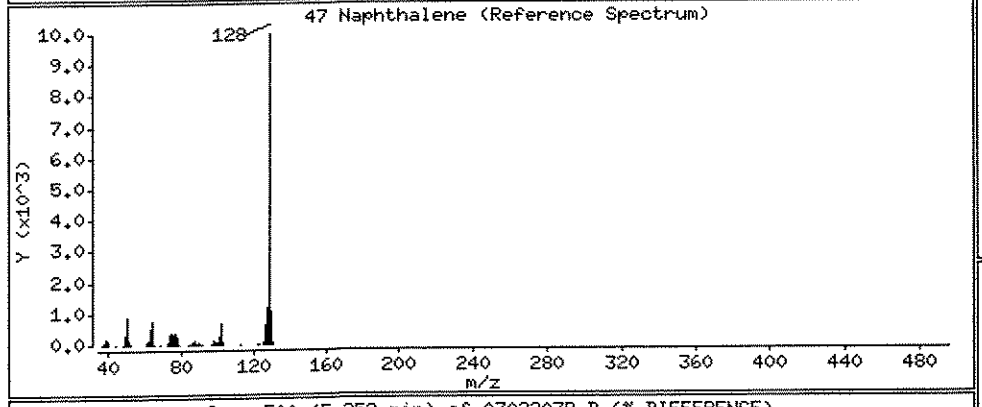
Volume Injected (uL): 0.5 Operator: SDB

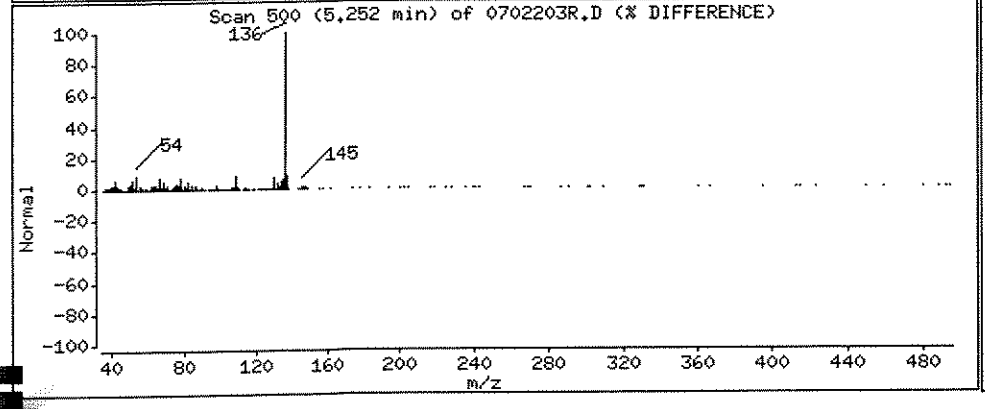
Column phase: fused silica Column diameter: 0.25

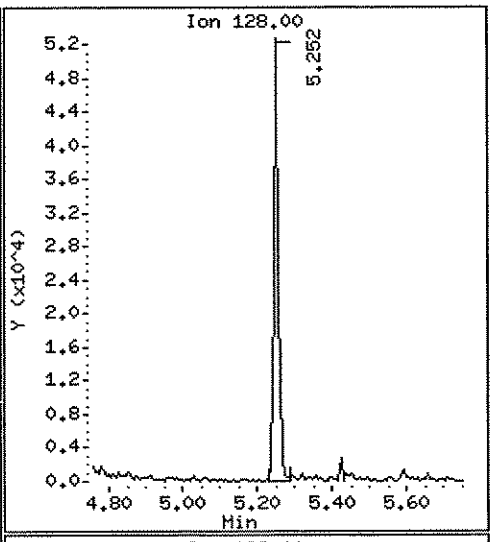
47 Naphthalene Concentration: 31.69 UG/KG

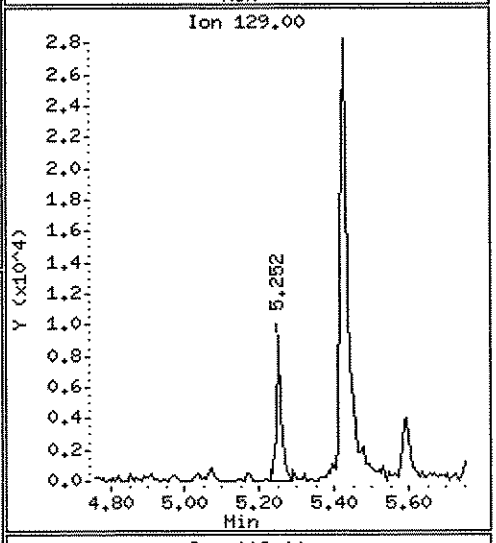


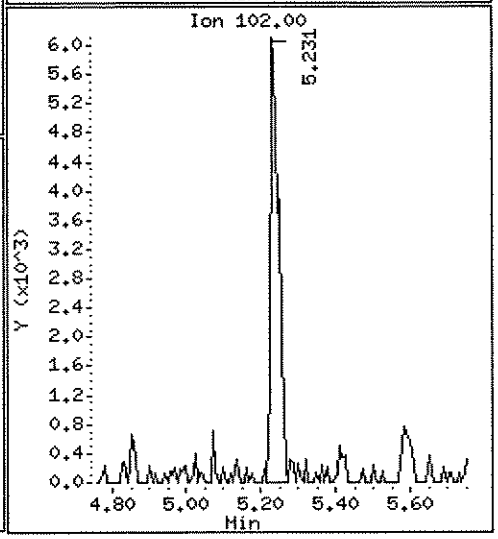












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

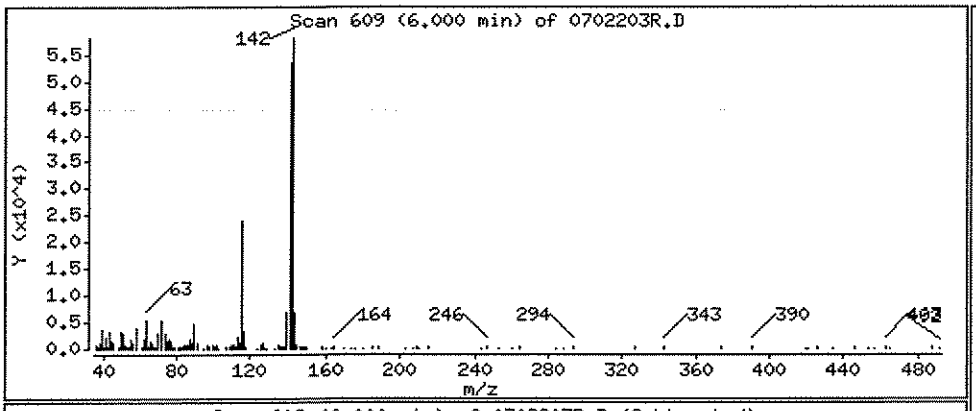
Client ID: 51CFM01S060706 Instrument: bna1.i

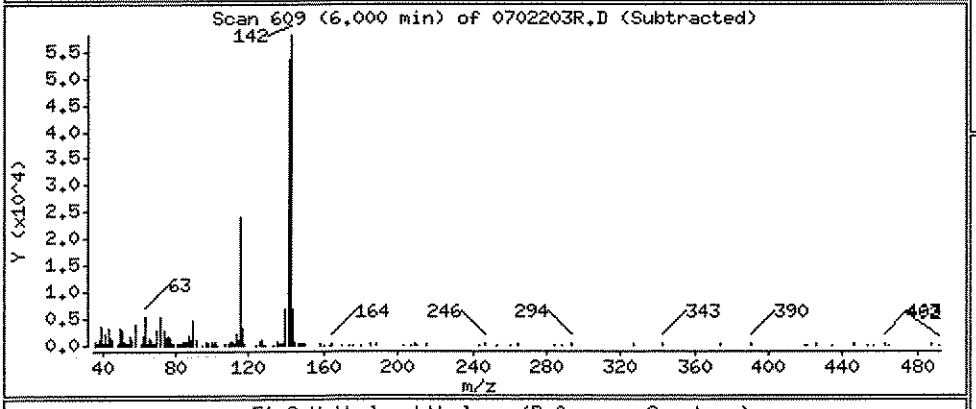
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

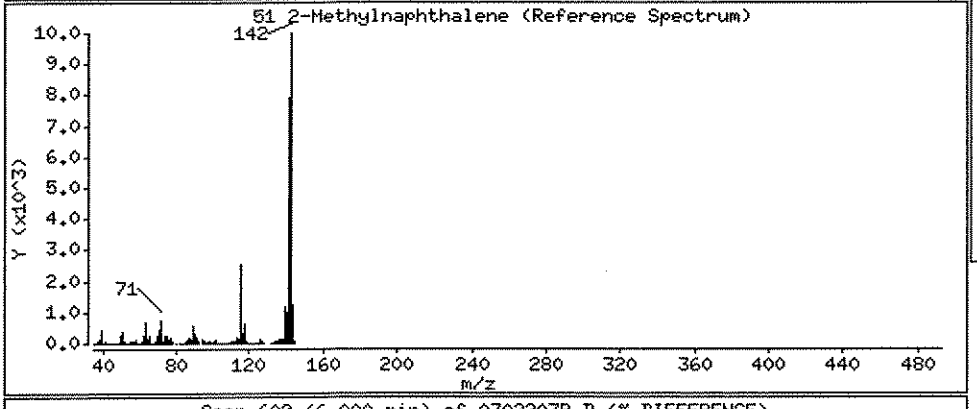
Volume Injected (uL): 0.5 Operator: SDB

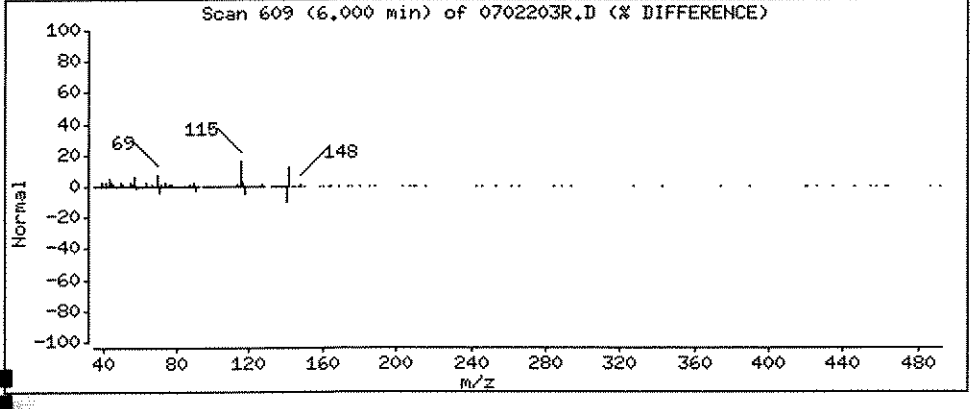
Column phase: fused silica Column diameter: 0.25

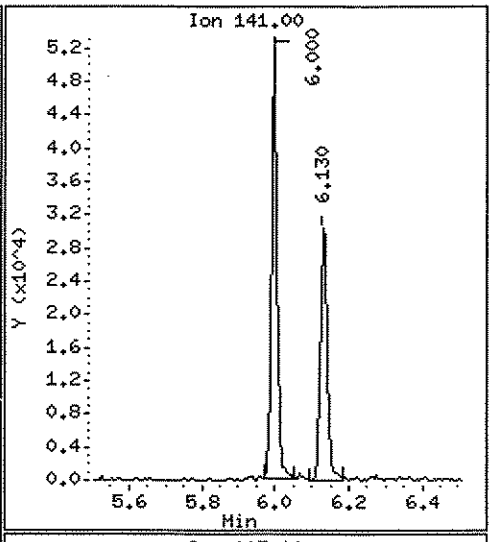
51 2-Methylnaphthalene Concentration: 74.21 UG/KG

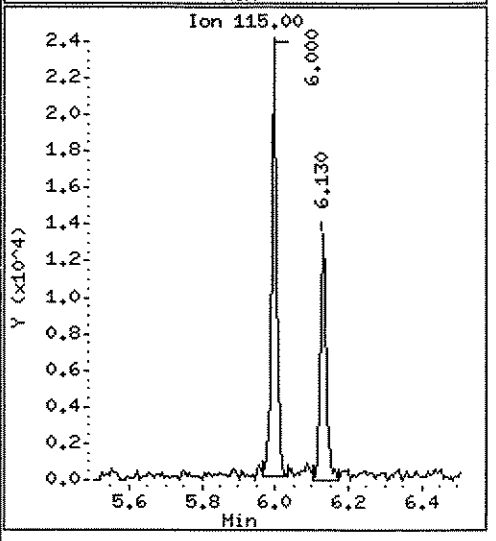












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

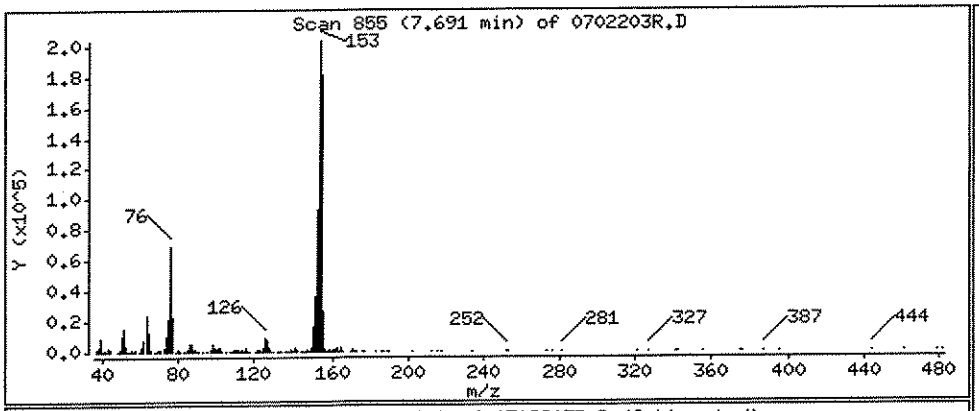
Client ID: 51CFM01S060706 Instrument: bna1.i

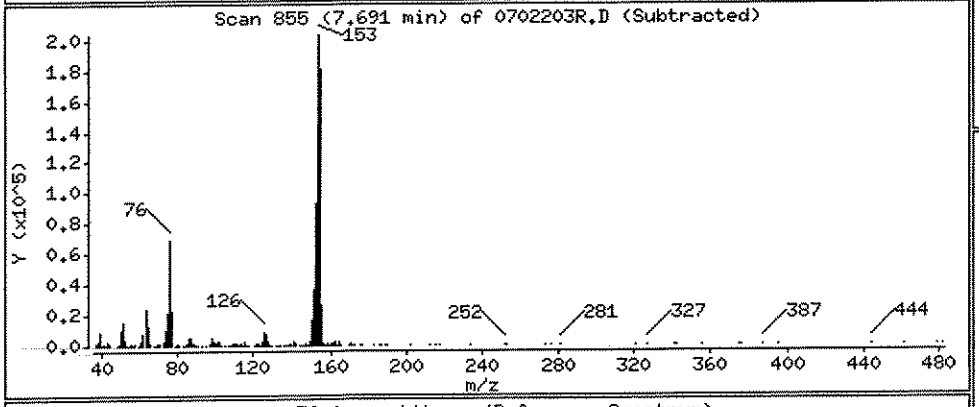
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

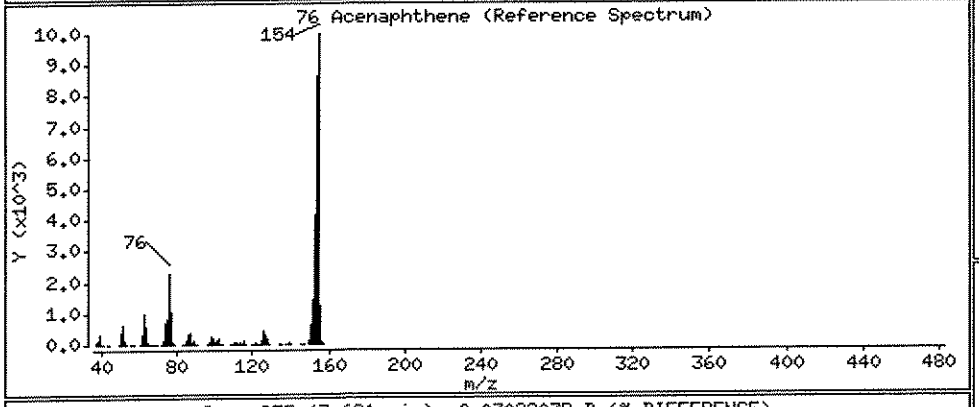
Volume Injected (uL): 0.5 Operator: SDB

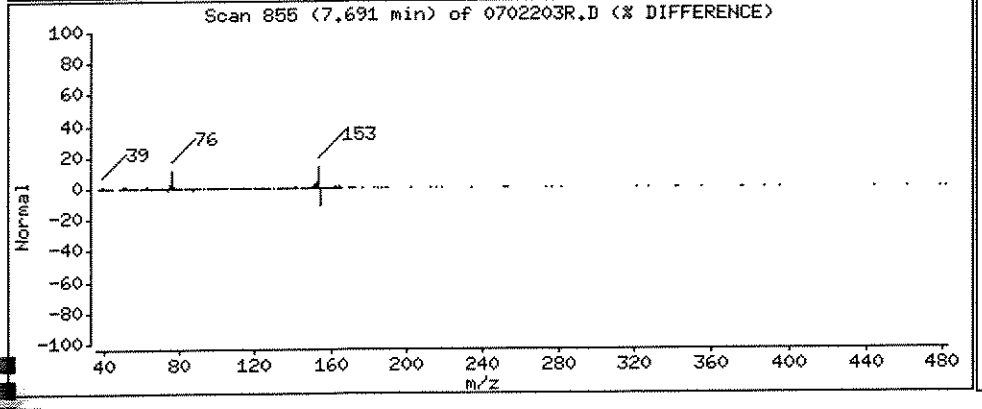
Column phase: fused silica Column diameter: 0.25

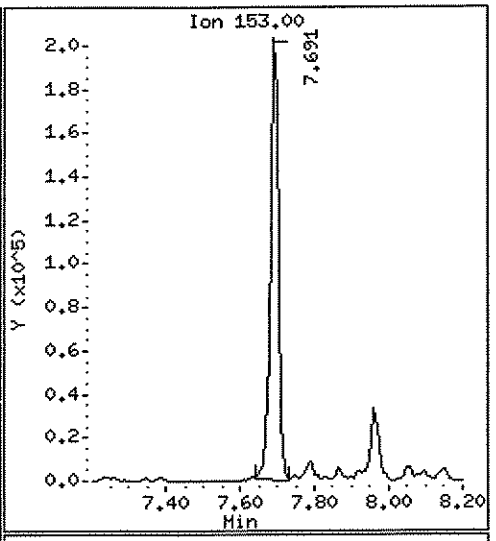
76 Acenaphthene Concentration: 389.1 UG/KG

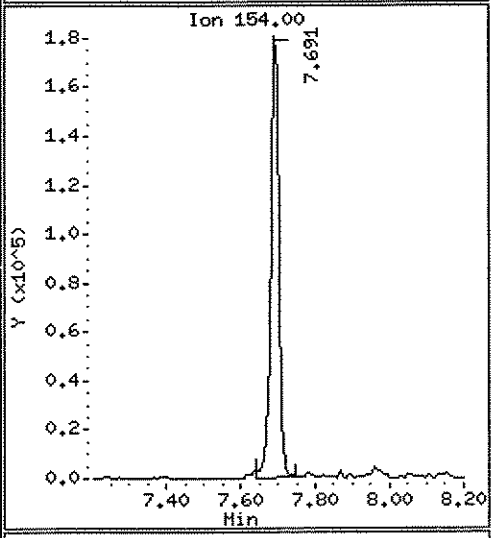


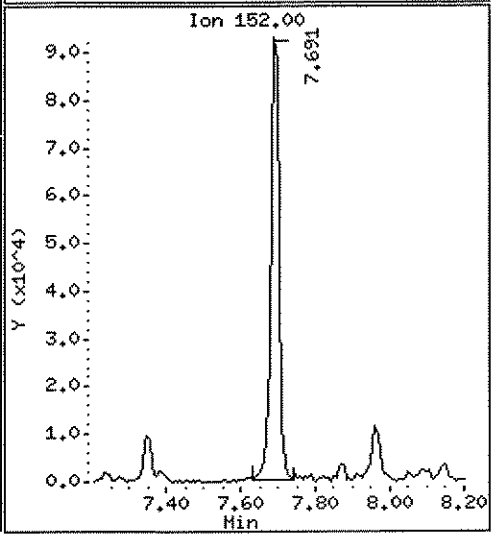












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

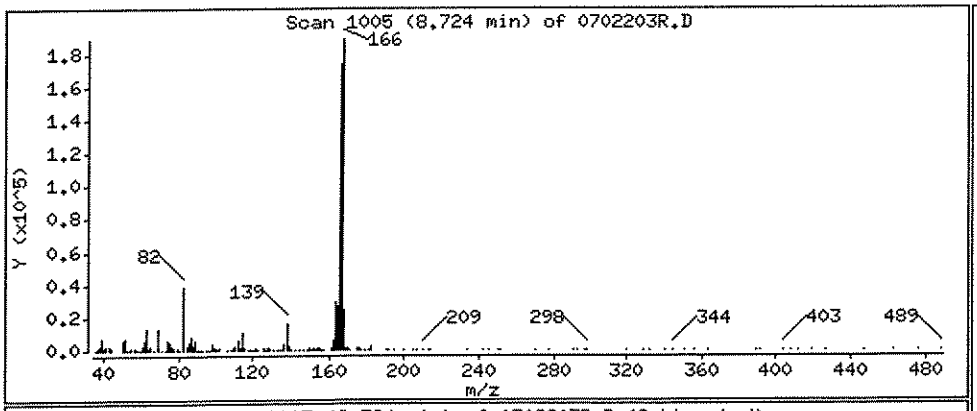
Client ID: 51CFM01S060706 Instrument: bna1.i

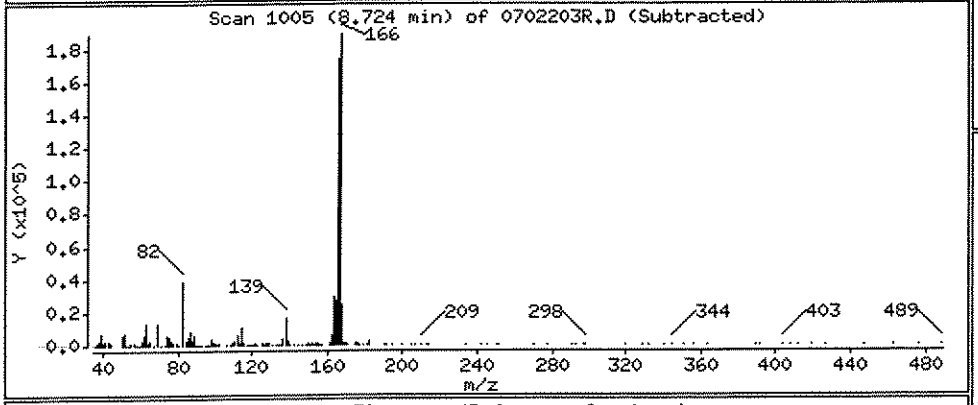
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

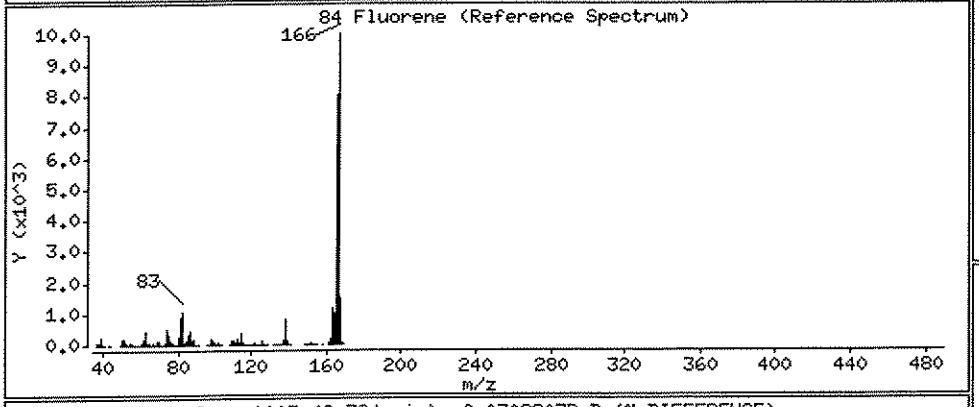
Volume Injected (uL): 0.5 Operator: SDB

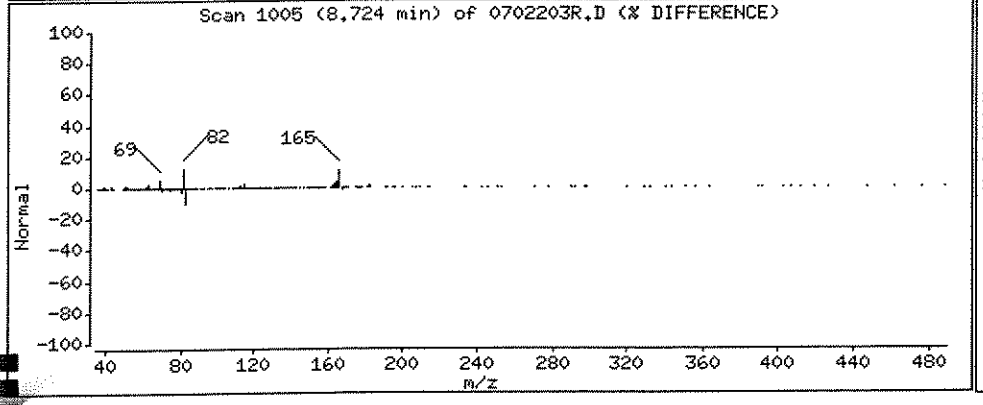
Column phase: fused silica Column diameter: 0.25

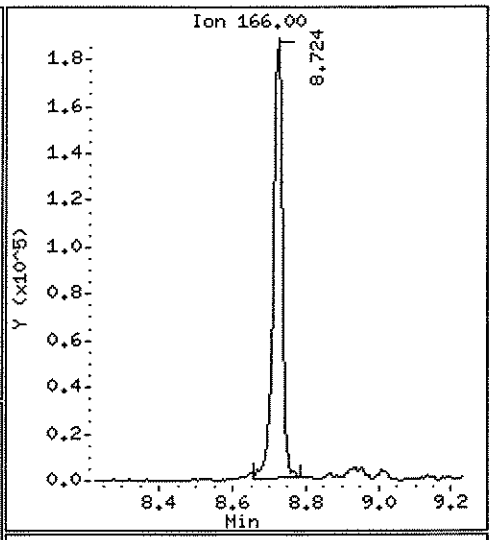
84 Fluorene Concentration: 401.9 UG/KG

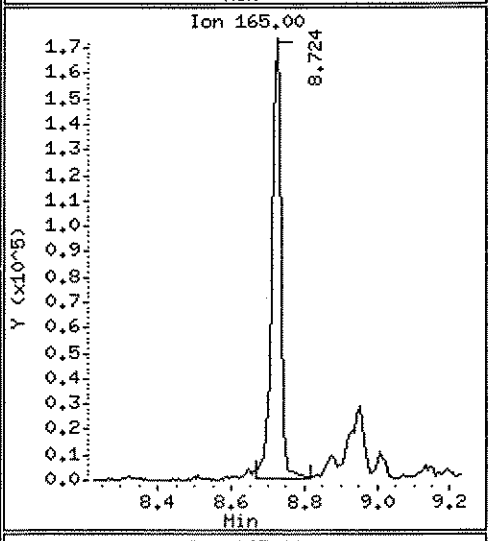


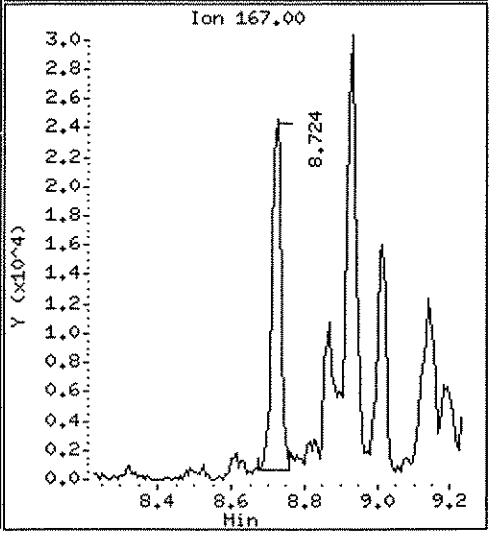












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

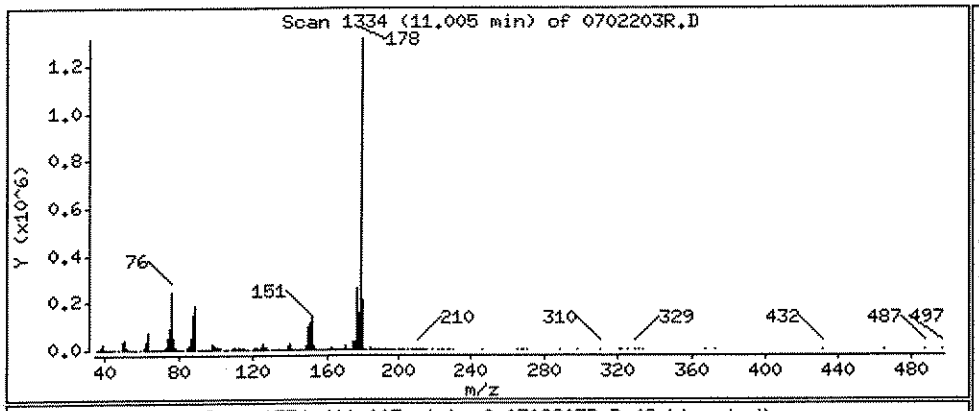
Client ID: 51CFM01S060706 Instrument: bna1.i

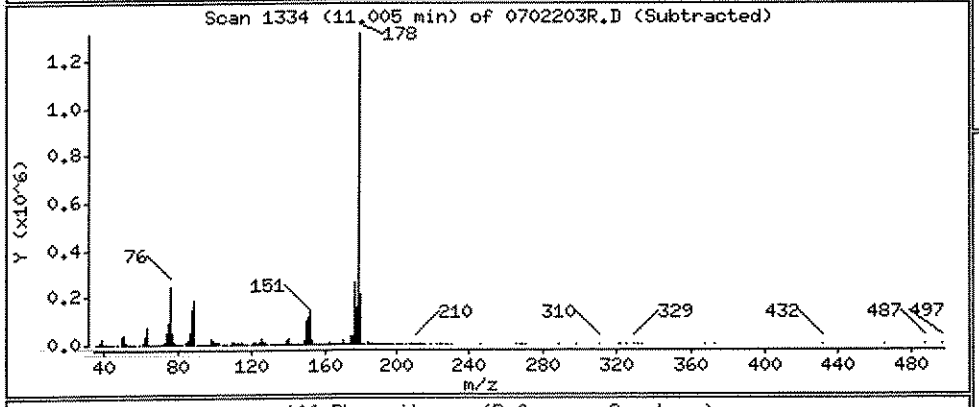
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

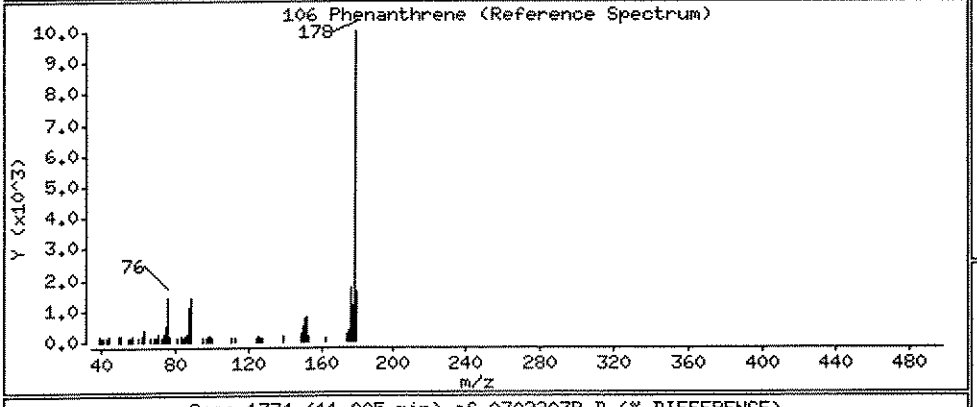
Volume Injected (uL): 0.5 Operator: SDB

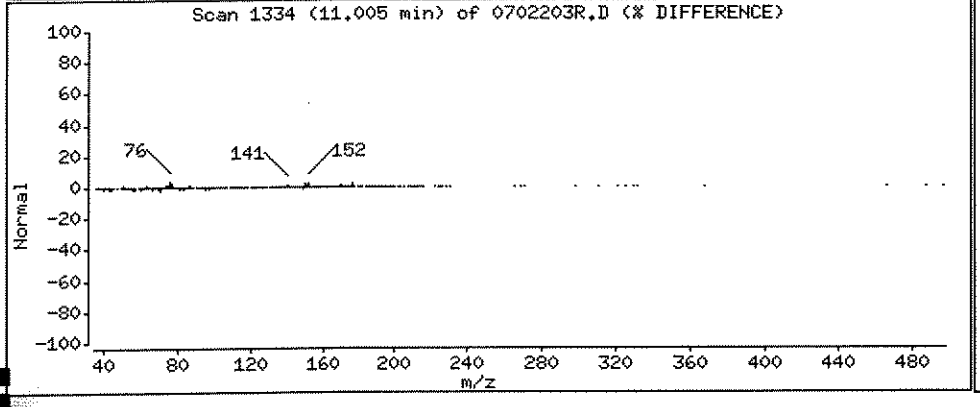
Column phase: fused silica Column diameter: 0.25

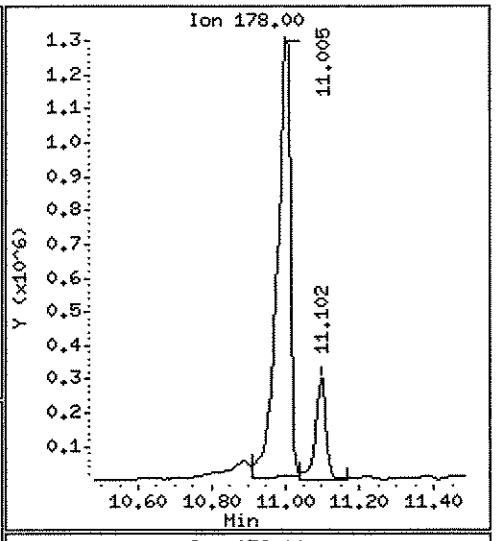
106 Phenanthrene Concentration: 3631 UG/KG

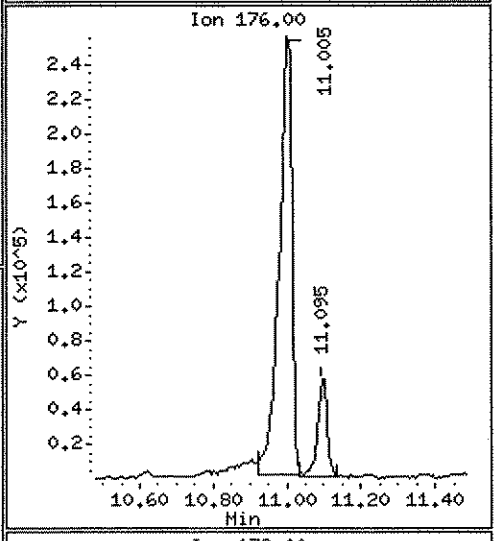


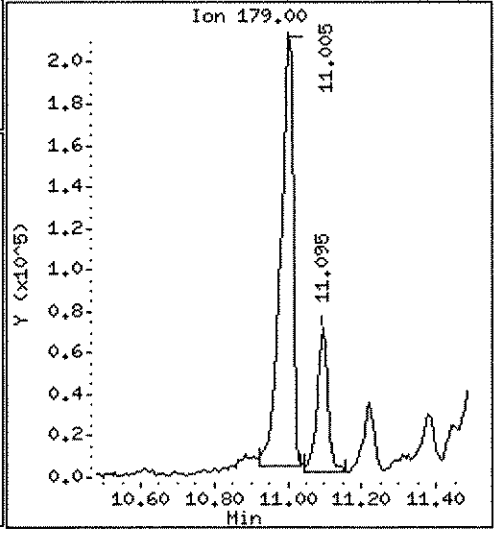












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

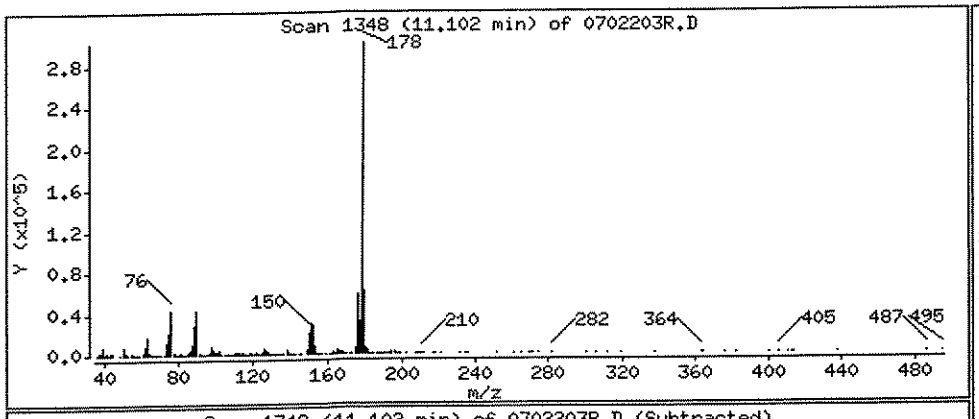
Operator: SDB

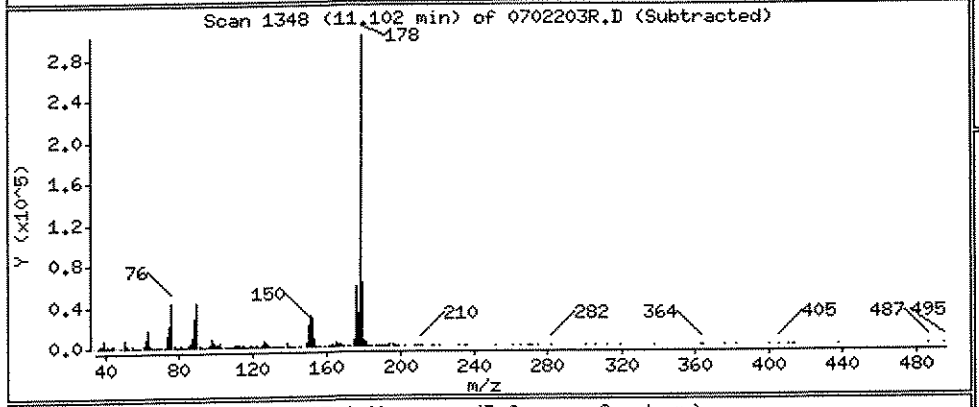
Column phase: fused silica

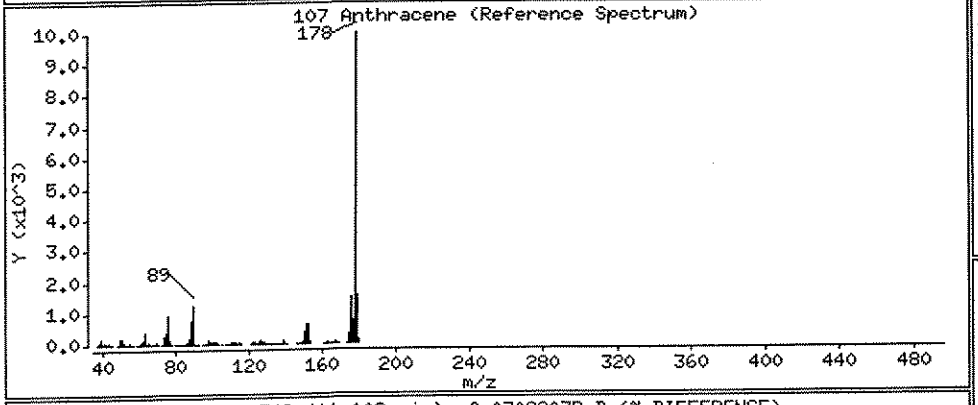
Column diameter: 0.25

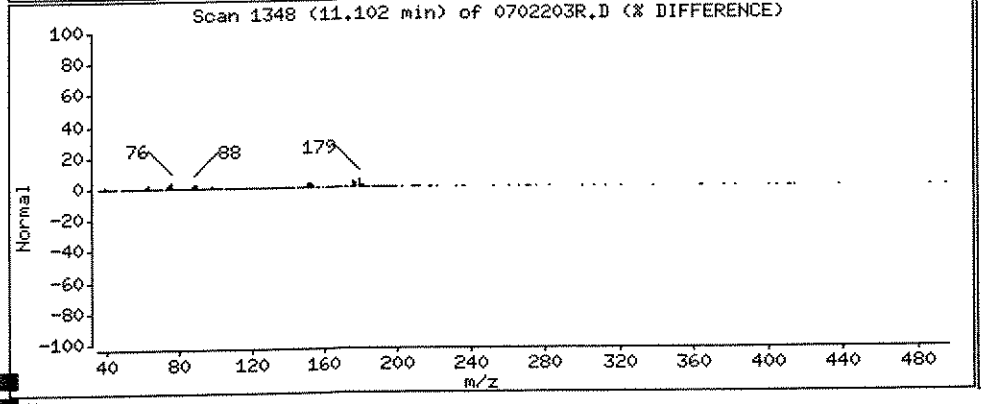
107 Anthracene

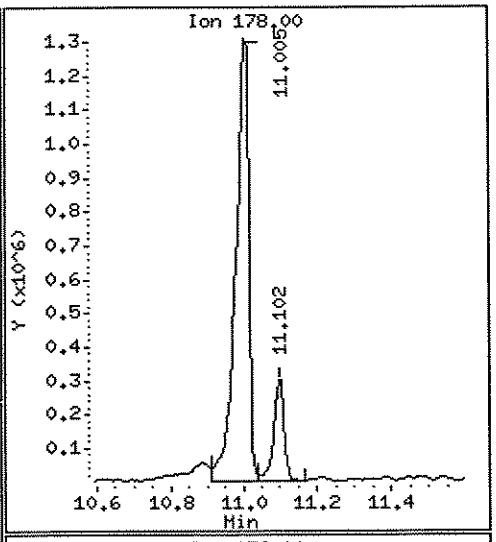
Concentration: 689.7 UG/KG

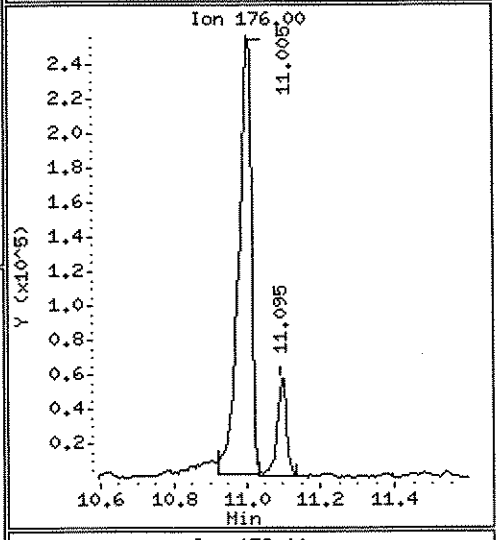


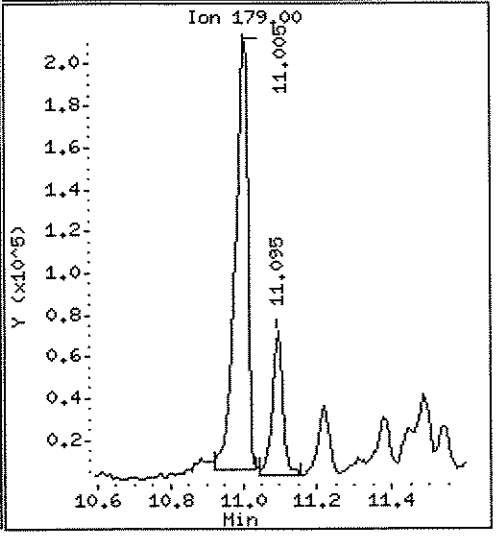












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

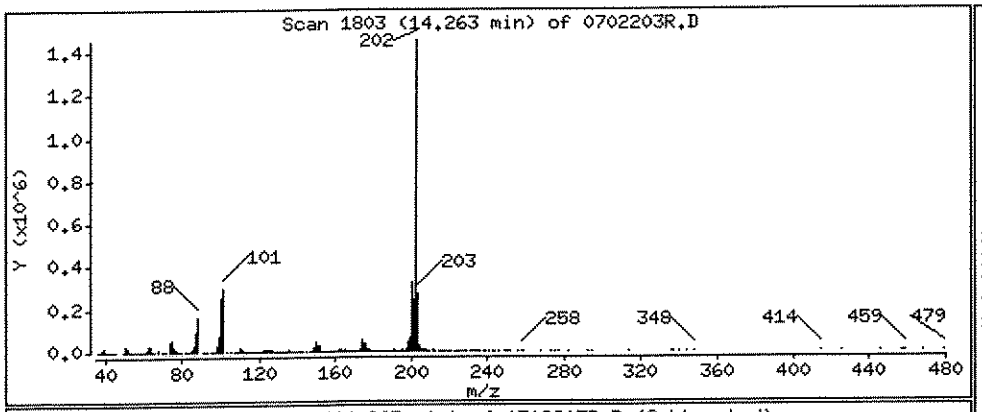
Client ID: 51CFM01S060706 Instrument: bna1.i

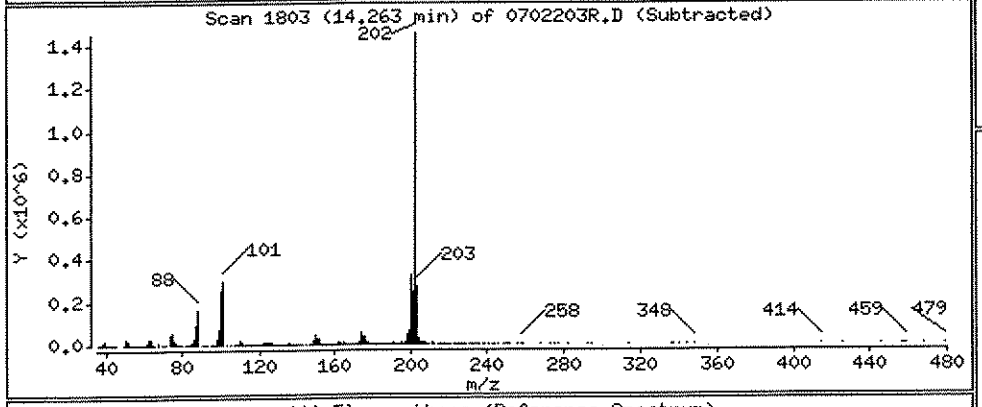
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

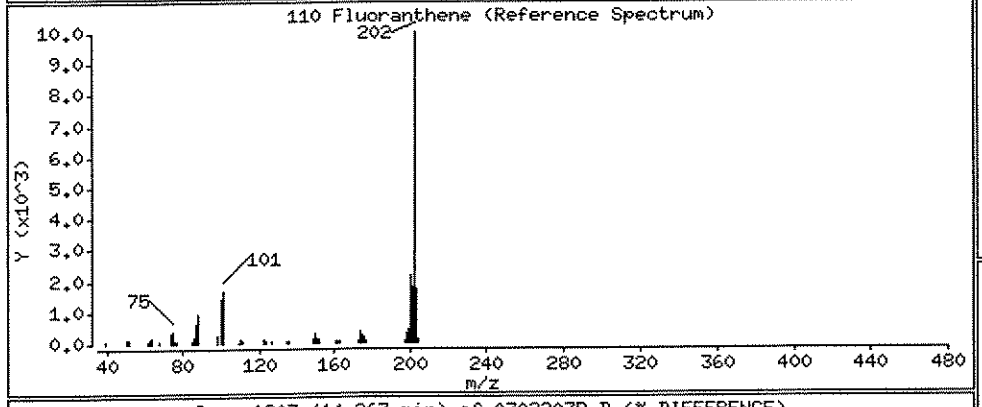
Volume Injected (uL): 0.5 Operator: SDB

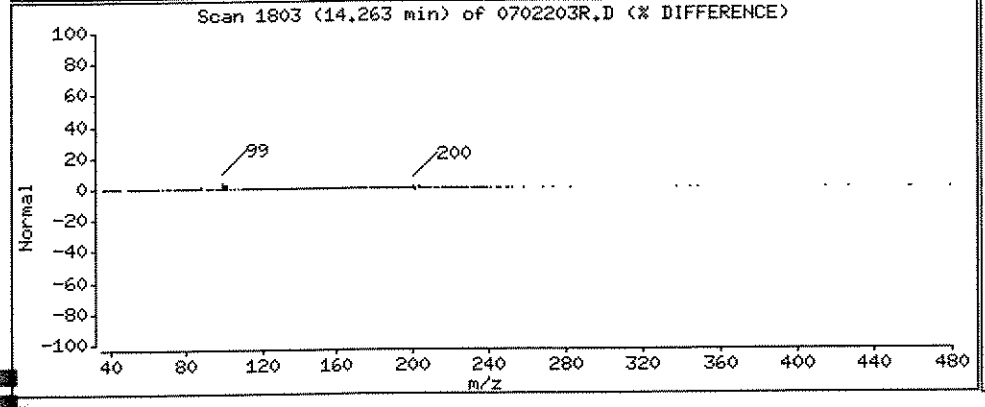
Column phase: fused silica Column diameter: 0.25

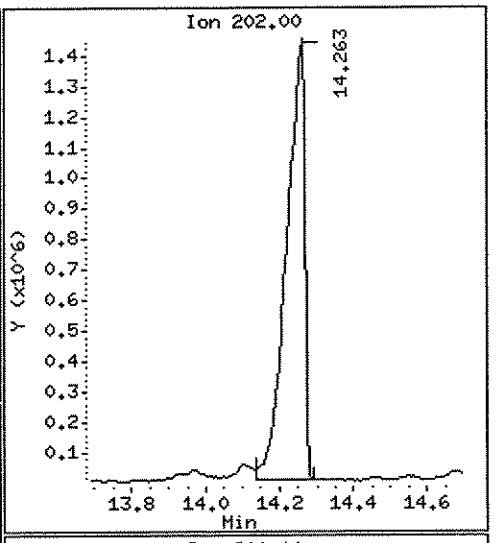
110 Fluoranthene Concentration: 5450 UG/KG

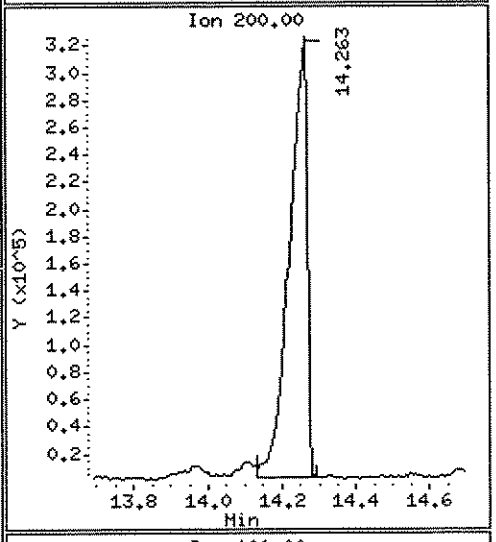


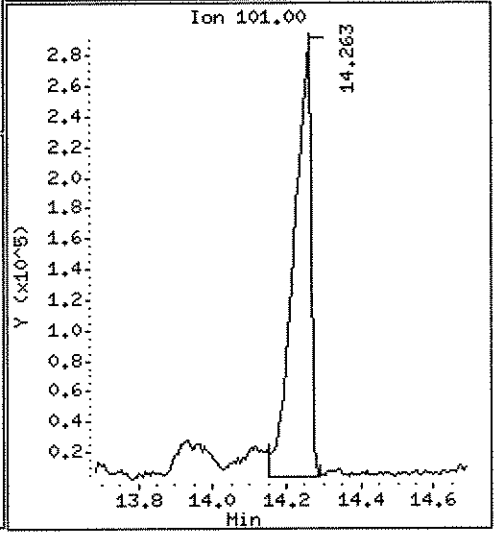












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

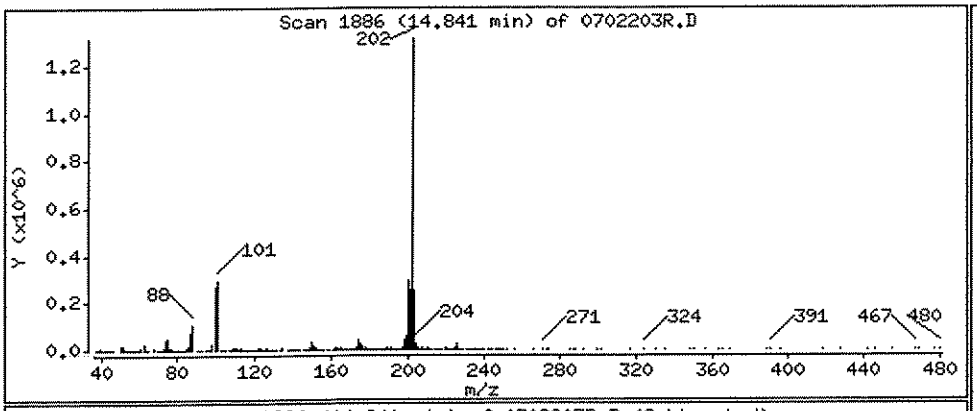
Client ID: 51CFM01S060706 Instrument: bna1.i

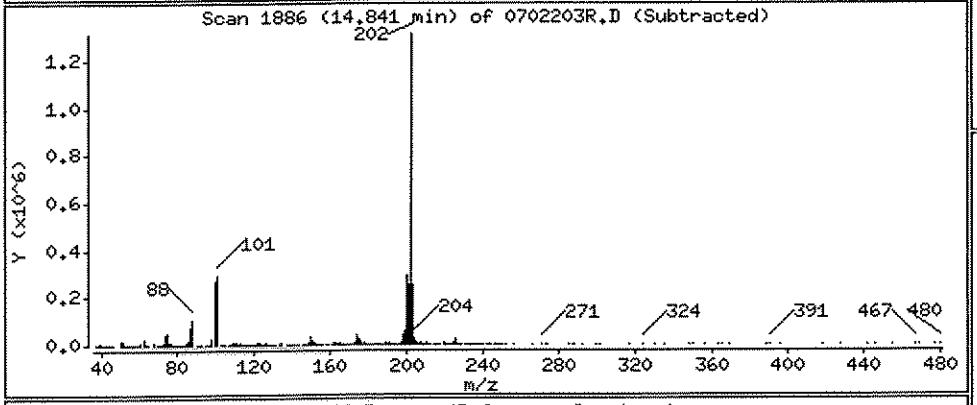
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

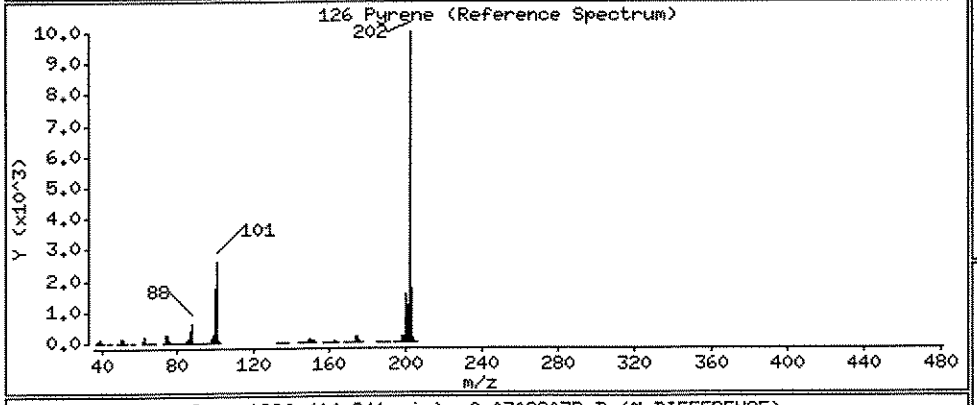
Volume Injected (uL): 0.5 Operator: SDB

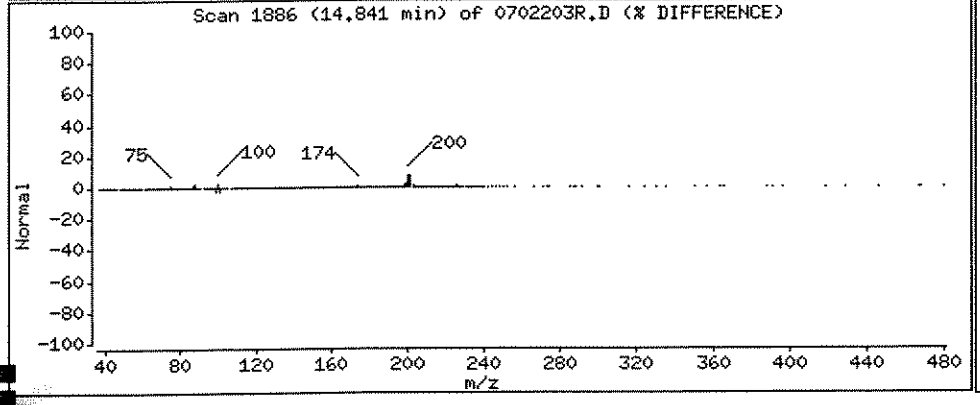
Column phase: fused silica Column diameter: 0.25

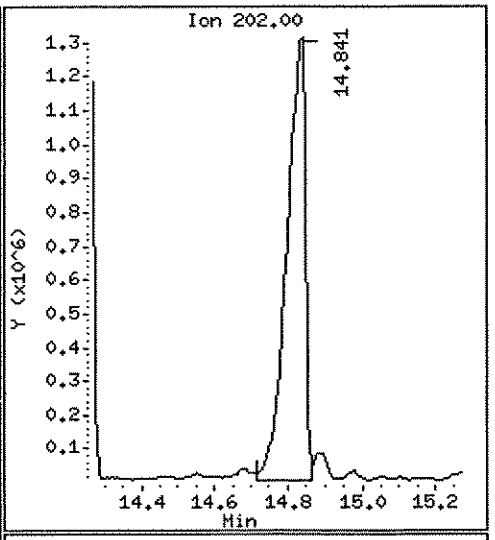
126 Pyrene Concentration: 4811 UG/KG

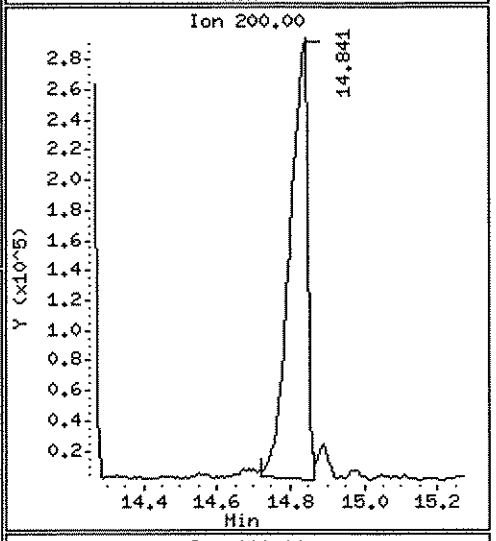


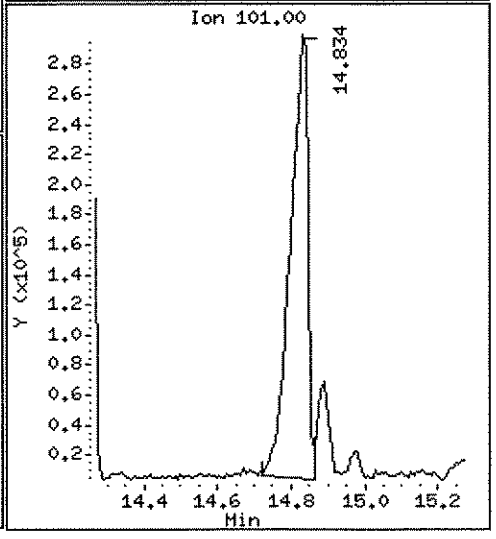












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

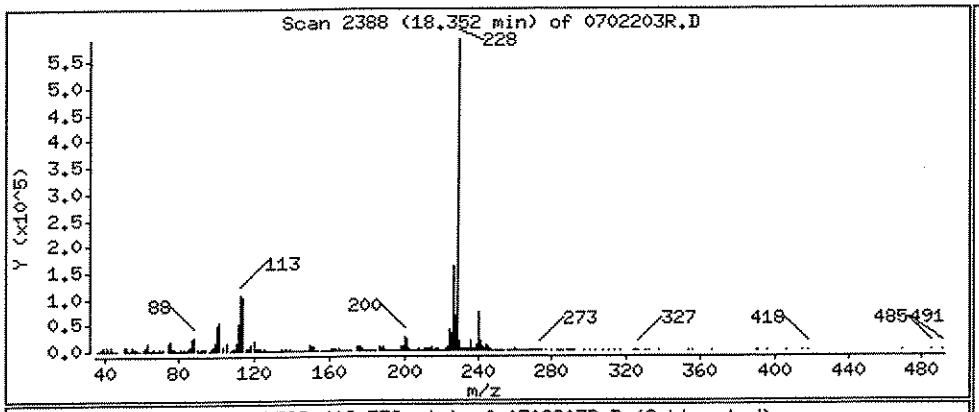
Client ID: 51CFM01S060706 Instrument: bna1.i

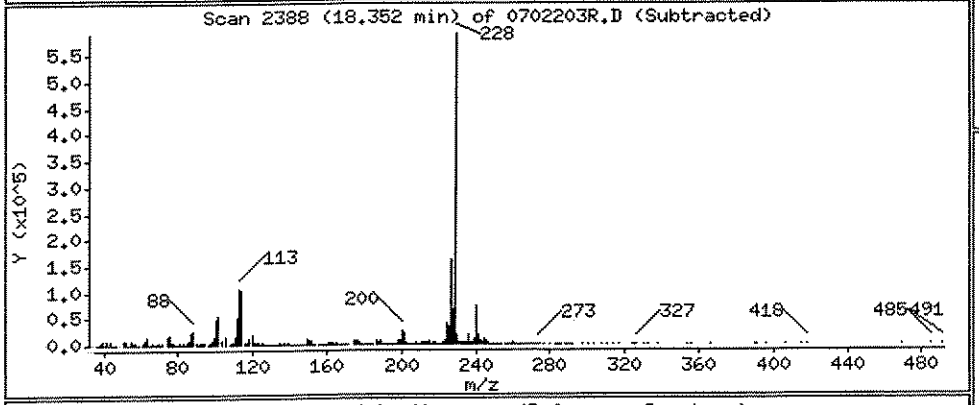
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

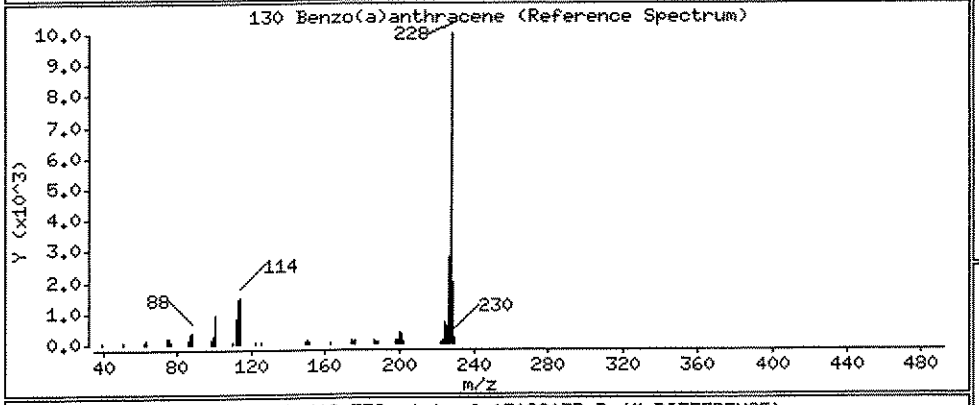
Volume Injected (uL): 0.5 Operator: SDB

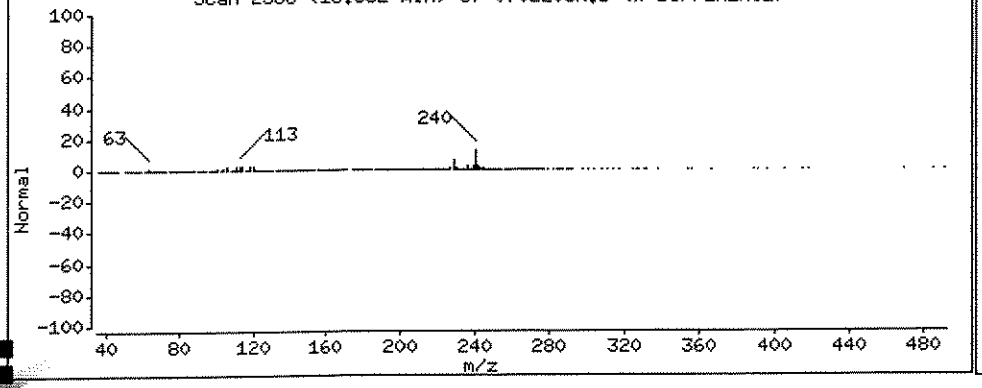
Column phase: fused silica Column diameter: 0.25

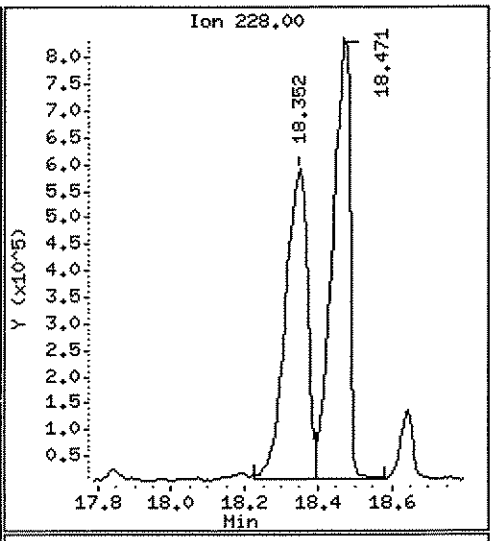
130 Benzo(a)anthracene Concentration: 3288 UG/KG

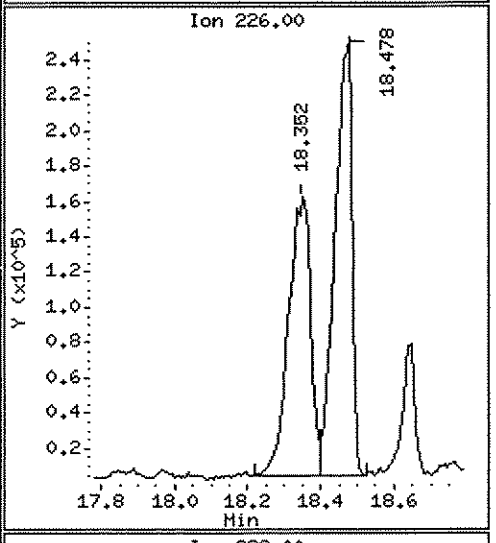


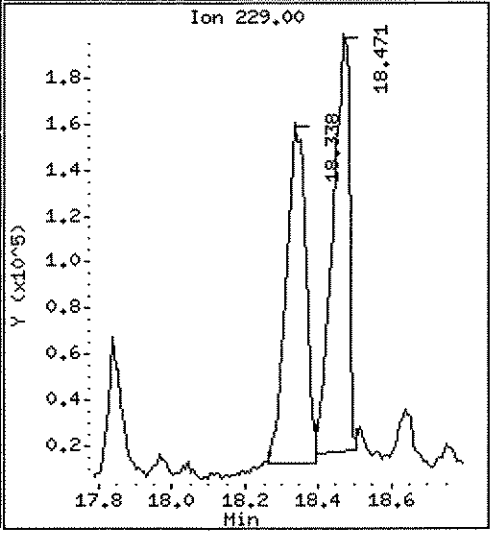












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

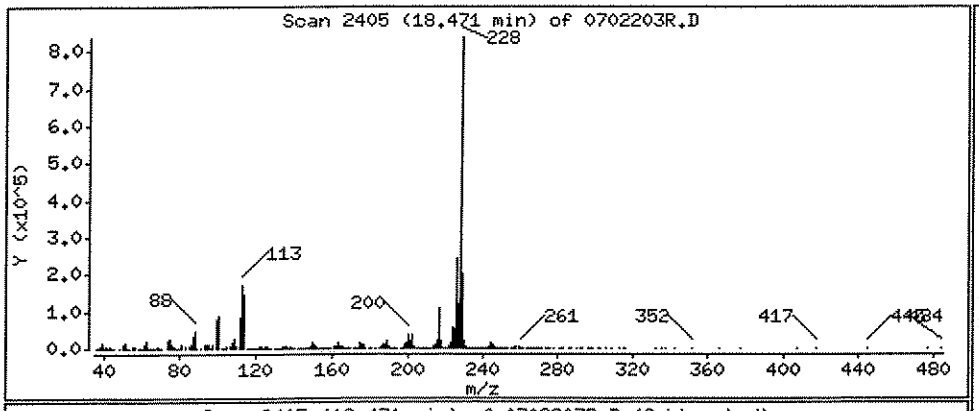
Client ID: 51CFM01S060706 Instrument: bna1.i

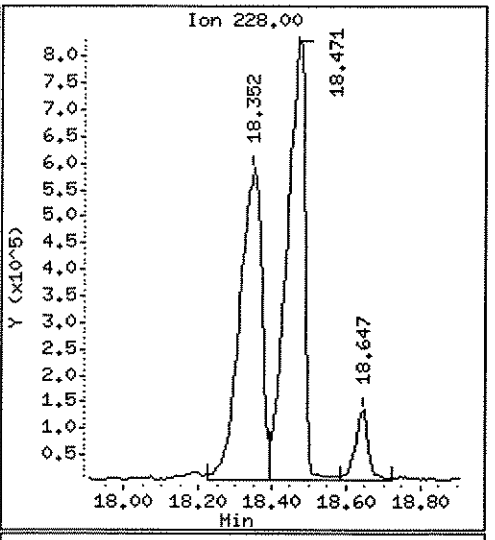
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

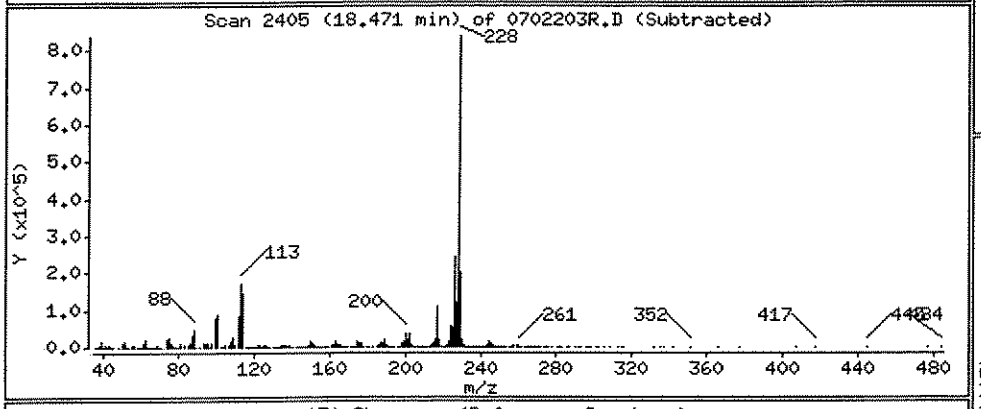
Volume Injected (uL): 0.5 Operator: SDB

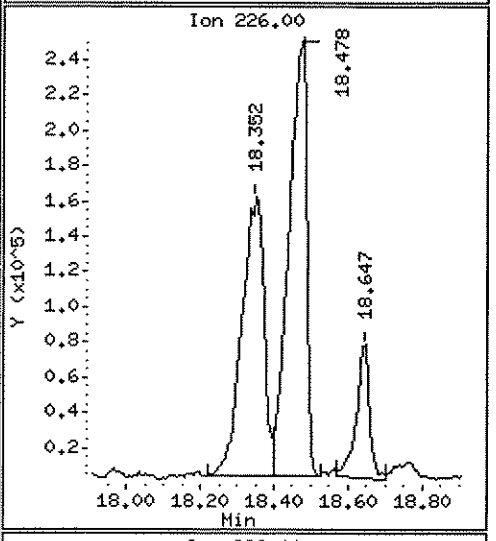
Column phase: fused silica Column diameter: 0.25

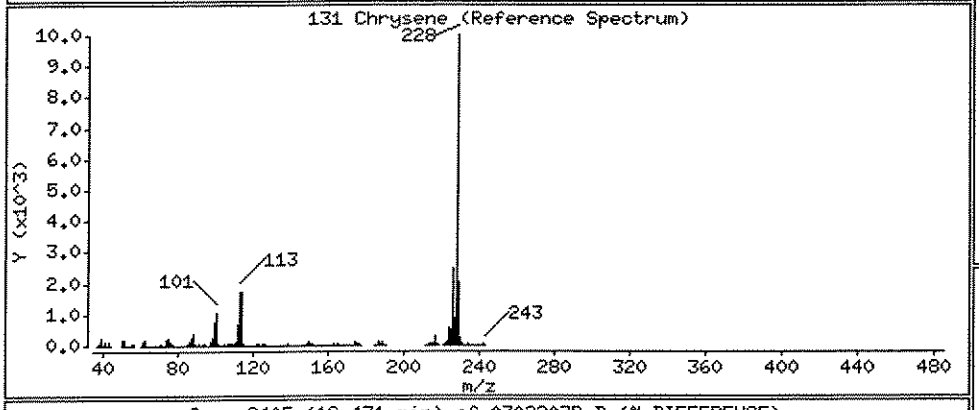
131 Chrysene Concentration: 4061 UG/KG

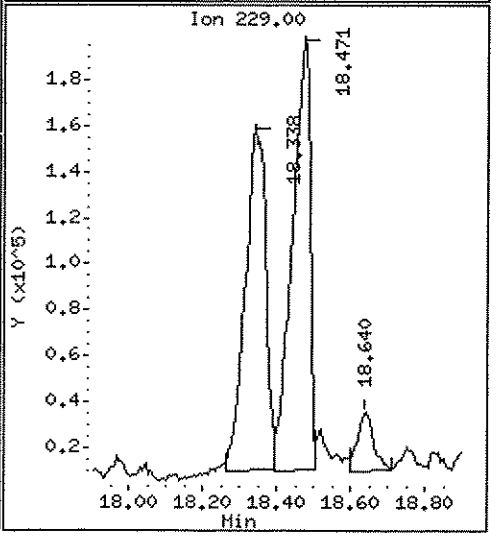


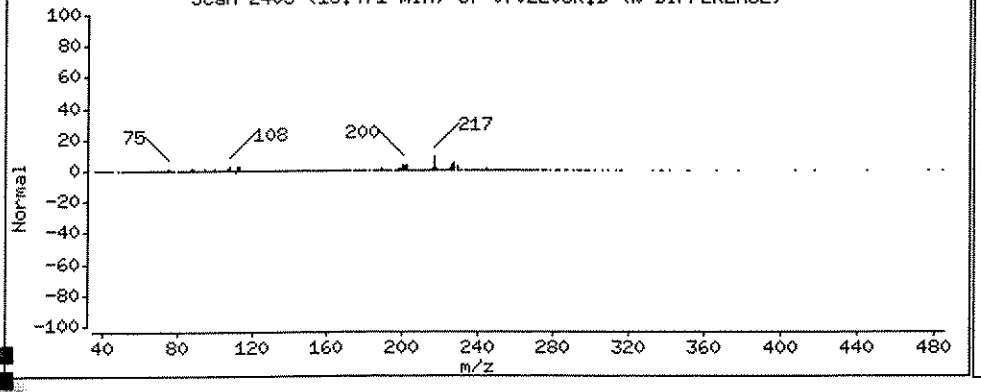












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

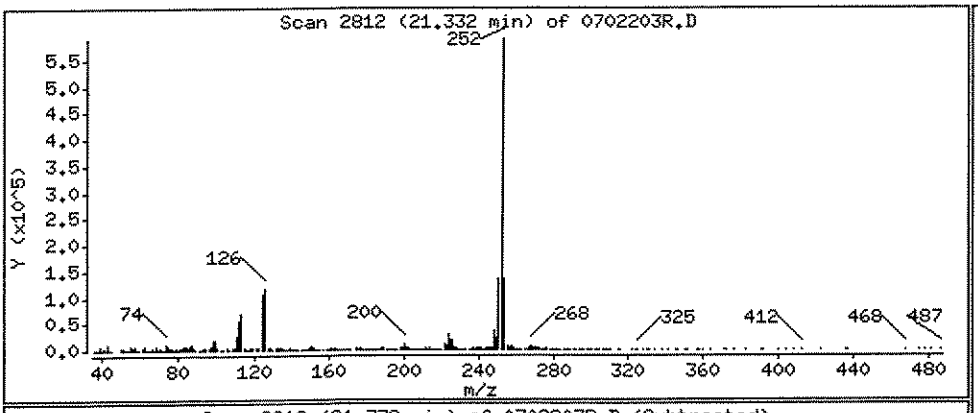
Client ID: 51CFM01S060706 Instrument: bna1.i

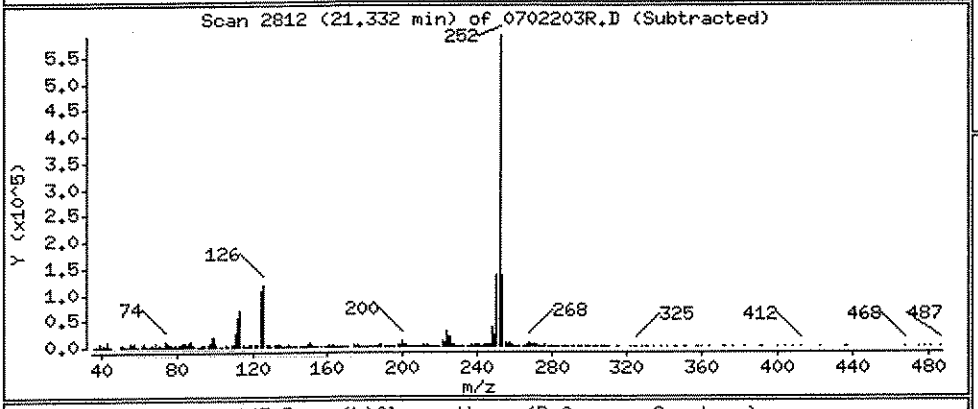
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

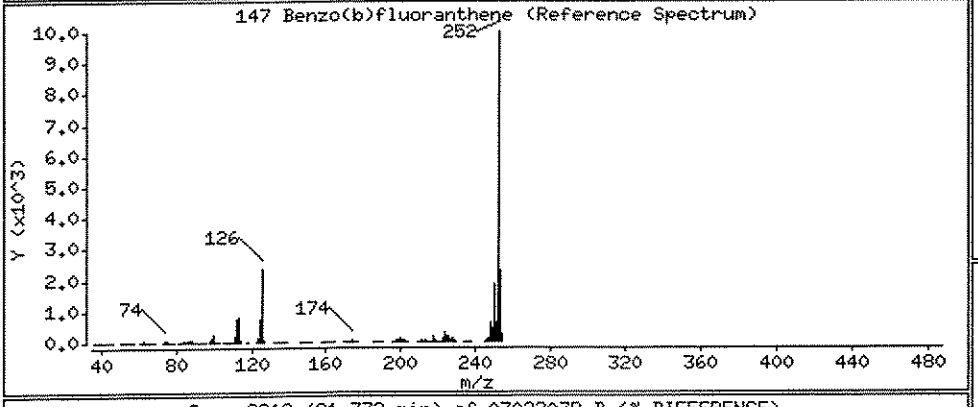
Volume Injected (uL): 0.5 Operator: SDB

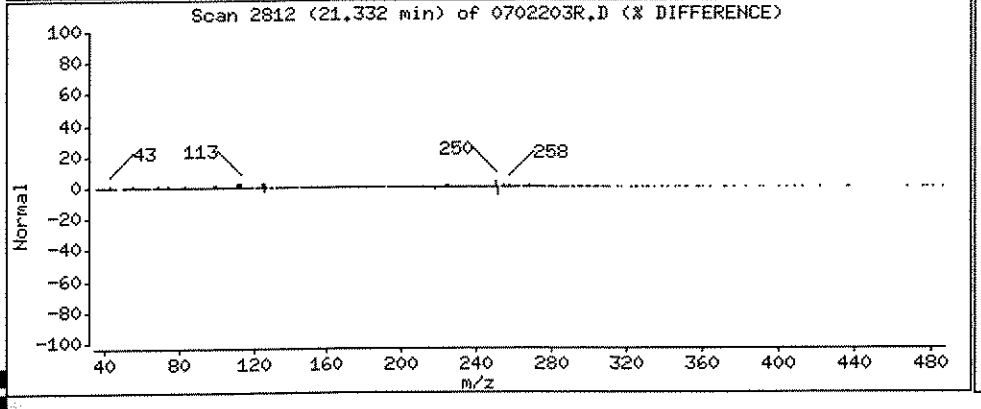
Column phase: fused silica Column diameter: 0.25

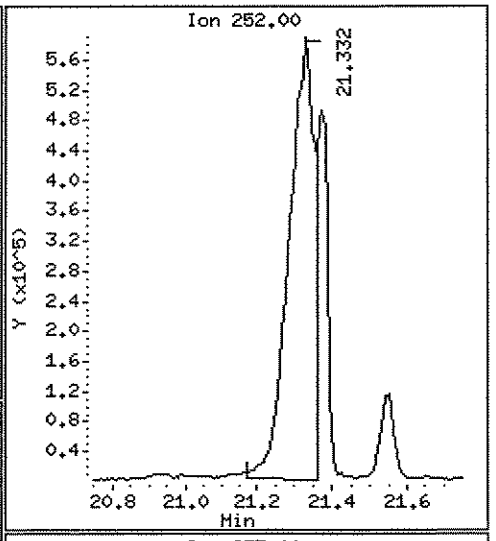
147 Benzo(b)fluoranthene Concentration: 4733 UG/KG

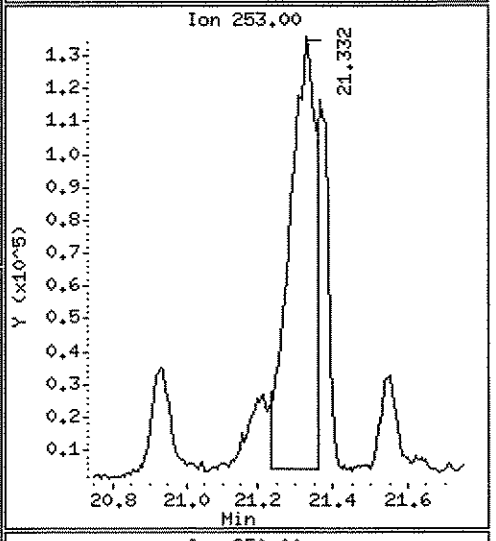


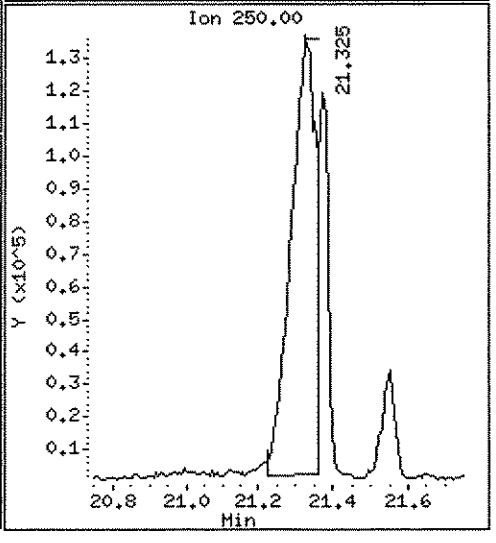












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

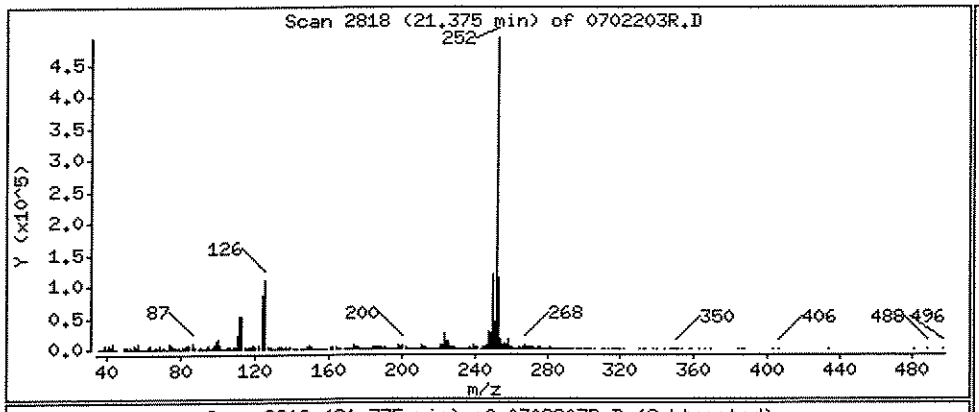
Client ID: 51CFM01S060706 Instrument: bna1.i

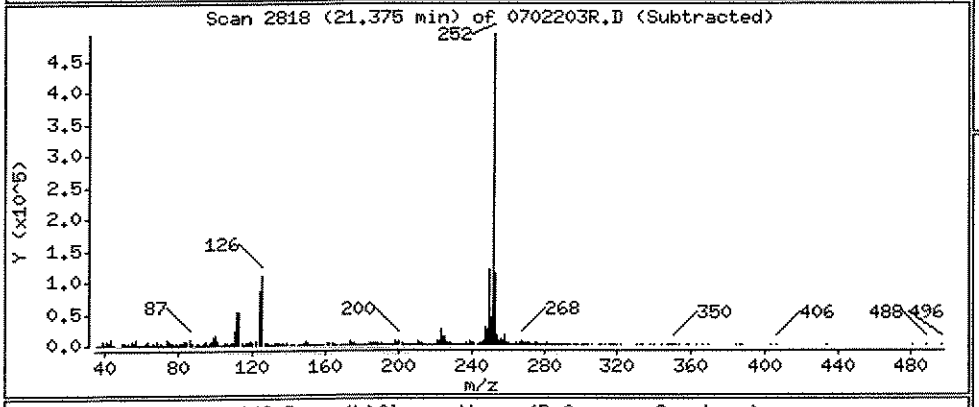
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

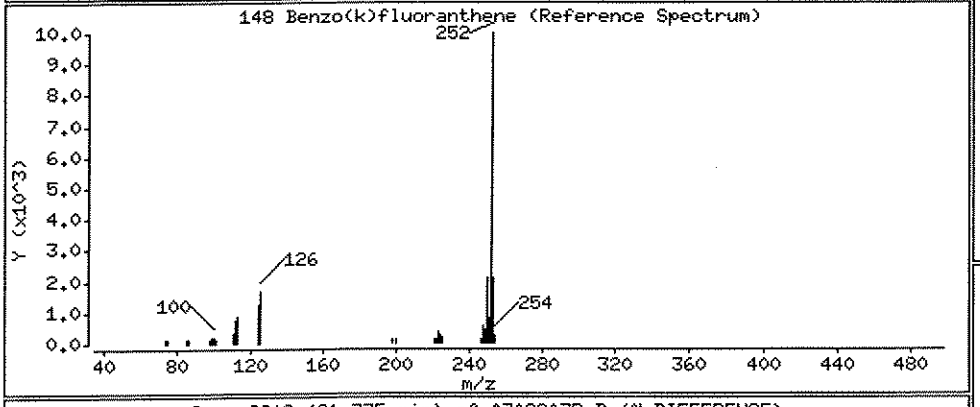
Volume Injected (uL): 0.5 Operator: SDB

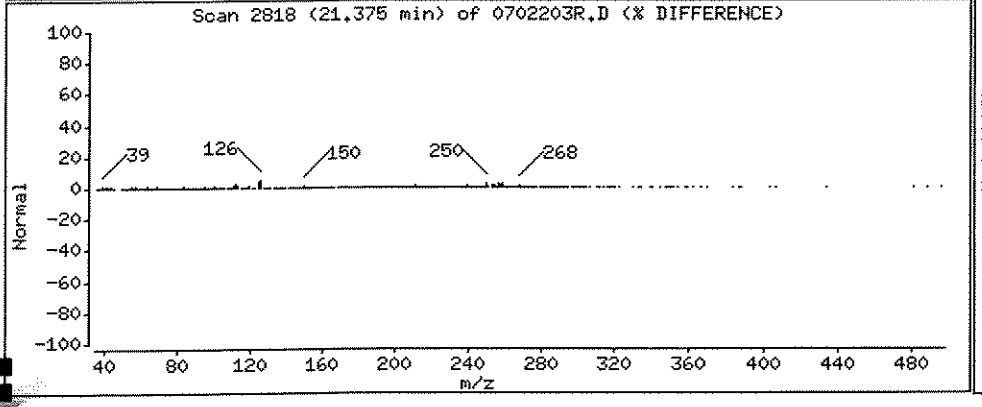
Column phase: fused silica Column diameter: 0.25

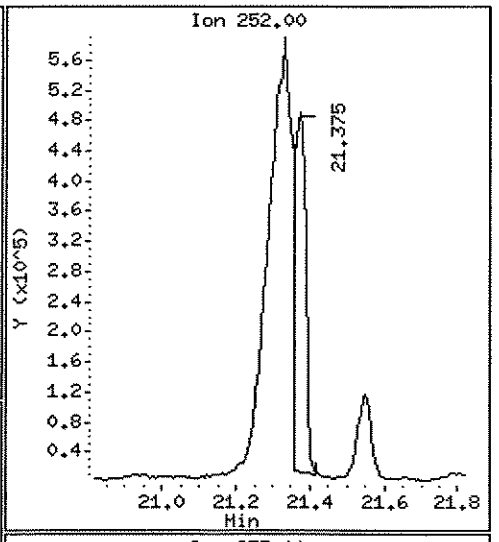
148 Benzo(k)fluoranthene Concentration: 1590 UG/KG

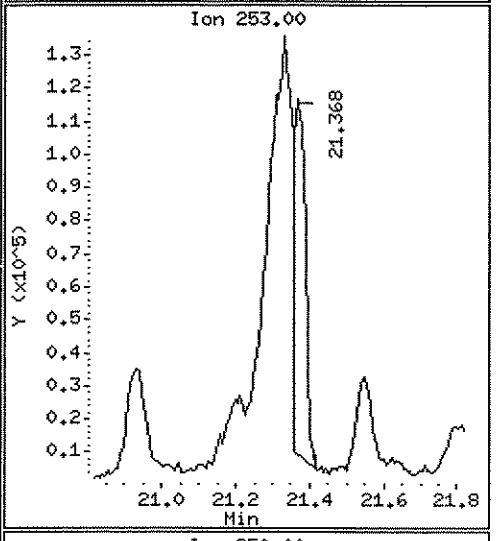


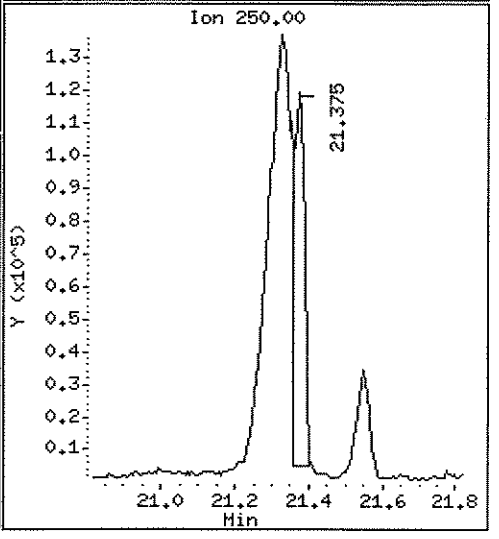












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

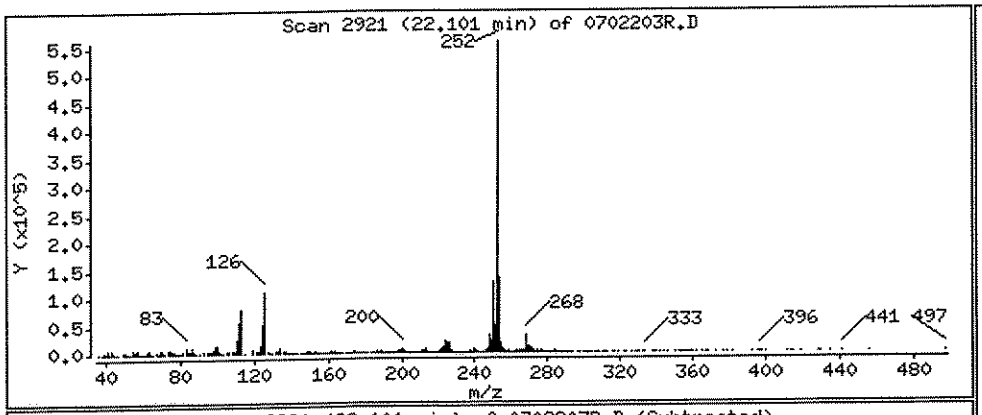
Operator: SDB

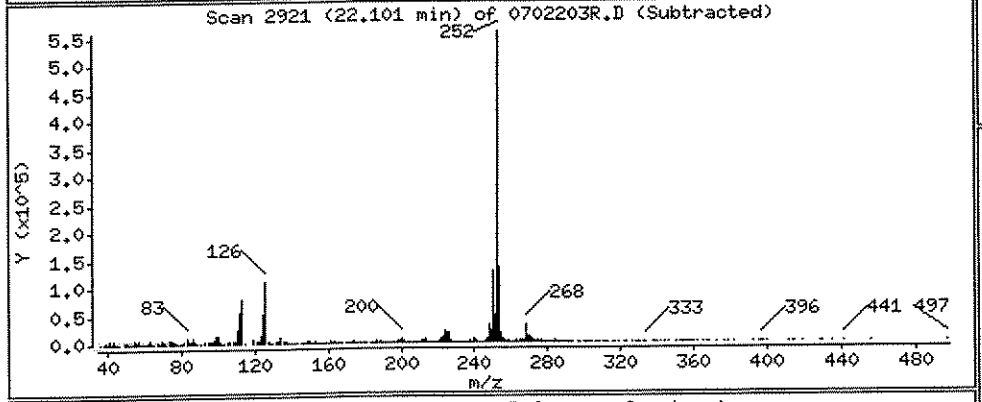
Column phase: fused silica

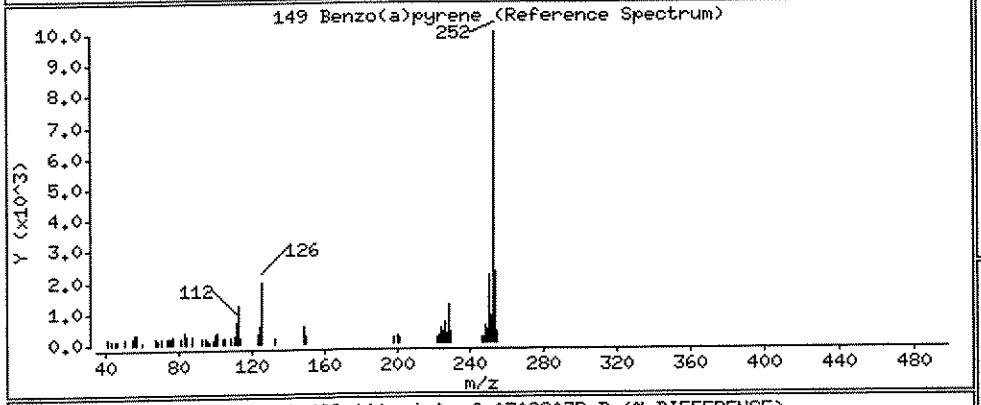
Column diameter: 0.25

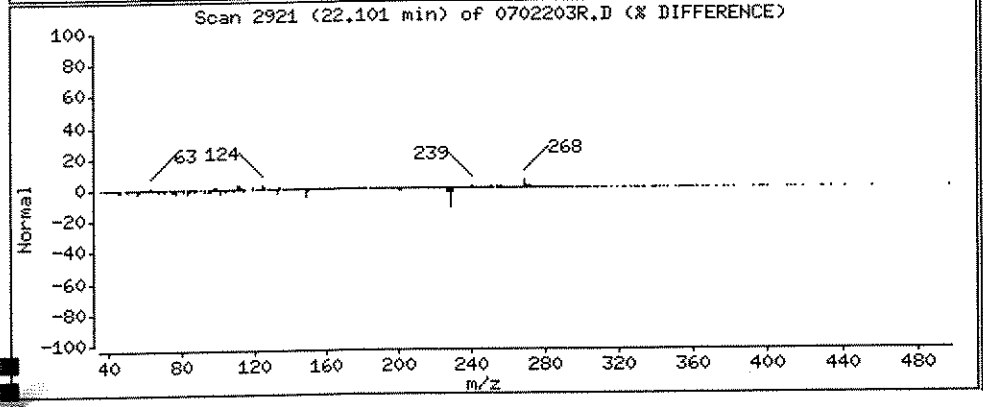
149 Benzo(a)pyrene

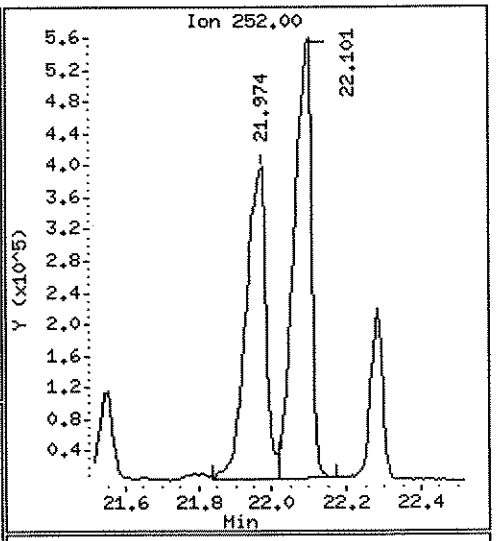
Concentration: 3616 UG/KG

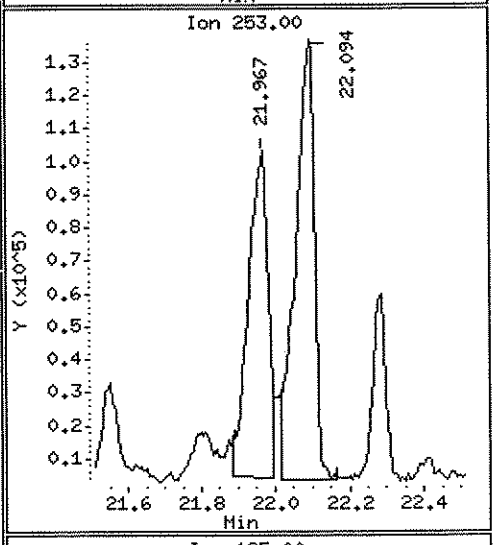


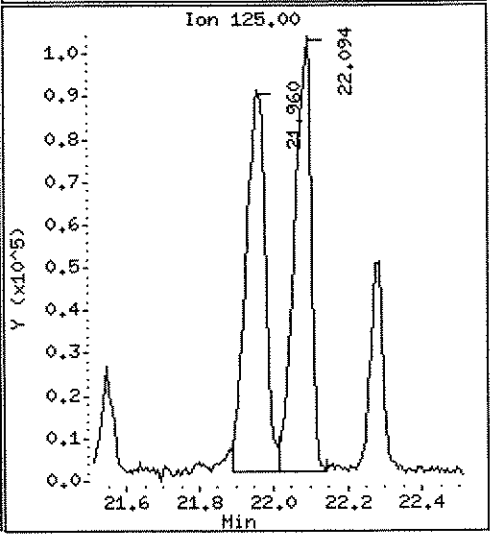












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

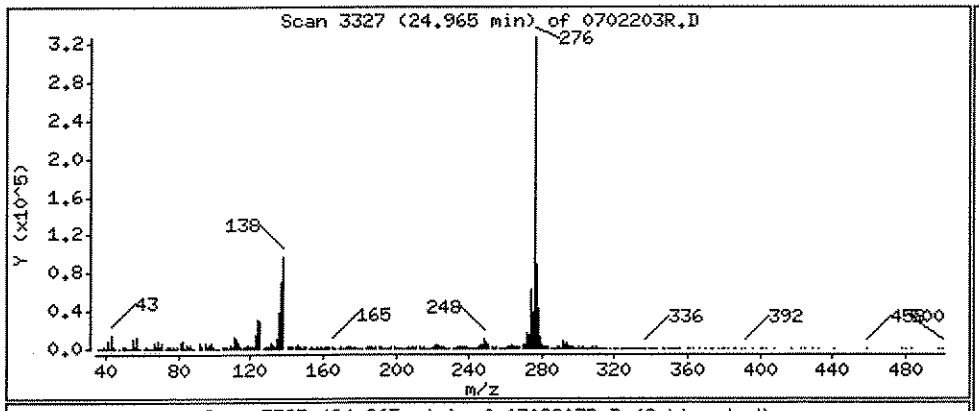
Client ID: 51CFM01S060706 Instrument: bna1.i

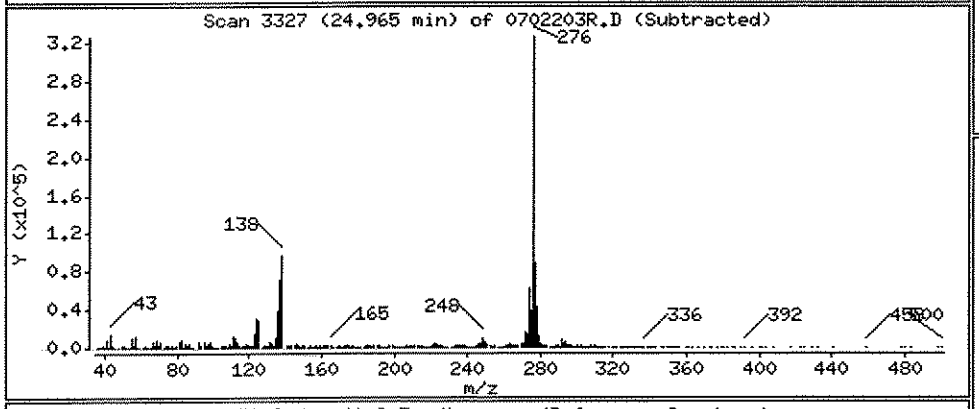
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

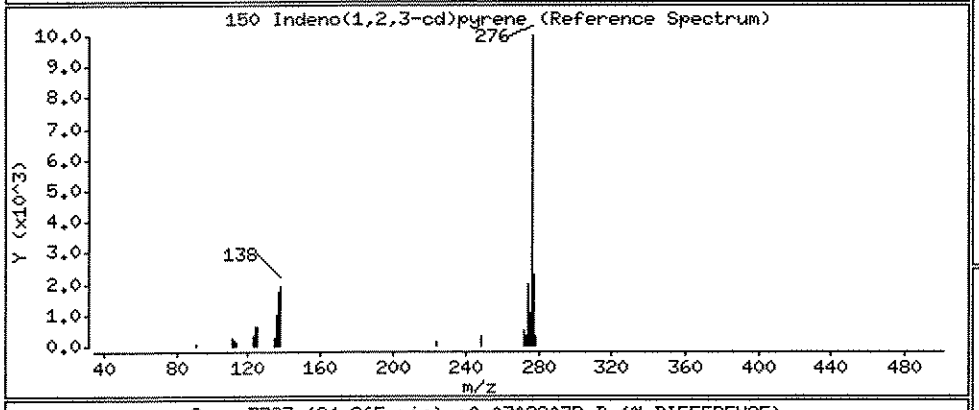
Volume Injected (uL): 0.5 Operator: SDB

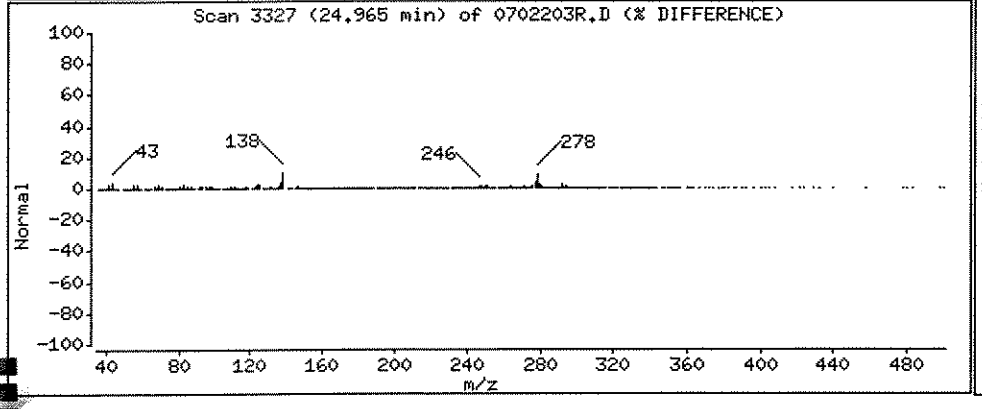
Column phase: fused silica Column diameter: 0.25

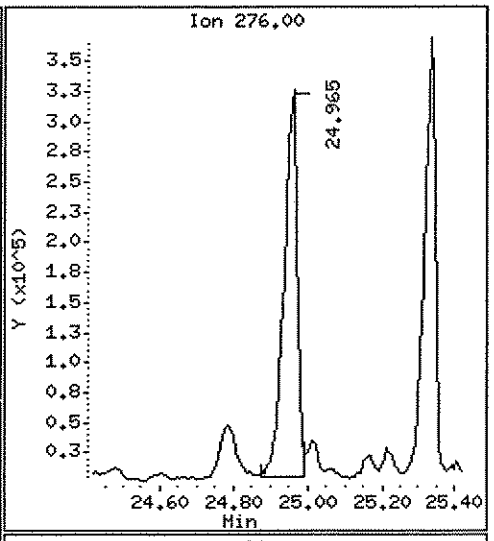
150 Indeno(1,2,3-cd)pyrene Concentration: 1892 UG/KG

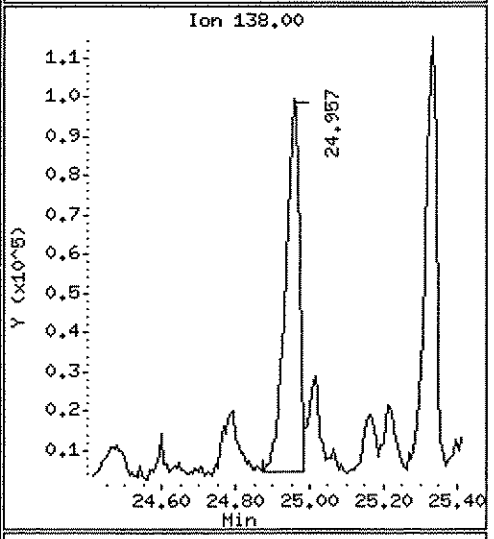


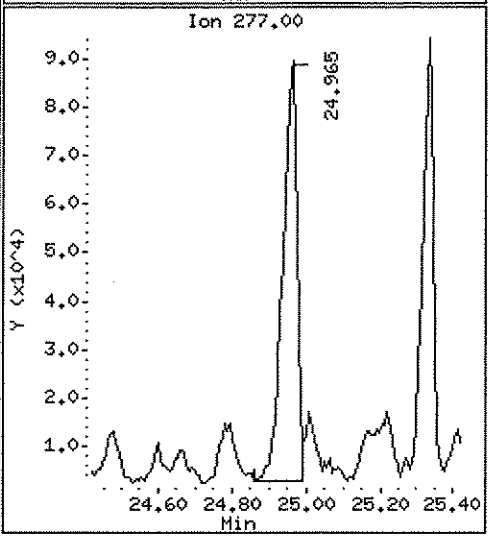












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

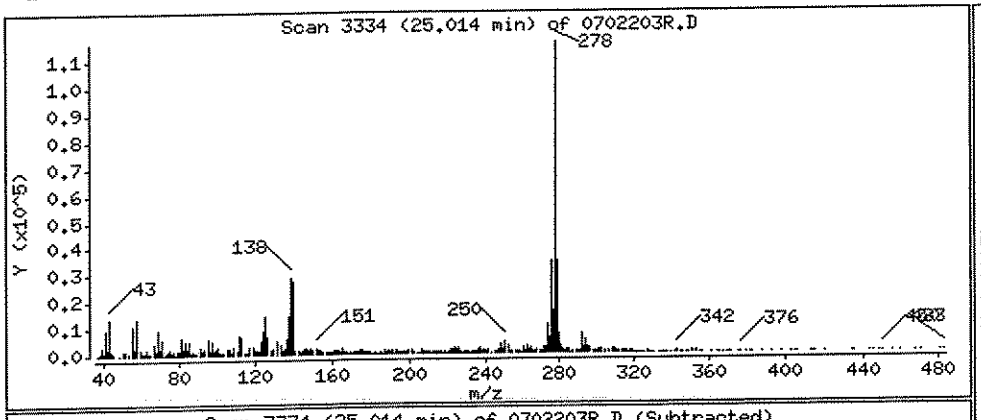
Operator: SDB

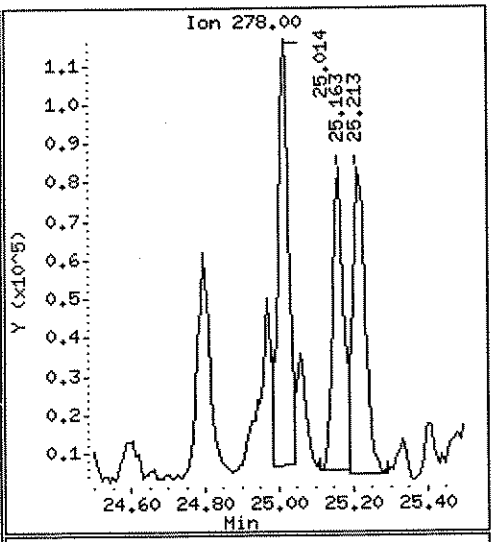
Column phase: fused silica

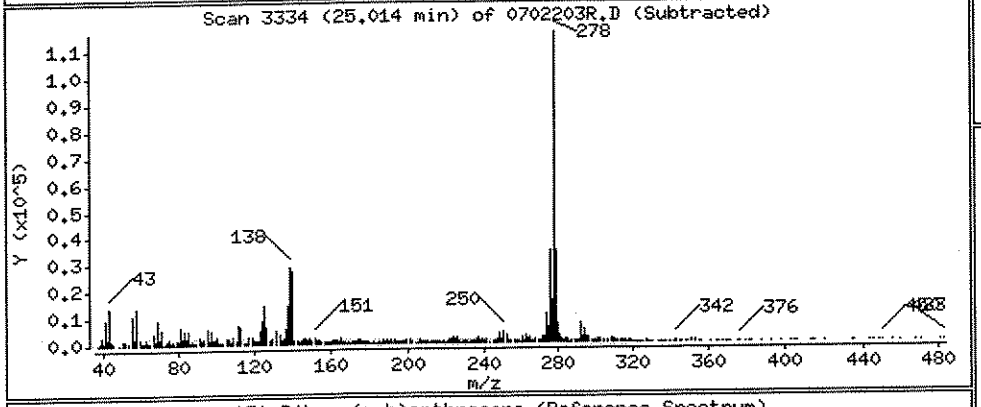
Column diameter: 0.25

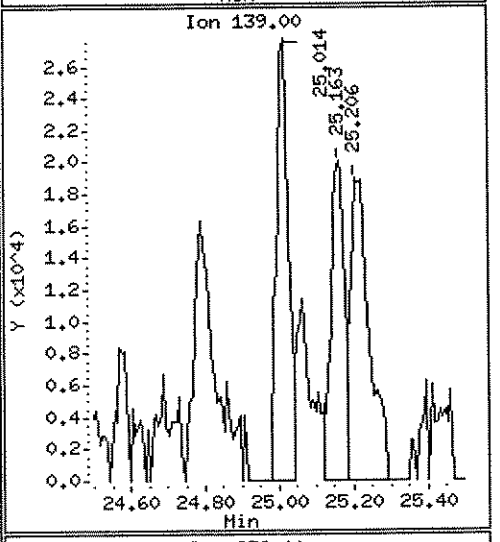
151 Dibenz(a,h)anthracene

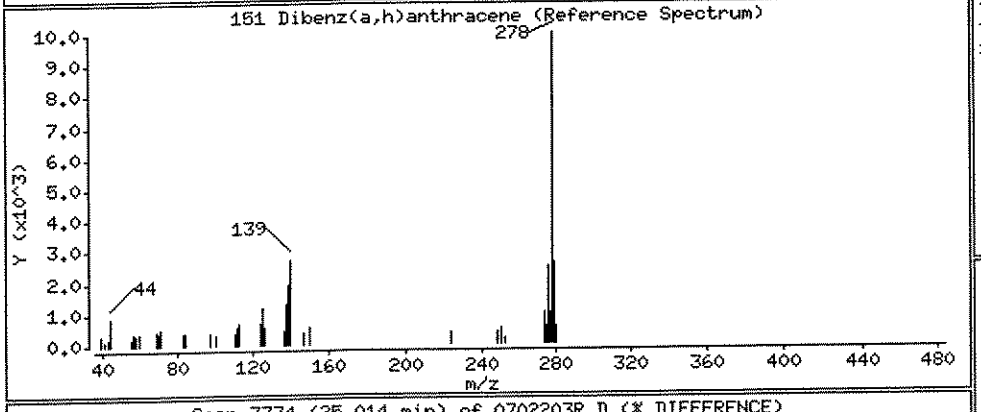
Concentration: 520.6 UG/KG

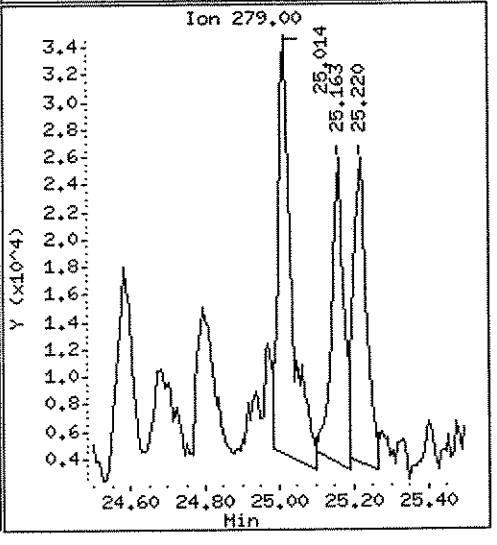


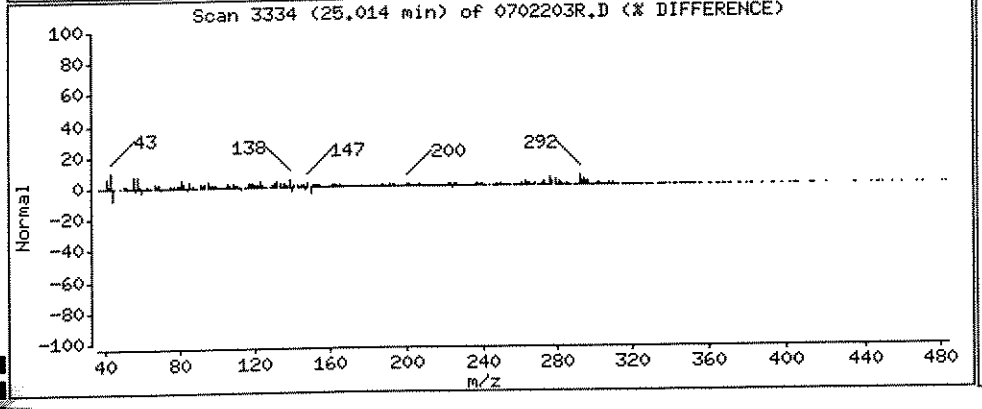












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Date : 11-JUL-2006 17:27

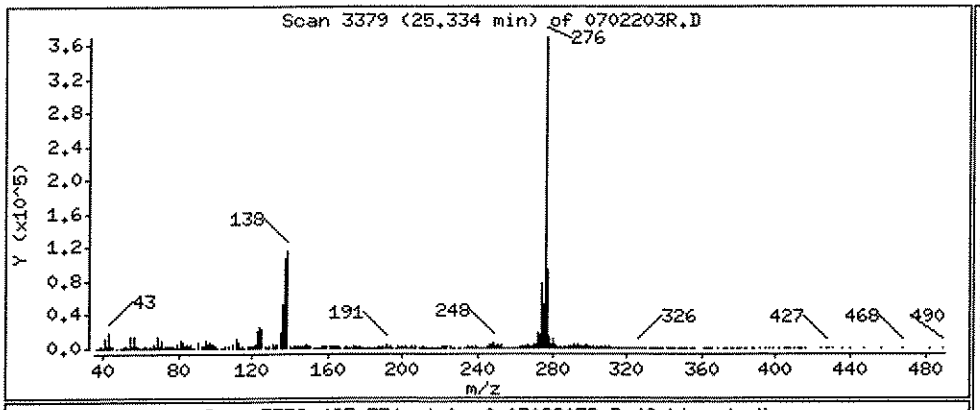
Client ID: 51CFM01S060706 Instrument: bna1.i

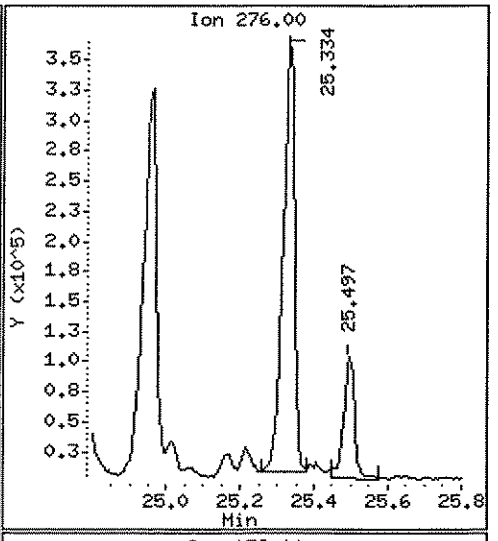
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

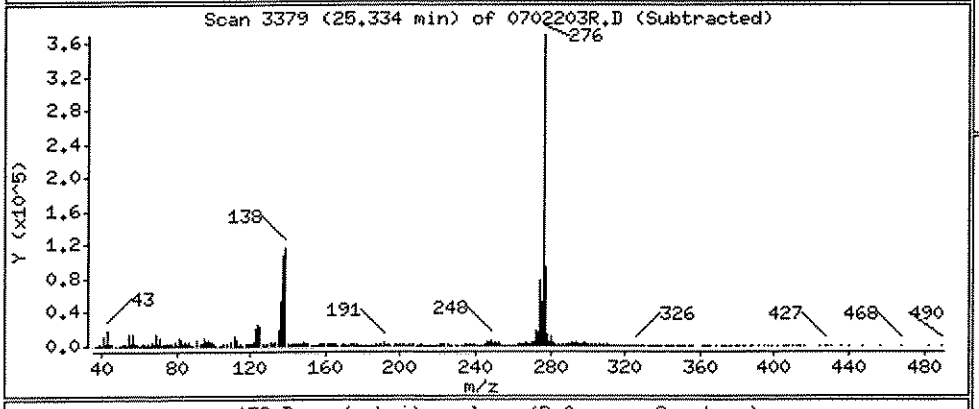
Volume Injected (uL): 0.5 Operator: SDB

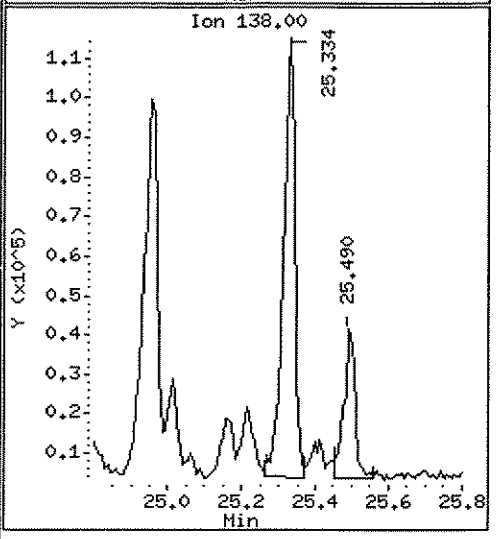
Column phase: fused silica Column diameter: 0.25

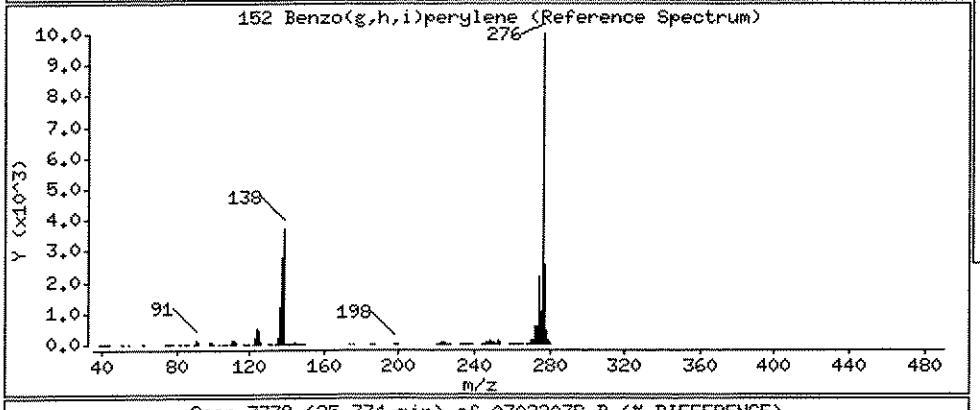
152 Benzo(g,h,i)perylene Concentration: 1697 UG/KG

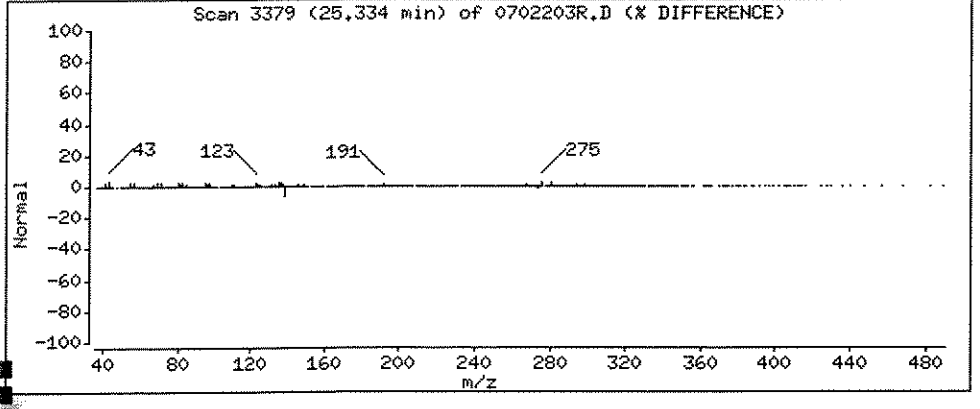












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:40

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	850	400	JD
208-96-8	Acenaphthylene	100	850		UD
120-12-7	Anthracene	100	850	700	JD
56-55-3	Benzo(a)anthracene	100	850	3400	D
205-99-2	Benzo(b)fluoranthene	100	850	4100	D
207-08-9	Benzo(k)fluoranthene	100	850	2000	D
191-24-2	Benzo(g,h,i)perylene	100	850	2200	D
50-32-8	Benzo(a)pyrene	100	510	3700	D
218-01-9	Chrysene	100	850	4300	D
53-70-3	Dibenz(a,h)anthracene	100	510	620	D
206-44-0	Fluoranthene	100	850	6000	D
86-73-7	Fluorene	100	850	410	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	850	2300	D
91-57-6	2-Methylnaphthalene	100	850		UD
90-12-0	1-Methylnaphthalene	260	850		UD
91-20-3	Naphthalene	100	850		UD
85-01-8	Phenanthrene	100	850	4000	D
129-00-0	Pyrene	100	850	5100	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 11-JUL-2006 15:40
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.238	4.235	(1.000)	554399	40.0000	
*	31 Naphthalene-d8	136	5.232	5.240	(1.000)	1861201	40.0000	
$	32 Nitrobenzene-d5	82	4.664	4.668	(0.891)	271931	13.3842	2276
*	65 Acenaphthene-d10	164	7.638	7.641	(1.000)	974269	40.0000	
$	70 2-Fluorobiphenyl	172	6.548	6.555	(0.857)	409954	13.2225	2249
	76 Acenaphthene	153	7.693	7.703	(1.007)	65704	2.33674	397.4(a)
	84 Fluorene	166	8.721	8.727	(1.142)	71970	2.39313	407.0(a)
*	97 Phenanthrene-d10	188	10.925	10.923	(1.000)	1309895	40.0000	
	106 Phenanthrene	178	10.980	10.986	(1.005)	867963	23.2399	3952
	107 Anthracene	178	11.083	11.096	(1.015)	151947	4.12090	700.8(a)
	110 Fluoranthene	202	14.203	14.195	(1.300)	1303462	35.2516	5995
*	124 Chrysene-d12	240	18.344	18.333	(1.000)	1003686	40.0000	
	126 Pyrene	202	14.778	14.770	(0.806)	1206873	30.1088	5120

7/12/06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Report Date: 12-Jul-2006 12:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.541	15.545	(0.847)	356791	14.0777	2394
130 Benzo(a)anthracene	228	18.295	18.291	(0.997)	640389	19.8025	3368
131 Chrysene	228	18.407	18.409	(1.003)	754539	25.5458	4344
* 145 Perylene-d12	264	22.189	22.175	(1.000)	1036314	40.0000	
147 Benzo(b)fluoranthene	252	21.253	21.248	(0.958)	770266	24.1289	4104(M)
148 Benzo(k)fluoranthene	252	21.302	21.317	(0.960)	391021	11.8061	2008(M)
149 Benzo(a)pyrene	252	22.021	22.017	(0.992)	596841	21.6818	3687
150 Indeno(1,2,3-cd)pyrene	276	24.913	24.921	(1.123)	318158	13.5468	2304
151 Dibenz(a,h)anthracene	278	24.976	24.998	(1.126)	85829	3.63010	617.4(a)
152 Benzo(g,h,i)perylene	276	25.293	25.301	(1.140)	312823	12.8352	2183

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Date : 11-JUL-2006 15:40
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

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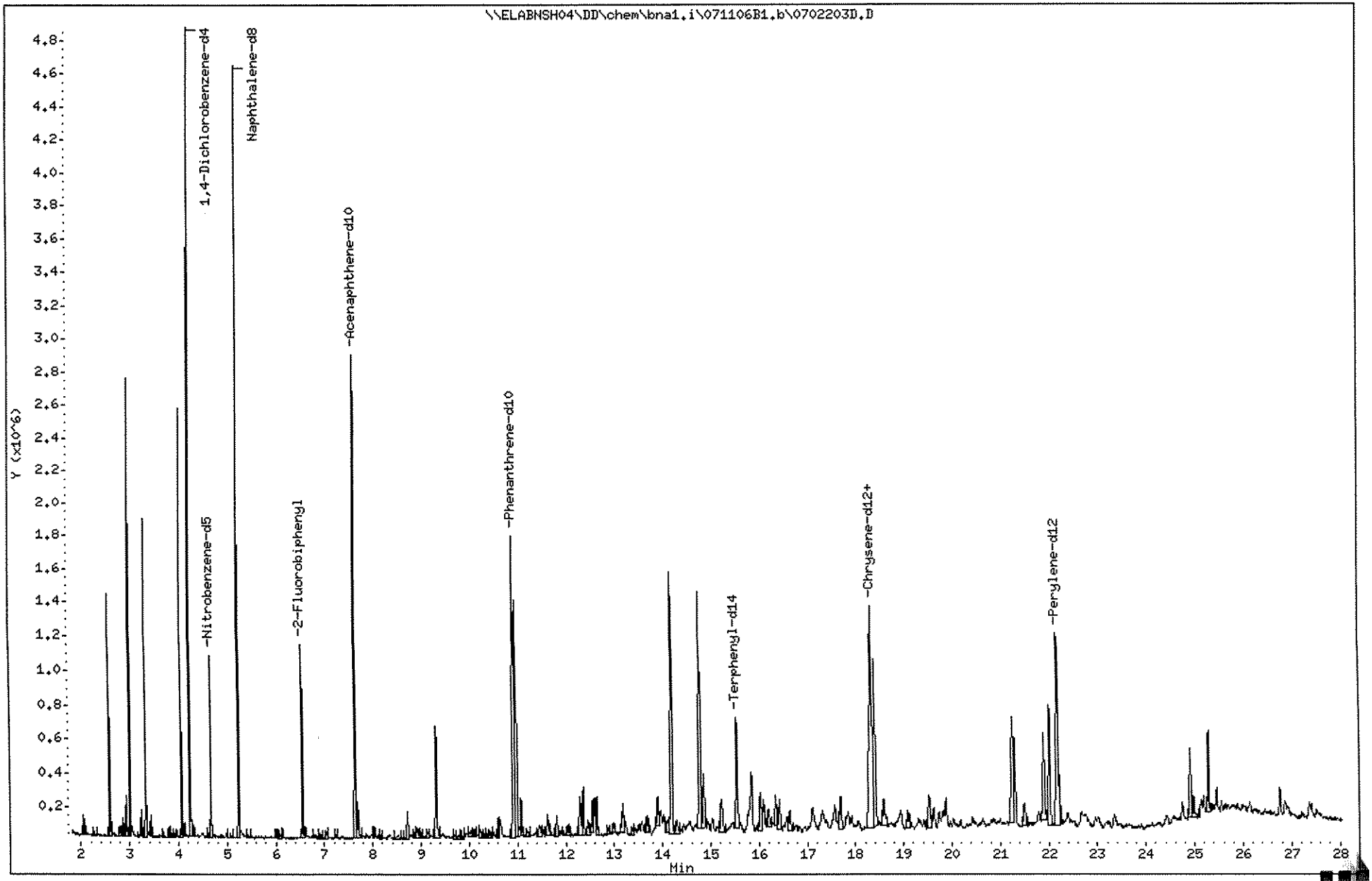

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

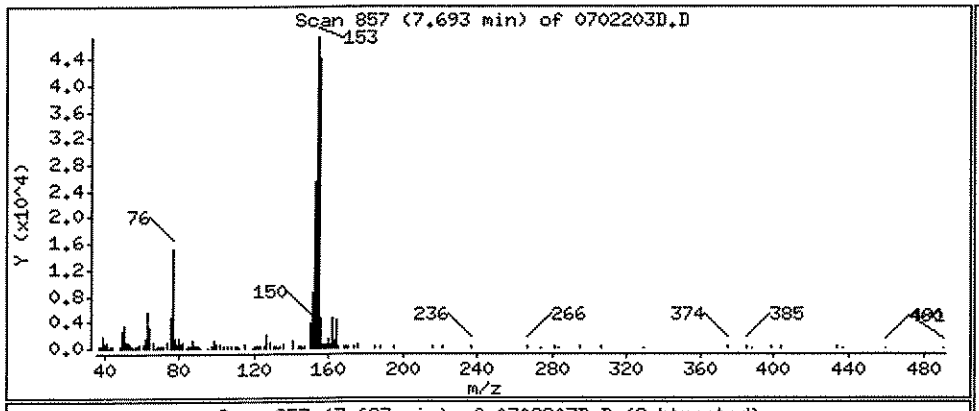
Client ID: 51CFM01S060706 Instrument: bna1.i

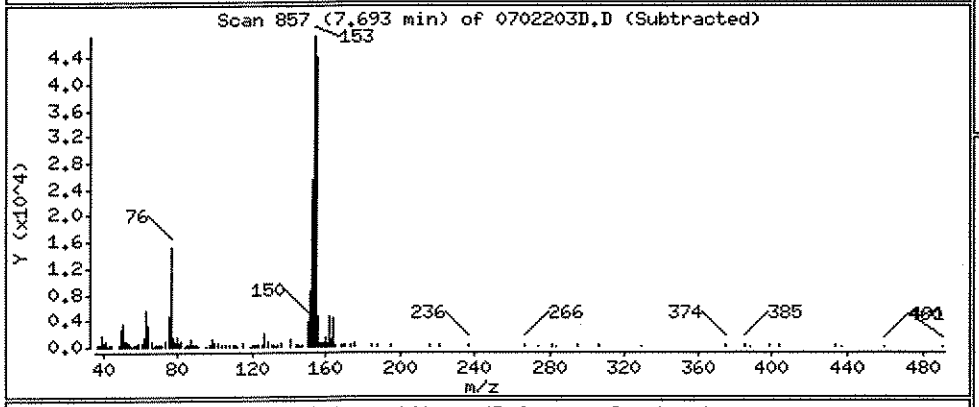
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

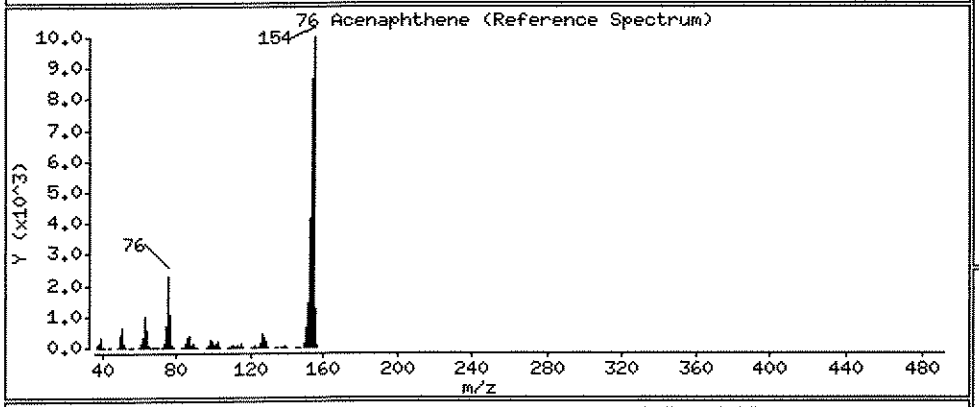
Volume Injected (uL): 0.5 Operator: SDB

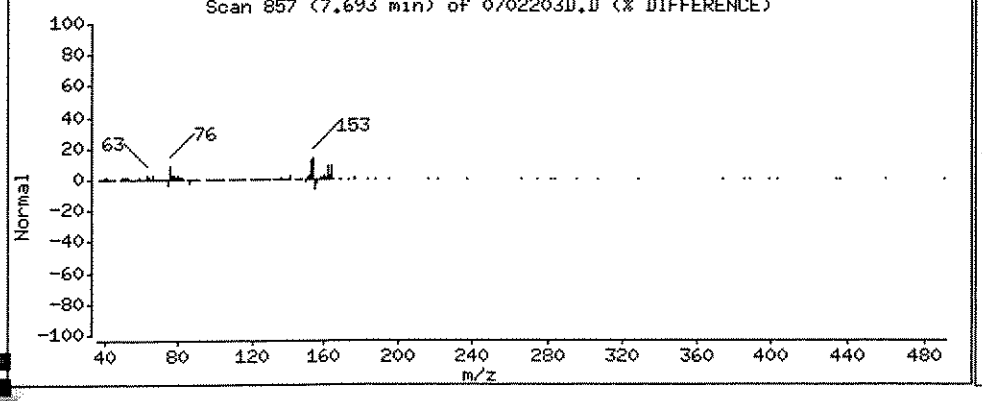
Column phase: fused silica Column diameter: 0.25

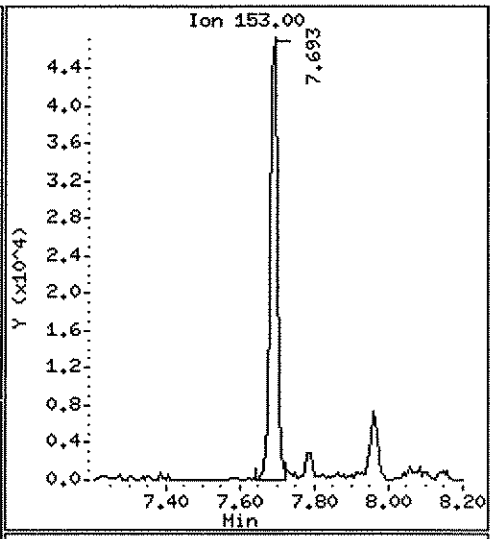
76 Acenaphthene Concentration: 397.4 UG/KG

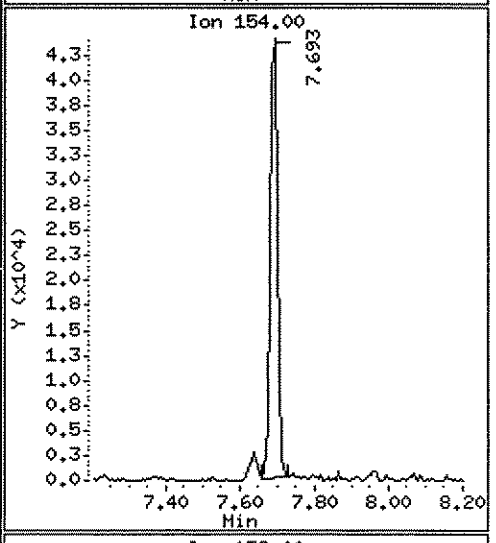


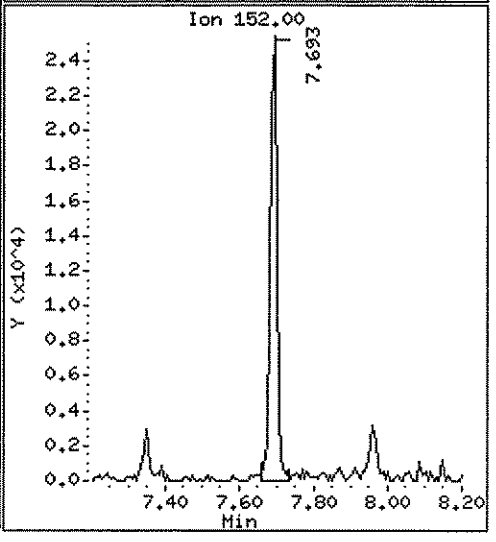












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Date : 11-JUL-2006 15:40

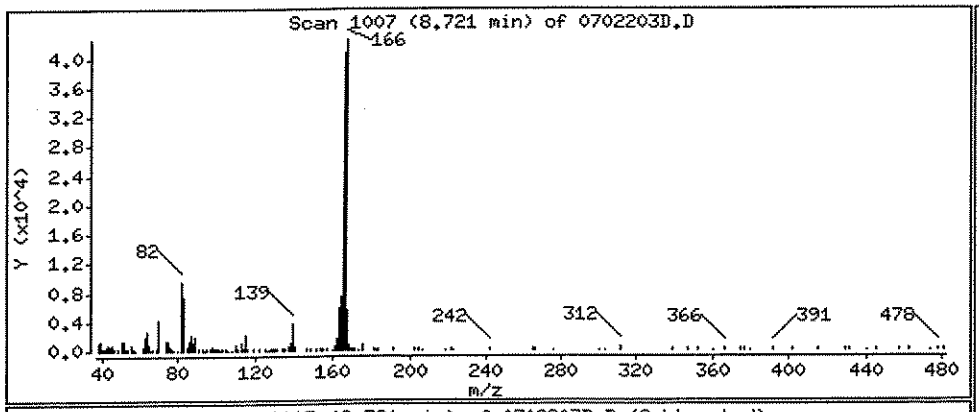
Client ID: 51CFM01S060706 Instrument: bna1.i

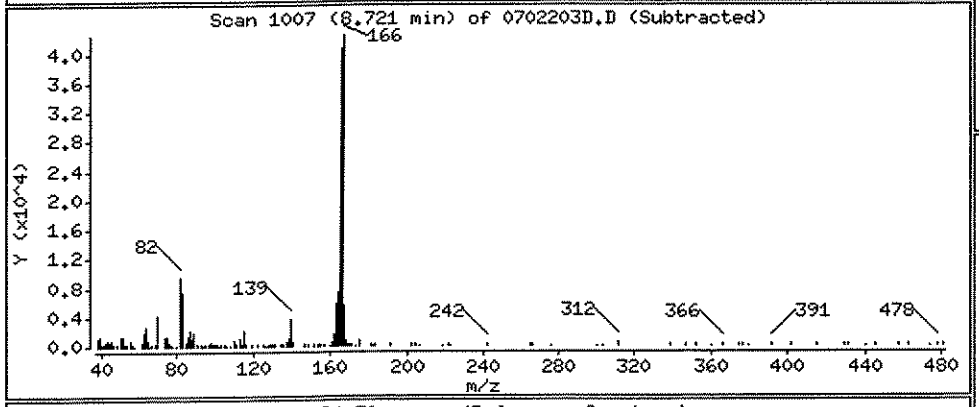
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

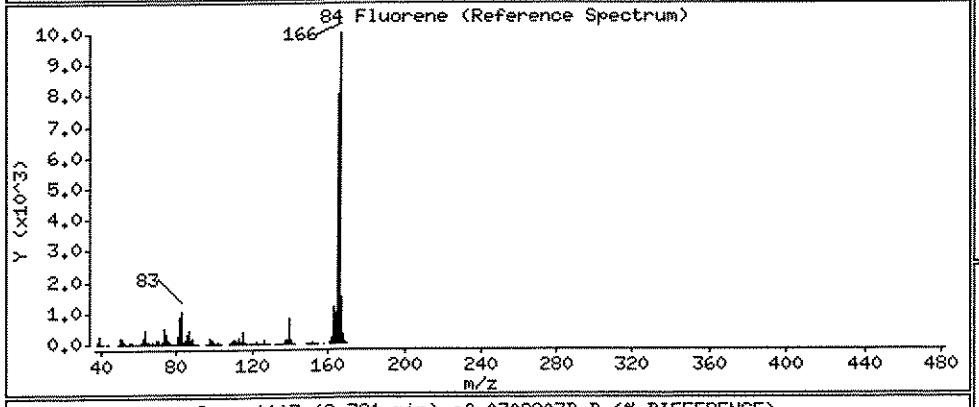
Volume Injected (uL): 0.5 Operator: SDB

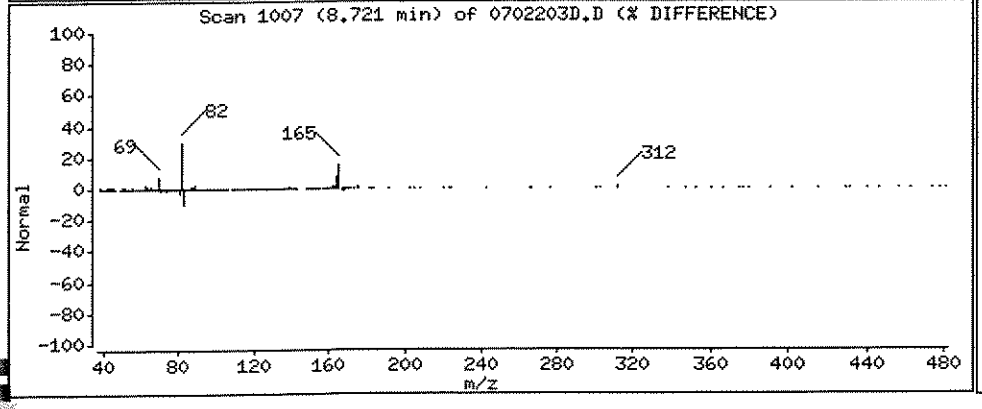
Column phase: fused silica Column diameter: 0.25

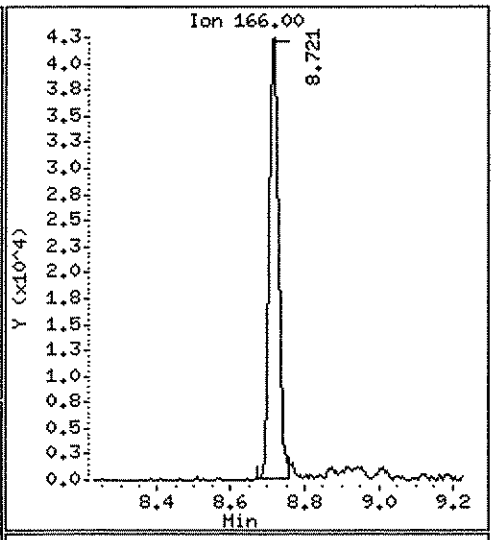
84 Fluorene Concentration: 407.0 UG/KG

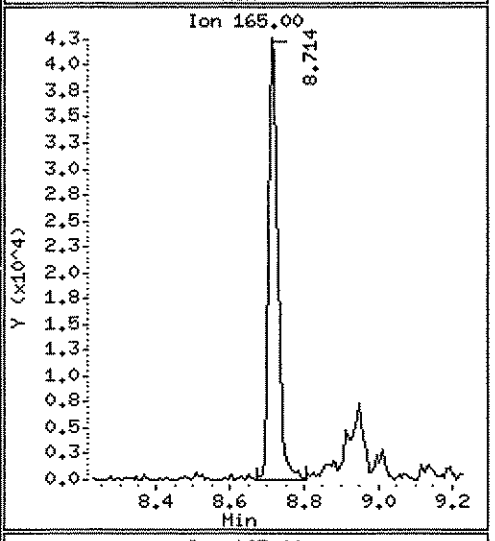


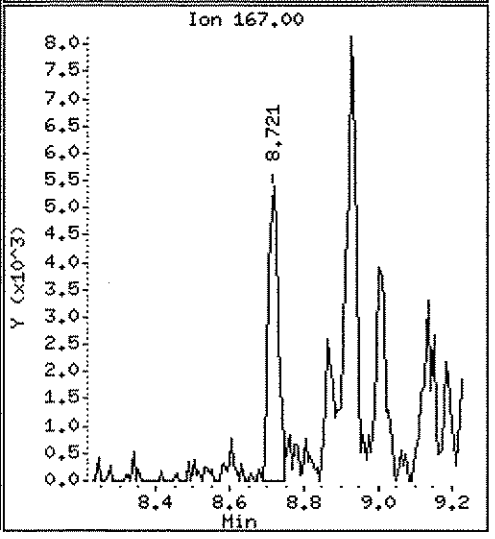












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

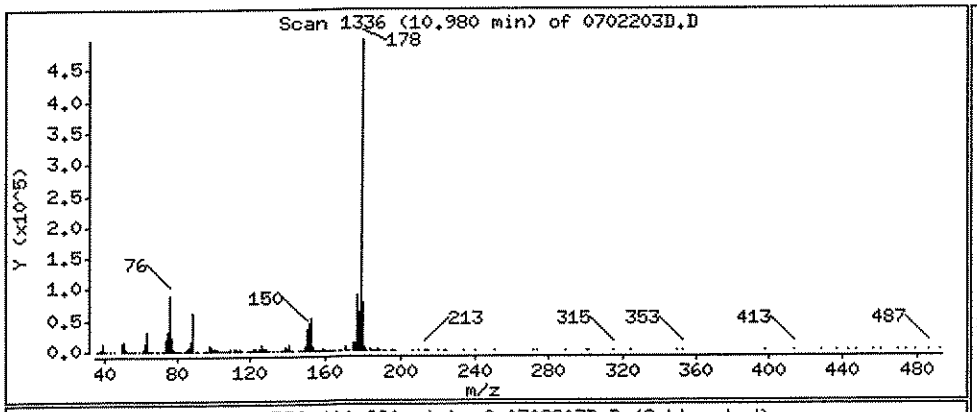
Client ID: 51CFM01S060706 Instrument: bna1.i

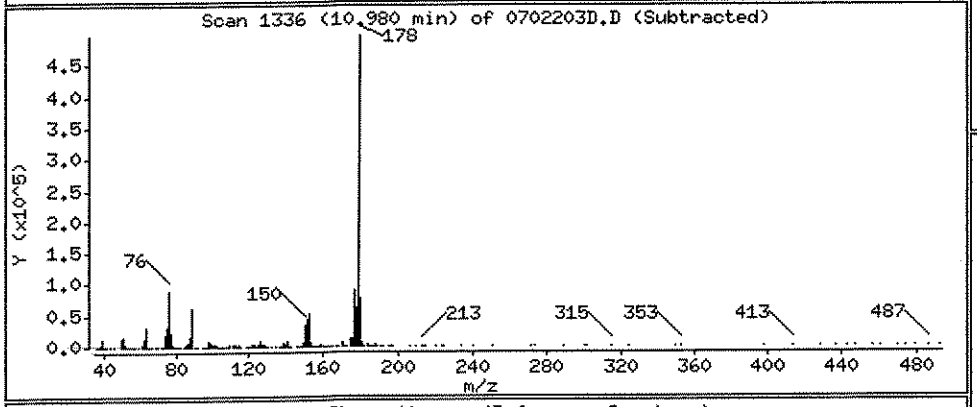
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

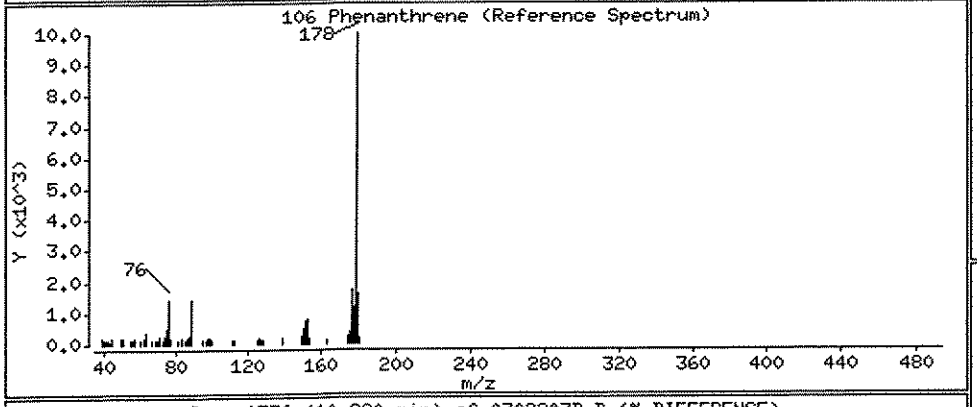
Volume Injected (uL): 0.5 Operator: SDB

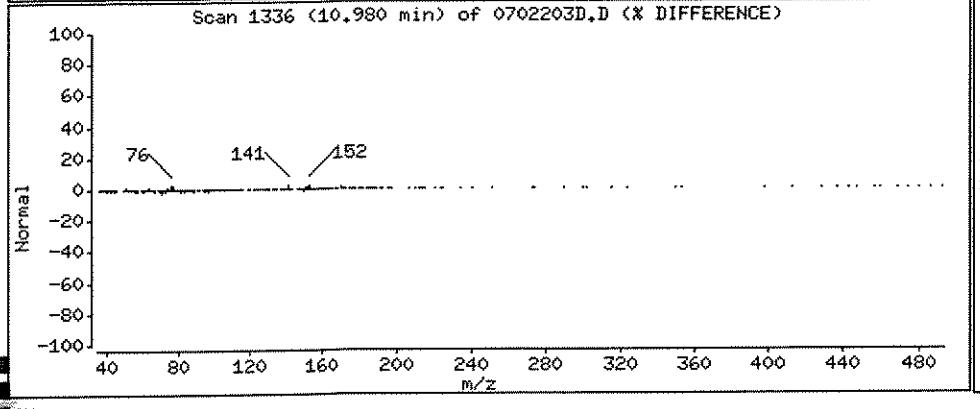
Column phase: fused silica Column diameter: 0.25

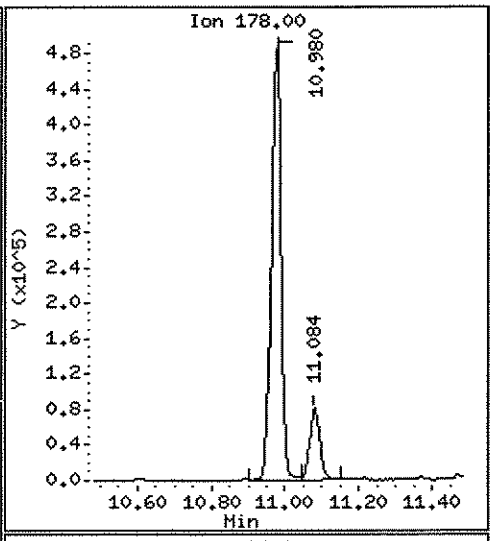
106 Phenanthrene Concentration: 3952 UG/KG

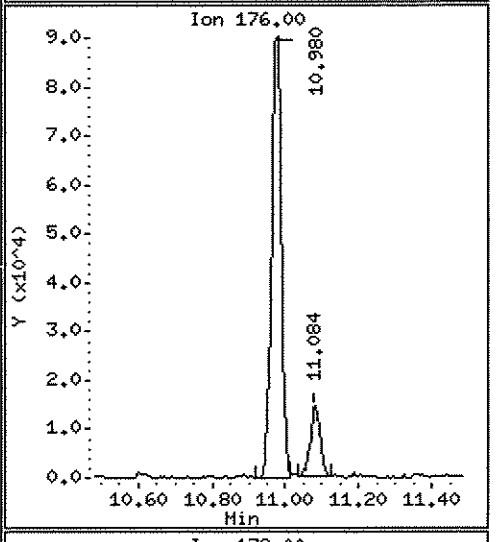


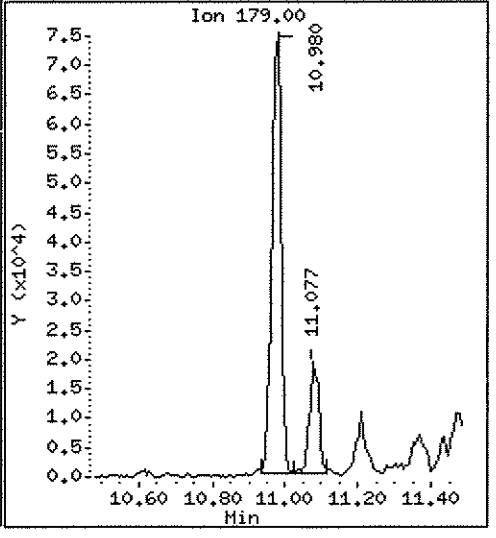












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

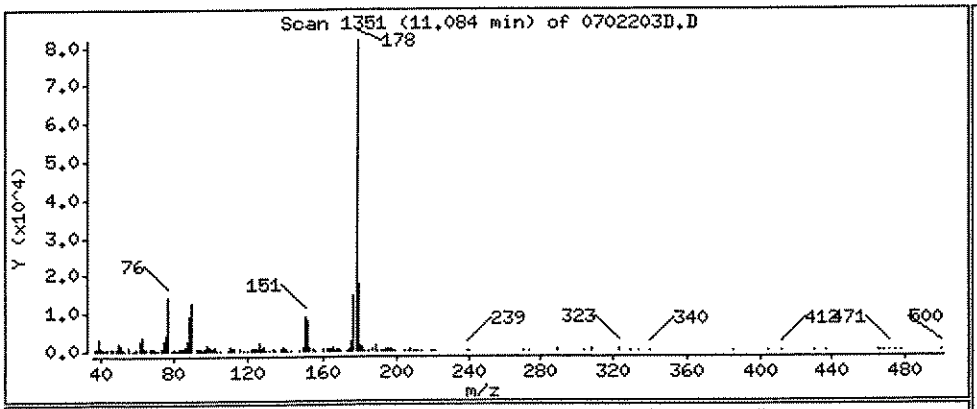
Client ID: 51CFM01S060706 Instrument: bna1.i

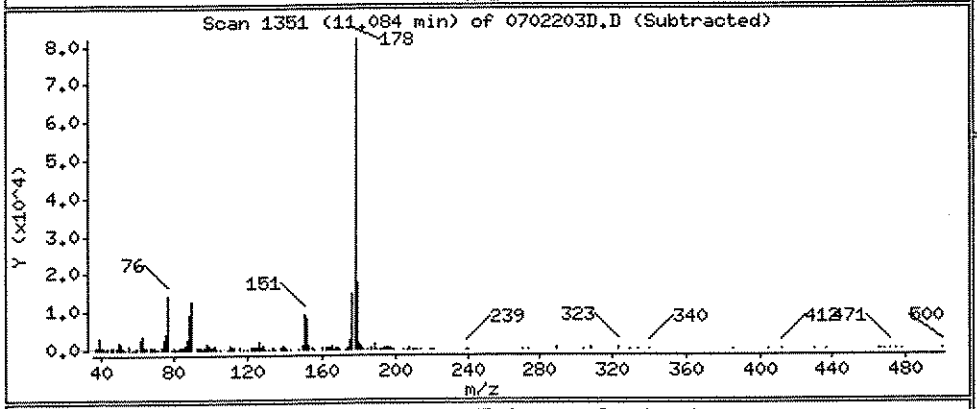
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

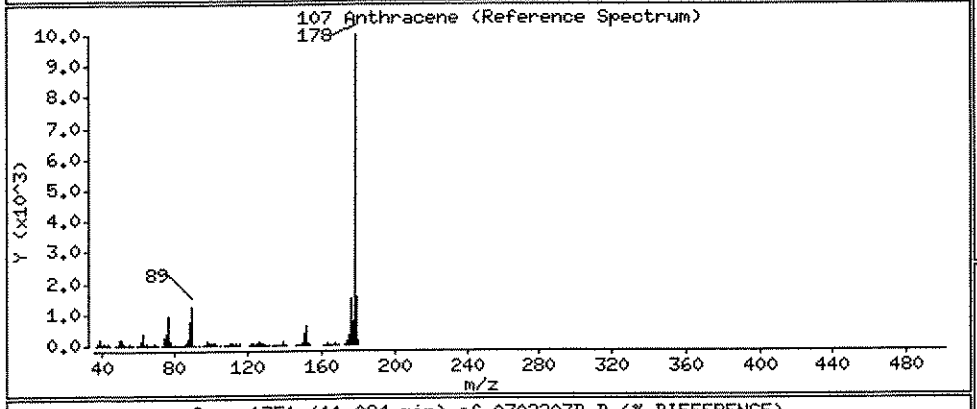
Volume Injected (uL): 0.5 Operator: SDB

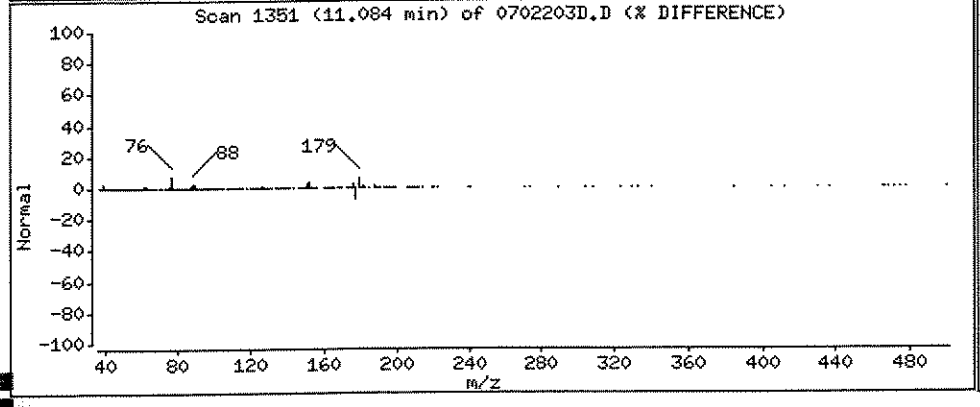
Column phase: fused silica Column diameter: 0.25

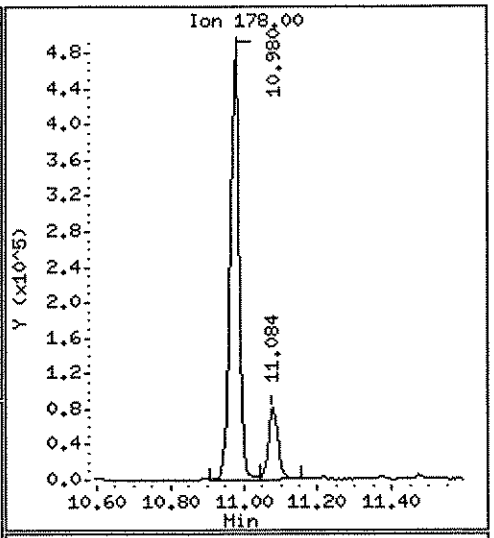
107 Anthracene Concentration: 700.8 UG/KG

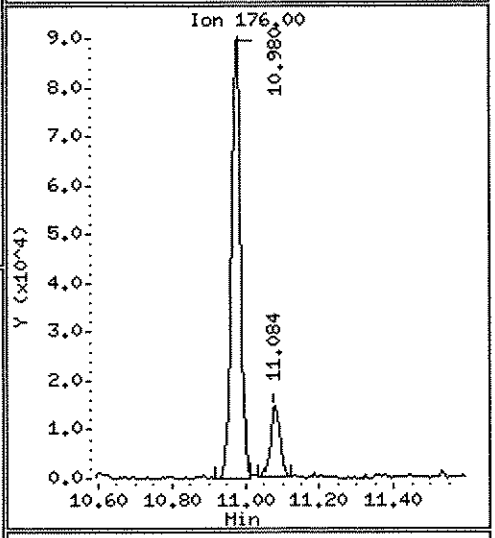


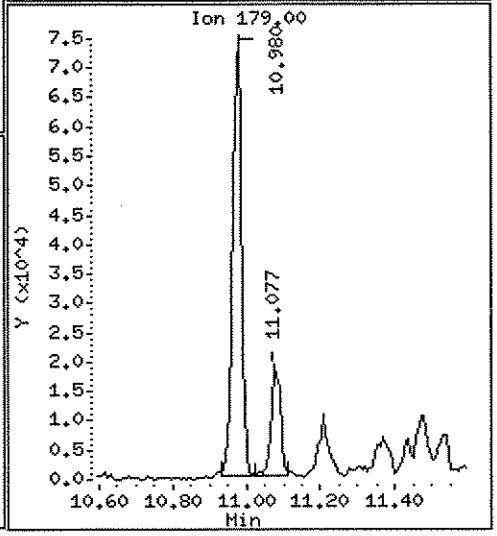












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

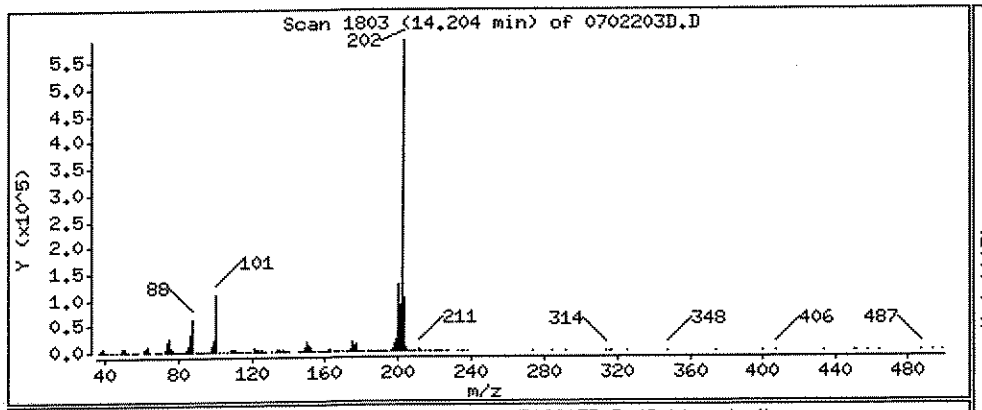
Client ID: 51CFM01S060706 Instrument: bna1.i

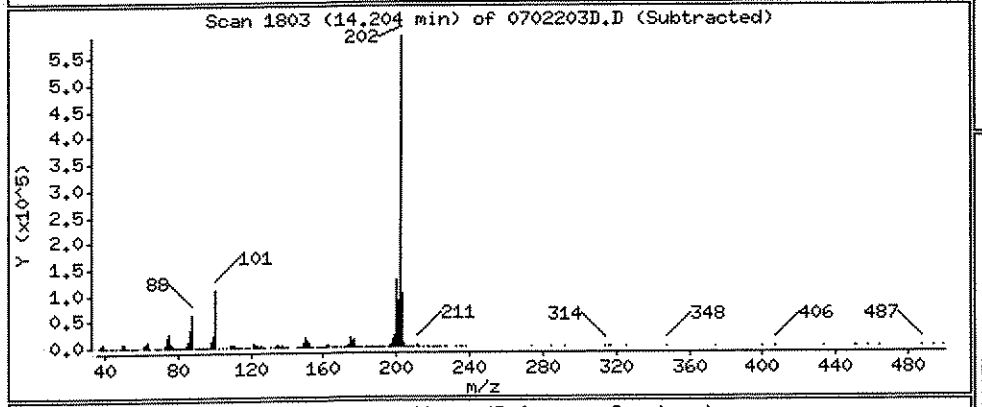
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

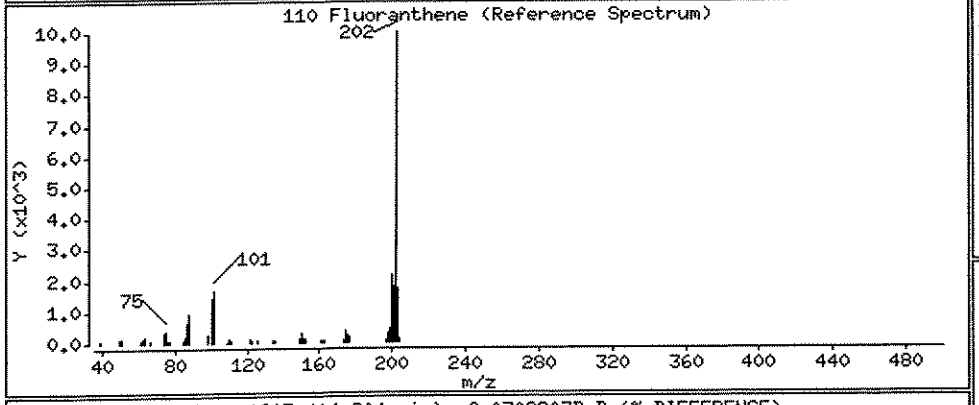
Volume Injected (uL): 0.5 Operator: SDB

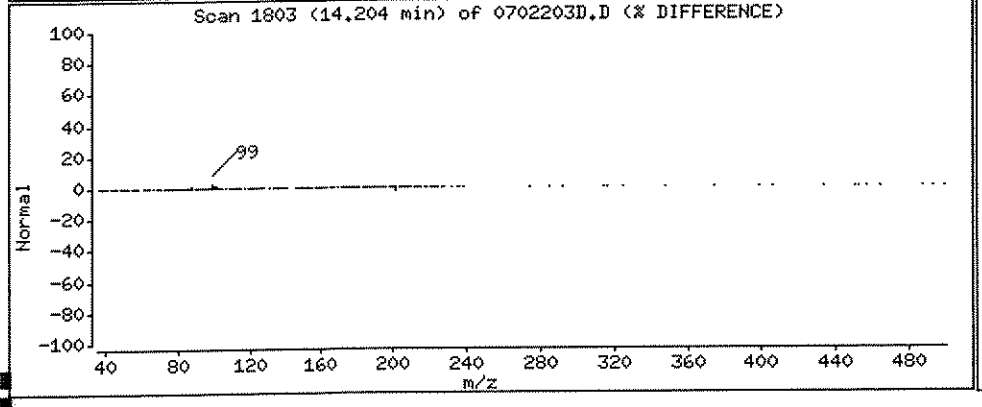
Column phase: fused silica Column diameter: 0.25

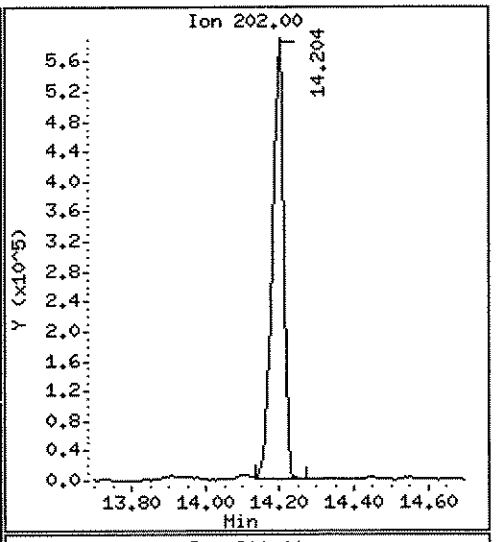
110 Fluoranthene Concentration: 5995 UG/KG

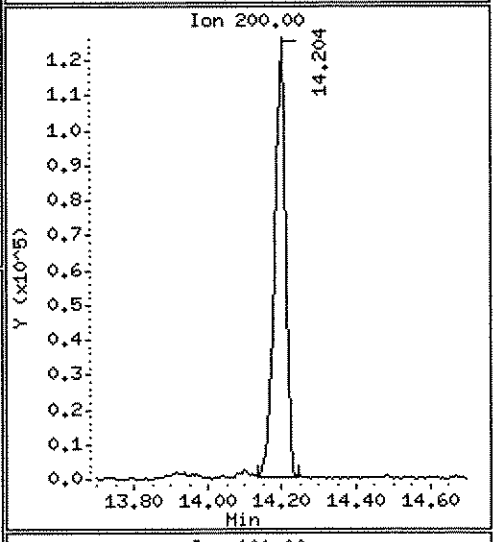


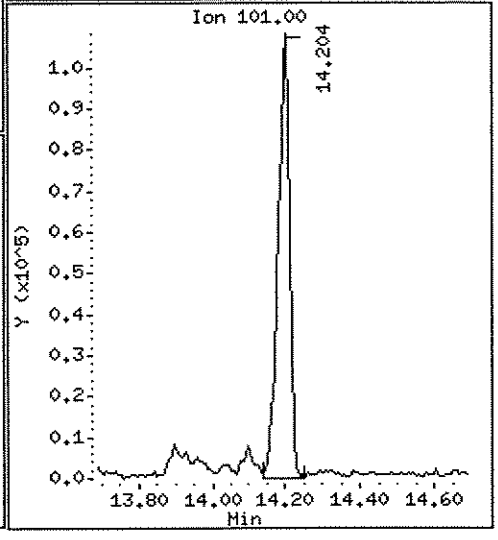












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

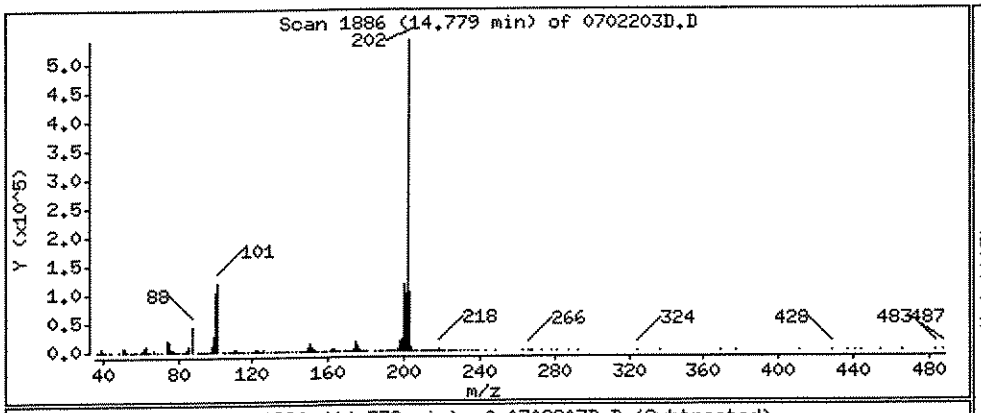
Client ID: 51CFH01S060706 Instrument: bna1.i

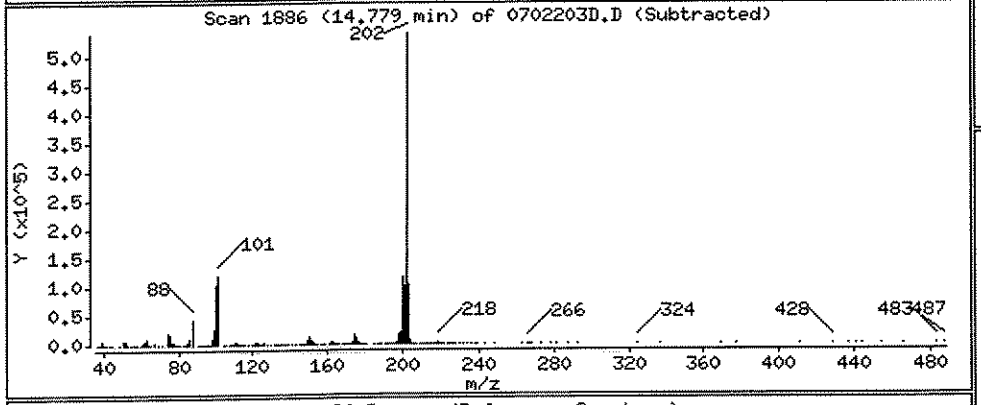
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

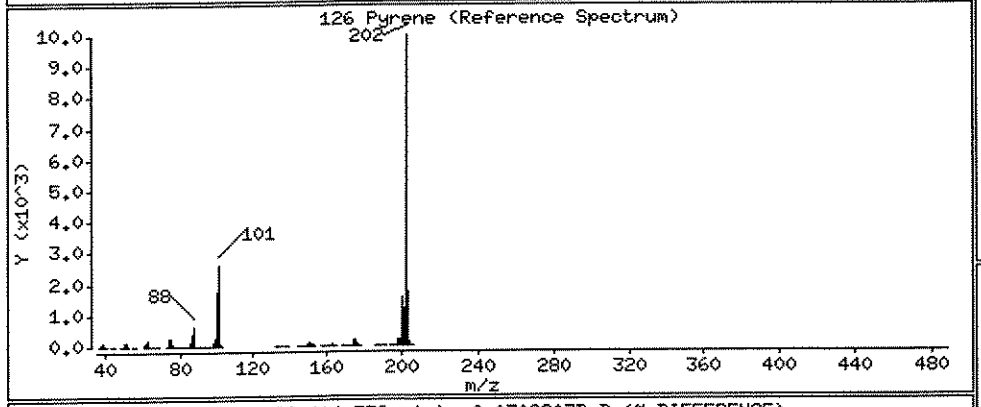
Volume Injected (uL): 0.5 Operator: SDB

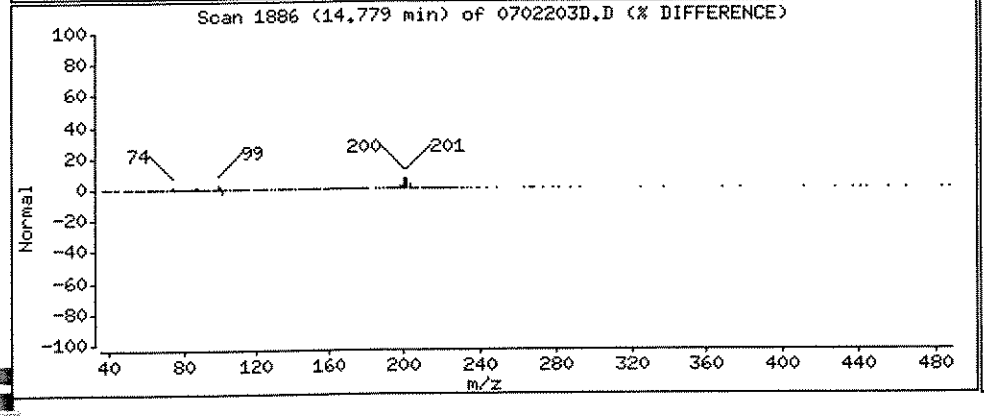
Column phase: fused silica Column diameter: 0.25

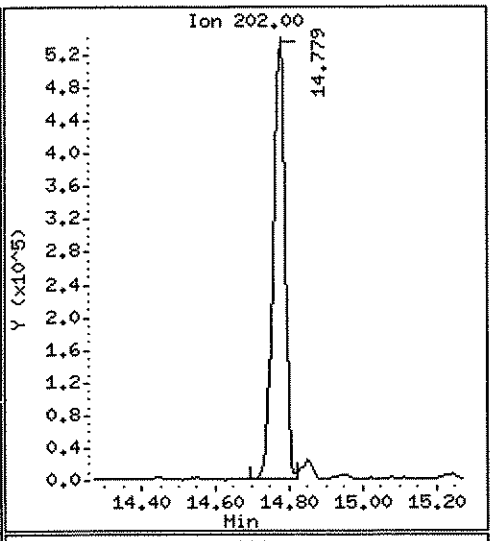
126 Pyrene Concentration: 5120 UG/KG

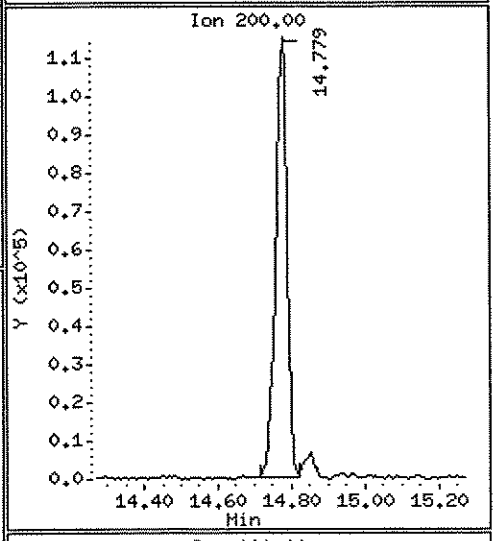


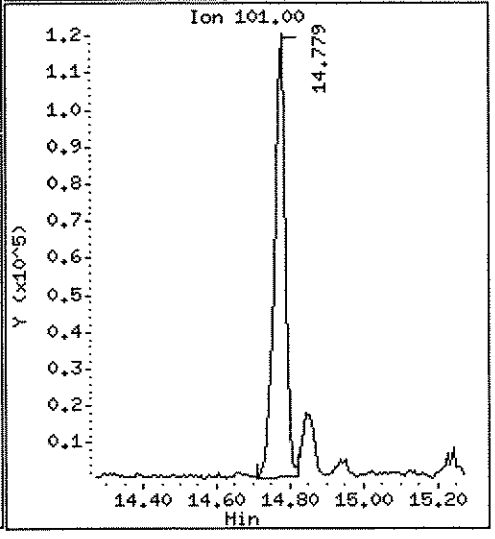












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

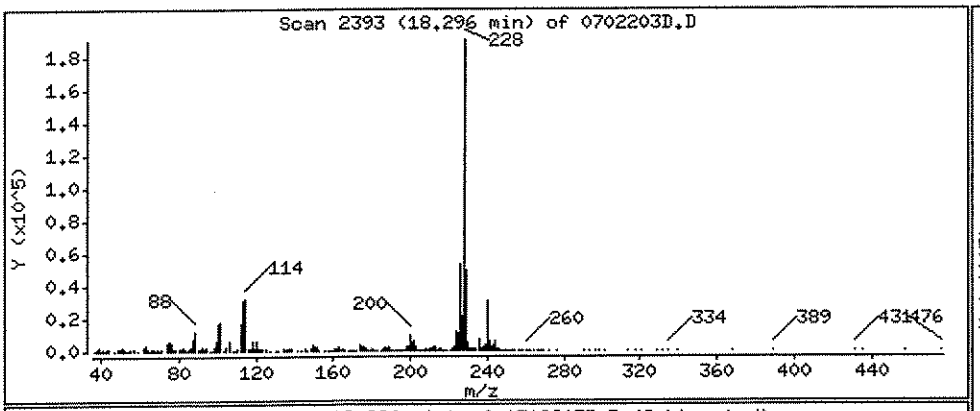
Client ID: 51CFM01S060706 Instrument: bna1.i

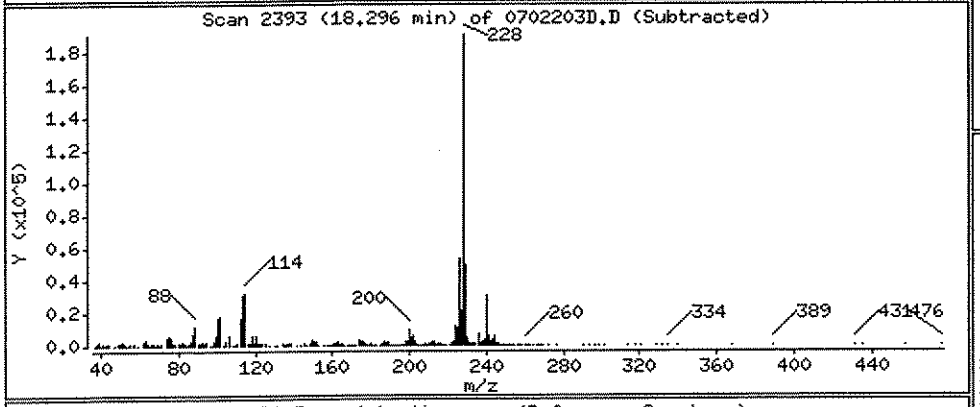
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

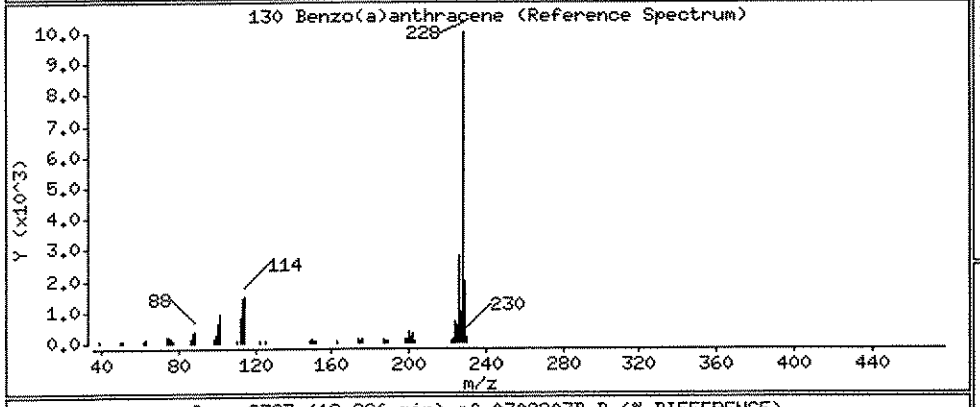
Volume Injected (uL): 0.5 Operator: SDB

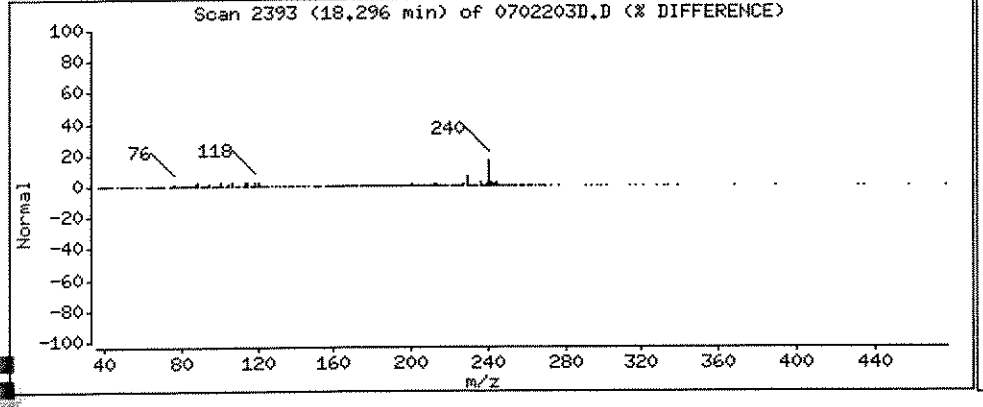
Column phase: fused silica Column diameter: 0.25

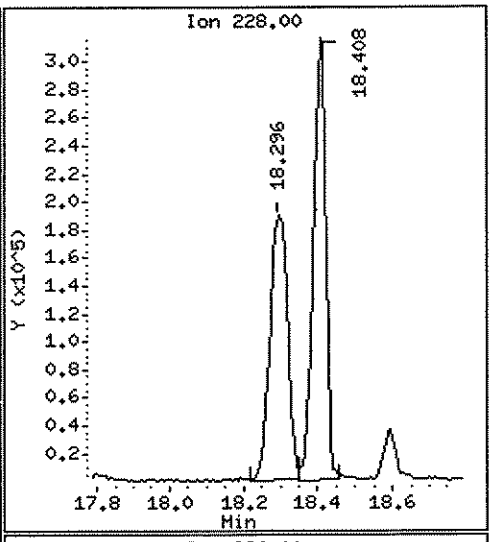
130 Benzo(a)anthracene Concentration: 3368 UG/KG

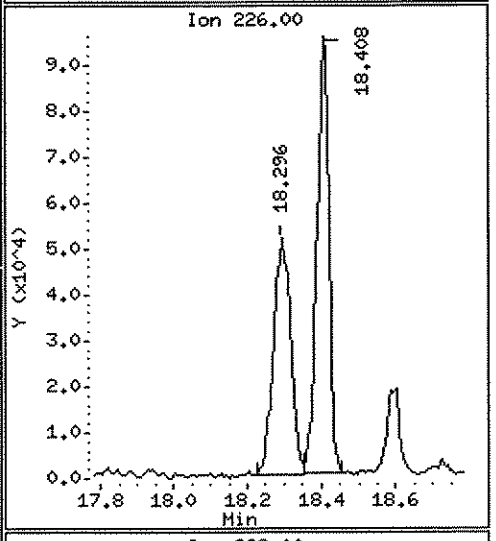


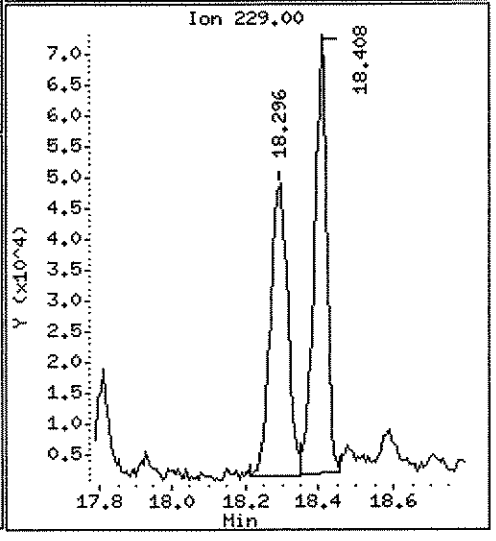












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

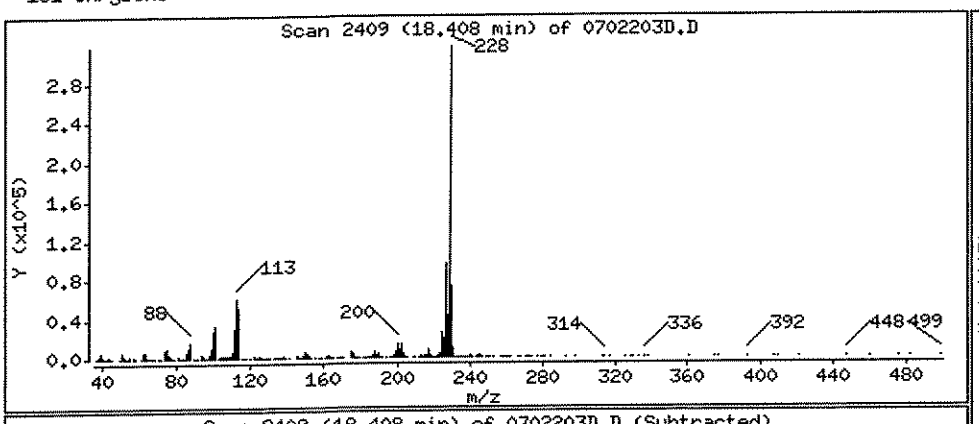
Operator: SDB

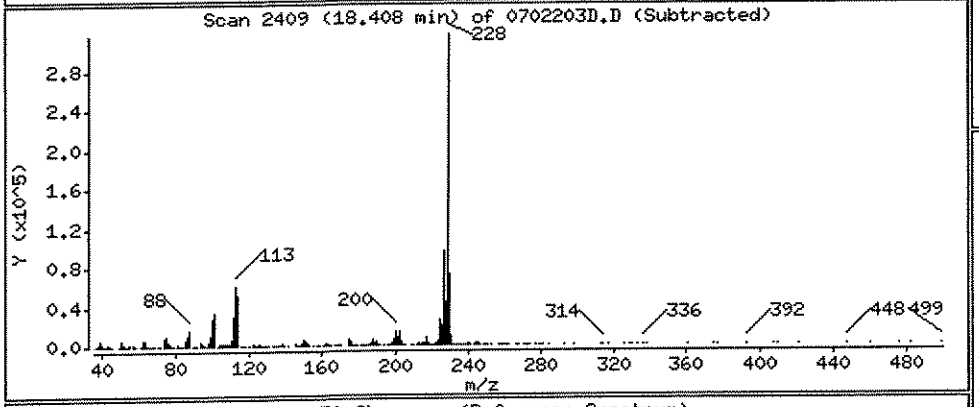
Column phase: fused silica

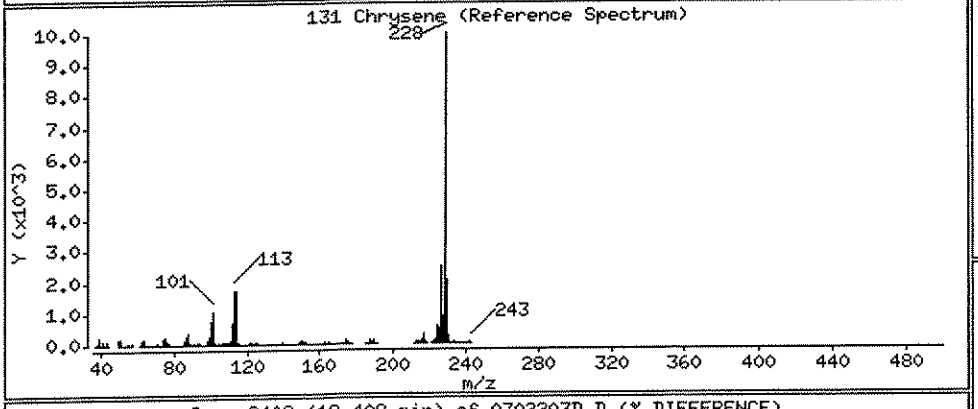
Column diameter: 0.25

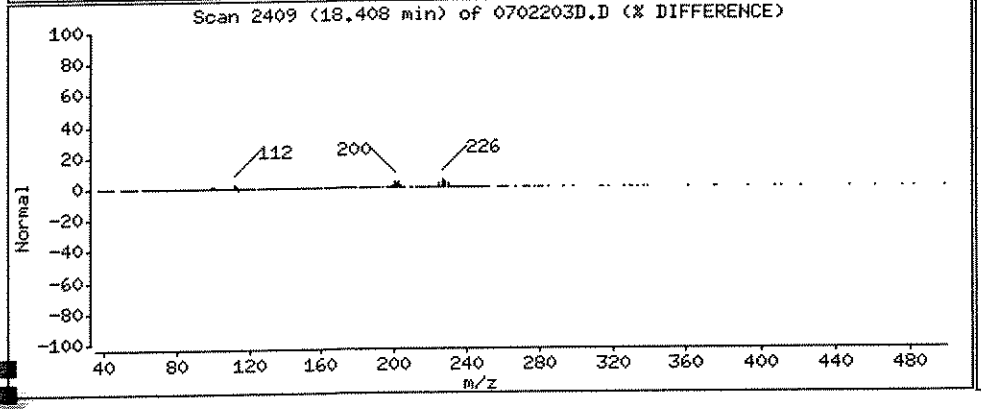
131 Chrysene

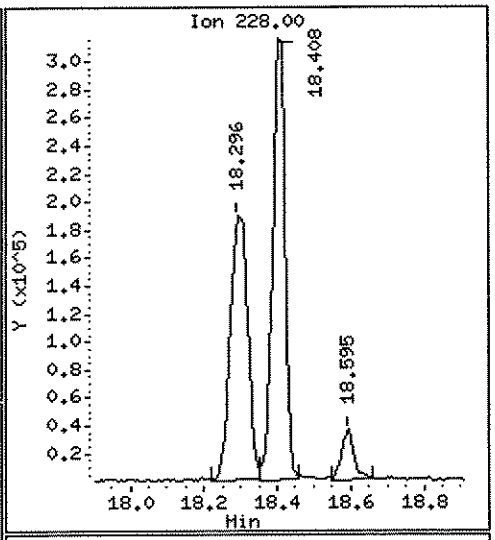
Concentration: 4344 UG/KG

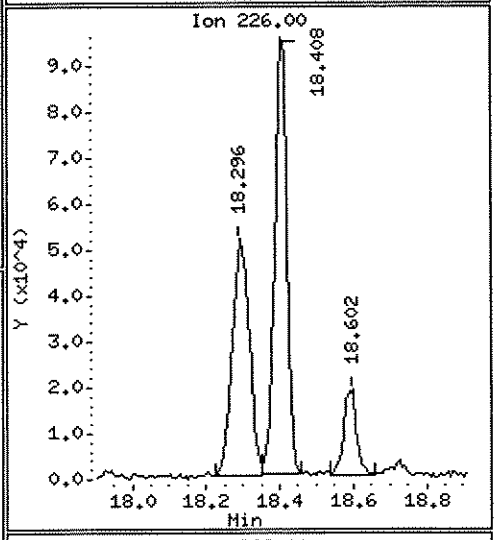


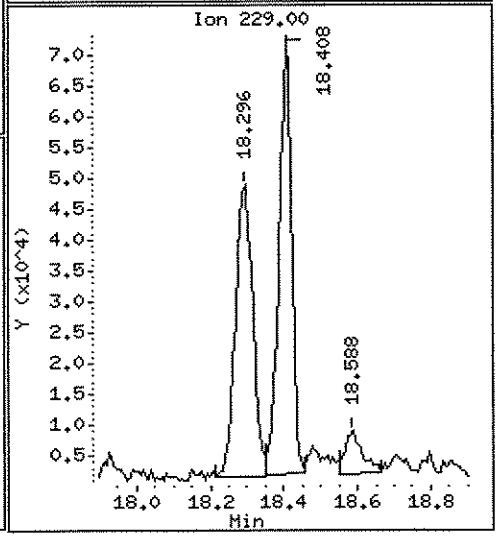












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

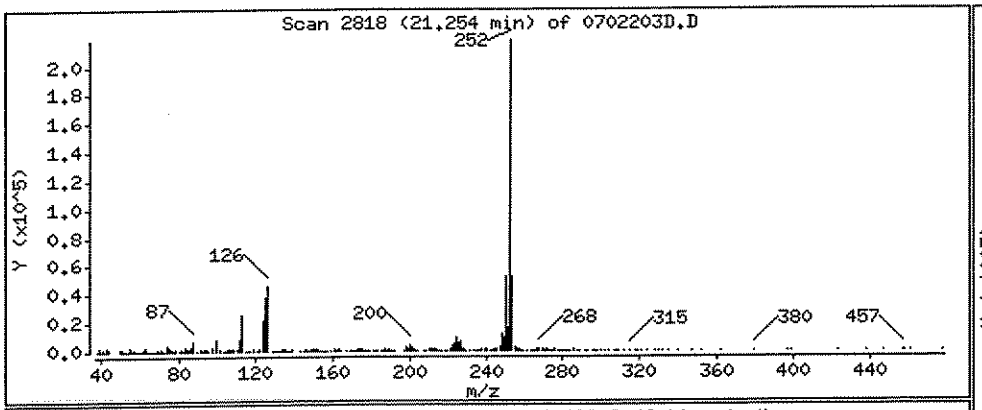
Client ID: 51CFM01S060706 Instrument: bna1.i

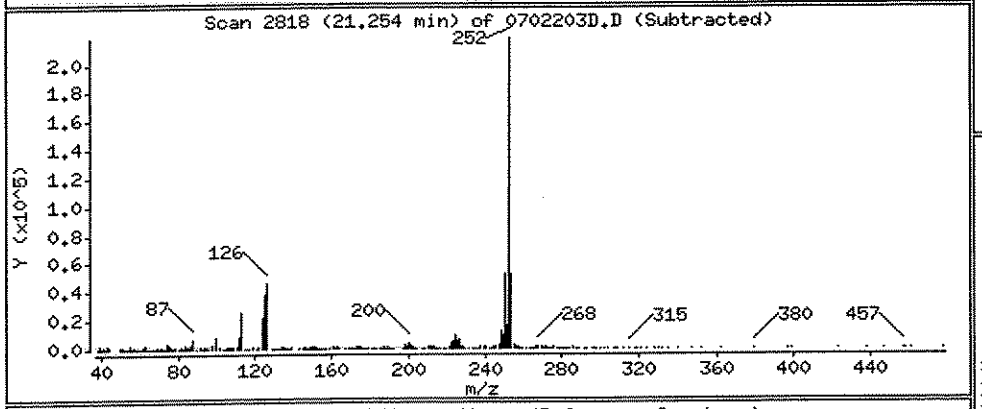
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

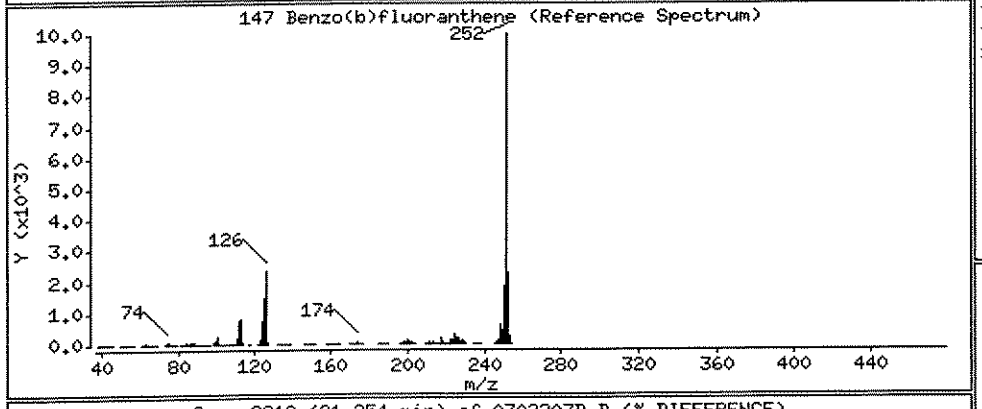
Volume Injected (uL): 0.5 Operator: SDB

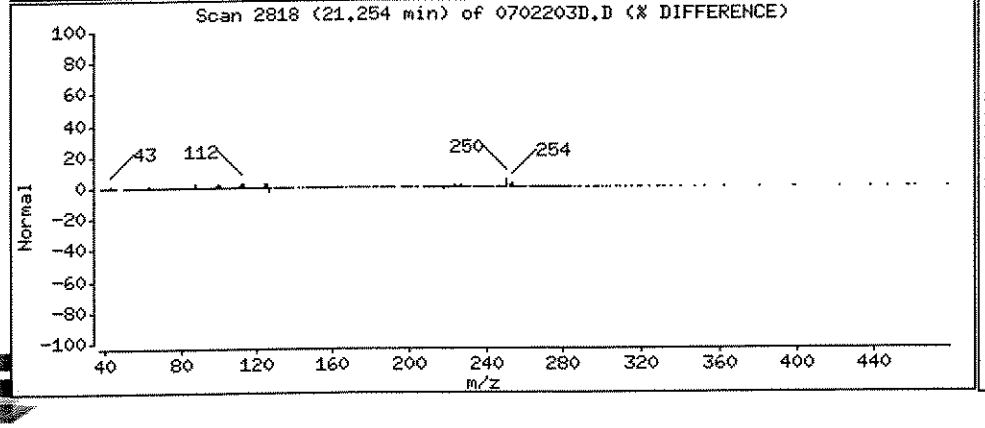
Column phase: fused silica Column diameter: 0.25

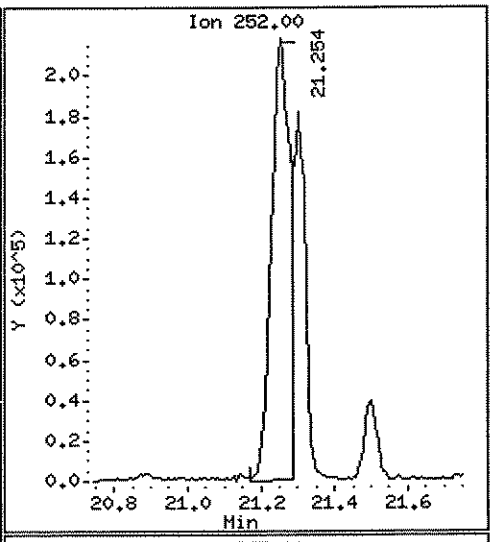
147 Benzo(b)fluoranthene Concentration: 4104 UG/KG

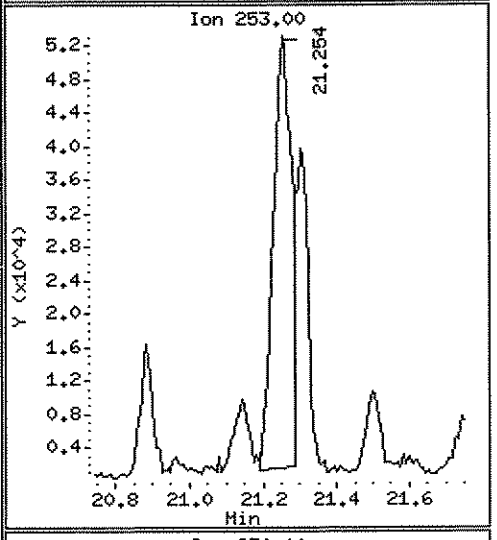


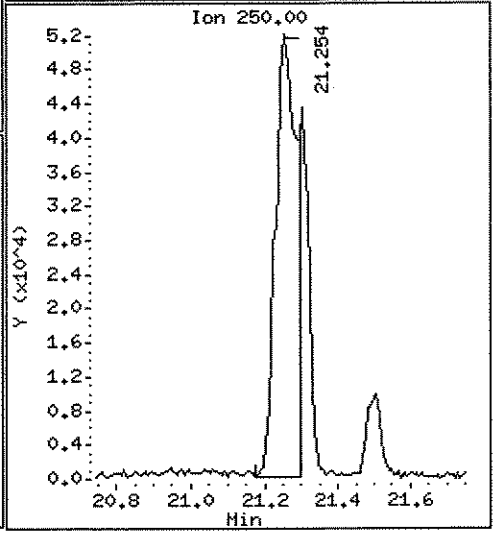












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

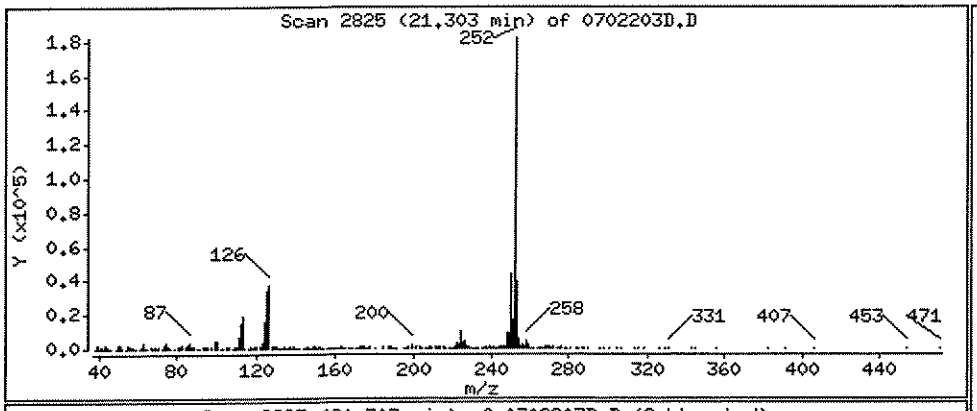
Client ID: 51CFM01S060706 Instrument: bna1.i

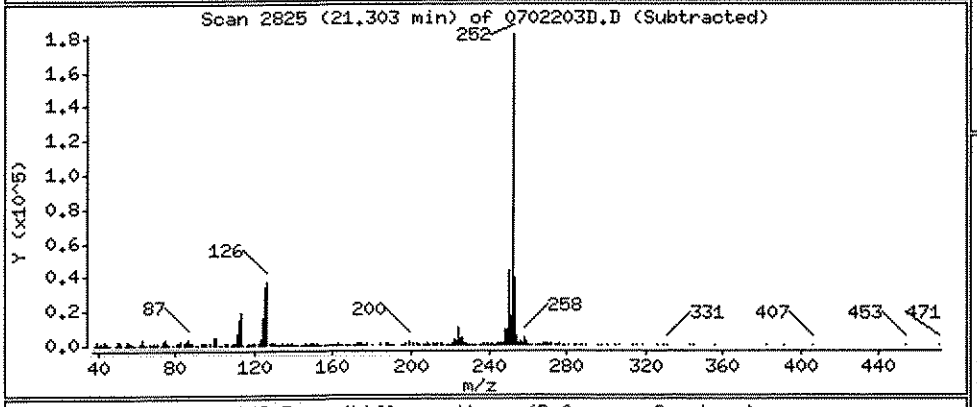
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

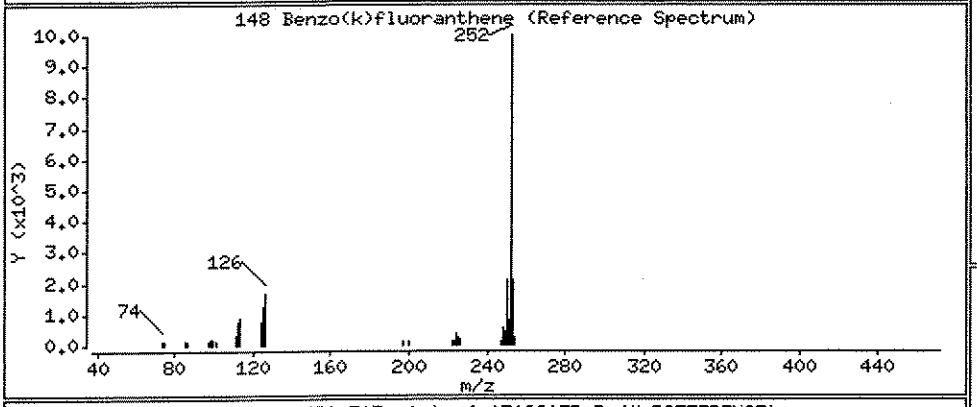
Volume Injected (uL): 0.5 Operator: SDB

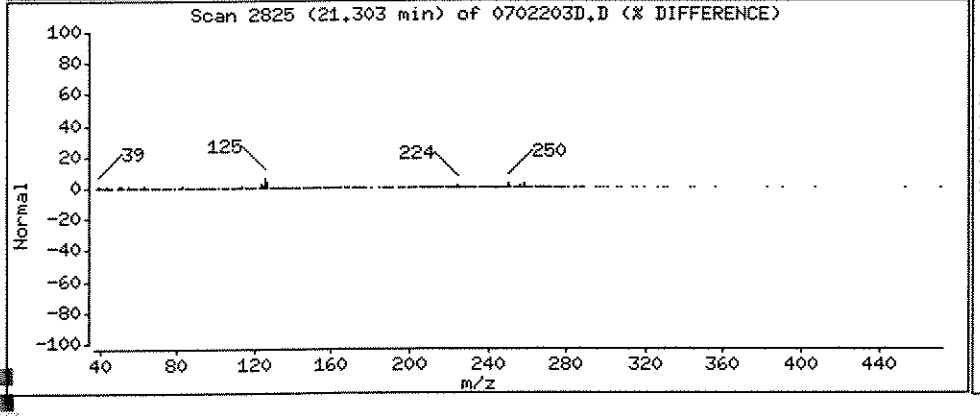
Column phase: fused silica Column diameter: 0.25

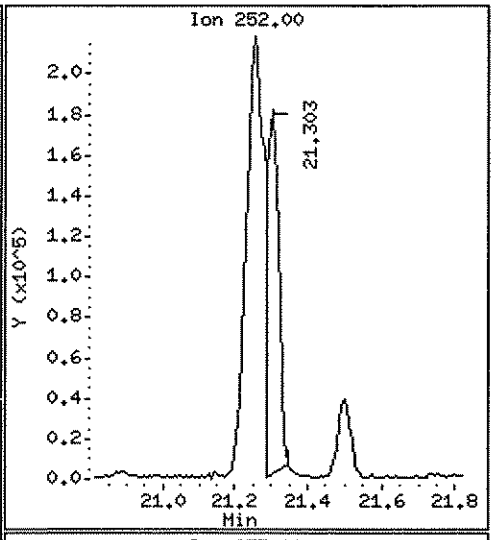
148 Benzo(k)fluoranthene Concentration: 2008 UG/KG

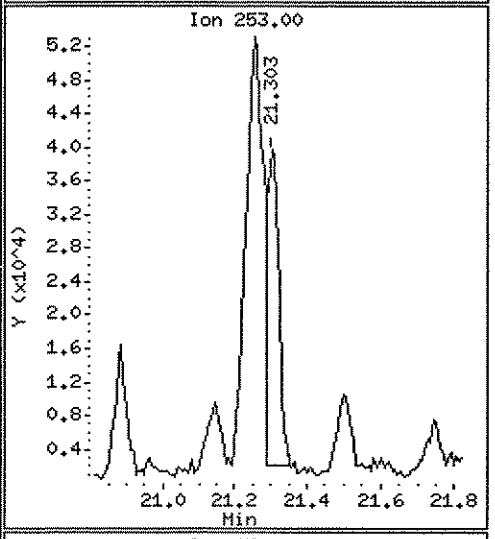


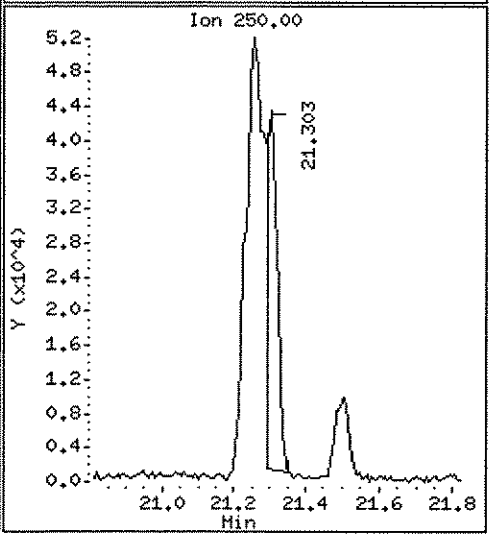












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

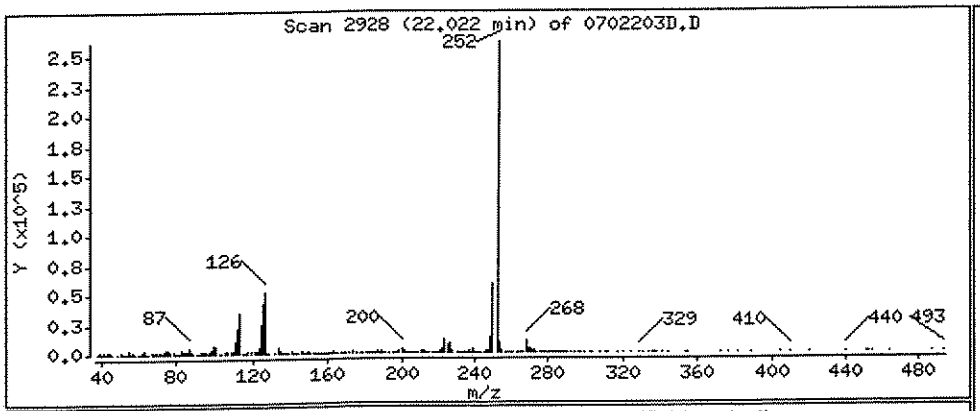
Operator: SDB

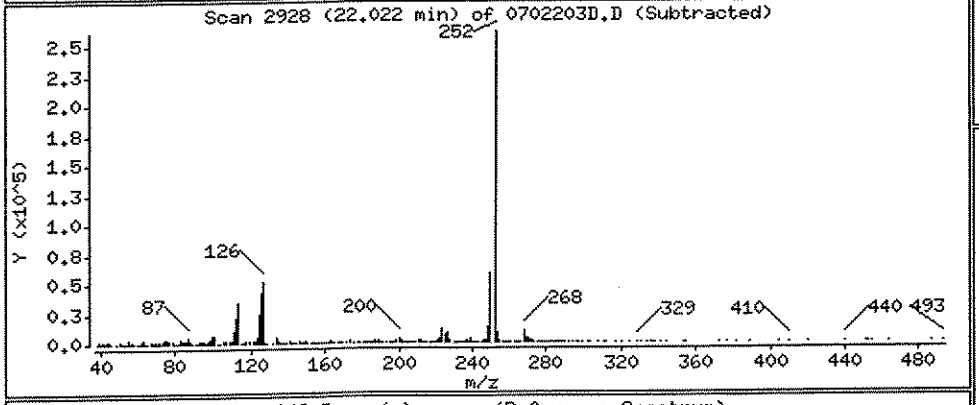
Column phase: fused silica

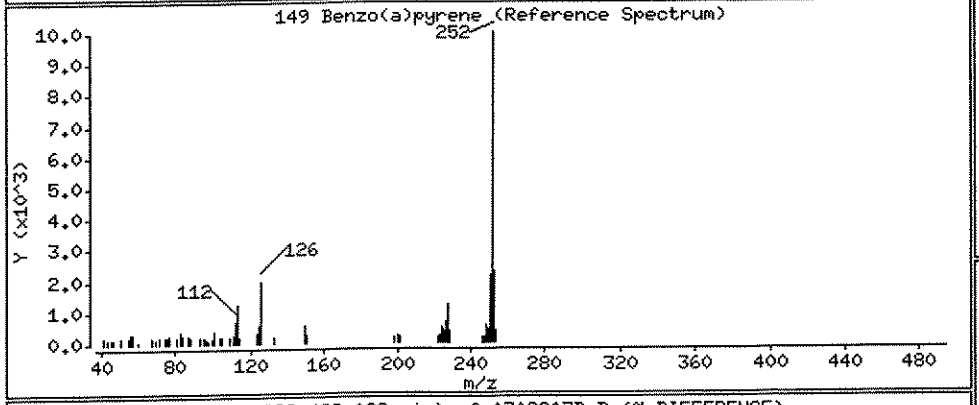
Column diameter: 0.25

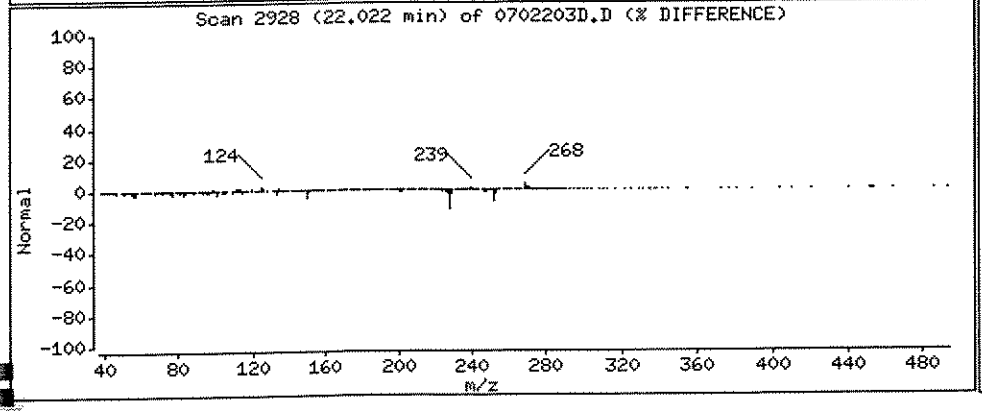
149 Benzo(a)pyrene

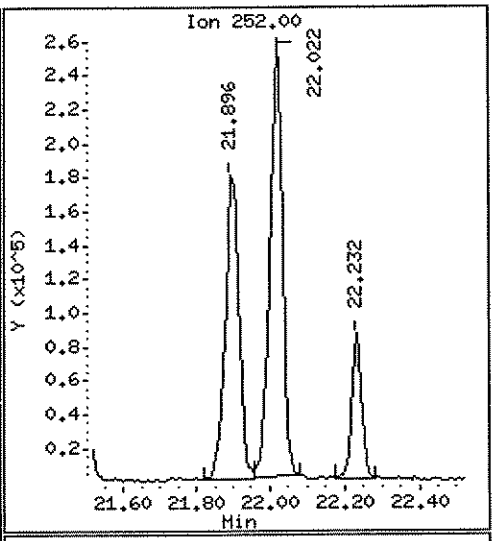
Concentration: 3687 UG/KG

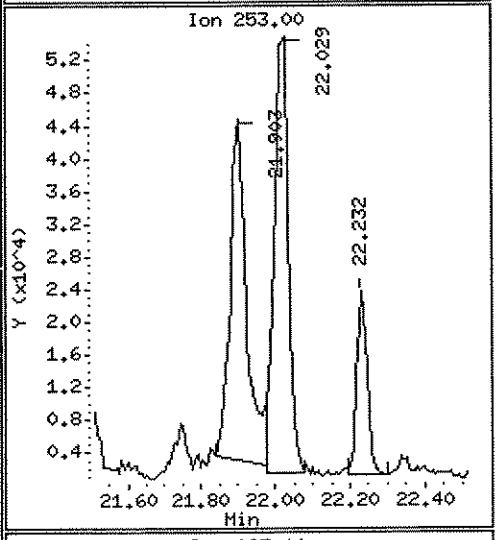


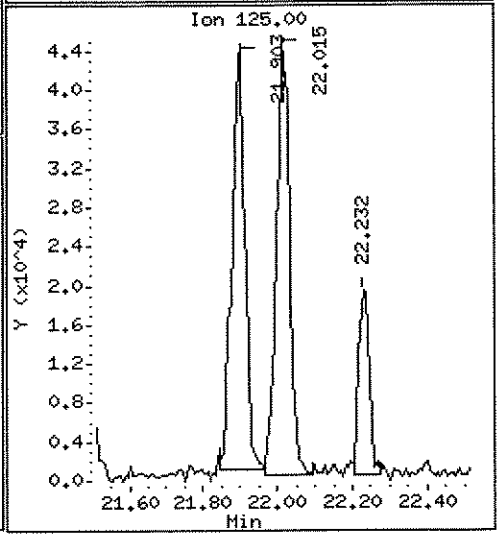












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

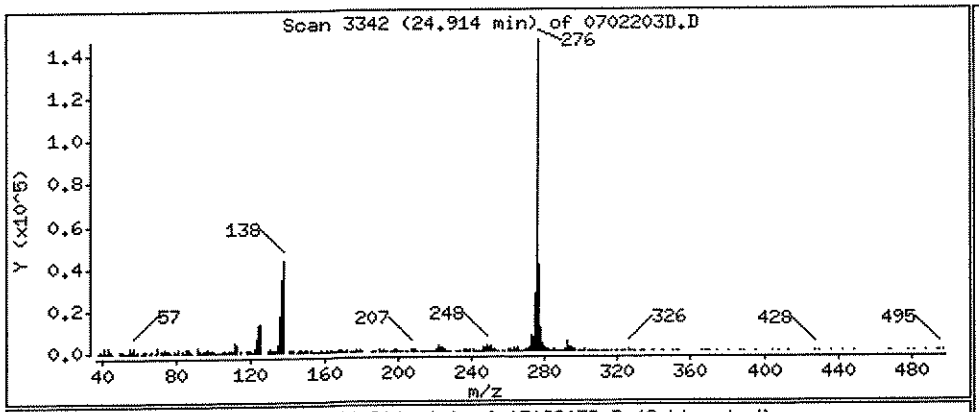
Client ID: 51CFM01S060706 Instrument: bna1.i

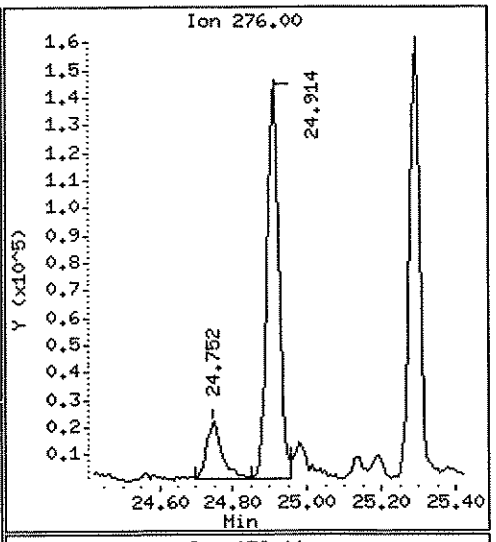
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

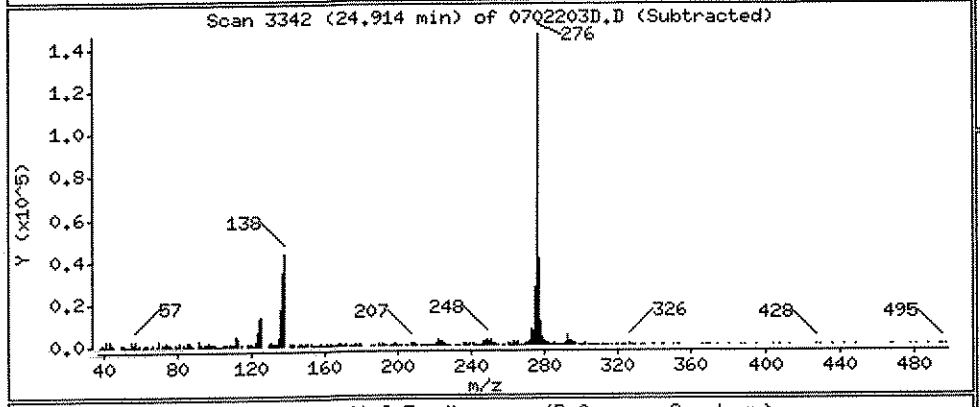
Volume Injected (uL): 0.5 Operator: SDB

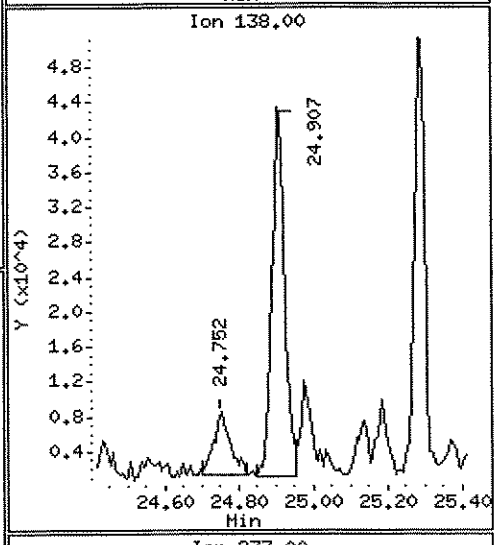
Column phase: fused silica Column diameter: 0.25

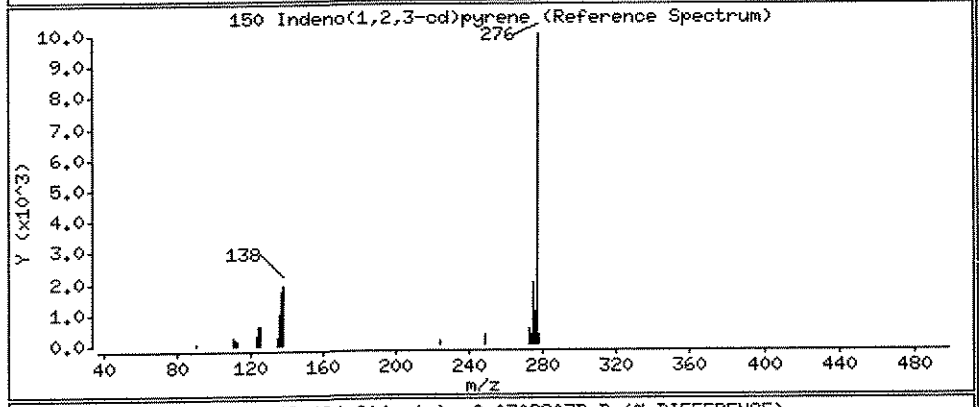
150 Indeno(1,2,3-cd)pyrene Concentration: 2304 UG/KG

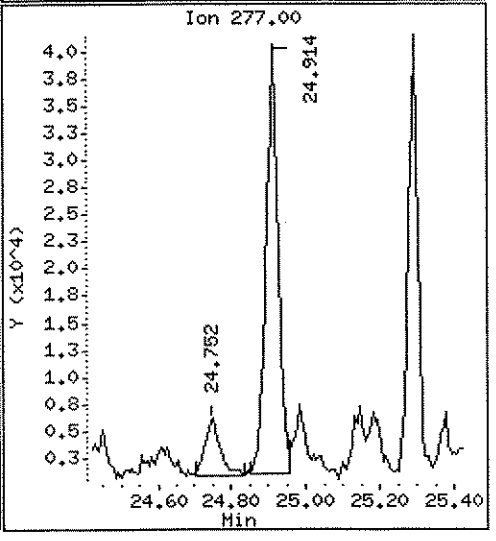


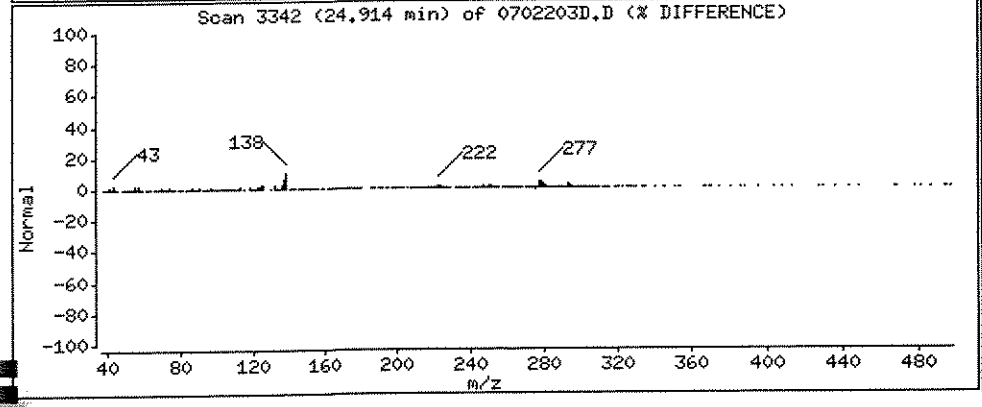












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

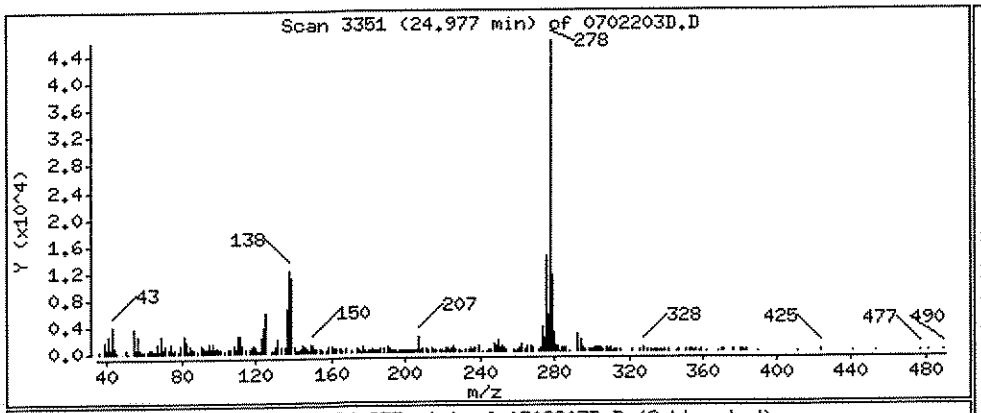
Client ID: 51CFM01S060706 Instrument: bna1.i

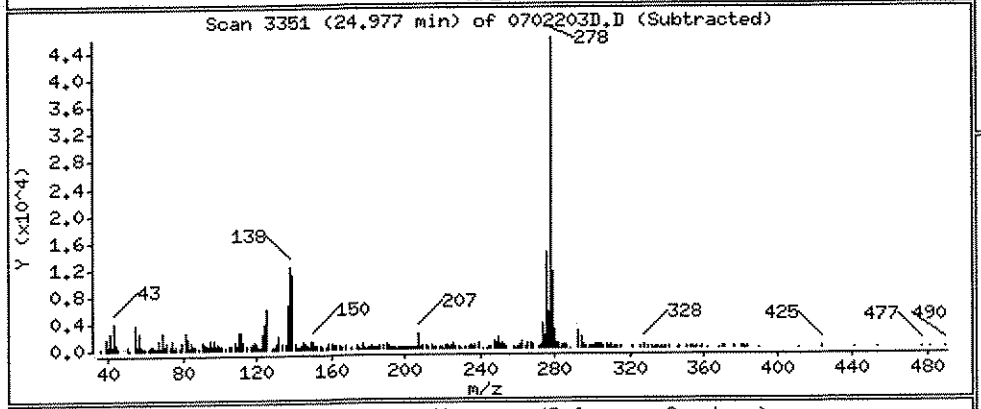
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

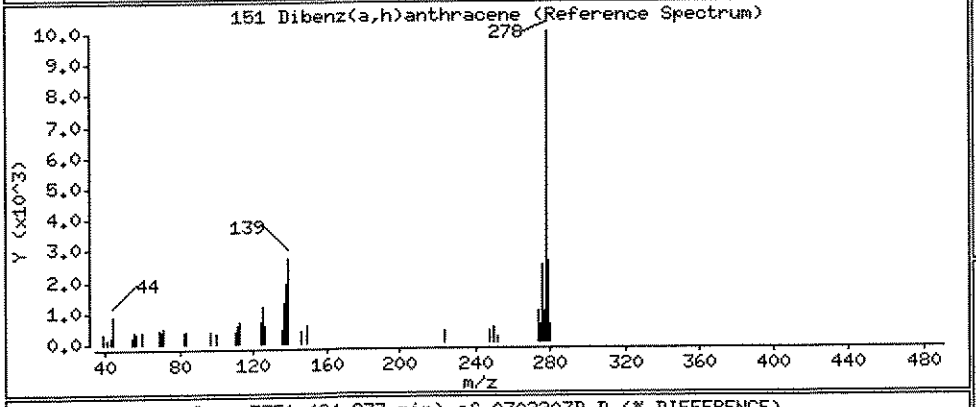
Volume Injected (uL): 0.5 Operator: SDB

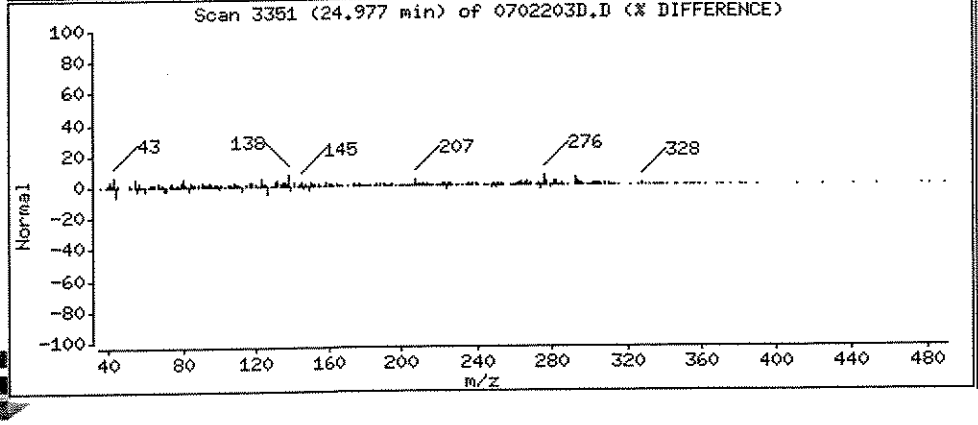
Column phase: fused silica Column diameter: 0.25

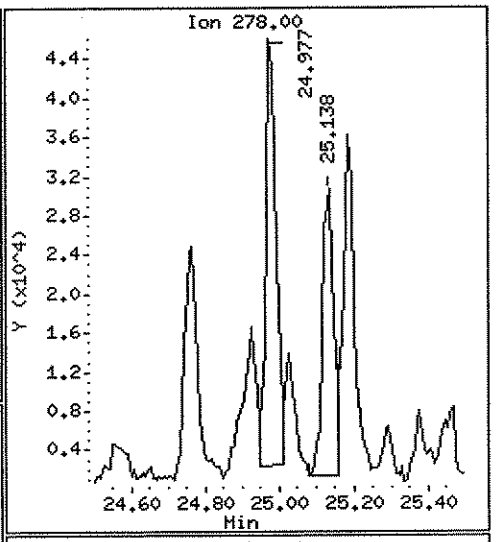
151 Dibenz(a,h)anthracene Concentration: 617.4 UG/KG

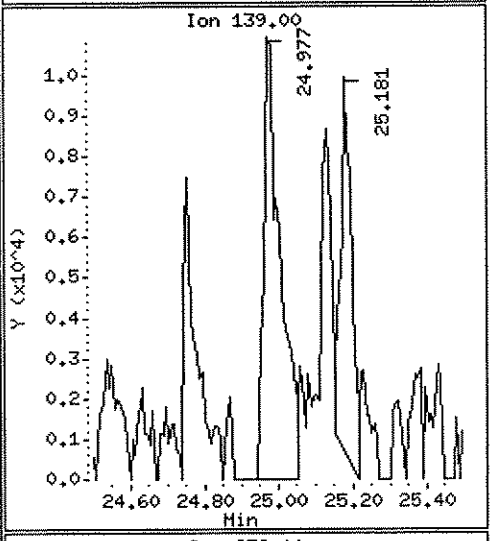


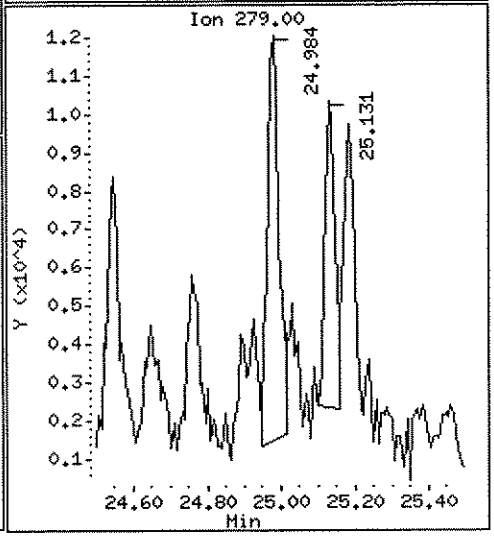












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

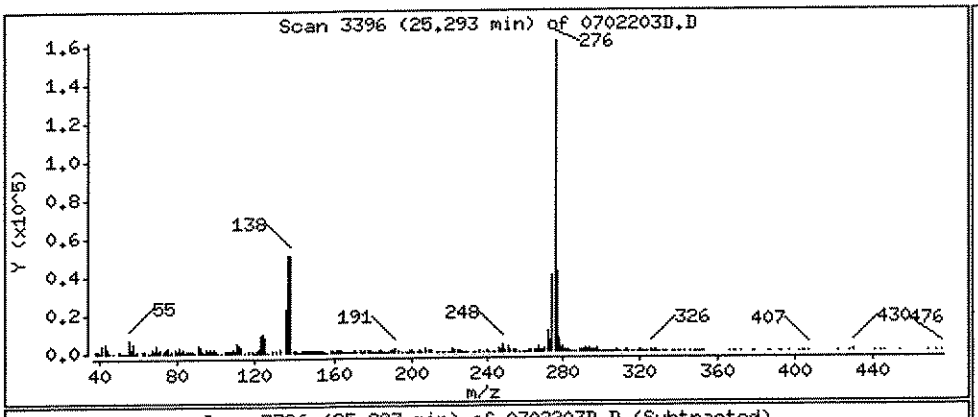
Operator: SDB

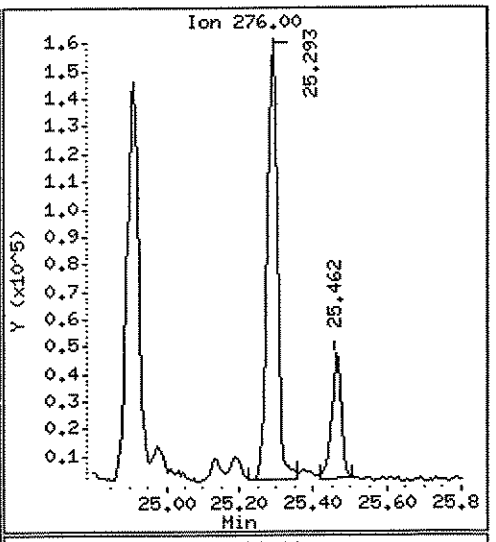
Column phase: fused silica

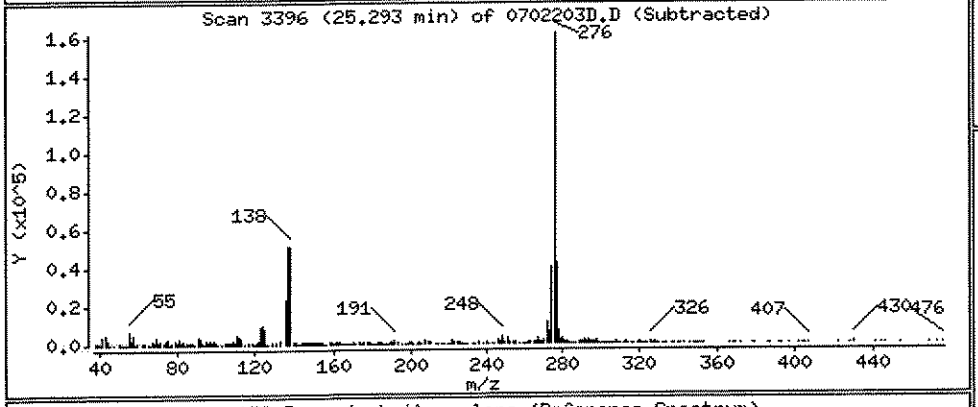
Column diameter: 0.25

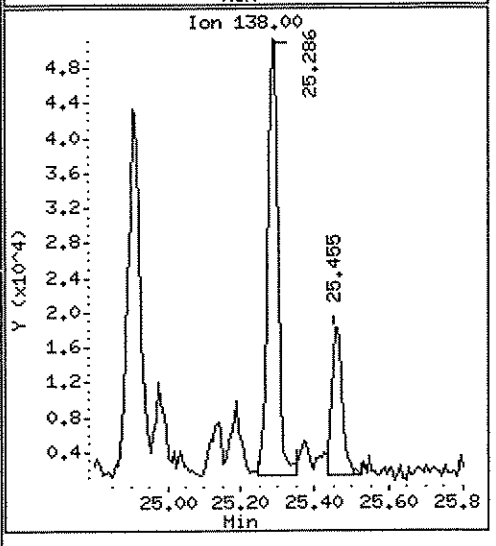
152 Benzo(g,h,i)perylene

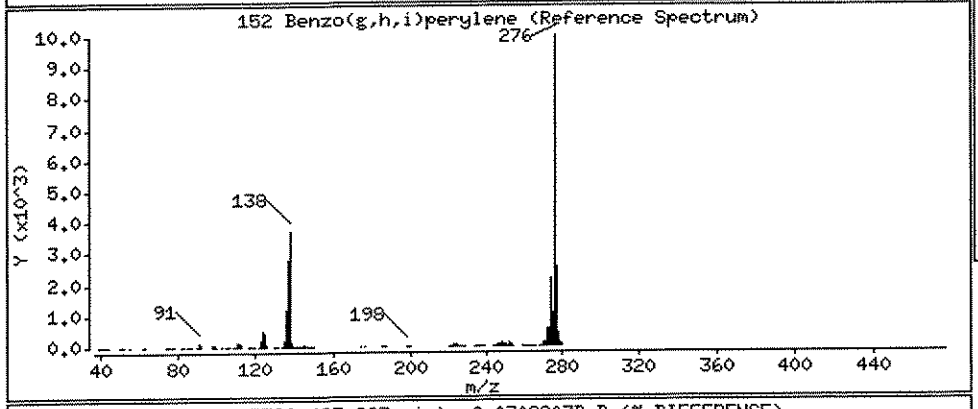
Concentration: 2183 UG/KG

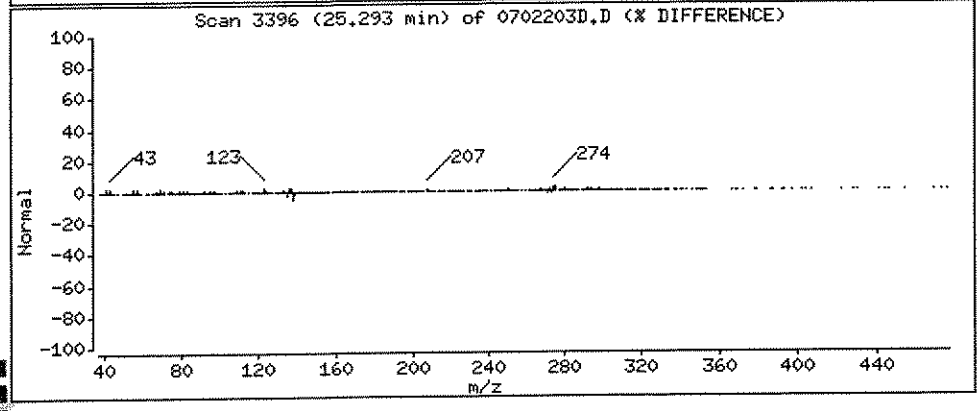












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 15:42

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	68	J
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	150	J
56-55-3	Benzo(a)anthracene	21	170	890	
205-99-2	Benzo(b)fluoranthene	21	170	1800	
207-08-9	Benzo(k)fluoranthene	21	170	870	
191-24-2	Benzo(g,h,i)perylene	21	170	610	
50-32-8	Benzo(a)pyrene	21	100	1500	
218-01-9	Chrysene	21	170	1300	
53-70-3	Dibenz(a,h)anthracene	21	100	160	
206-44-0	Fluoranthene	21	170	1600	
86-73-7	Fluorene	21	170	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	740	
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	1000	
129-00-0	Pyrene	21	170	2000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Lab Smp Id: 0607022-04 Client Smp ID: 51CFM02S060706
Inj Date : 10-JUL-2006 15:42
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.000	Percent Solids

7/11/06

7/11/6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.273	4.276	(1.000)	362980	40.0000	
* 31 Naphthalene-d8	136	5.276	5.287	(1.000)	1244309	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.892)	926604	68.2169	2344
* 65 Acenaphthene-d10	164	7.707	7.719	(1.000)	563237	40.0000	
$ 70 2-Fluorobiphenyl	172	6.608	6.617	(0.857)	1199495	66.9213	2300
76 Acenaphthene	153	7.763	7.781	(1.007)	32389	1.99252	68.47(a)
84 Fluorene	166	8.797	8.814	(1.141)	41892	2.40954	82.80(a)
* 97 Phenanthrene-d10	188	11.007	11.020	(1.000)	711652	40.0000	
106 Phenanthrene	178	11.062	11.082	(1.005)	588668	29.0117	997.0
107 Anthracene	178	11.165	11.192	(1.014)	88370	4.41137	151.6(a)
110 Fluoranthene	202	14.290	14.296	(1.298)	928183	46.2044	1588
* 124 Chrysene-d12	240	18.426	18.441	(1.000)	374962	40.0000	
126 Pyrene	202	14.872	14.878	(0.807)	869720	58.0794	1996

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Report Date: 11-Jul-2006 13:57

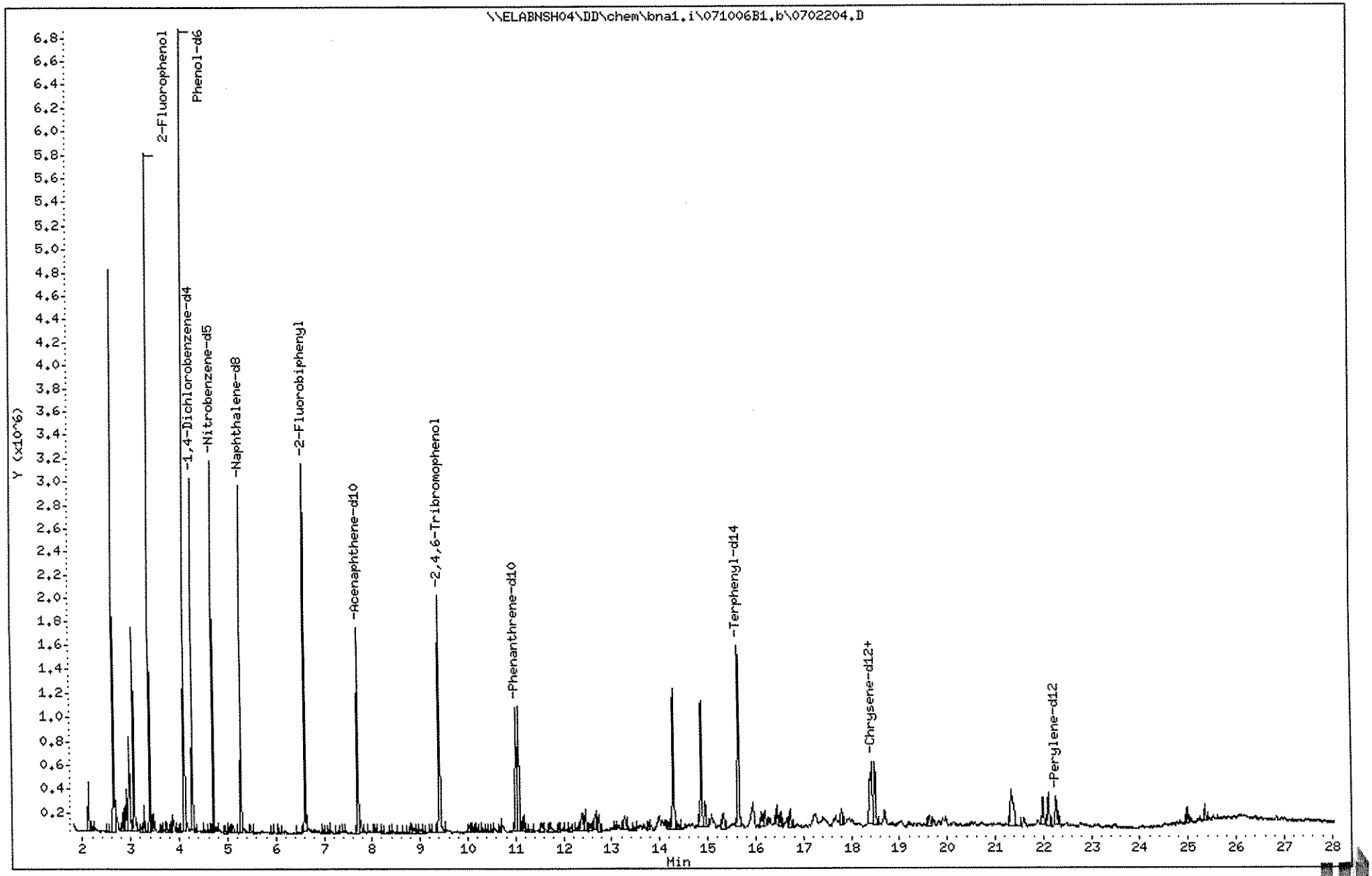
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.649	15.647	(0.849)	965427	101.964	3504(A)
130 Benzo(a)anthracene	228	18.384	18.400	(0.998)	314159	26.0037	893.6
131 Chrysene	228	18.496	18.510	(1.004)	408440	37.0149	1272
* 145 Perylene-d12	264	22.263	22.273	(1.000)	195060	40.0000	
147 Benzo(b)fluoranthene	252	21.339	21.352	(0.959)	316722	52.7106	1811(M)
148 Benzo(k)fluoranthene	252	21.388	21.421	(0.961)	158604	25.4416	874.3(M)
149 Benzo(a)pyrene	252	22.103	22.121	(0.993)	229976	44.3856	1525
150 Indeno(1,2,3-cd)pyrene	276	24.980	24.990	(1.122)	95064	21.5047	739.0
151 Dibenz(a,h)anthracene	278	25.050	25.065	(1.125)	21409	4.81065	165.3(a)
152 Benzo(g,h,i)perylene	276	25.351	25.361	(1.139)	81523	17.7708	610.7

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Date : 10-JUL-2006 15:42
Client ID: 51CFM02S060706
Instrument: bna1.i
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000074



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

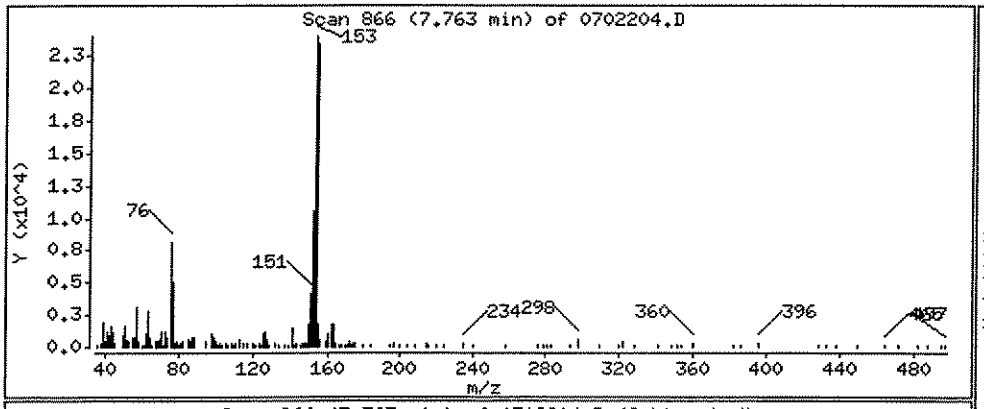
Client ID: 51CFM02S060706 Instrument: bna1.i

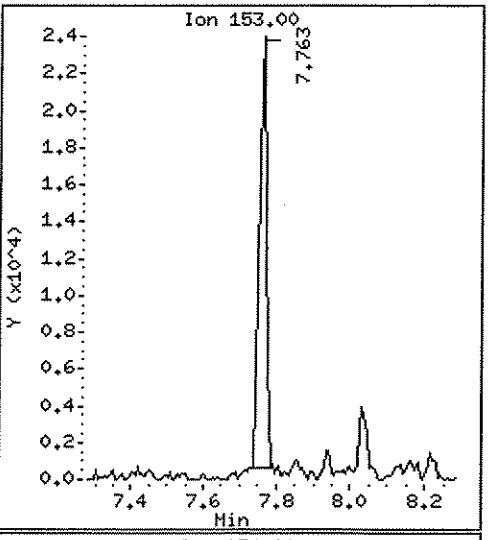
Sample Info: 0607022-04:15.0:500:1:UG/KG:10-JUL-2006

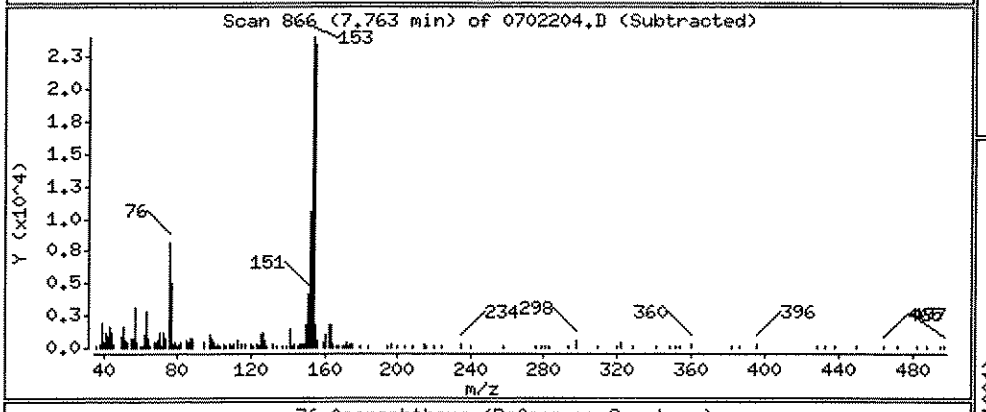
Volume Injected (uL): 0.5 Operator: SDB

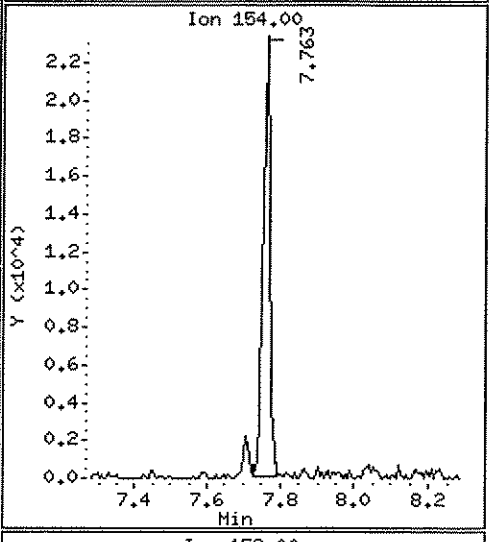
Column phase: fused silica Column diameter: 0.25

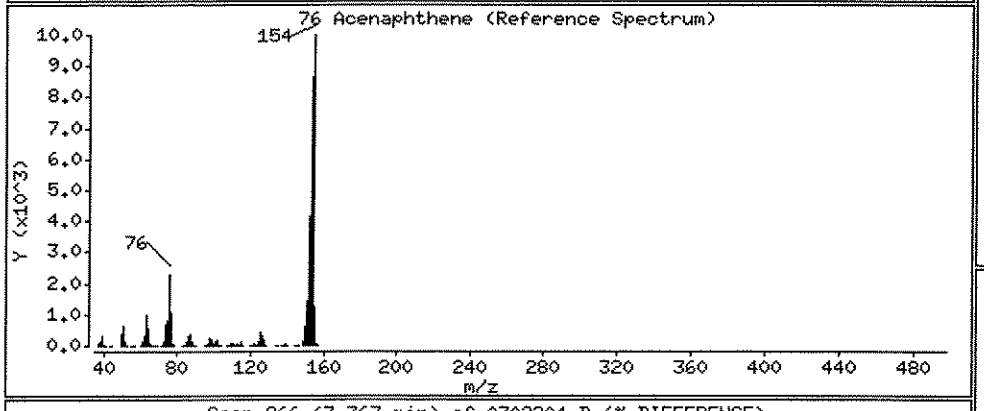
76 Acenaphthene Concentration: 68.47 UG/KG

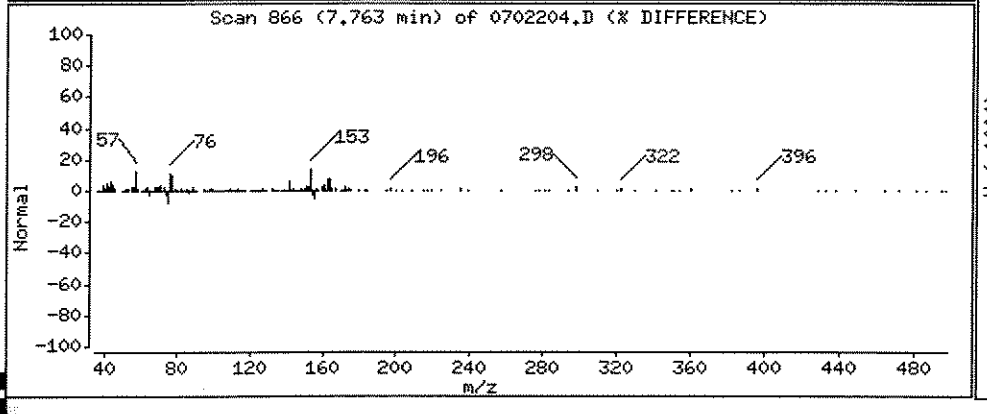


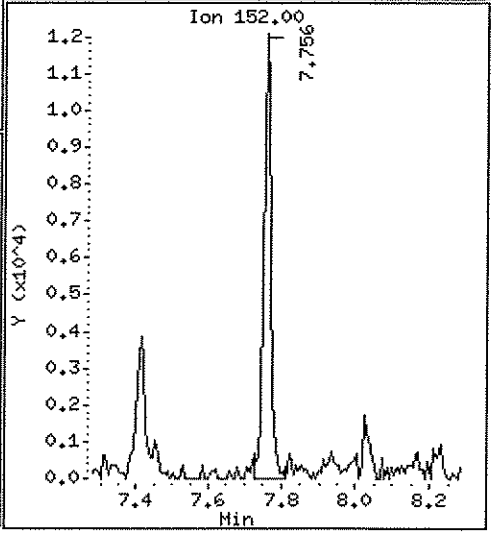












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

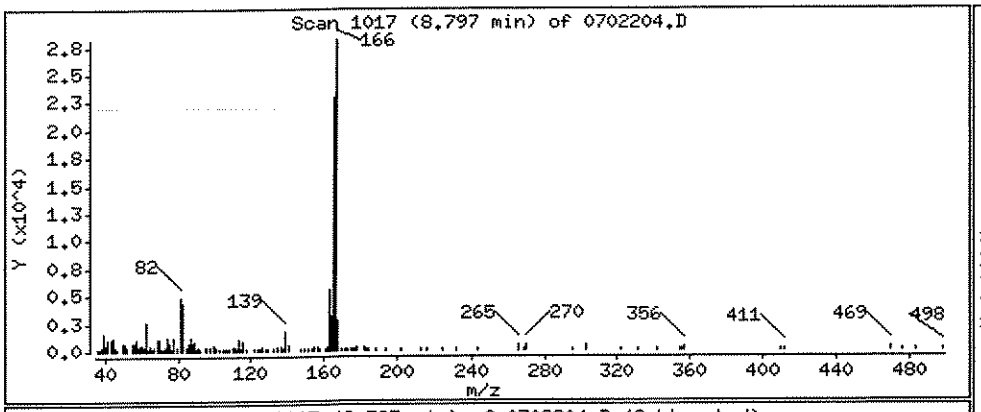
Client ID: 51CFM02S060706 Instrument: bna1.i

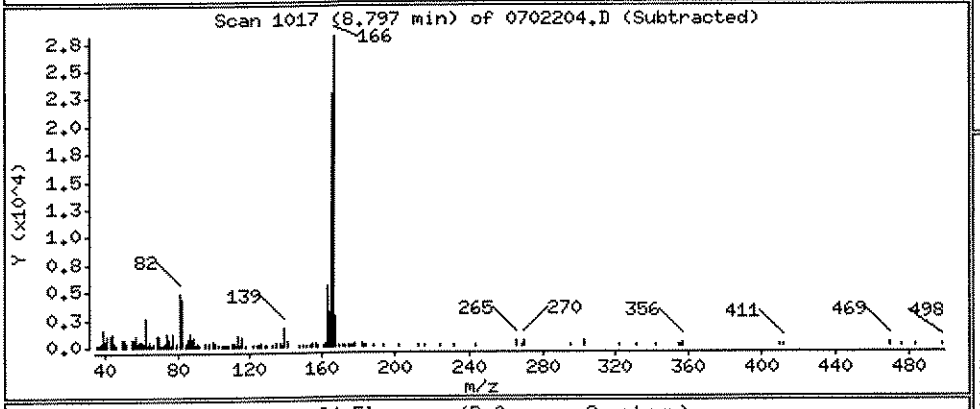
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

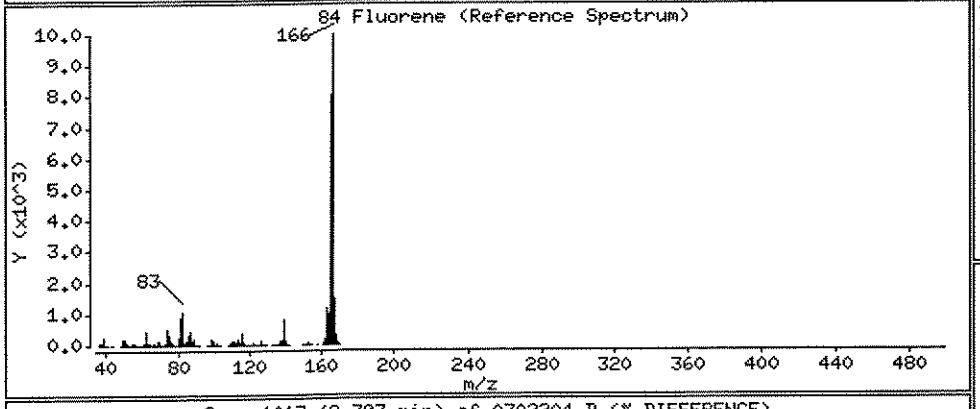
Volume Injected (uL): 0.5 Operator: SDB

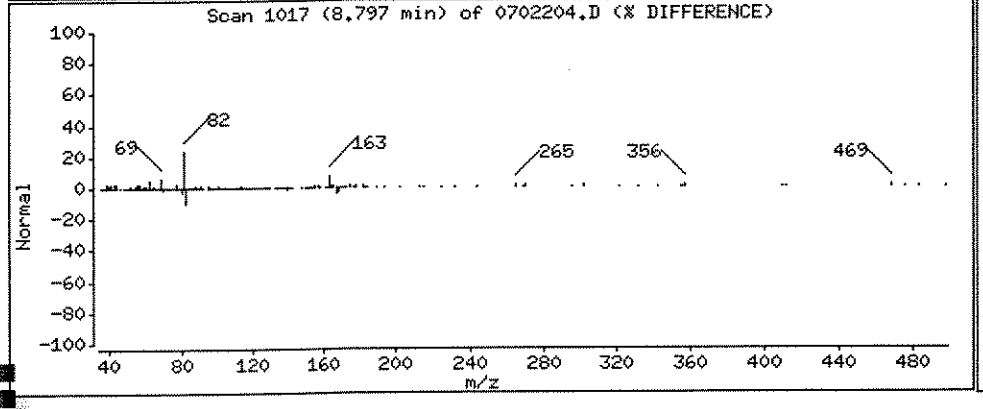
Column phase: fused silica Column diameter: 0.25

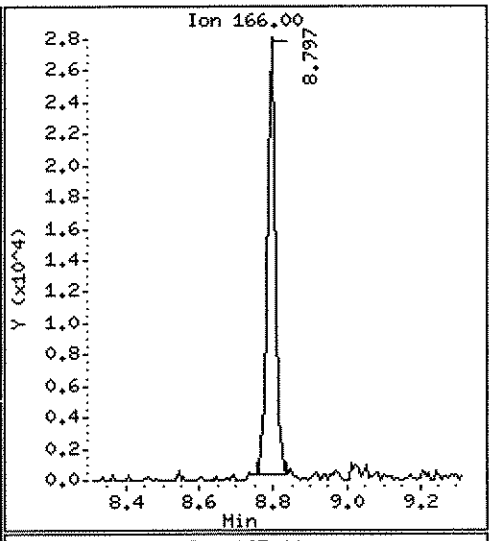
84 Fluorene Concentration: 82.80 UG/KG

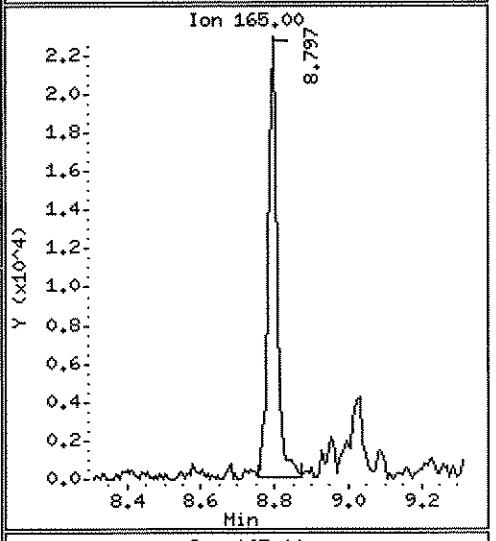


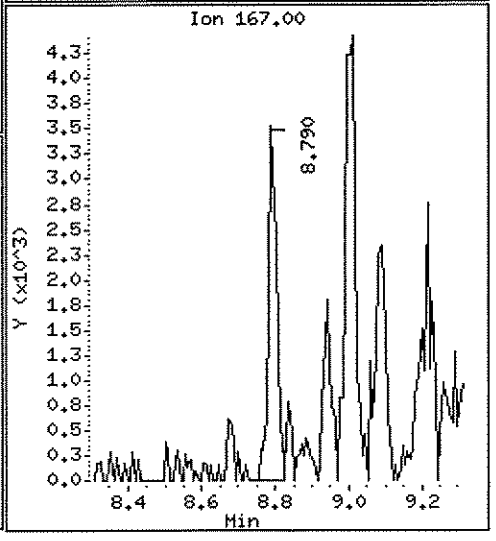












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

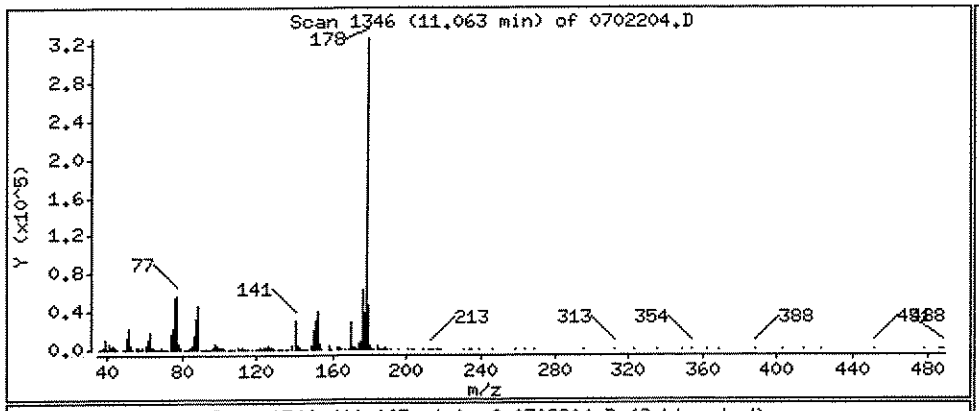
Client ID: 51CFM02S060706 Instrument: bna1.i

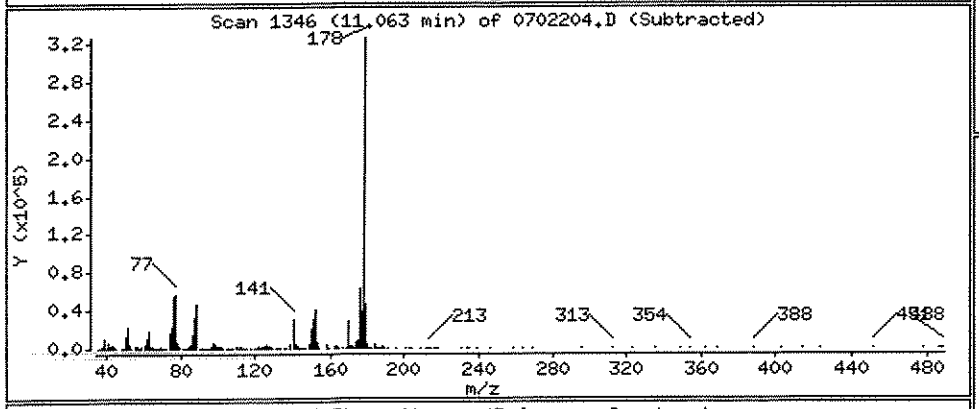
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

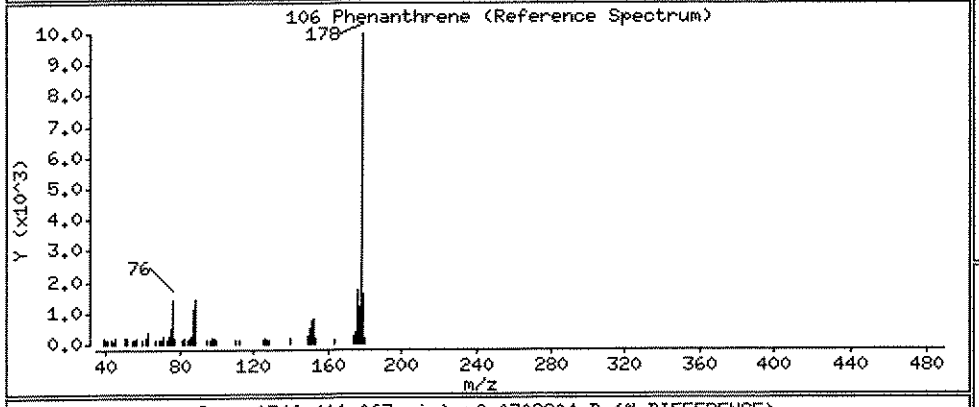
Volume Injected (uL): 0.5 Operator: SDB

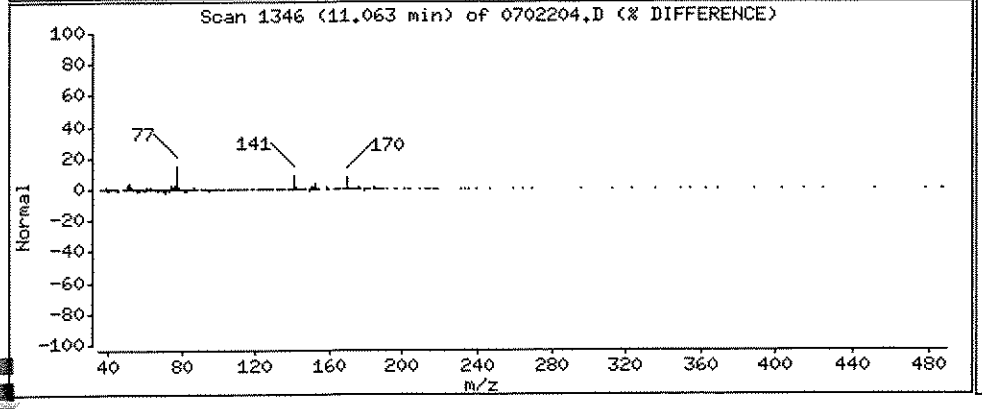
Column phase: fused silica Column diameter: 0.25

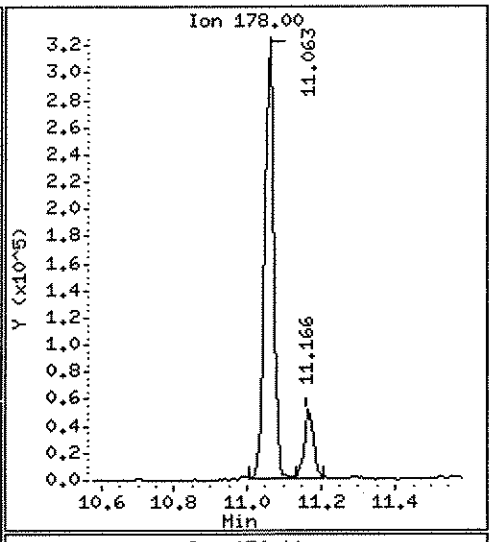
106 Phenanthrene Concentration: 997.0 UG/KG

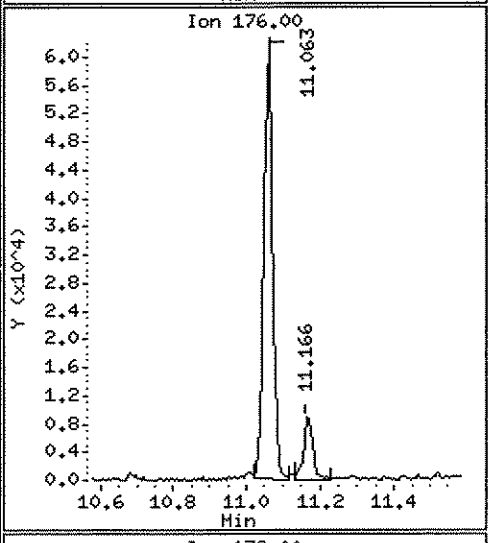


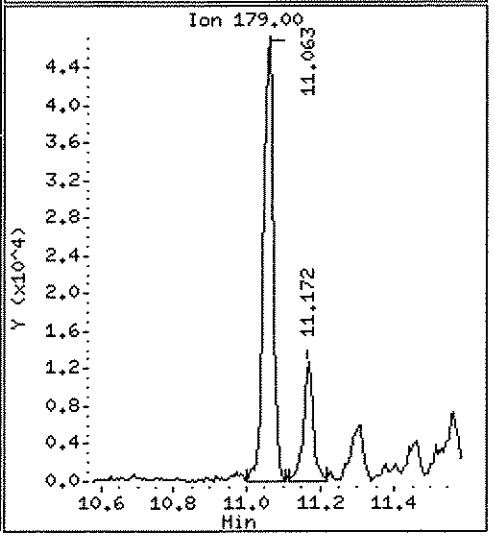












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

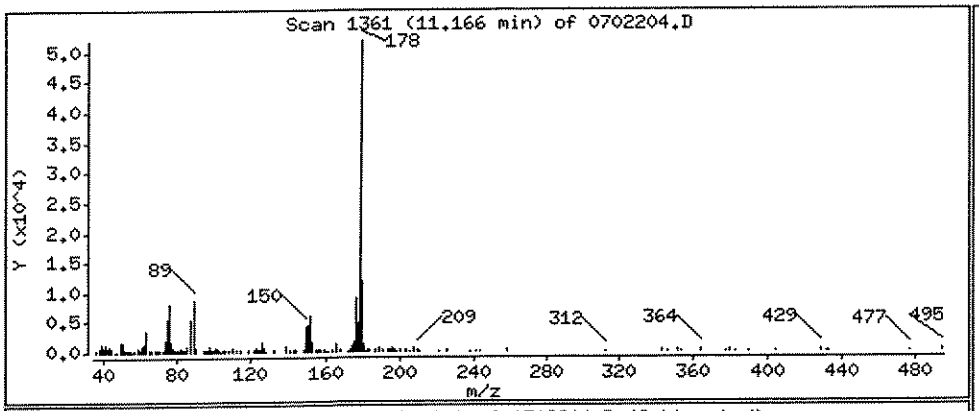
Client ID: 51CFM02S060706 Instrument: bna1.i

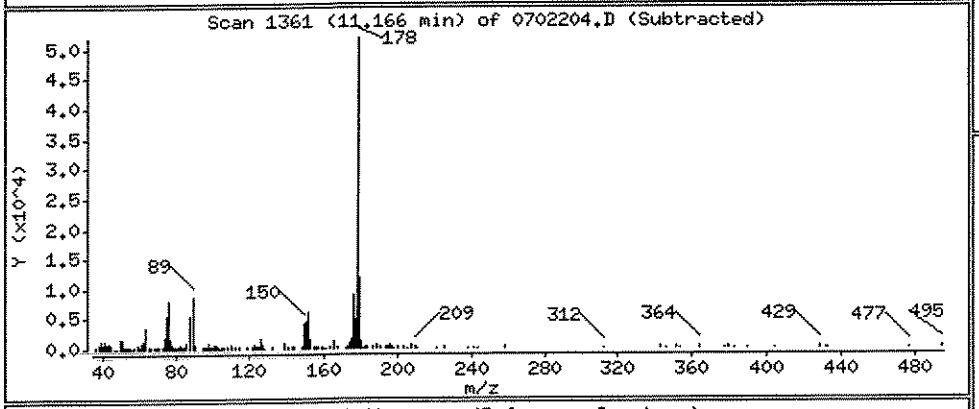
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

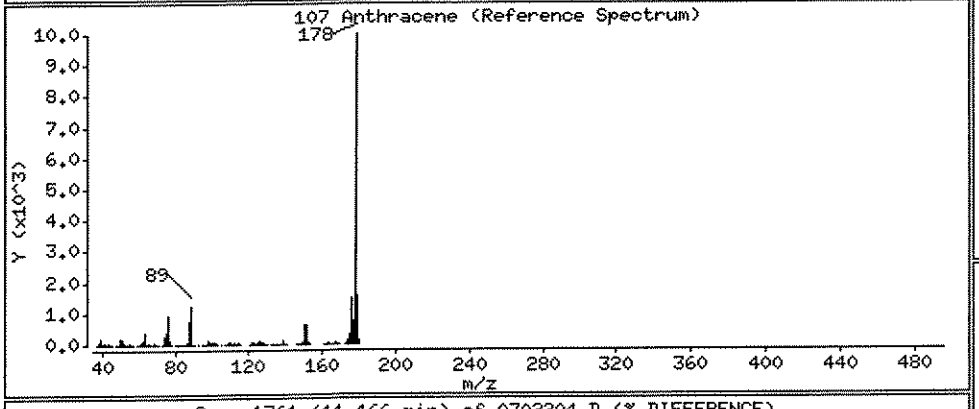
Volume Injected (uL): 0.5 Operator: SDB

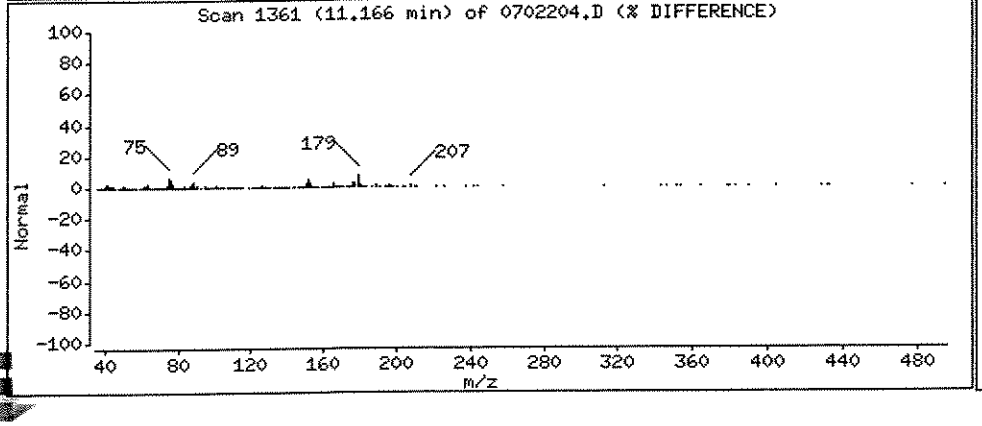
Column phase: fused silica Column diameter: 0.25

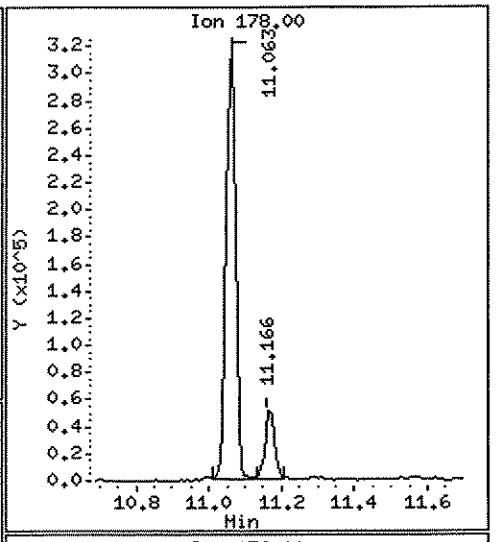
107 Anthracene Concentration: 151.6 UG/KG

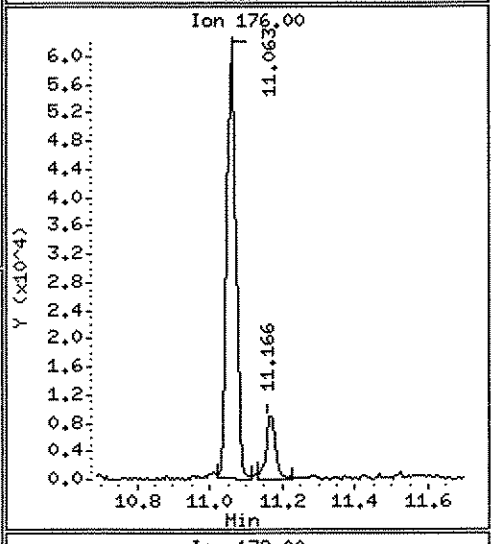


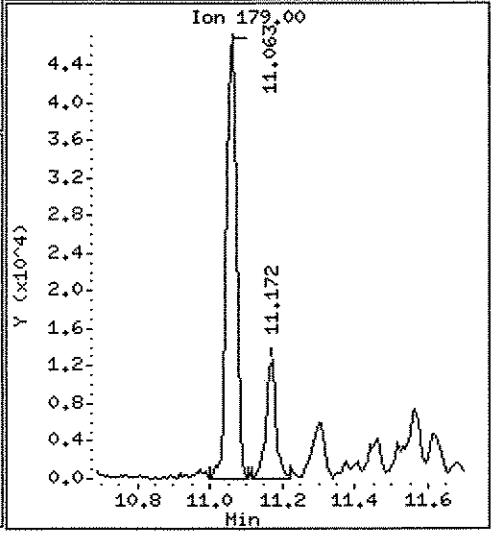












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

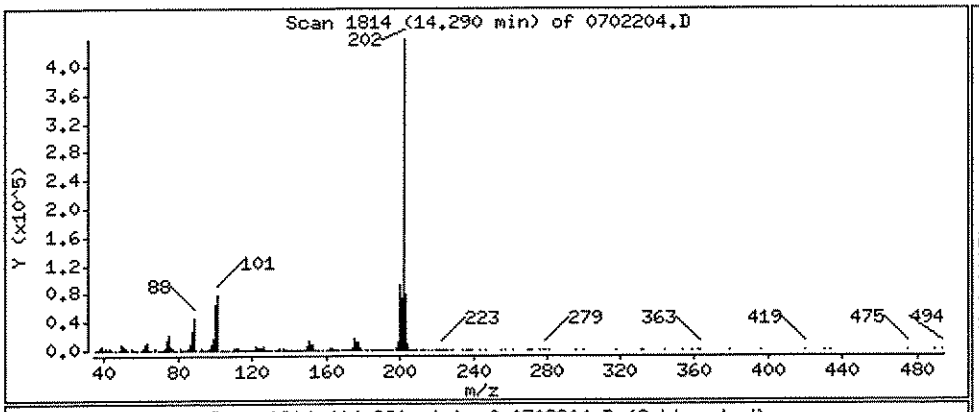
Client ID: 51CFM02S060706 Instrument: bna1.i

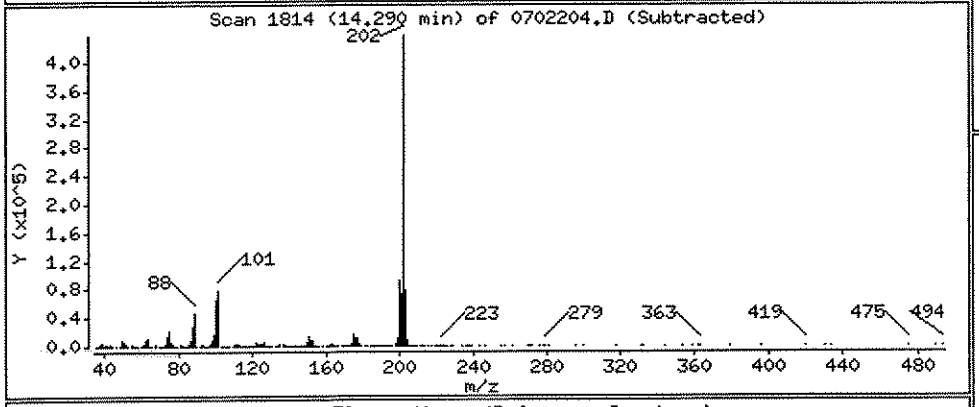
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

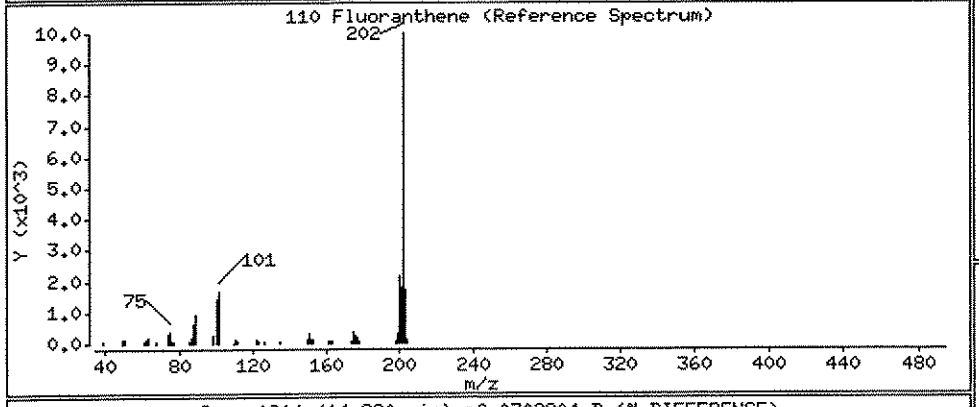
Volume Injected (uL): 0.5 Operator: SDB

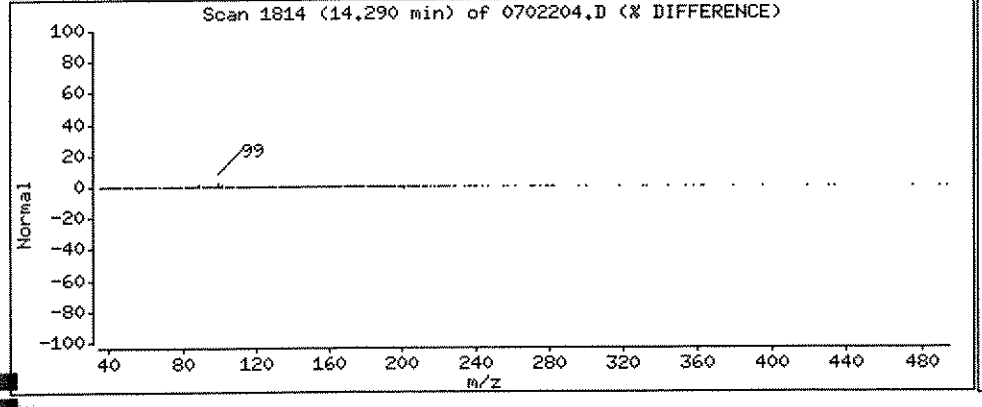
Column phase: fused silica Column diameter: 0.25

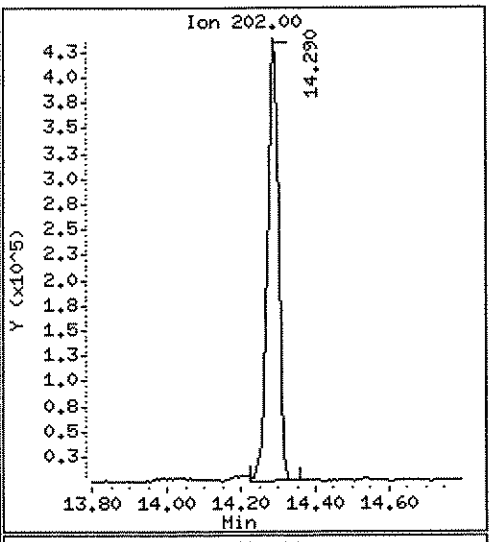
110 Fluoranthene Concentration: 1588 UG/KG

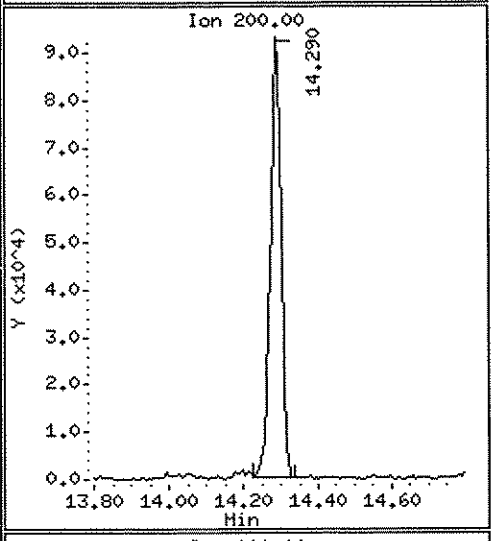


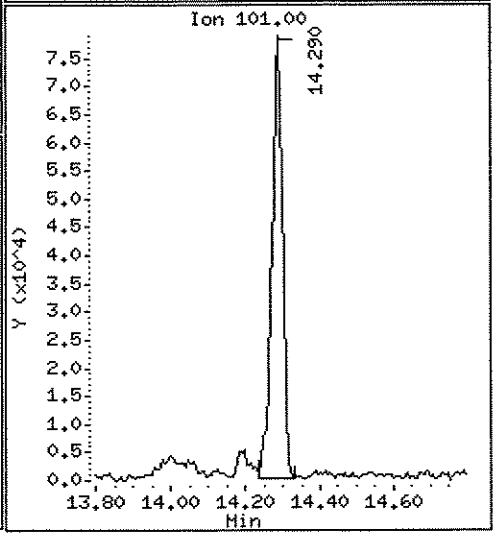












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

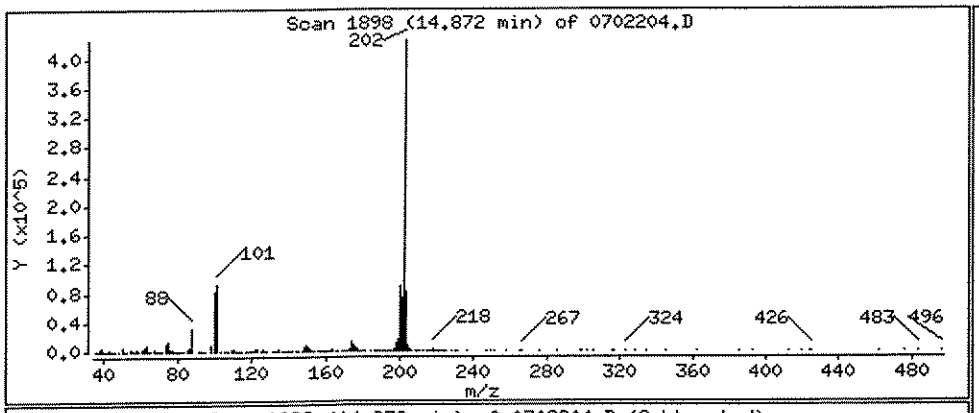
Client ID: 51CFM02S060706 Instrument: bna1.i

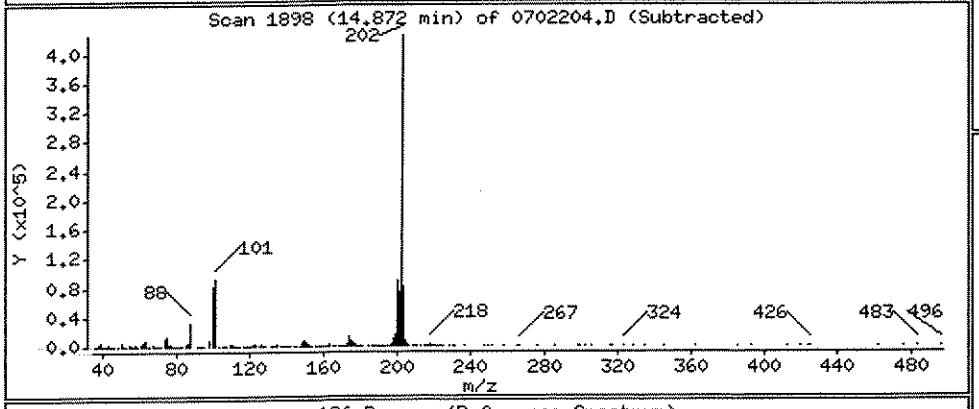
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

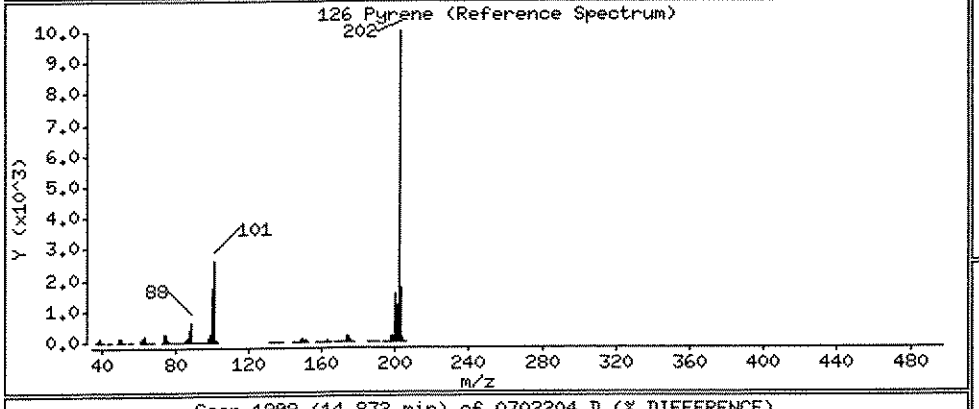
Volume Injected (uL): 0.5 Operator: SDB

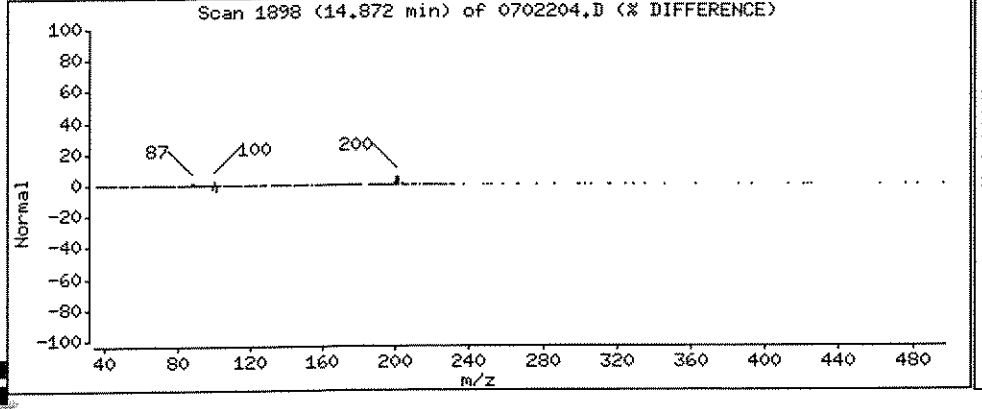
Column phase: fused silica Column diameter: 0.25

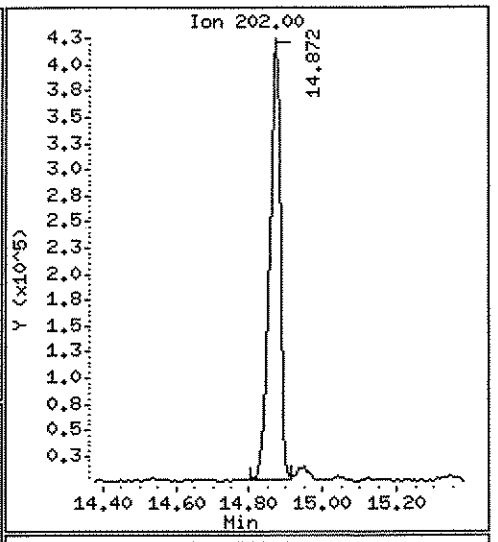
126 Pyrene Concentration: 1996 UG/KG

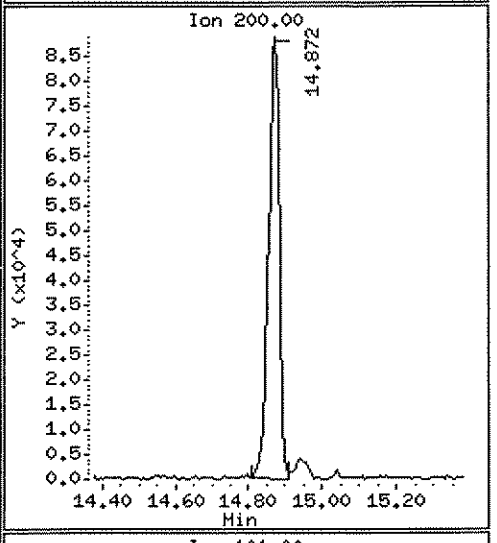


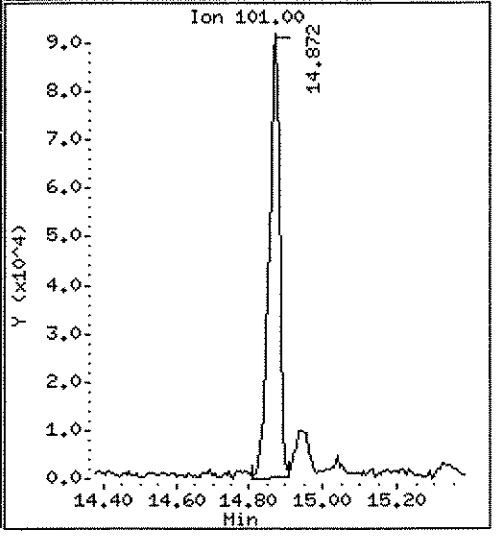












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

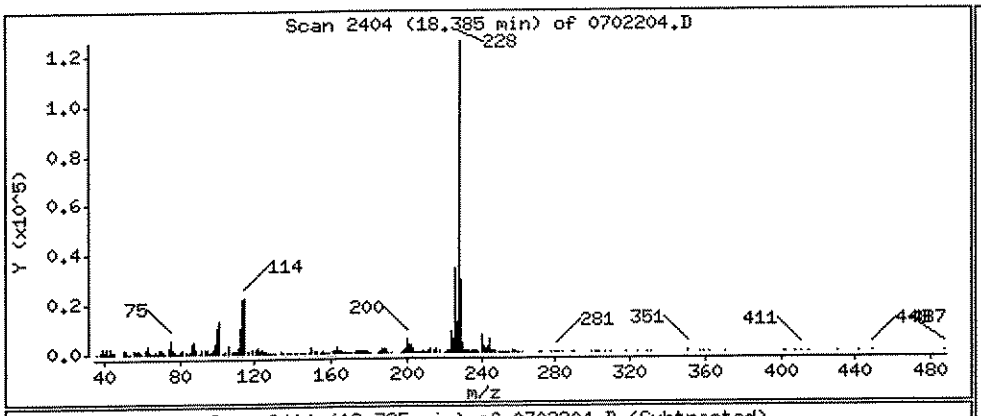
Operator: SDB

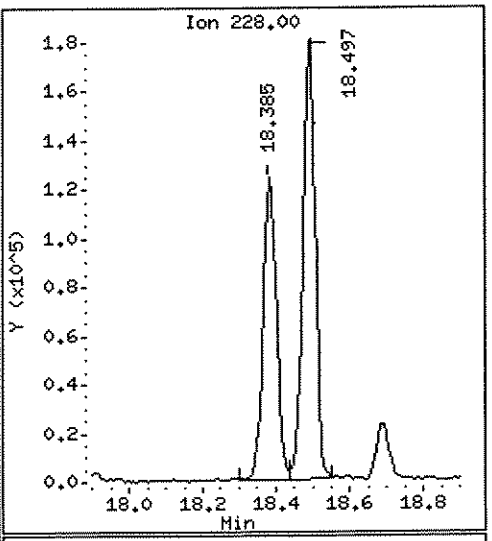
Column phase: fused silica

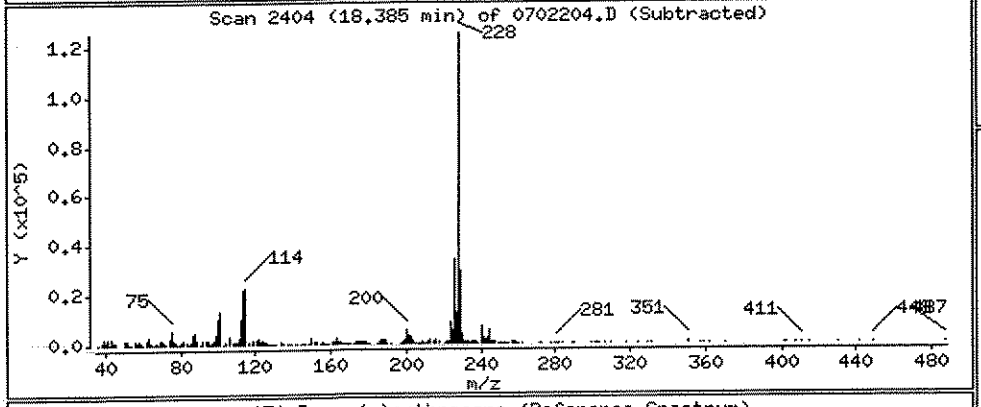
Column diameter: 0.25

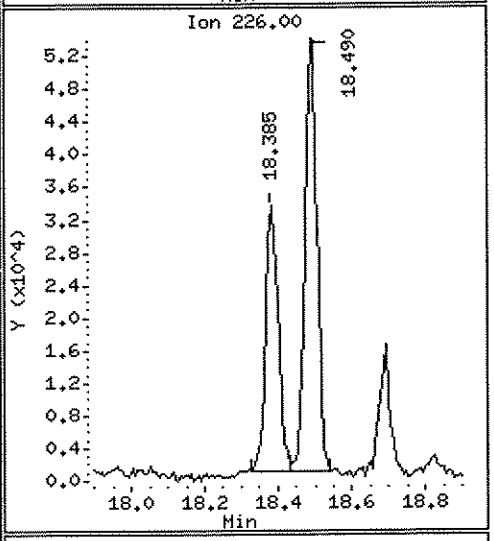
130 Benzo(a)anthracene

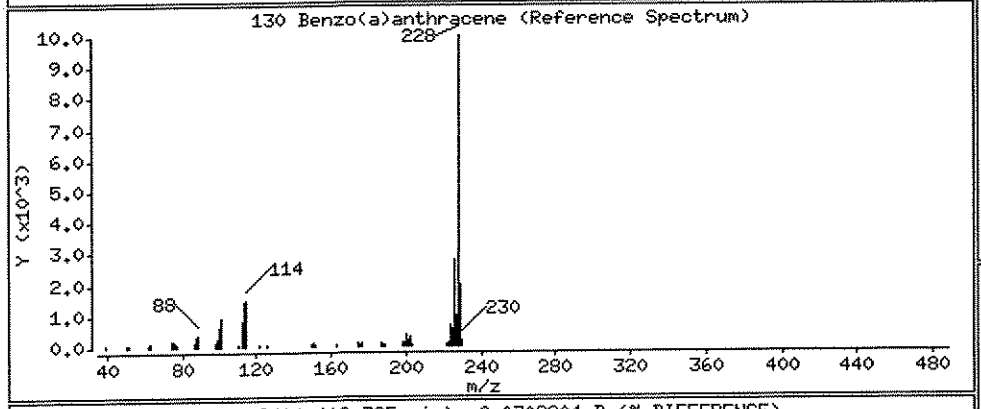
Concentration: 893.6 UG/KG

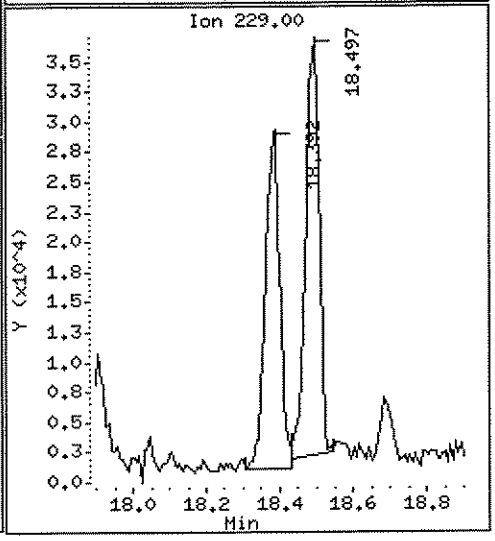


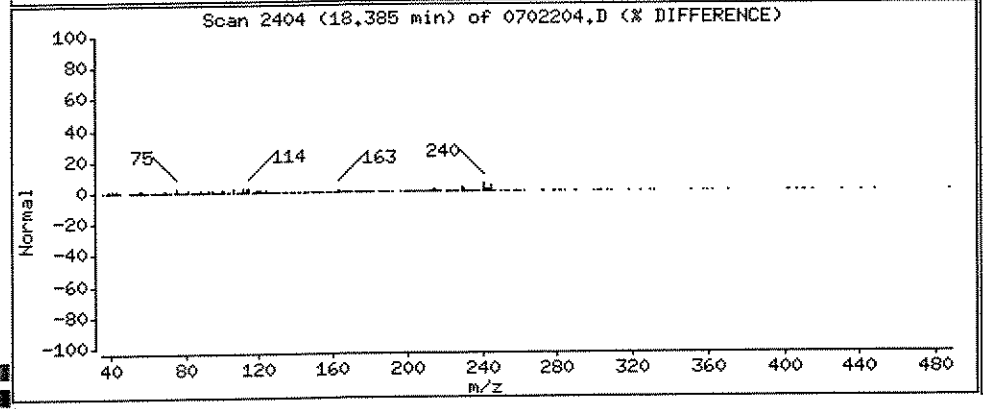












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

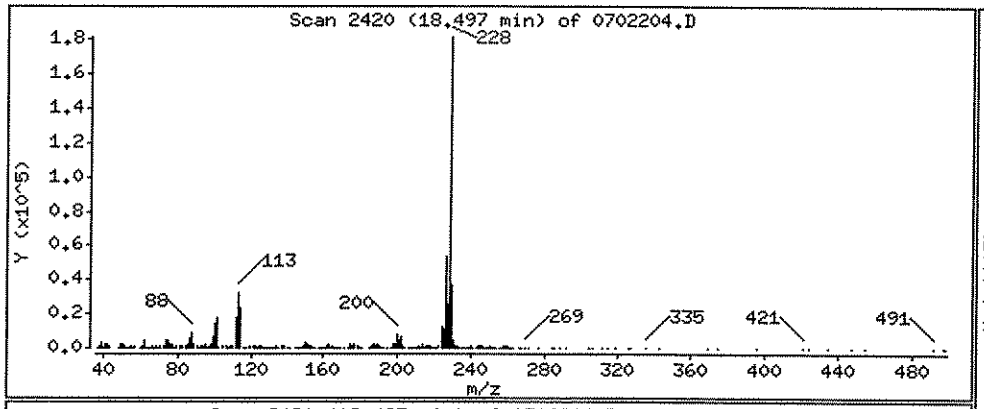
Client ID: 51CFM02S060706 Instrument: bna1.i

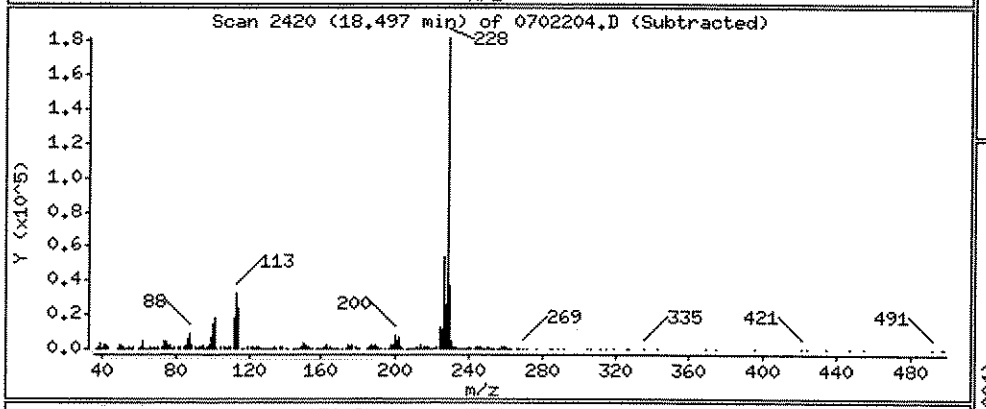
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

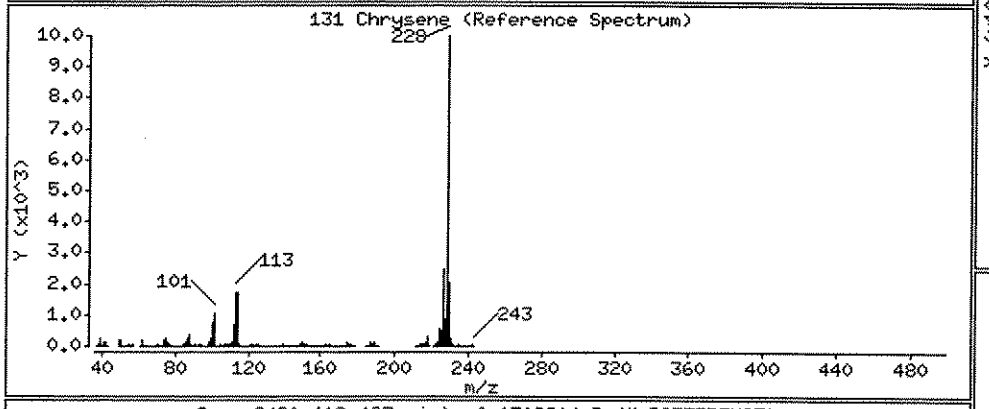
Volume Injected (uL): 0.5 Operator: SDB

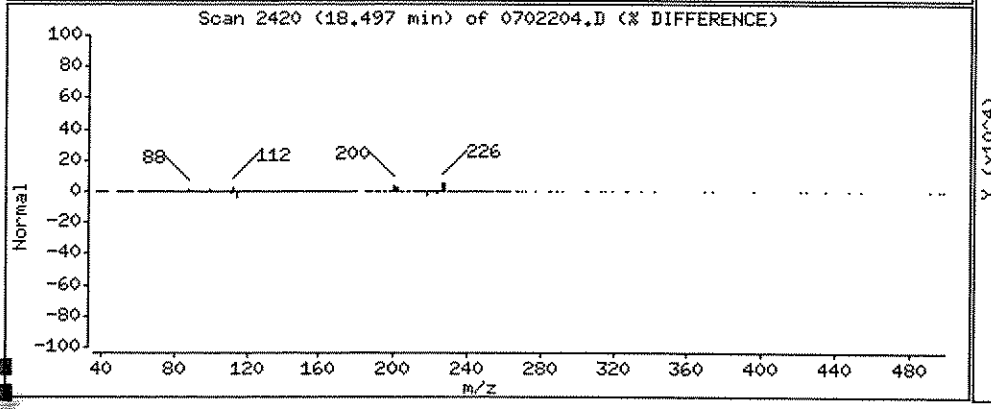
Column phase: fused silica Column diameter: 0.25

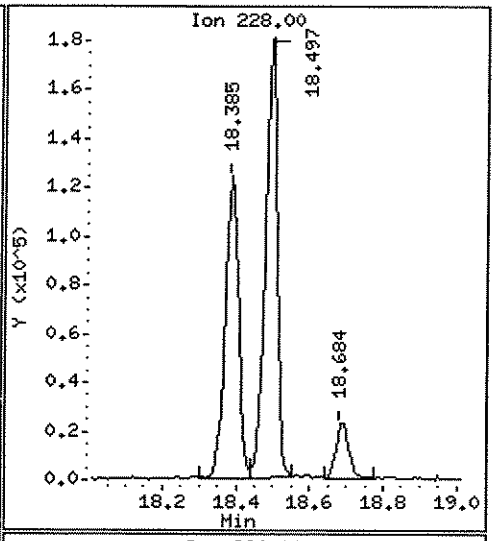
131 Chrysene Concentration: 1272 UG/KG

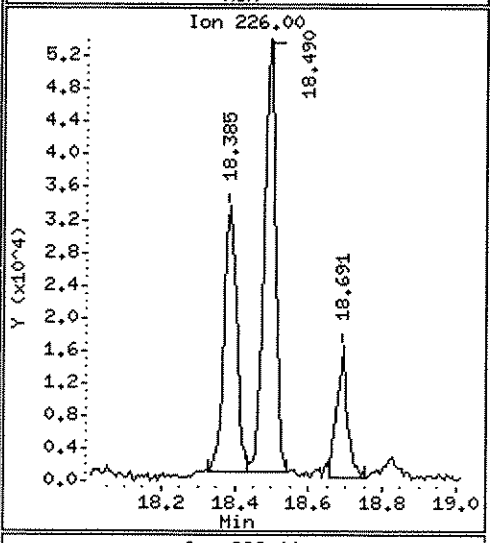


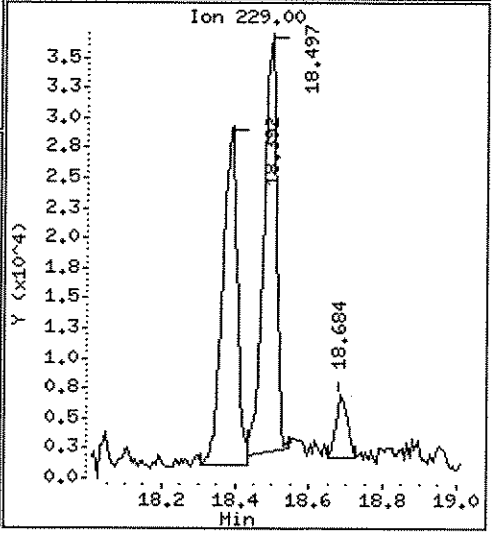












Empirical Laboratories

000082

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

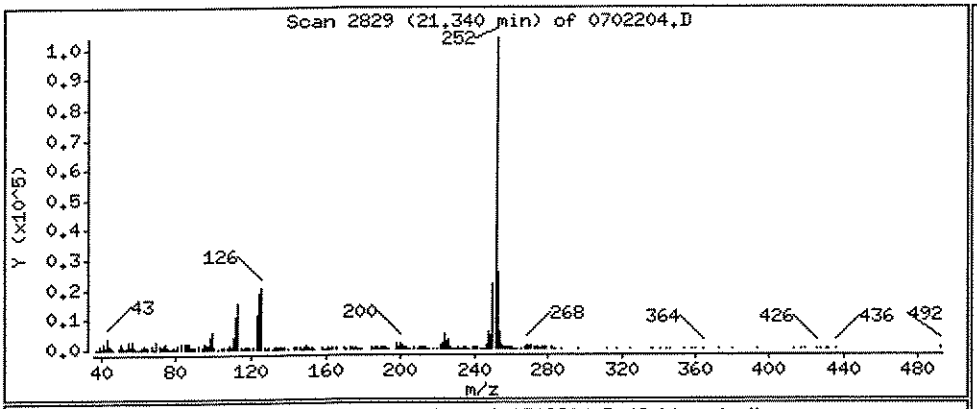
Client ID: 51CFM02S060706 Instrument: bna1.i

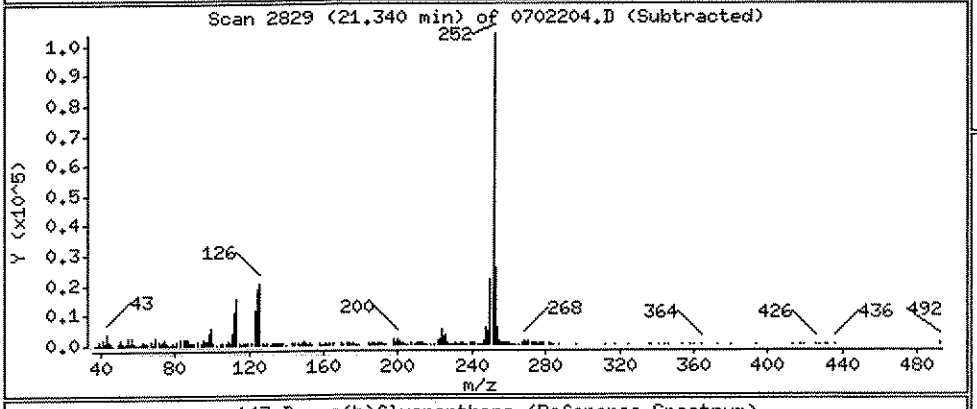
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

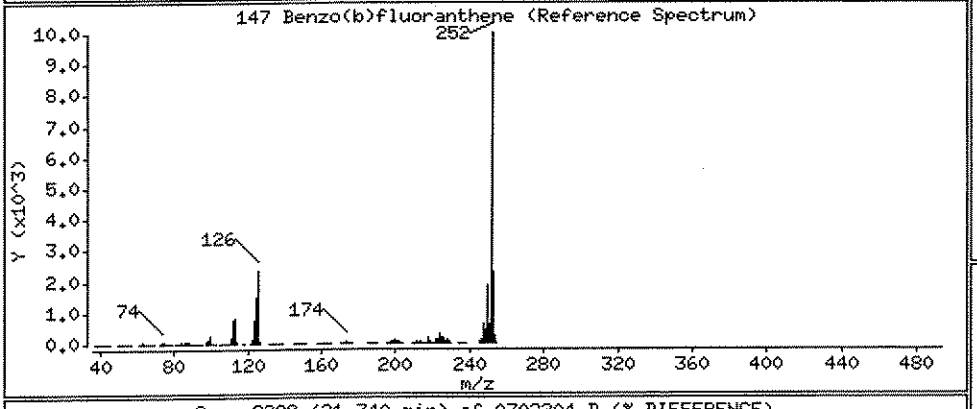
Volume Injected (uL): 0.5 Operator: SDB

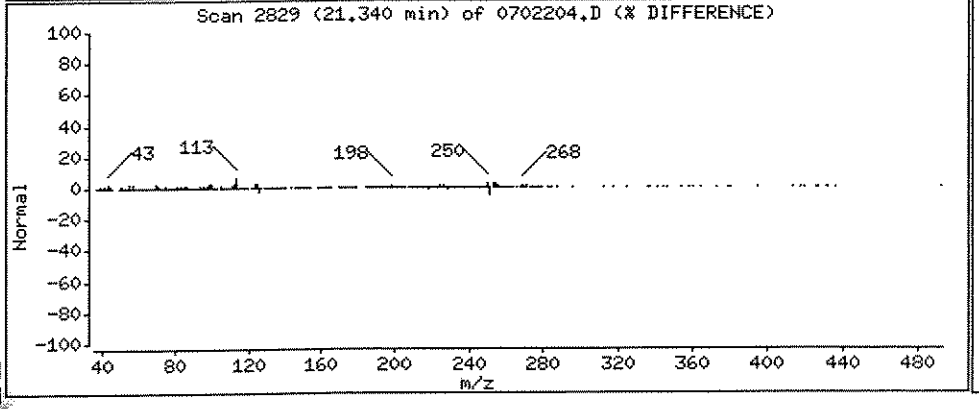
Column phase: fused silica Column diameter: 0.25

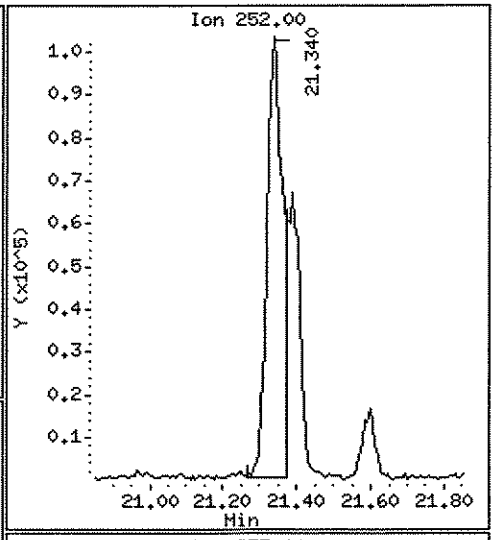
147 Benzo(b)fluoranthene Concentration: 1811 UG/KG

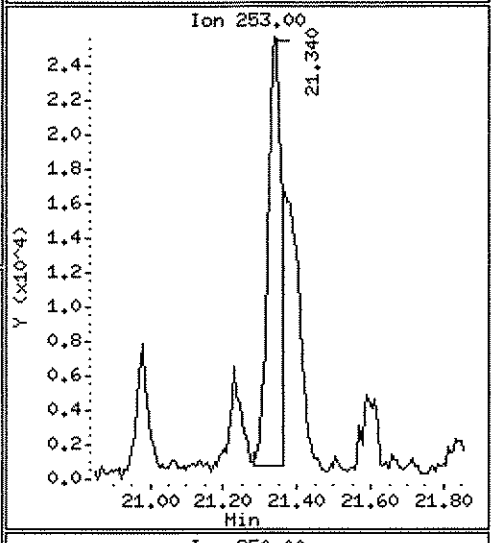


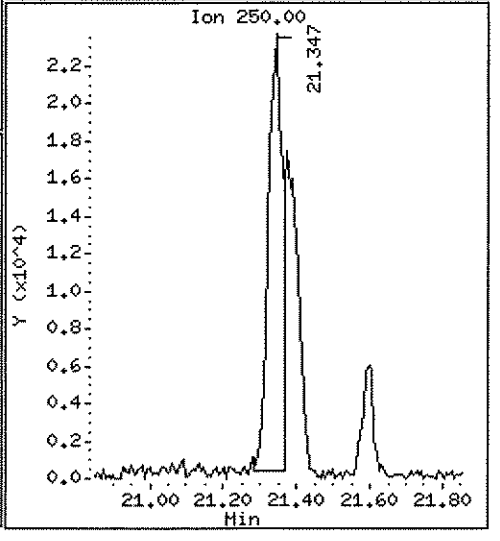












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

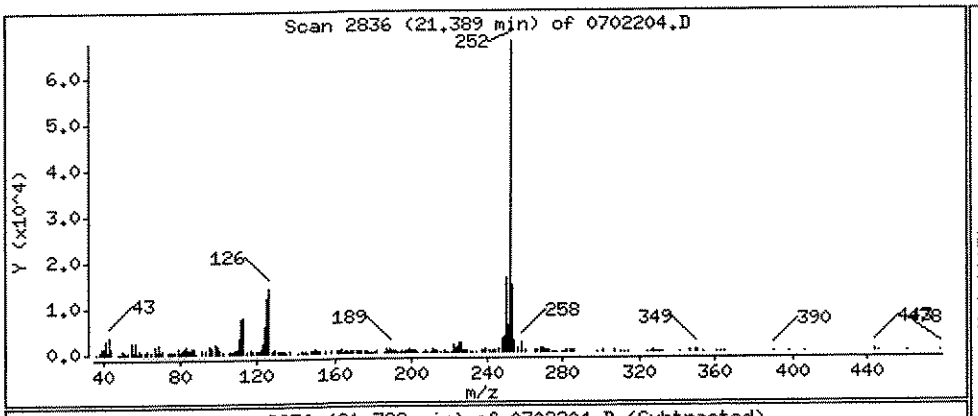
Client ID: 51CFM02S060706 Instrument: bna1.i

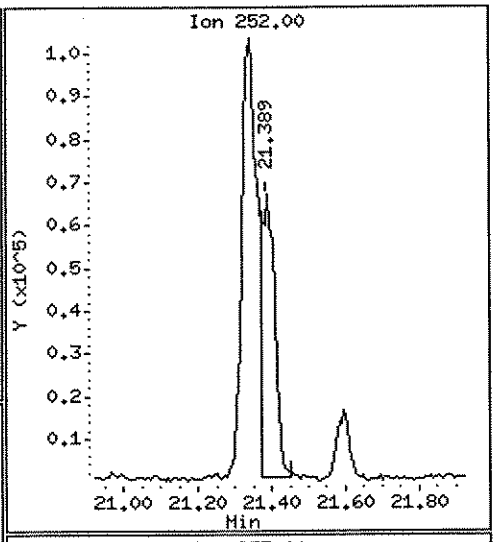
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

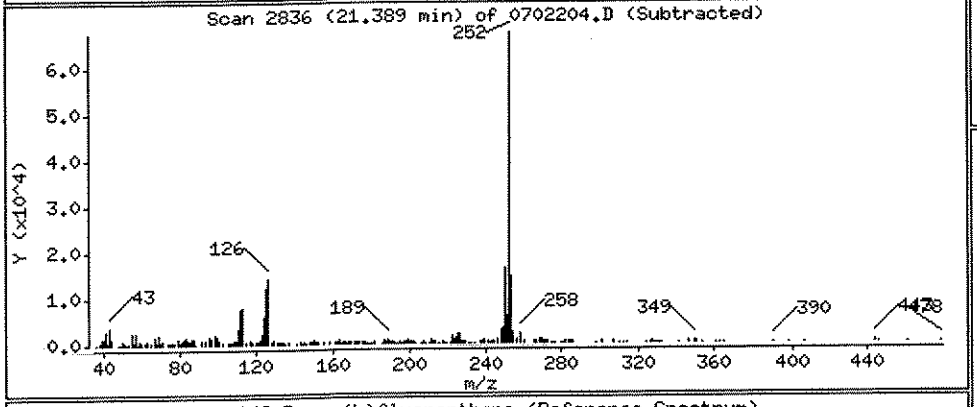
Volume Injected (uL): 0.5 Operator: SDB

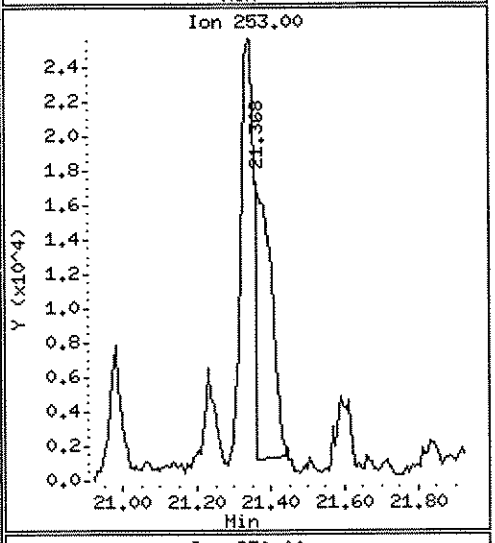
Column phase: fused silica Column diameter: 0.25

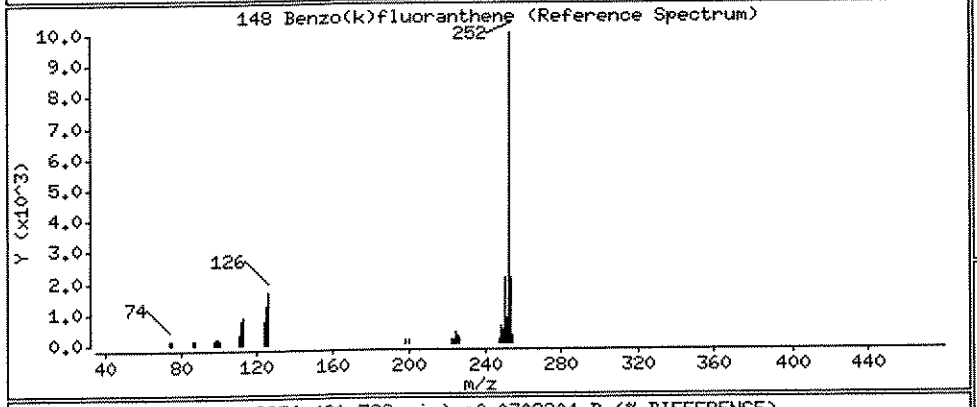
148 Benzo(k)fluoranthene Concentration: 874.3 UG/KG

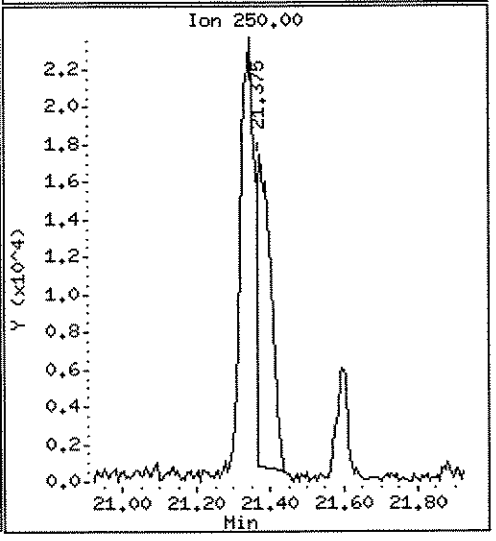


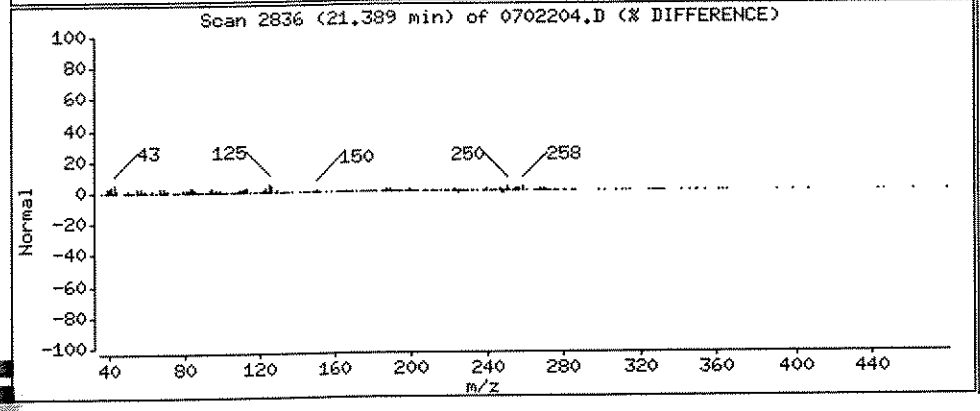












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

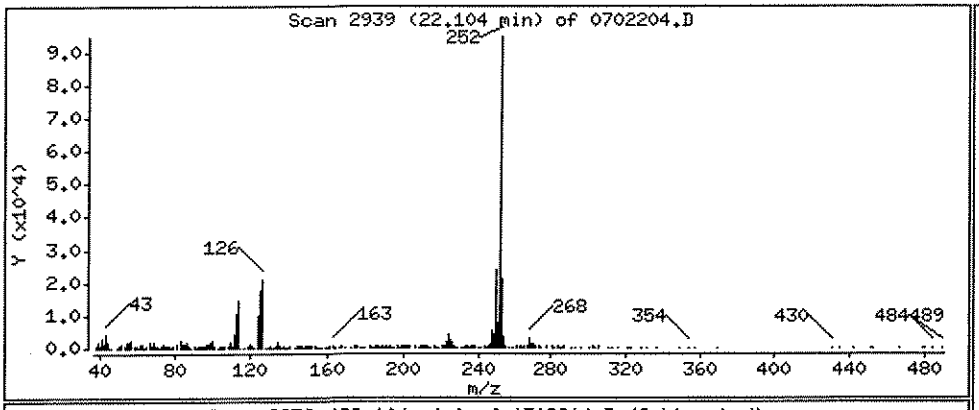
Client ID: 51CFH02S060706 Instrument: bna1.i

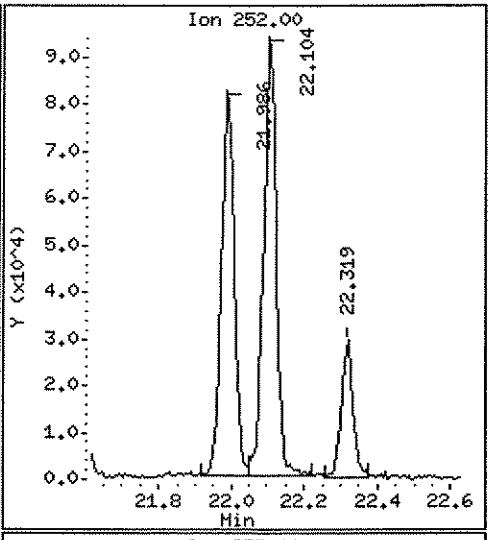
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

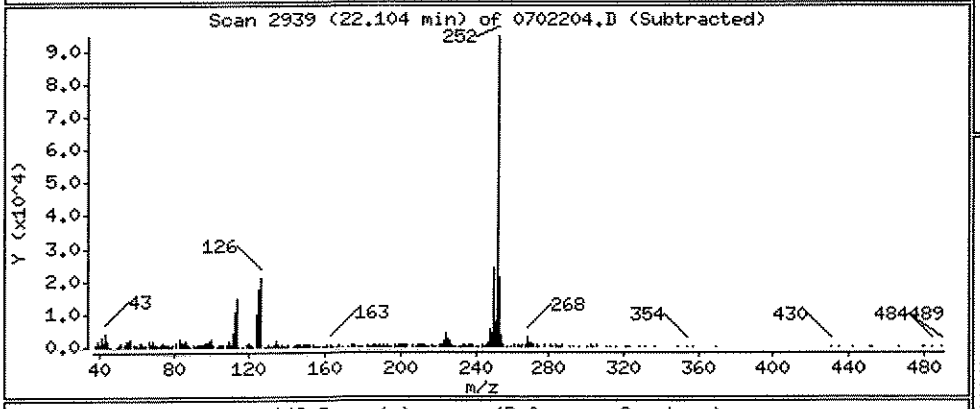
Volume Injected (uL): 0.5 Operator: SDB

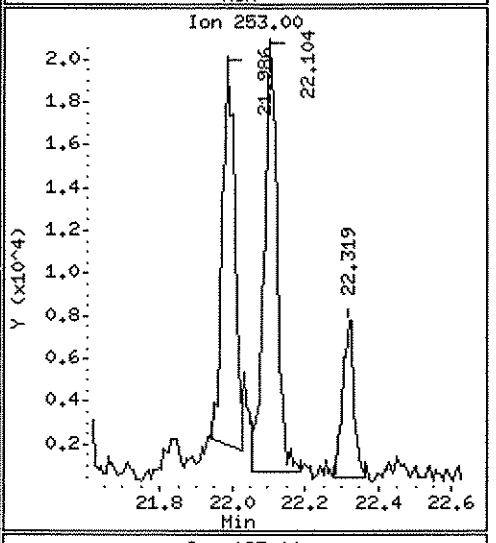
Column phase: fused silica Column diameter: 0.25

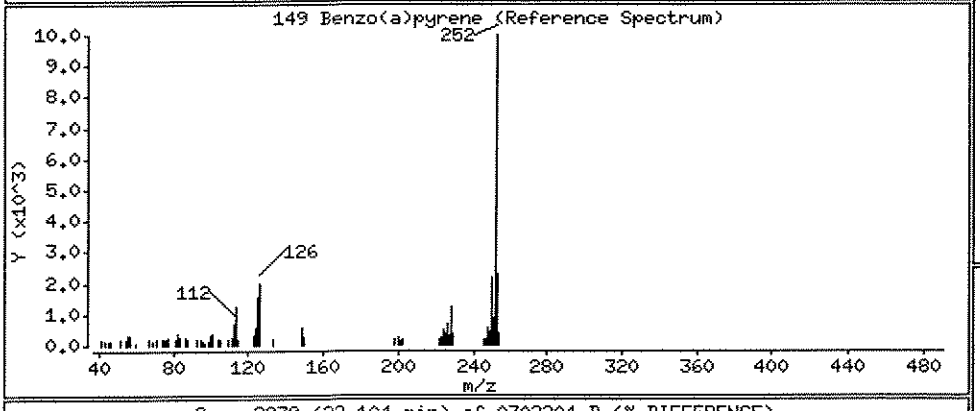
149 Benzo(a)pyrene Concentration: 1525 UG/KG

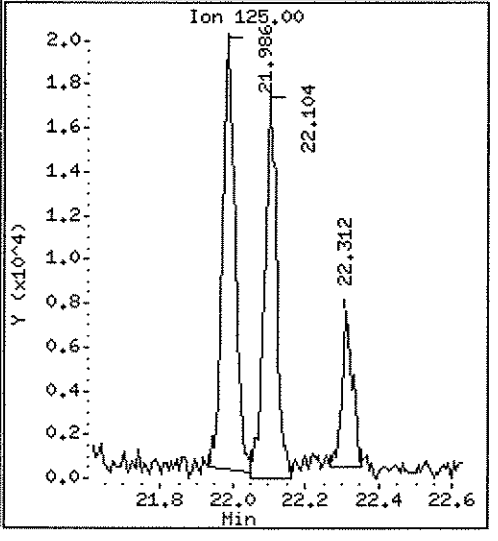


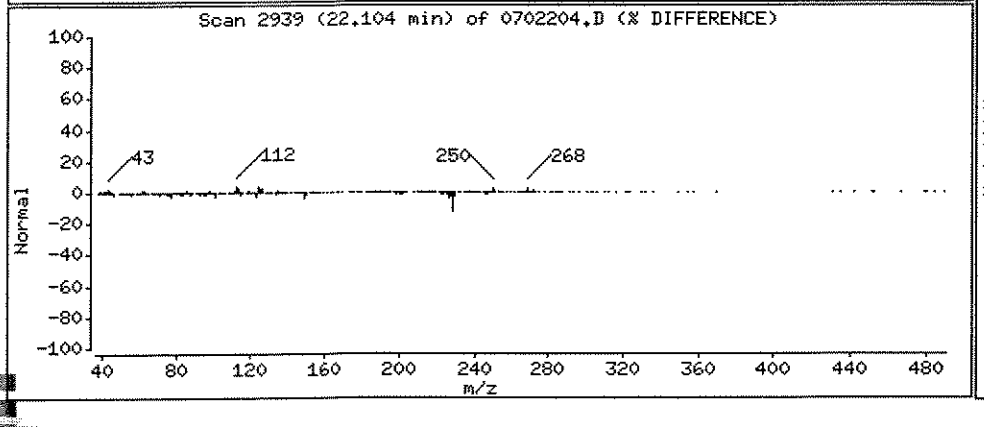












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

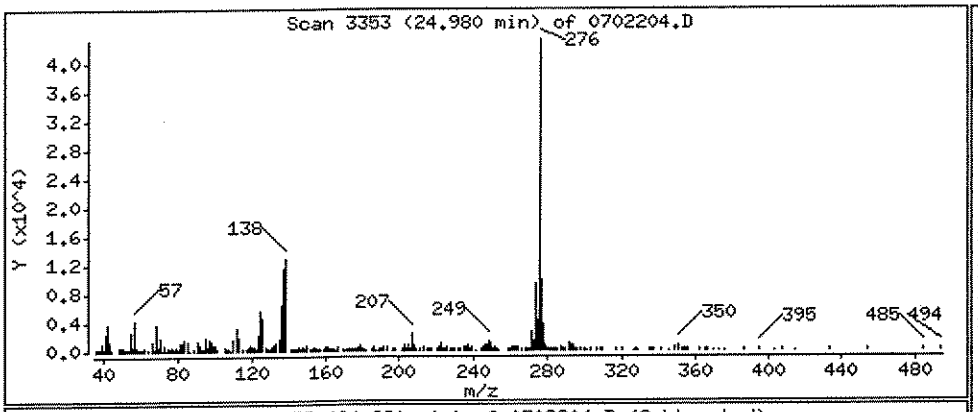
Operator: SDB

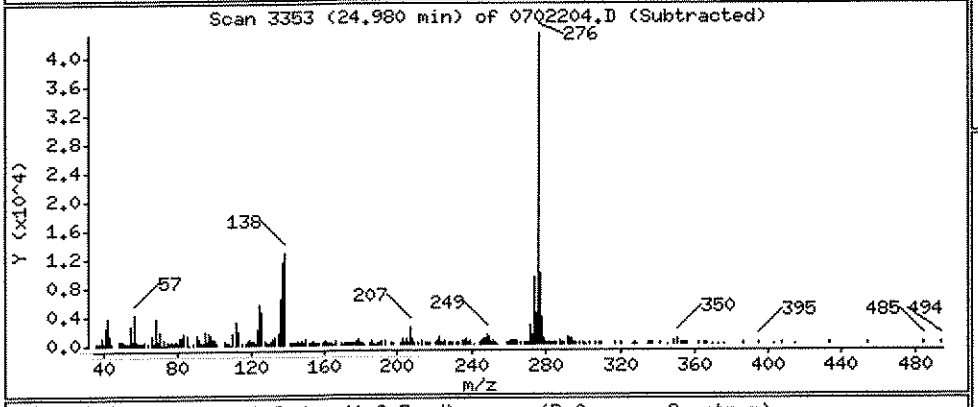
Column phase: fused silica

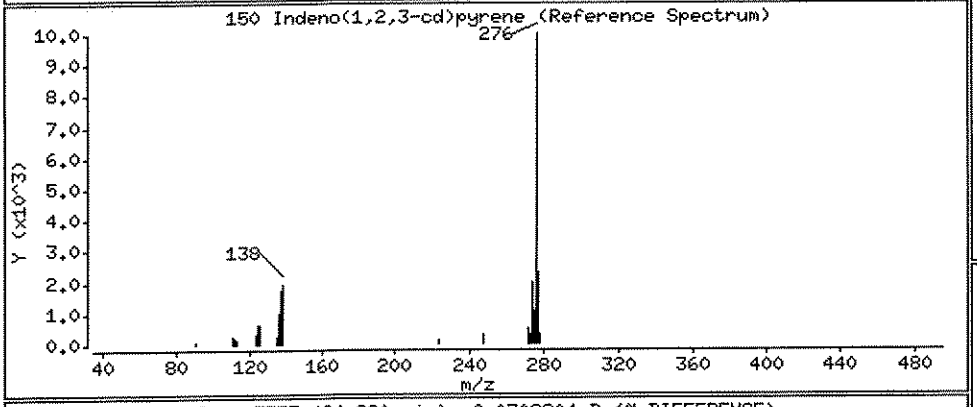
Column diameter: 0.25

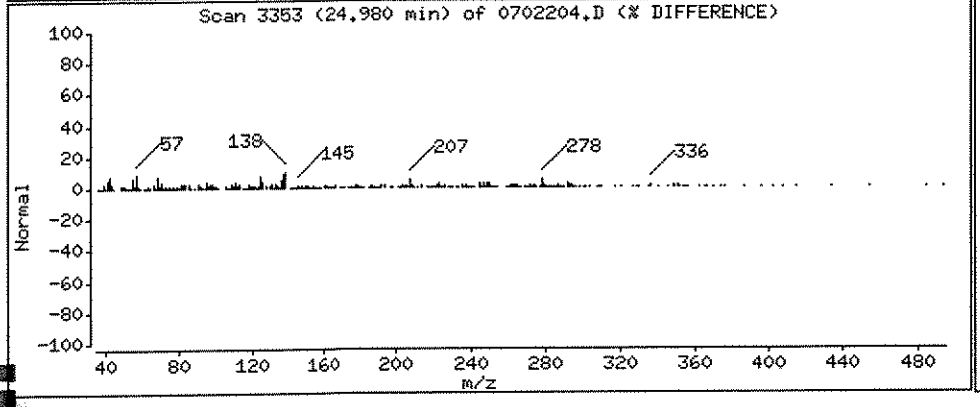
150 Indeno(1,2,3-cd)pyrene

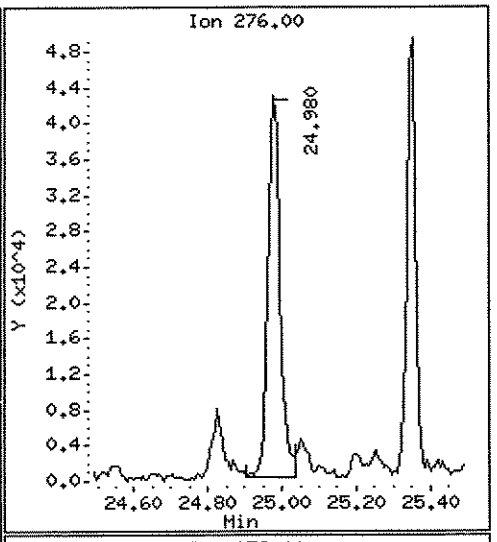
Concentration: 739.0 UG/KG

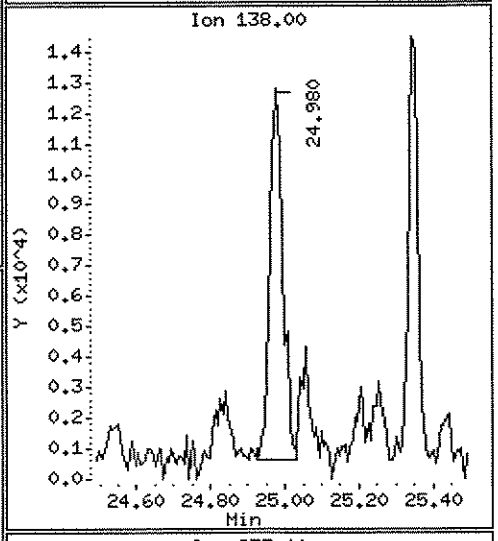


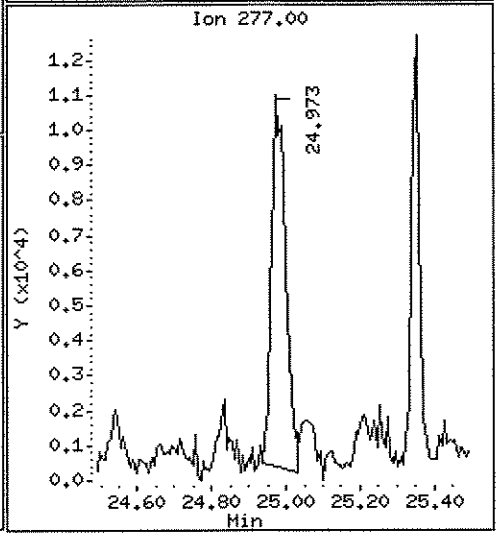












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

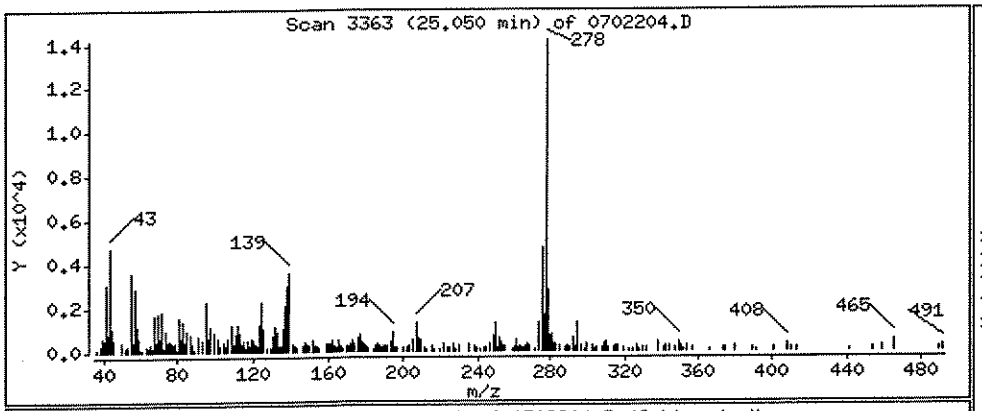
Operator: SDB

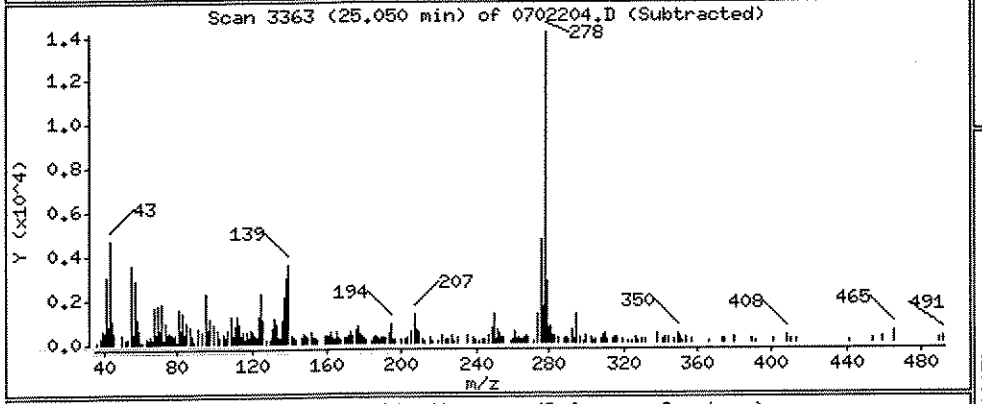
Column phase: fused silica

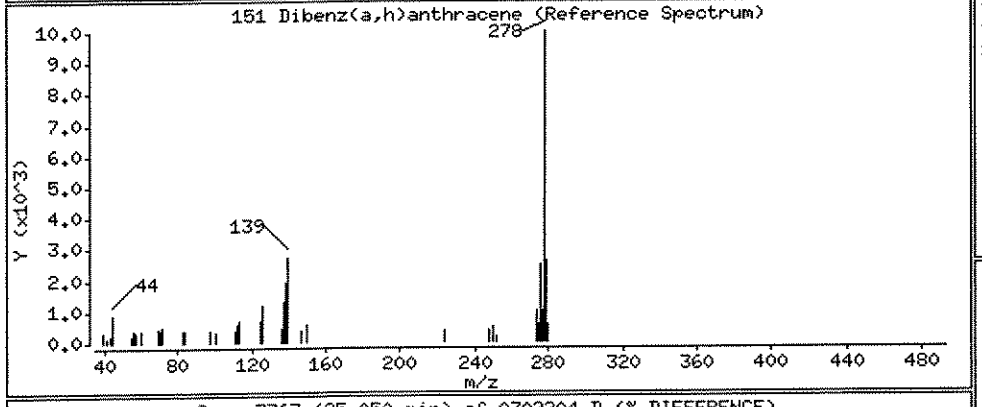
Column diameter: 0.25

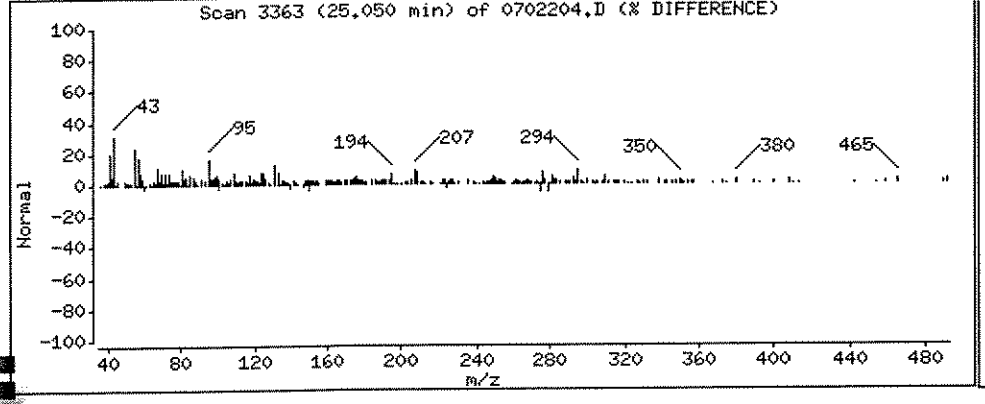
151 Dibenz(a,h)anthracene

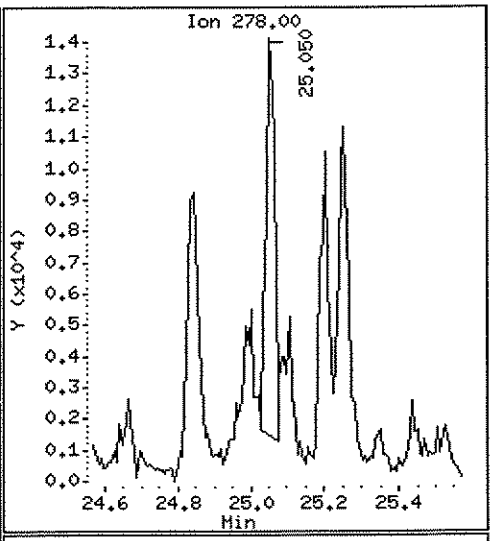
Concentration: 165.3 UG/KG

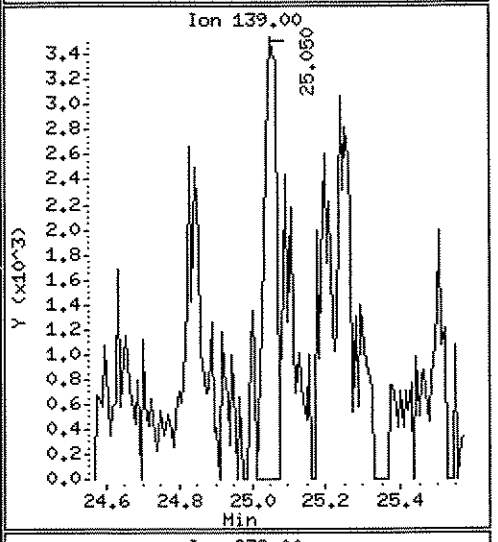


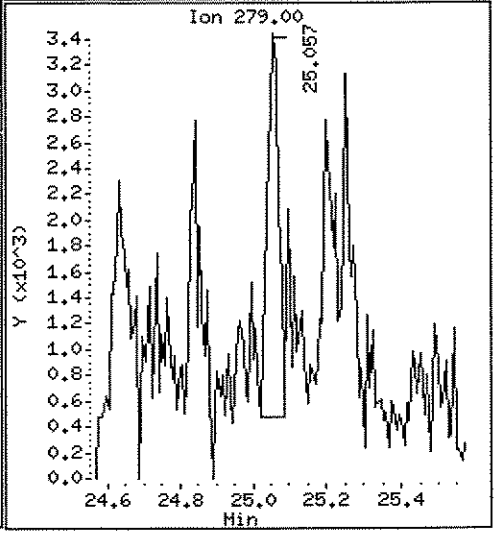












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

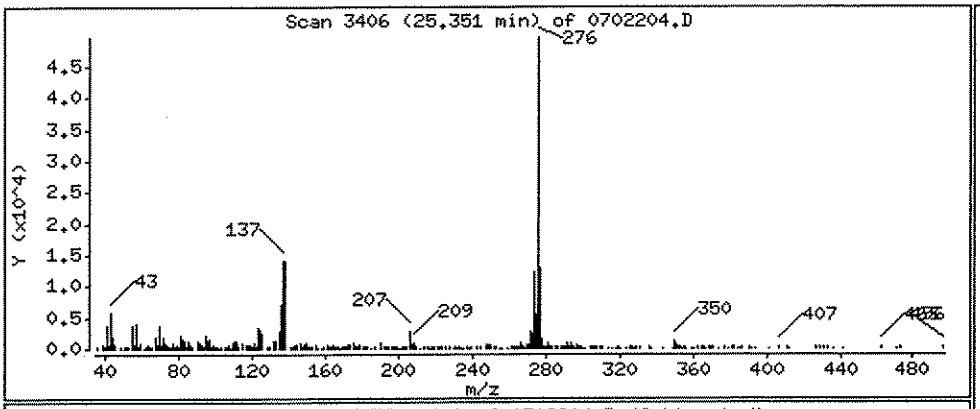
Client ID: 51CFM02S060706 Instrument: bna1.i

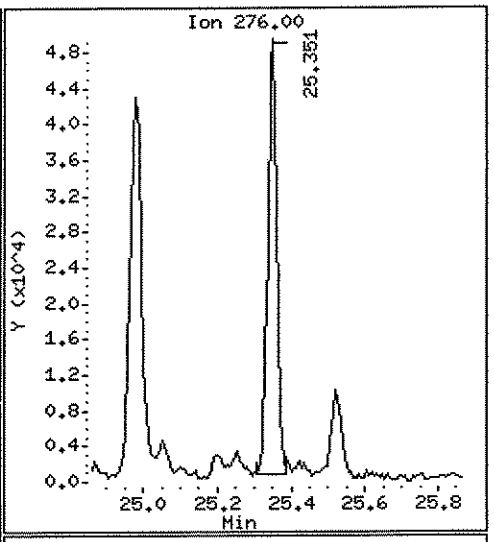
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

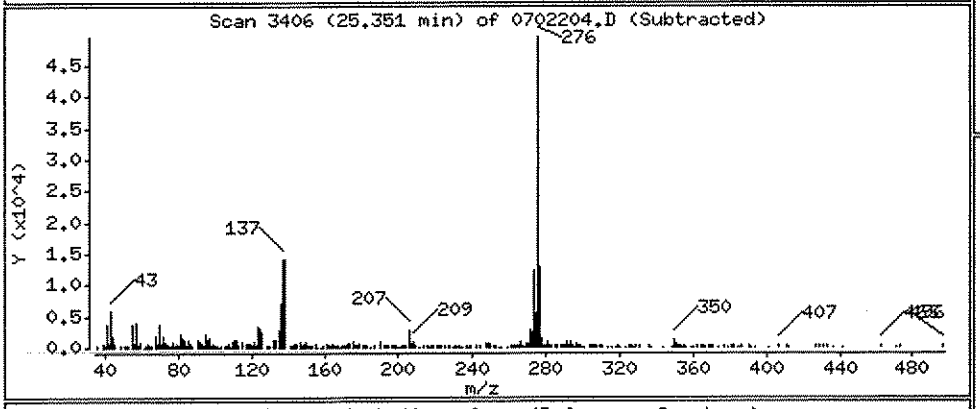
Volume Injected (uL): 0.5 Operator: SDB

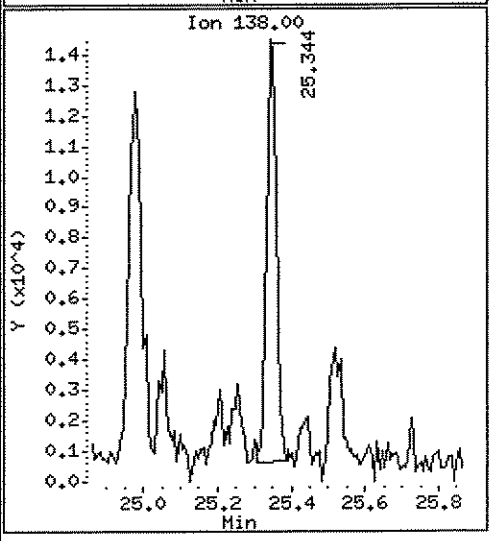
Column phase: fused silica Column diameter: 0.25

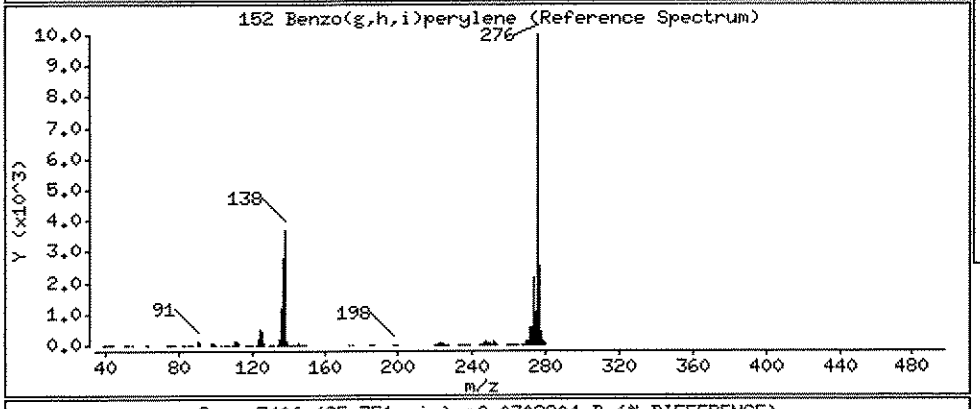
152 Benzo(g,h,i)perylene Concentration: 610.7 UG/KG

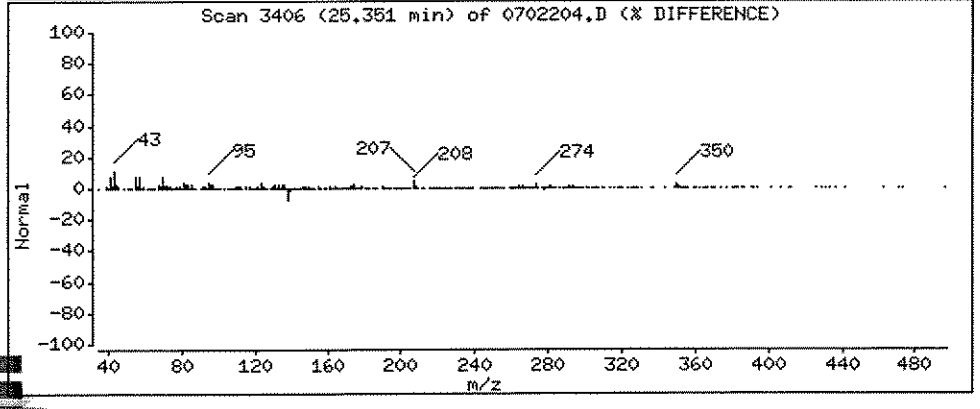












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204D

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:16

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	860		UD
208-96-8	Acenaphthylene	100	860		UD
120-12-7	Anthracene	100	860	130	JD
56-55-3	Benzo(a)anthracene	100	860	770	JD
205-99-2	Benzo(b)fluoranthene	100	860	1200	D
207-08-9	Benzo(k)fluoranthene	100	860	740	JD
191-24-2	Benzo(g,h,i)perylene	100	860	760	JD
50-32-8	Benzo(a)pyrene	100	520	1200	D
218-01-9	Chrysene	100	860	1000	D
53-70-3	Dibenz(a,h)anthracene	100	520	200	JD
206-44-0	Fluoranthene	100	860	1400	D
86-73-7	Fluorene	100	860		UD
193-39-5	Indeno(1,2,3-cd)pyrene	100	860	780	JD
91-57-6	2-Methylnaphthalene	100	860		UD
90-12-0	1-Methylnaphthalene	260	860		UD
91-20-3	Naphthalene	100	860		UD
85-01-8	Phenanthrene	100	860	830	JD
129-00-0	Pyrene	100	860	1400	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Lab Smp Id: 0607022-04 Client Smp ID: 51CFM02S060706
Inj Date : 11-JUL-2006 16:16
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 13
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.000	Percent Solids

7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	495619	40.0000	
* 31 Naphthalene-d8	136	5.237	5.240	(1.000)	1785336	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.890)	227106	11.6529	2002
* 65 Acenaphthene-d10	164	7.636	7.641	(1.000)	858789	40.0000	
$ 70 2-Fluorobiphenyl	172	6.545	6.555	(0.857)	336764	12.3224	2117
* 97 Phenanthrene-d10	188	10.920	10.923	(1.000)	1091272	40.0000	
106 Phenanthrene	178	10.969	10.986	(1.004)	149917	4.81823	827.9(a)
107 Anthracene	178	11.079	11.096	(1.015)	23696	0.77140	132.5(a)
110 Fluoranthene	202	14.182	14.195	(1.299)	243023	7.88917	1356
* 124 Chrysene-d12	240	18.326	18.333	(1.000)	770234	40.0000	
126 Pyrene	202	14.759	14.770	(0.805)	244490	7.94819	1366
$ 127 Terphenyl-d14	244	15.535	15.545	(0.848)	249903	12.8489	2208
130 Benzo(a)anthracene	228	18.270	18.291	(0.997)	111514	4.49345	772.1(a)

7-12-06

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Report Date: 12-Jul-2006 12:12

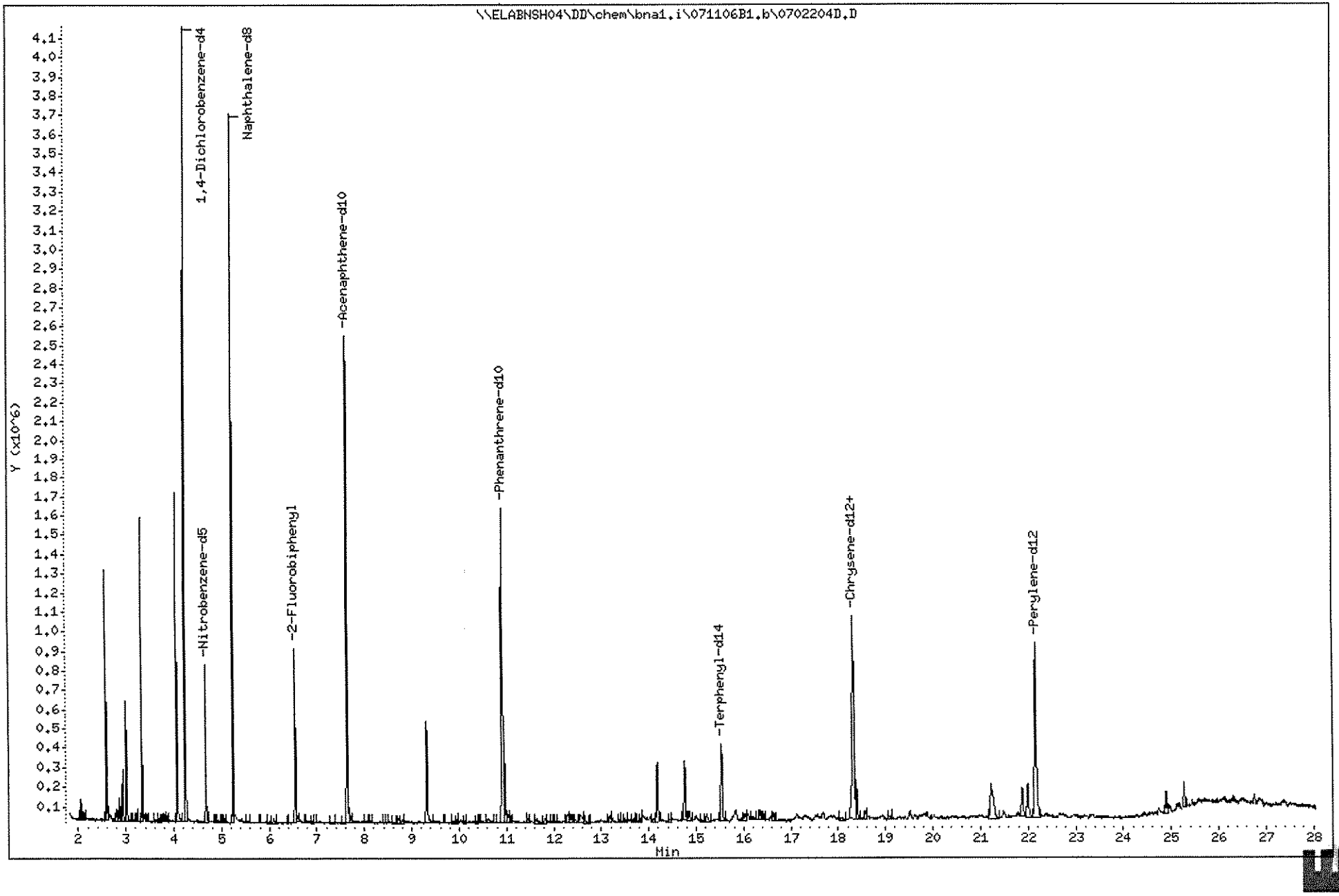
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
131 Chrysene	228	18.382	18.409	(1.003)	137371	6.06049	1041
* 145 Perylene-d12	264	22.163	22.175	(1.000)	729191	40.0000	
147 Benzo(b)fluoranthene	252	21.228	21.248	(0.958)	162381	7.22906	1242(M)
148 Benzo(k)fluoranthene	252	21.262	21.317	(0.959)	99760	4.28069	735.5(aM)
149 Benzo(a)pyrene	252	21.996	22.017	(0.992)	139641	7.20941	1239
150 Indeno(1,2,3-cd)pyrene	276	24.890	24.921	(1.123)	75574	4.57316	785.8(a)
151 Dibenz(a,h)anthracene	278	24.974	24.998	(1.127)	19648	1.18101	202.9(a)
152 Benzo(g,h,i)perylene	276	25.274	25.301	(1.140)	75886	4.42502	760.3(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Date : 11-JUL-2006 16:16
Client ID: 51CFM02S060706
Instrument: bna1.i
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000092



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

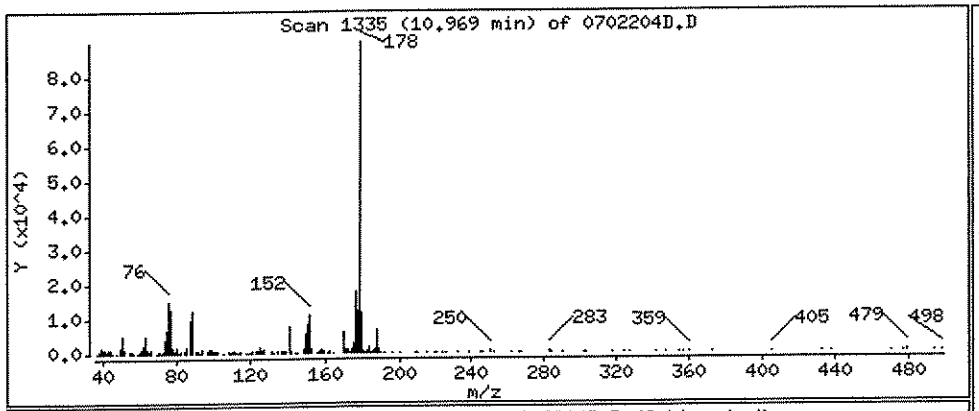
Operator: SDB

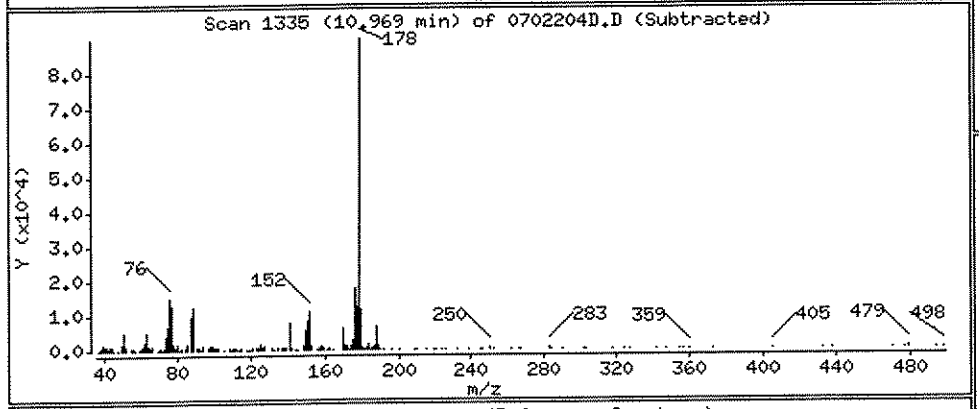
Column phase: fused silica

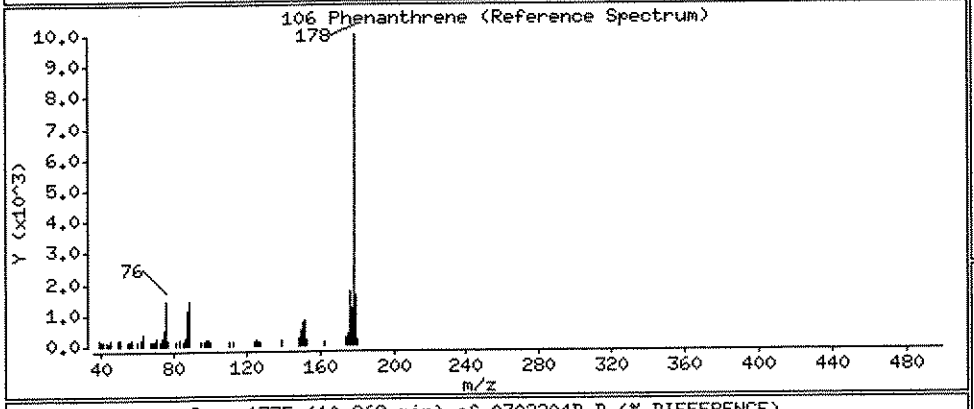
Column diameter: 0.25

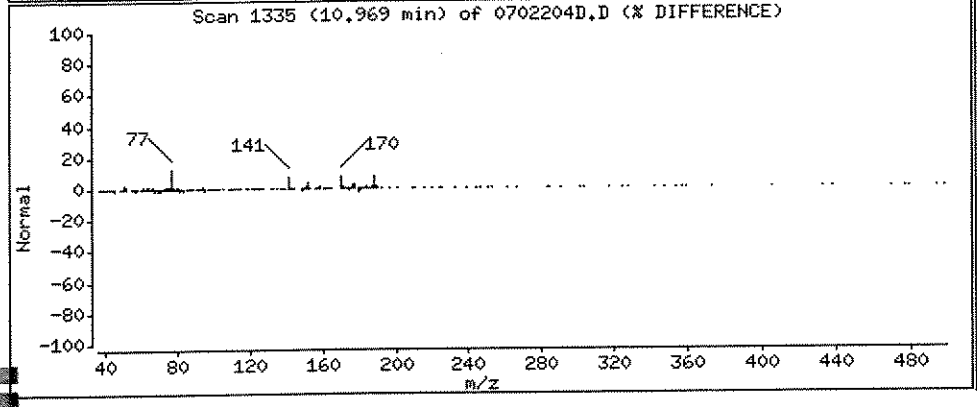
106 Phenanthrene

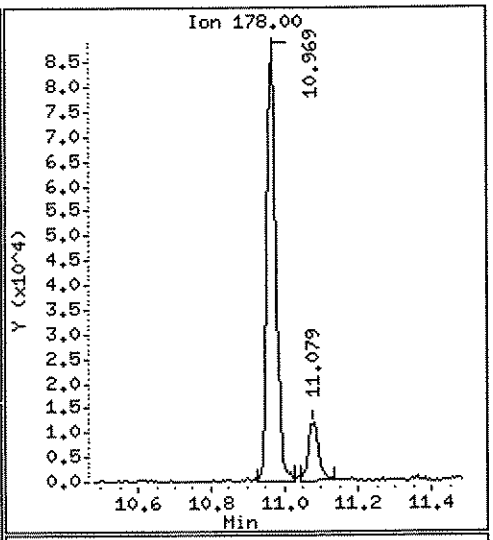
Concentration: 827.9 UG/KG

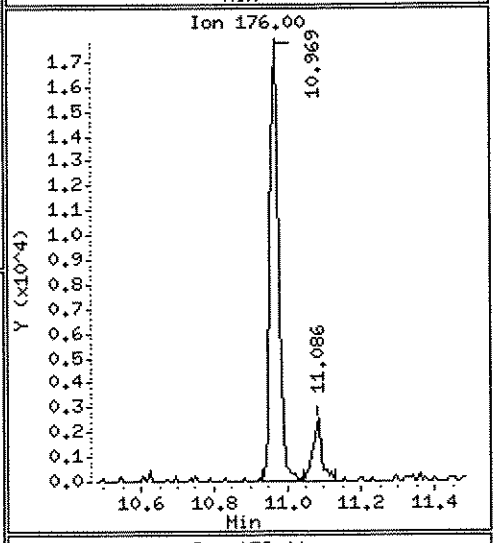


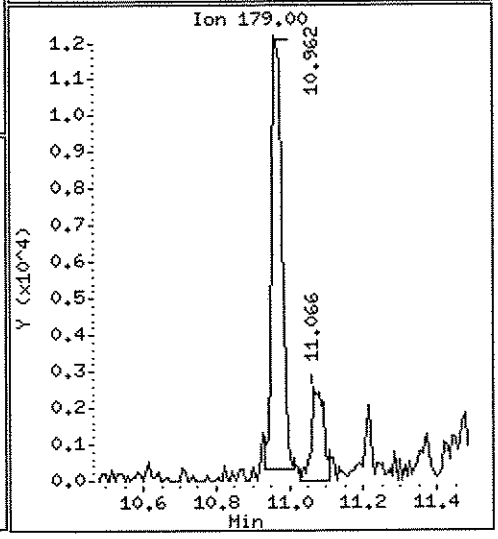












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

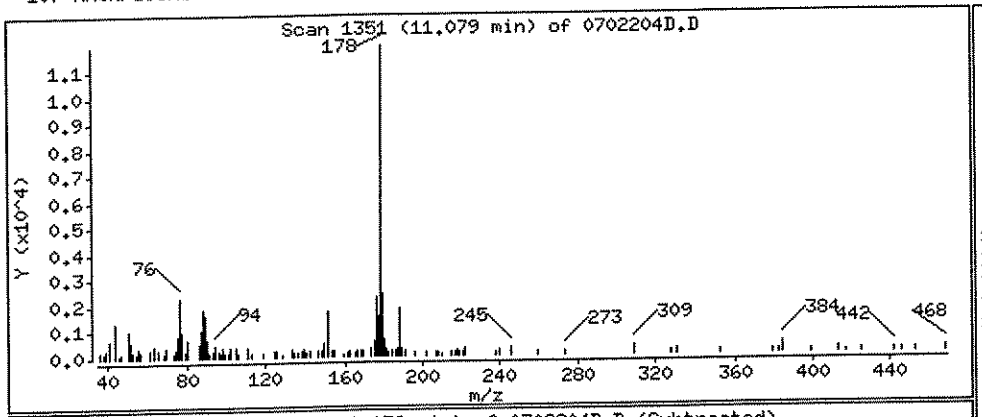
Operator: SDB

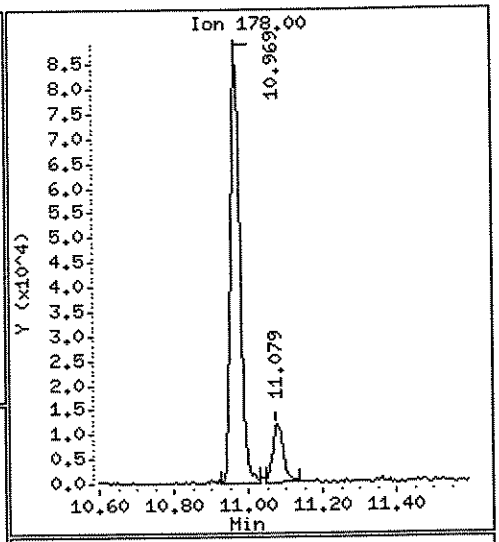
Column phase: fused silica

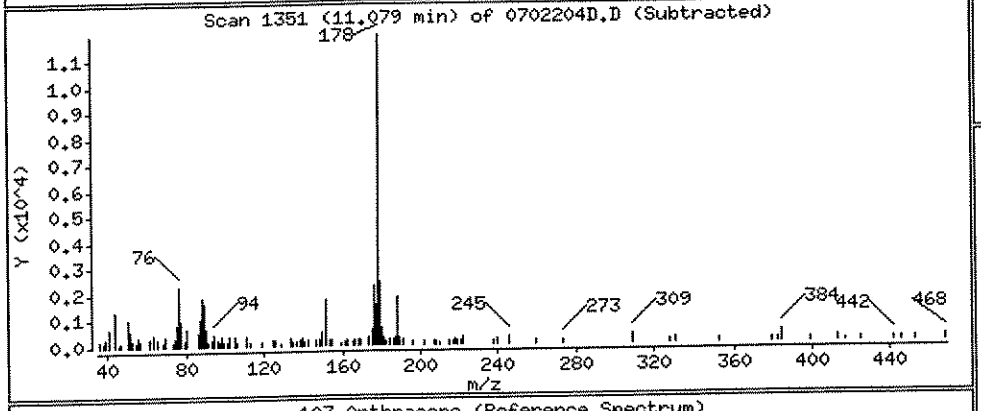
Column diameter: 0.25

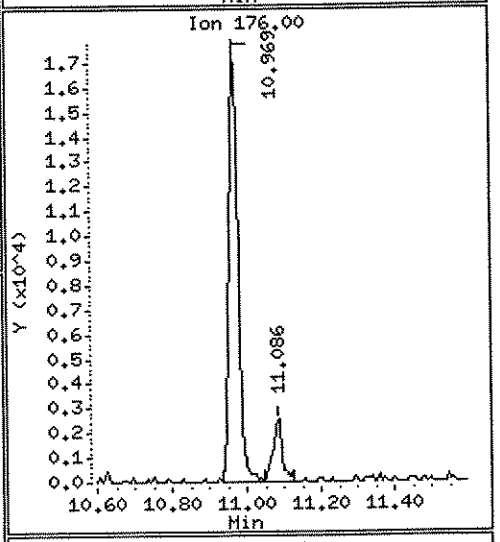
Concentration: 132.5 UG/KG

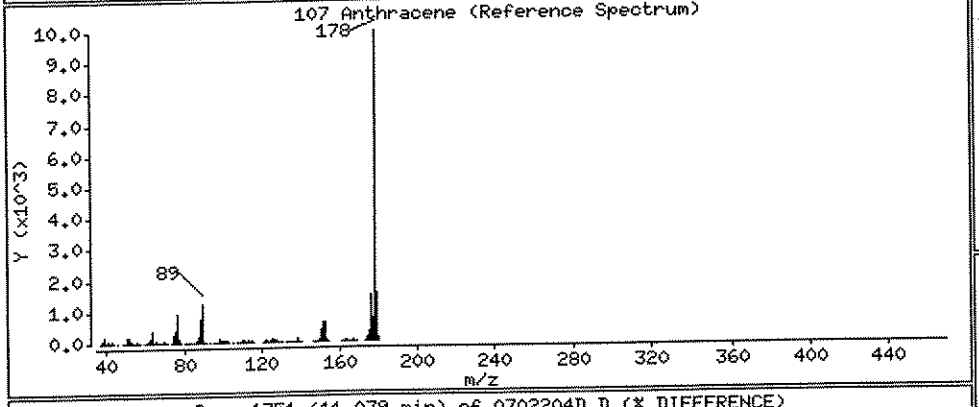
107 Anthracene

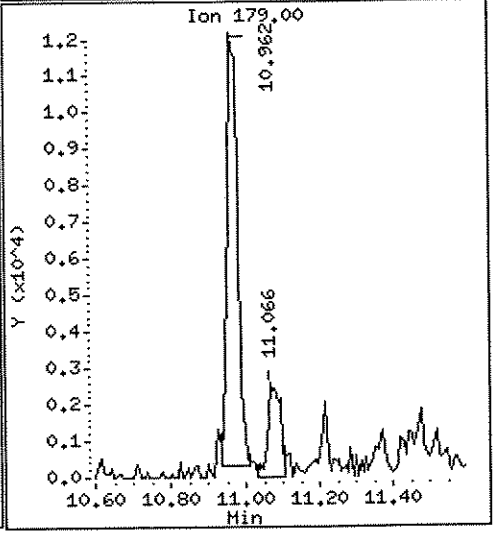


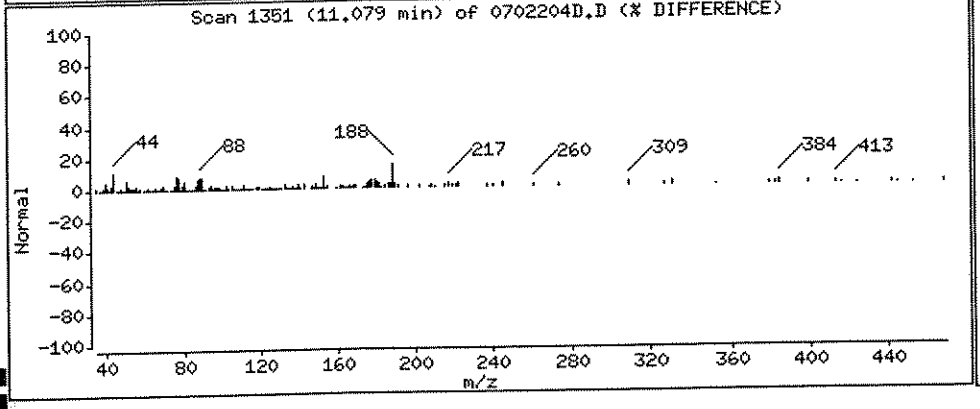












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

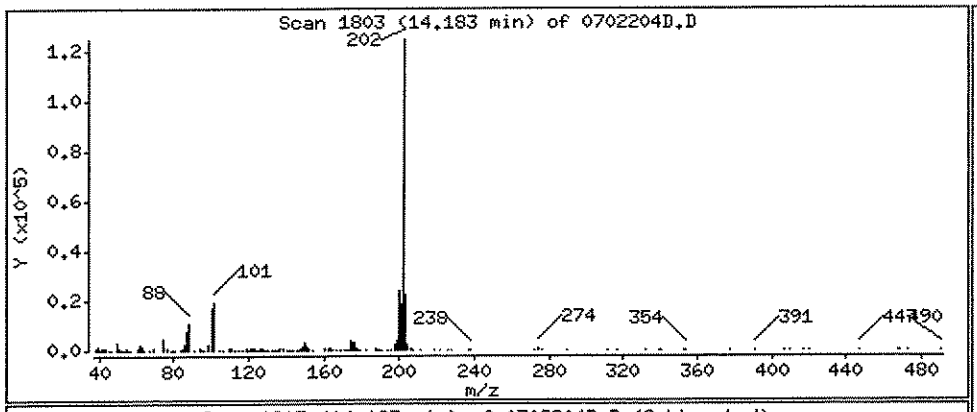
Client ID: 51CFM02S060706 Instrument: bna1.i

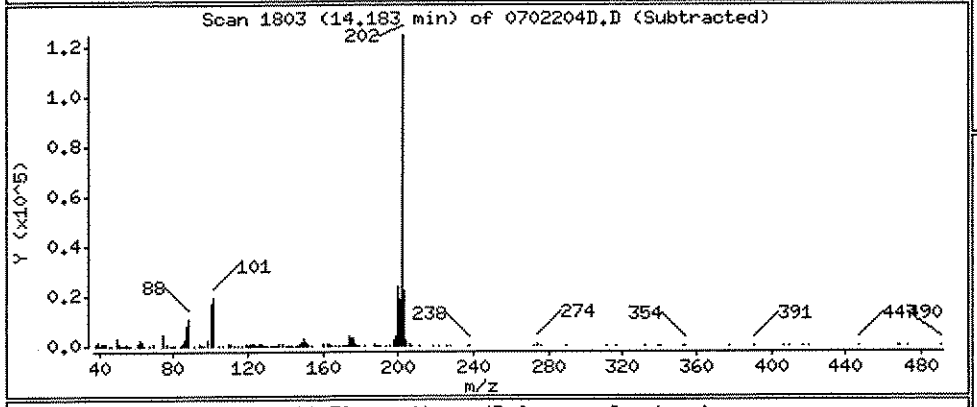
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

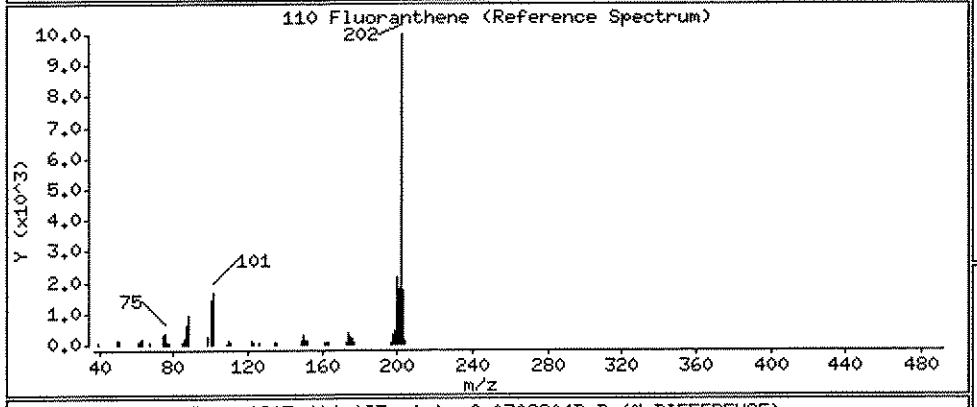
Volume Injected (uL): 0.5 Operator: SDB

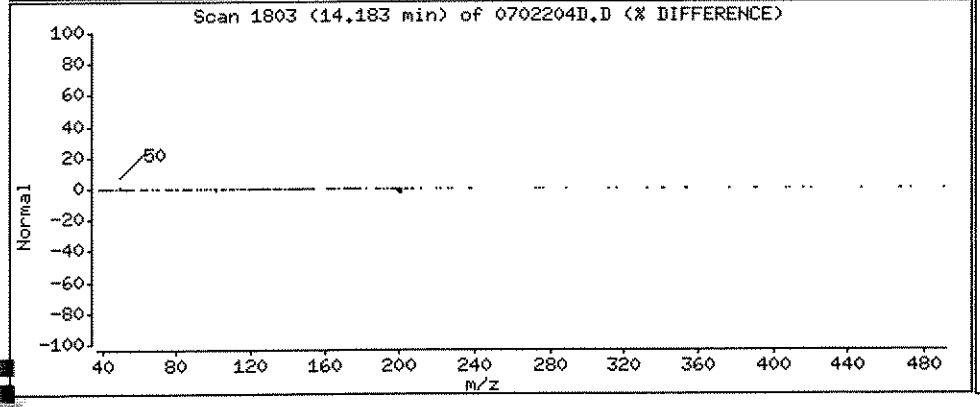
Column phase: fused silica Column diameter: 0.25

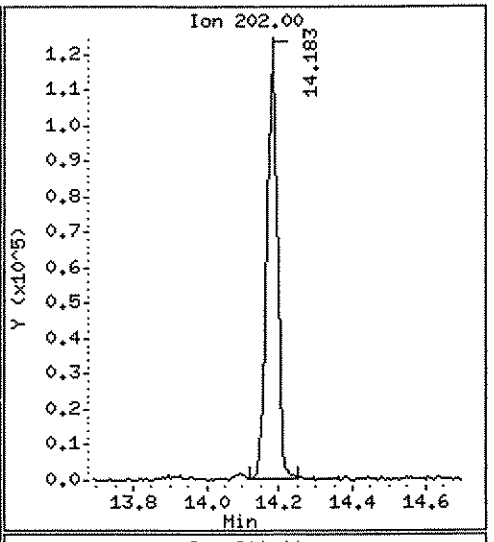
110 Fluoranthene Concentration: 1356 UG/KG

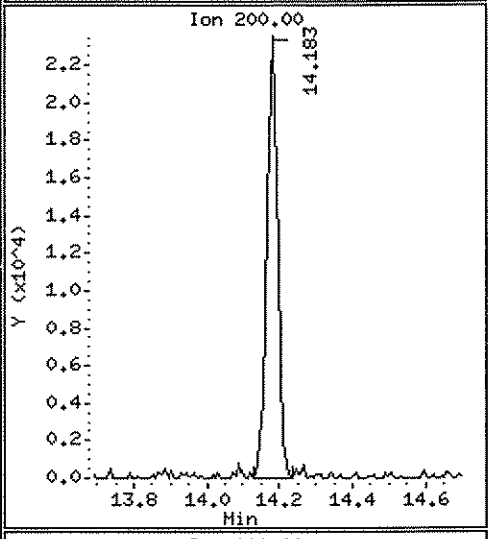


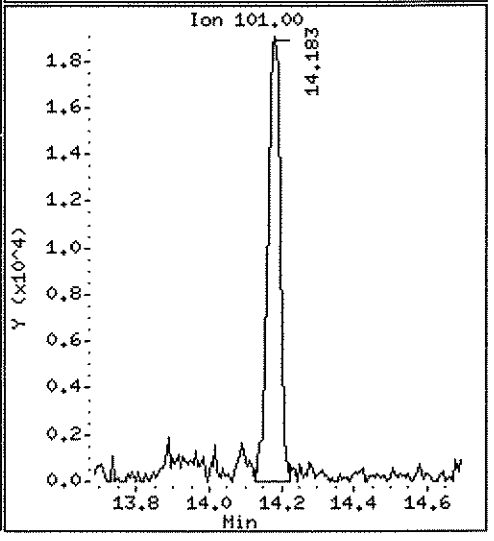












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

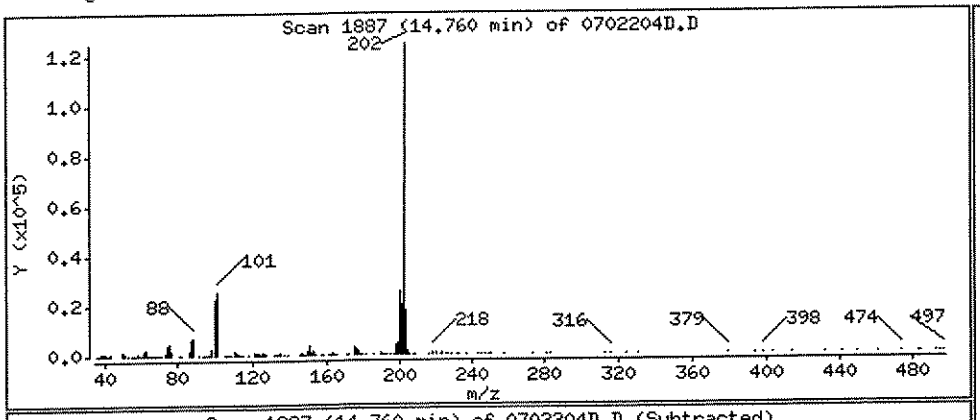
Operator: SDB

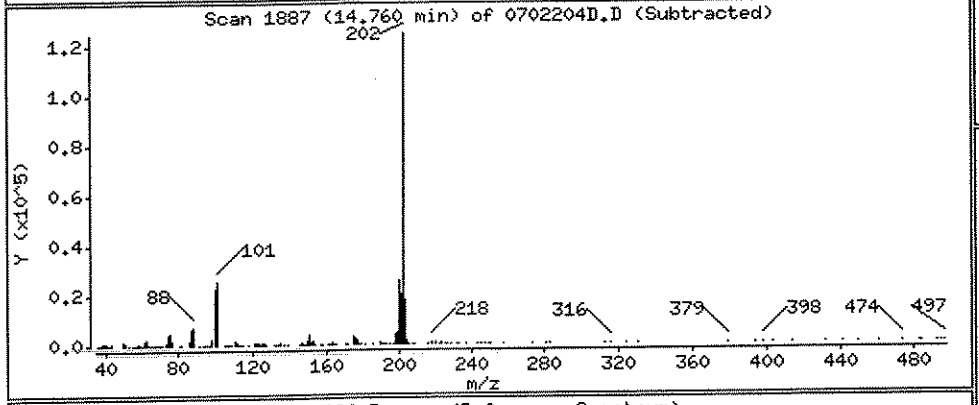
Column phase: fused silica

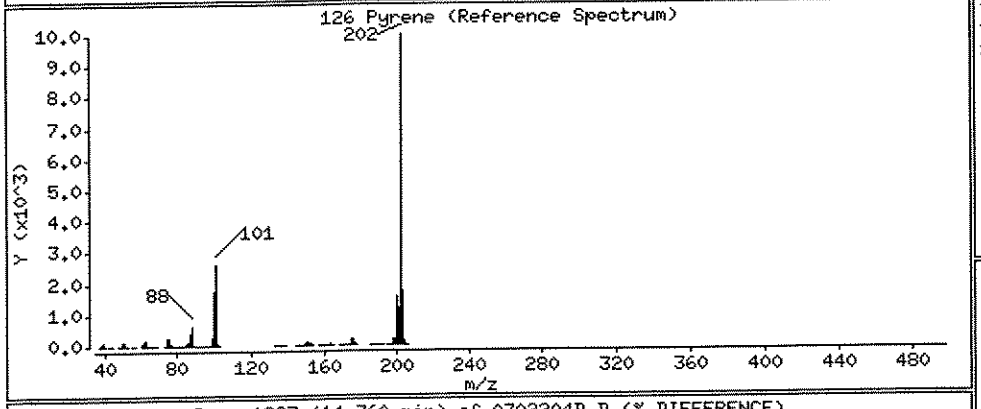
Column diameter: 0.25

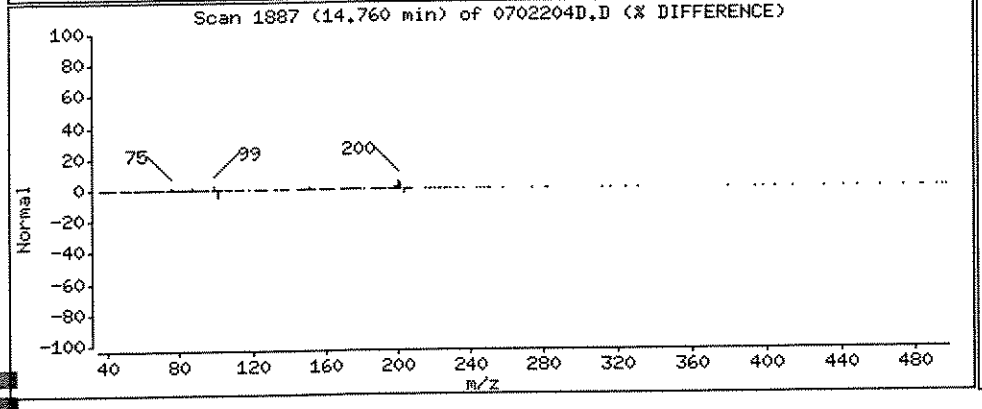
126 Pyrene

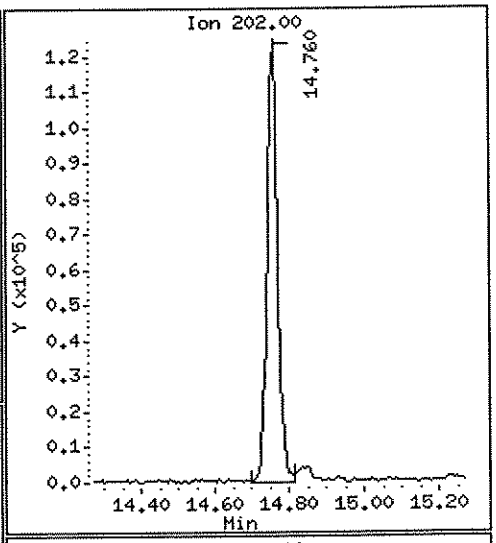
Concentration: 1366 UG/KG

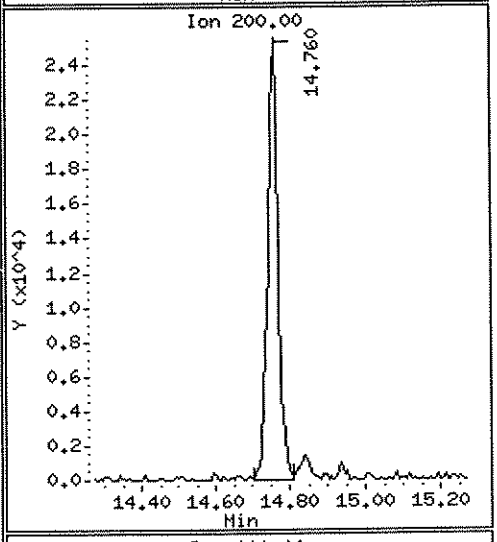


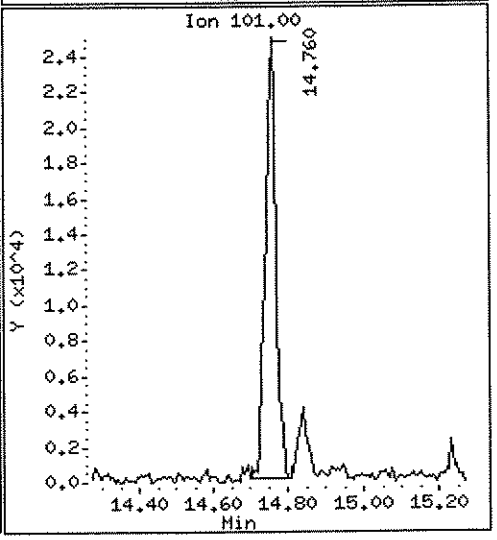












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

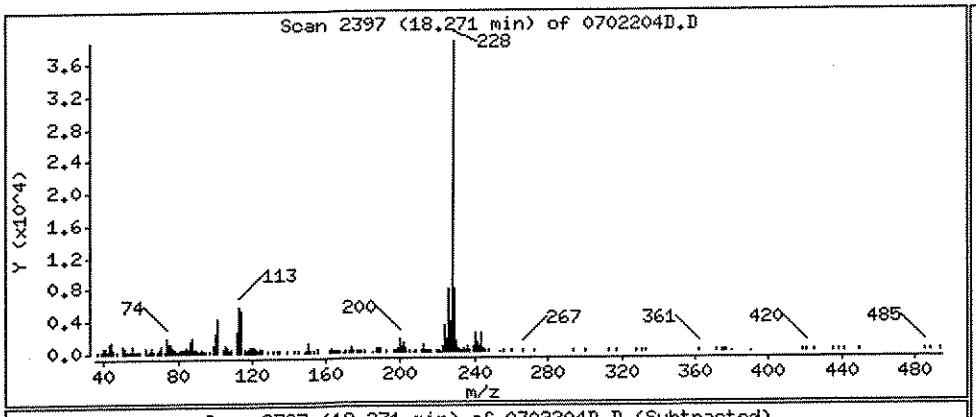
Client ID: 51CFM02S060706 Instrument: bna1.i

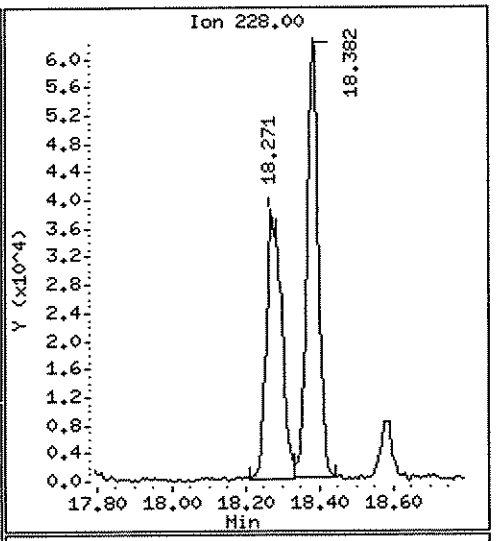
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

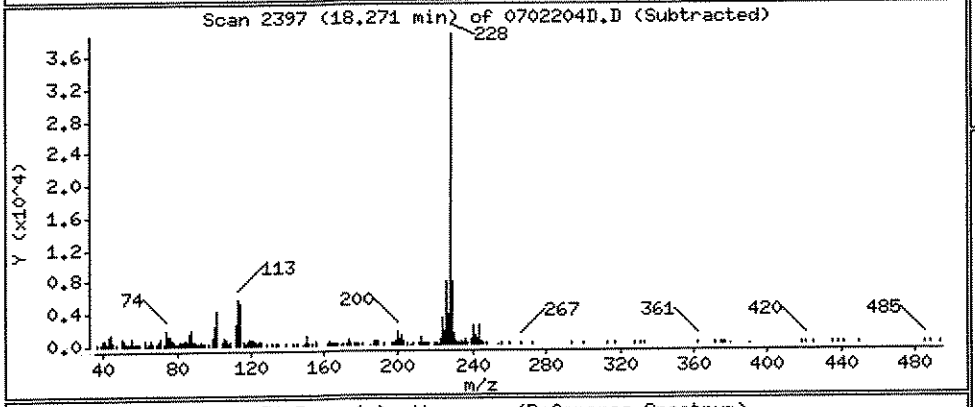
Volume Injected (uL): 0.5 Operator: SDB

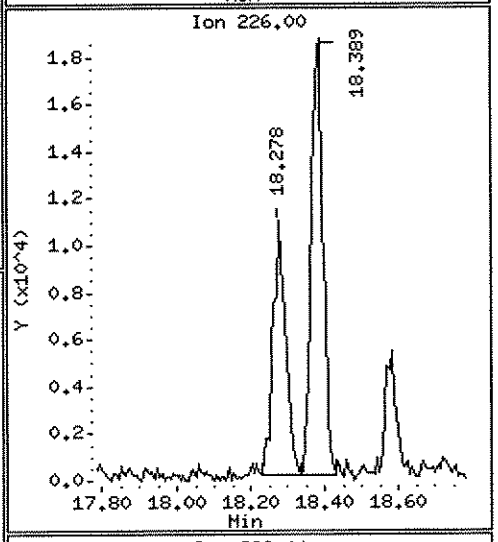
Column phase: fused silica Column diameter: 0.25

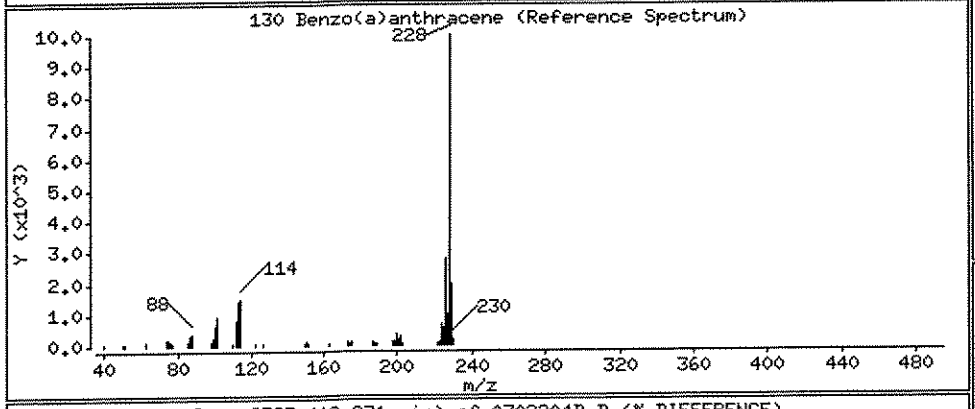
130 Benzo(a)anthracene Concentration: 772.1 UG/KG

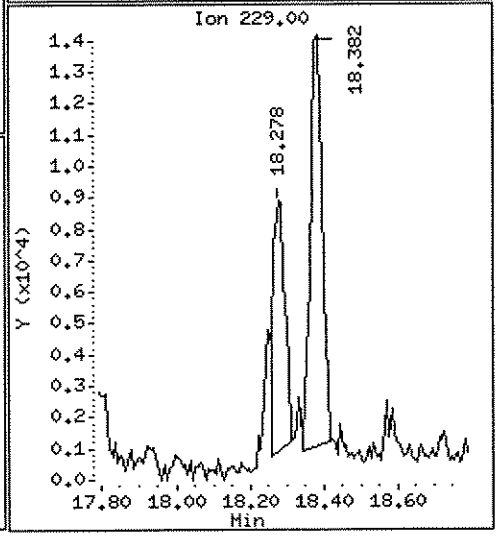


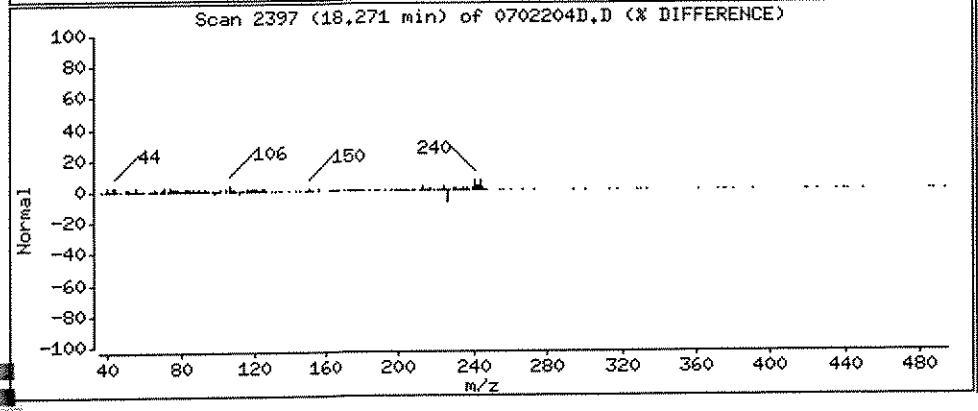












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

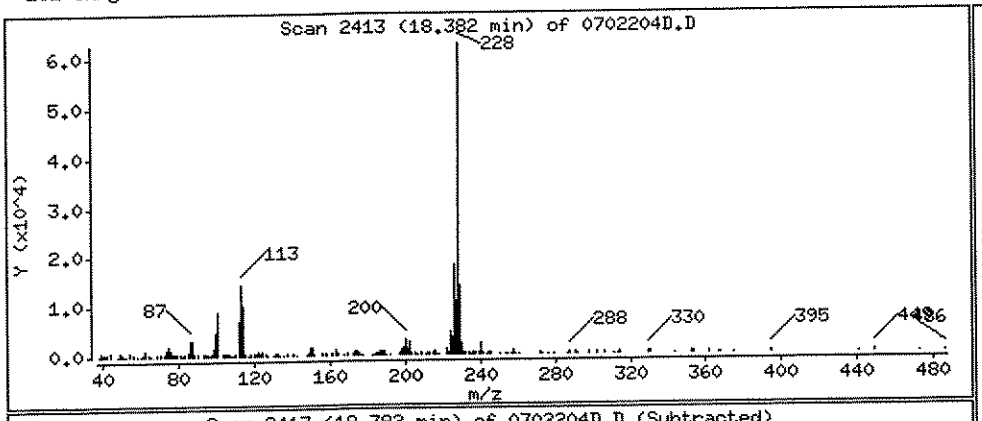
Operator: SDB

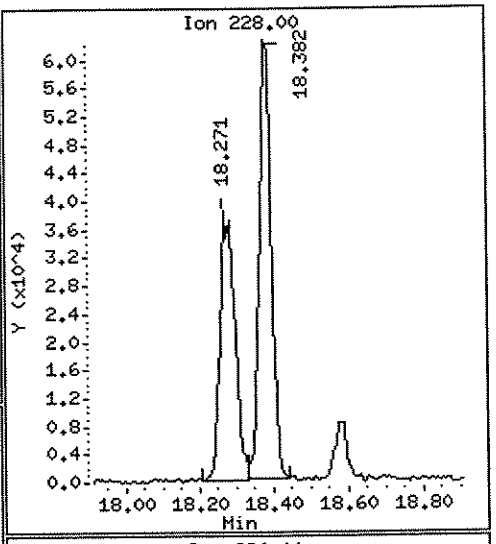
Column phase: fused silica

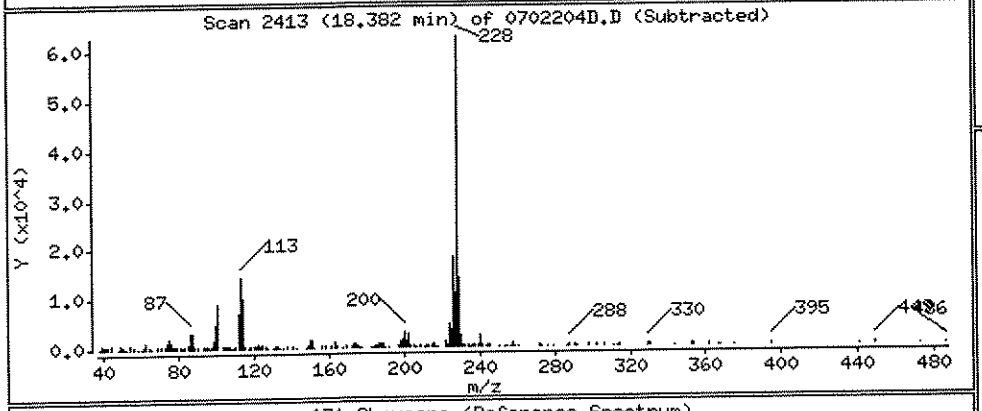
Column diameter: 0.25

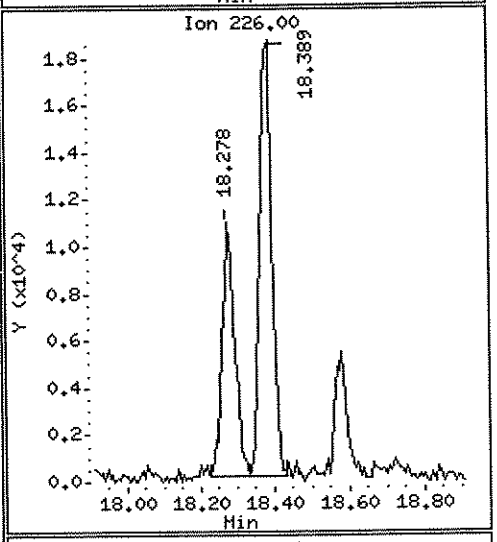
131 Chrysene

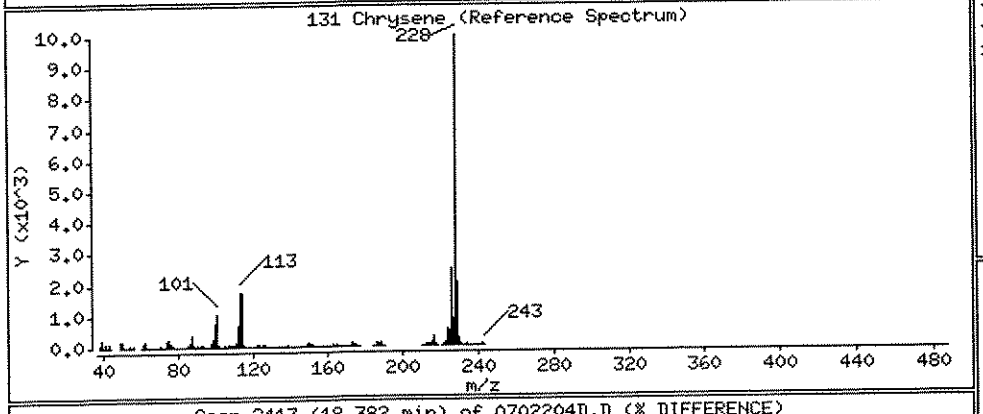
Concentration: 1041 UG/KG

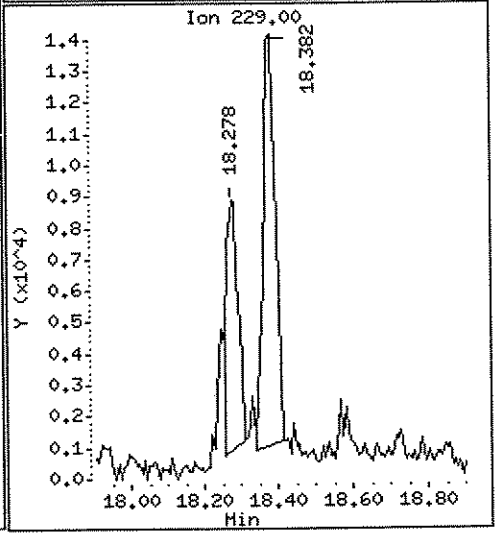


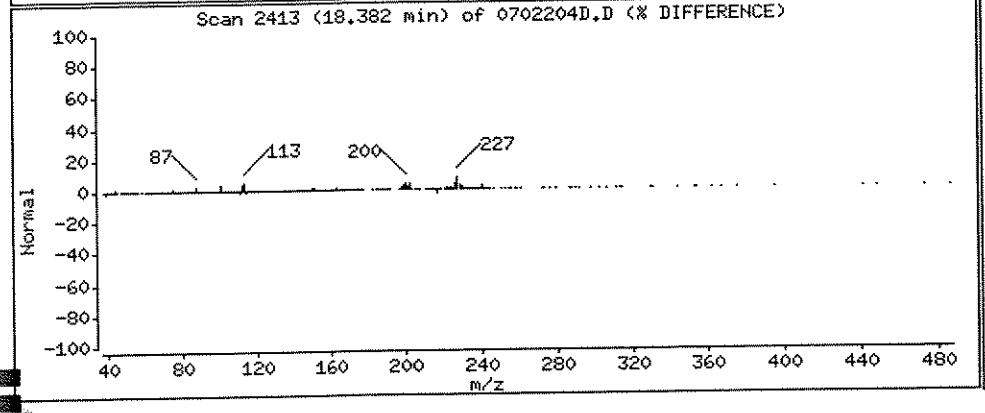












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

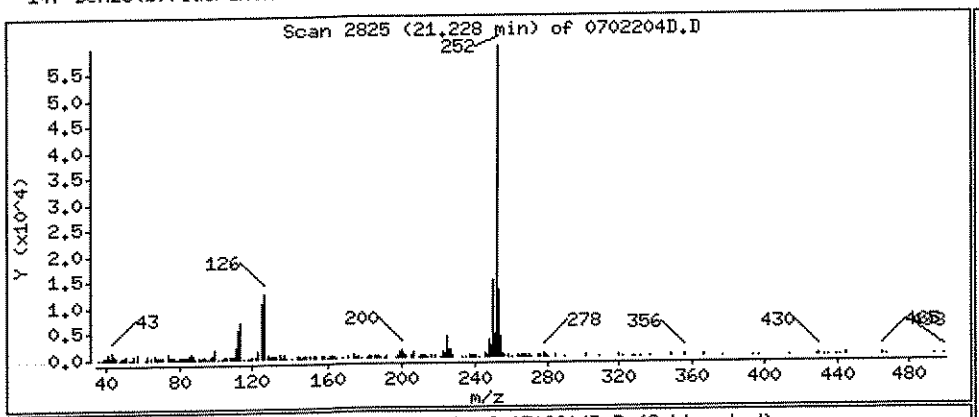
Operator: SDB

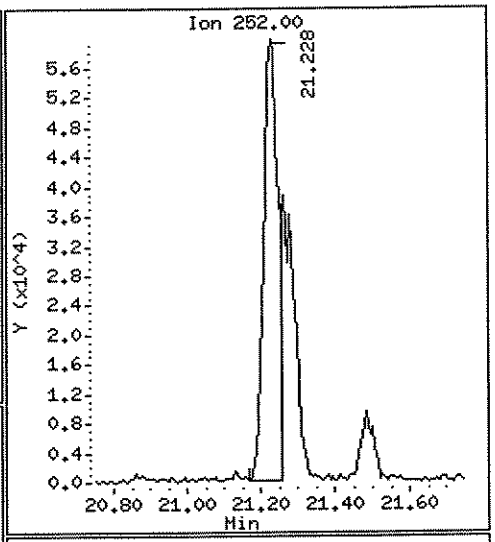
Column phase: fused silica

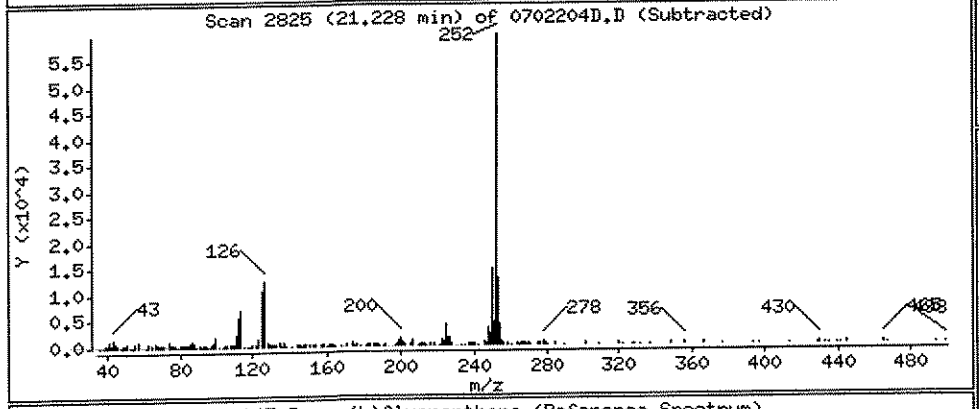
Column diameter: 0.25

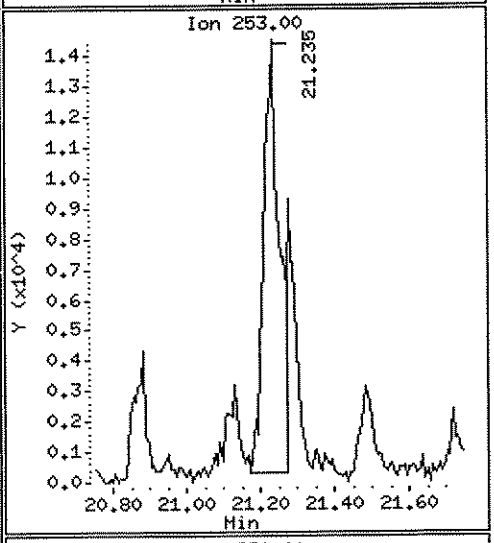
147 Benzo(b)fluoranthene

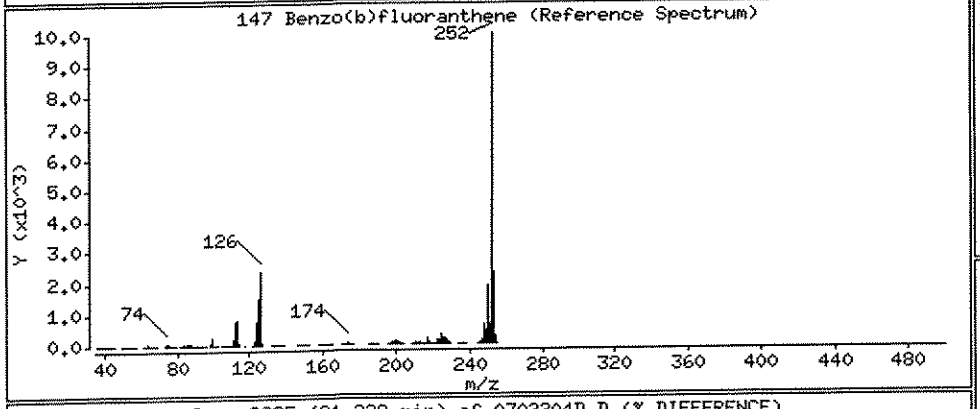
Concentration: 1242 UG/KG

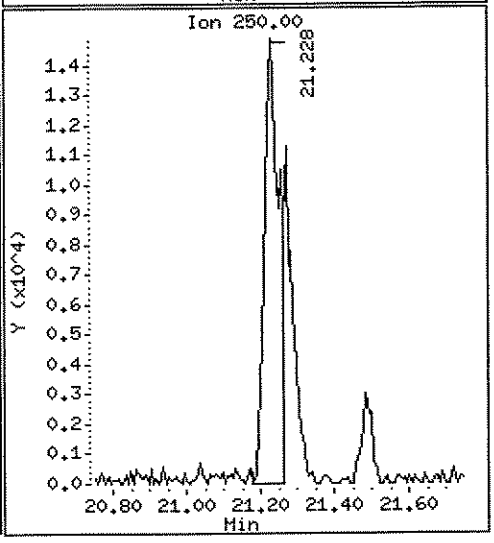


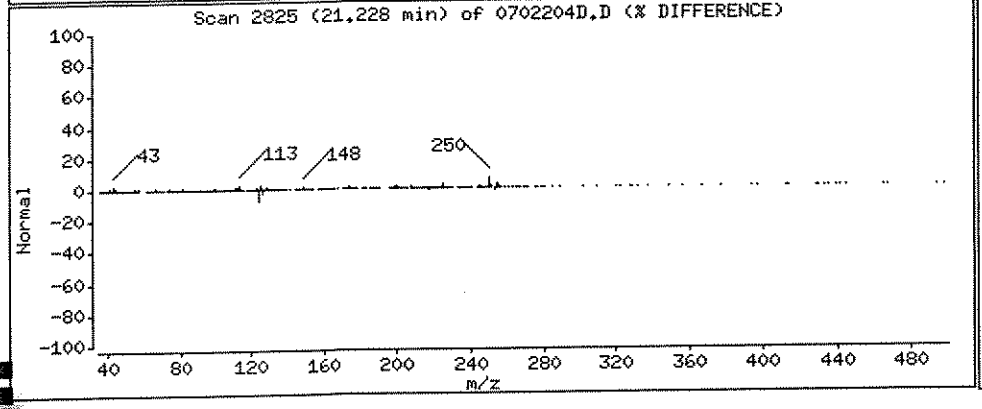












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Date : 11-JUL-2006 16:16

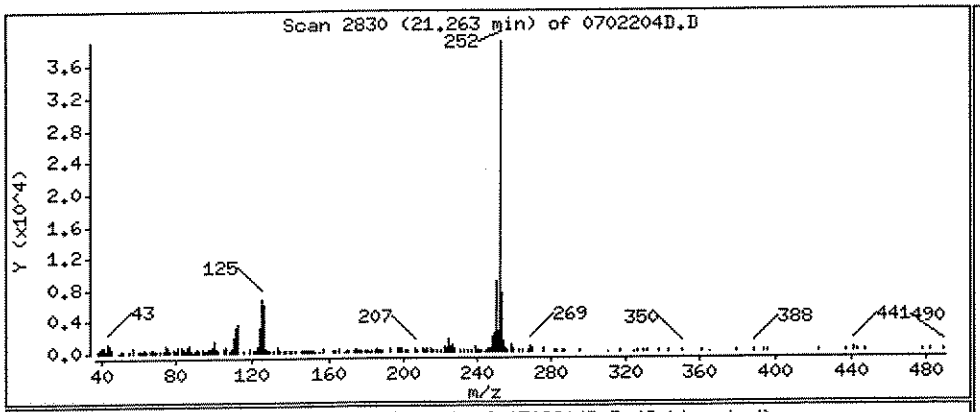
Client ID: 51CFM02S060706 Instrument: bna1.i

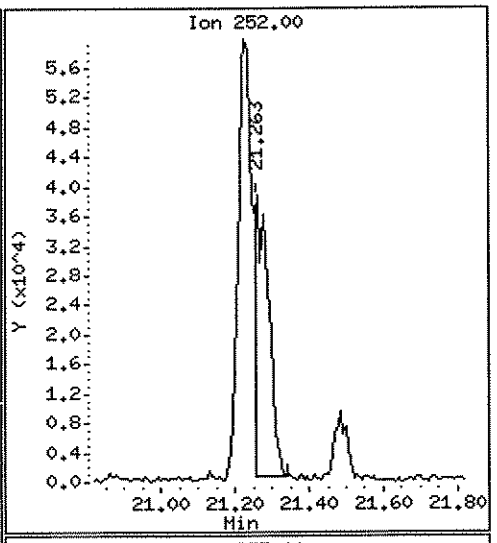
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

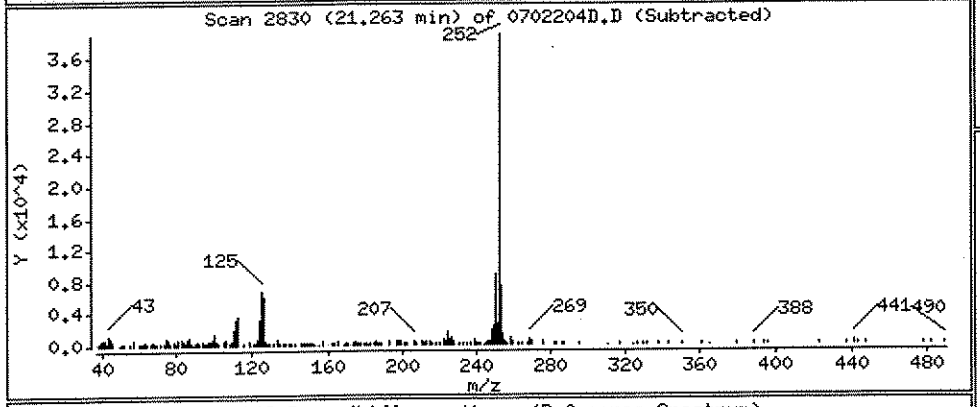
Volume Injected (uL): 0.5 Operator: SDB

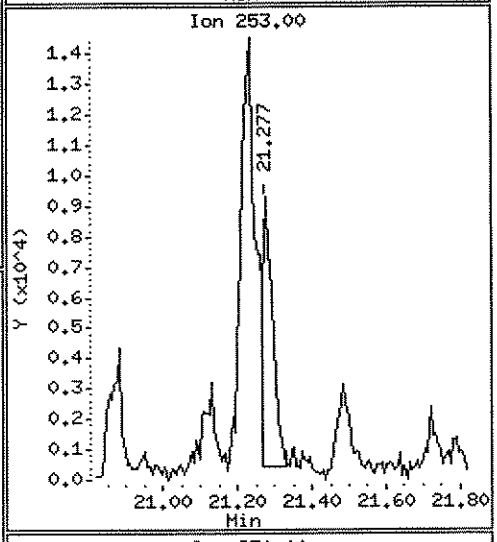
Column phase: fused silica Column diameter: 0.25

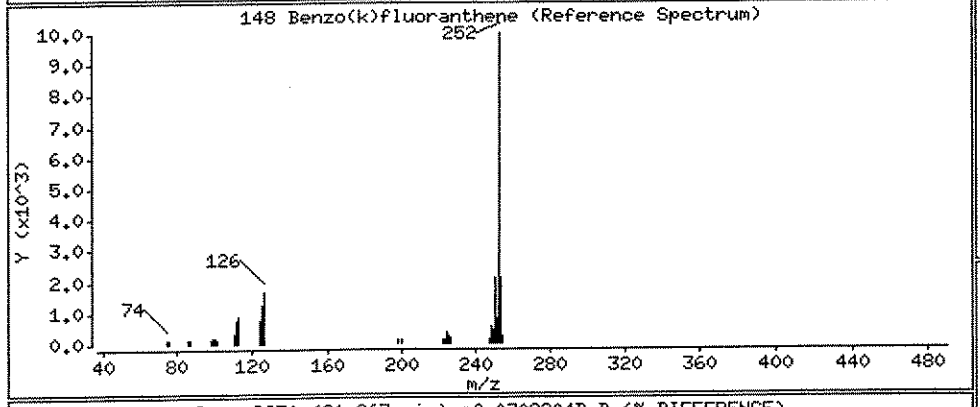
148 Benzo(k)fluoranthene Concentration: 735.5 UG/KG

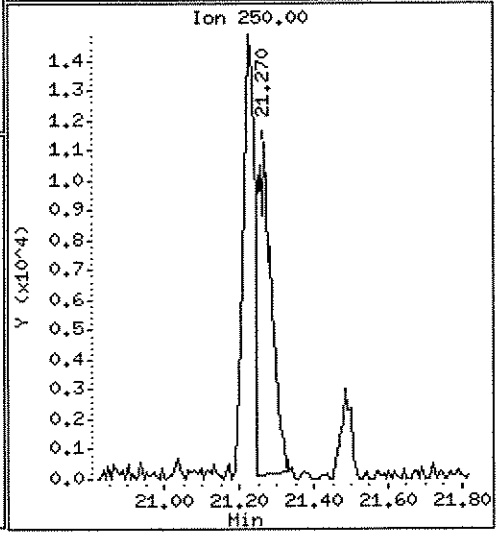


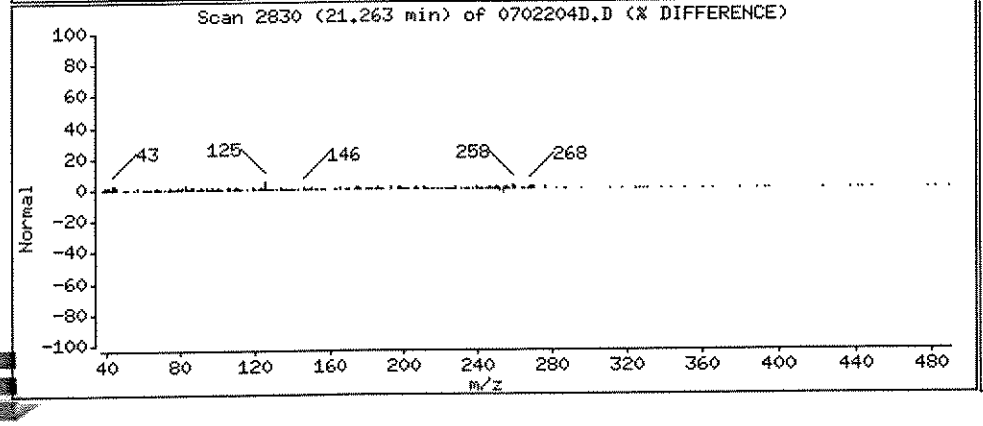












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Date : 11-JUL-2006 16:16

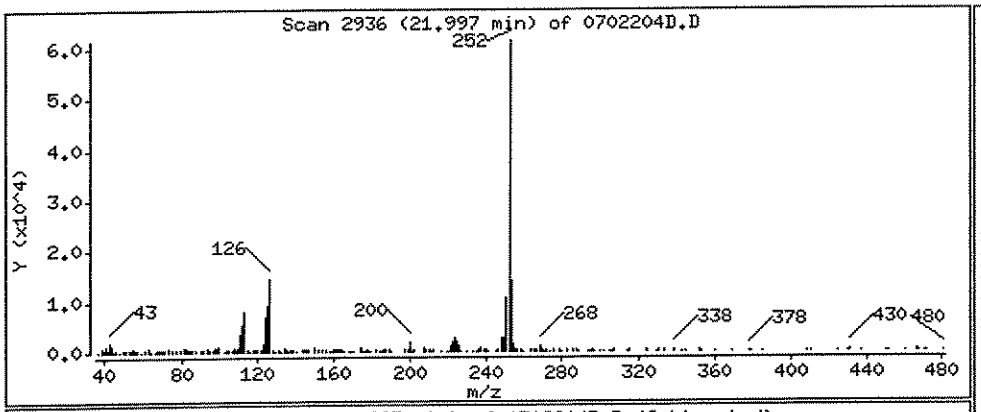
Client ID: 51CFM02S060706 Instrument: bna1.i

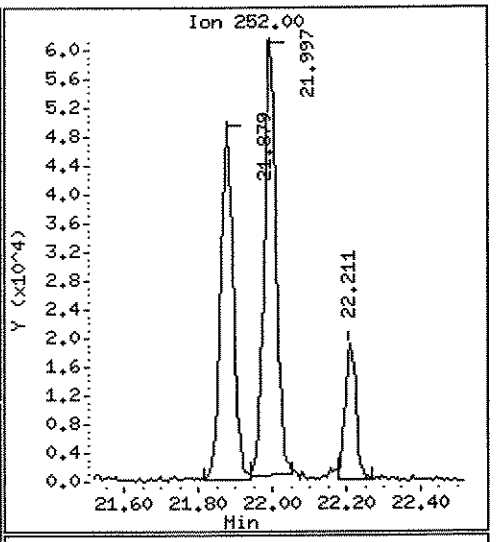
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

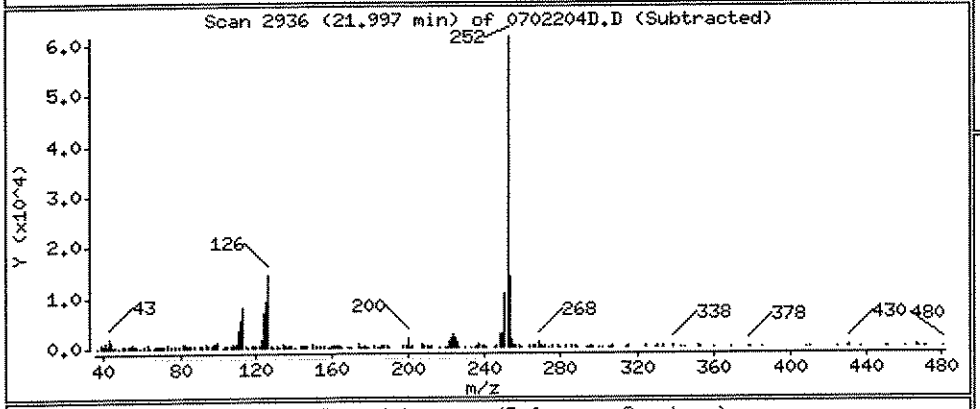
Volume Injected (uL): 0.5 Operator: SDB

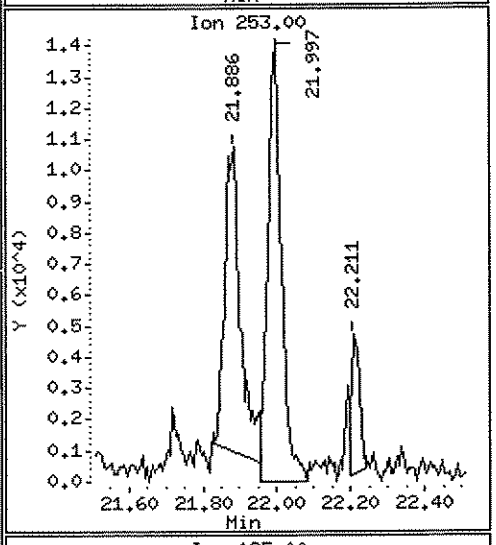
Column phase: fused silica Column diameter: 0.25

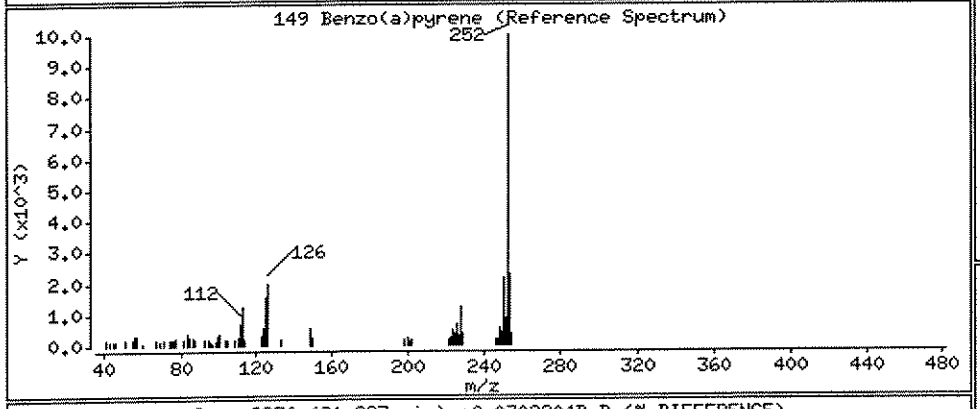
149 Benzo(a)pyrene Concentration: 1239 UG/KG

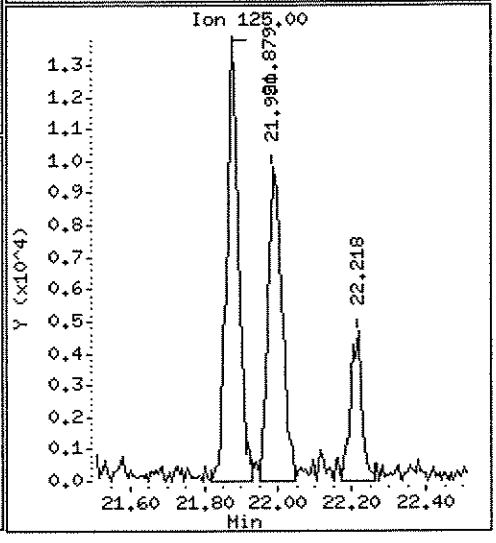


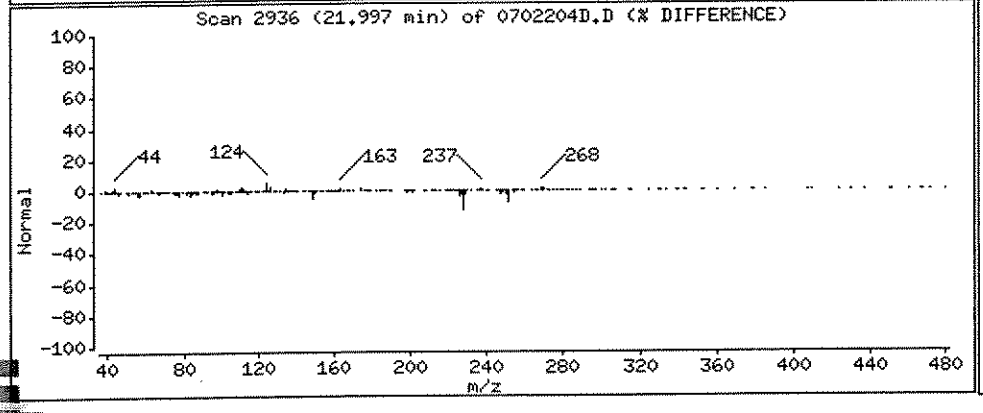












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

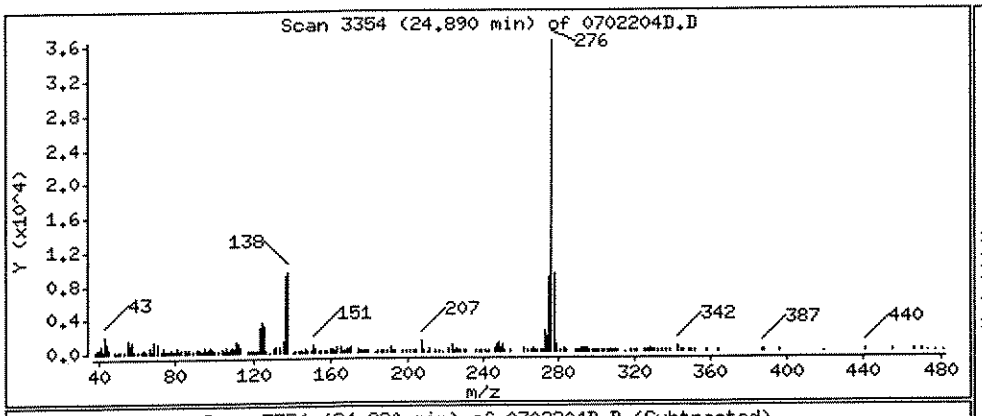
Client ID: 51CFM02S060706 Instrument: bna1.i

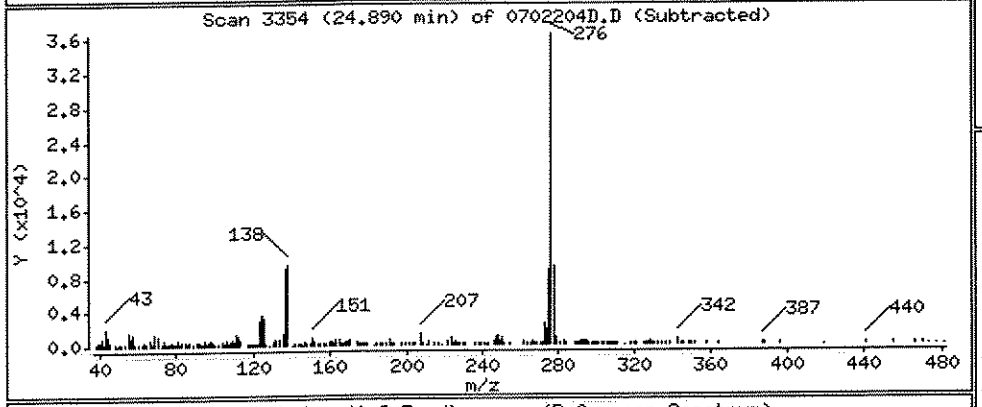
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

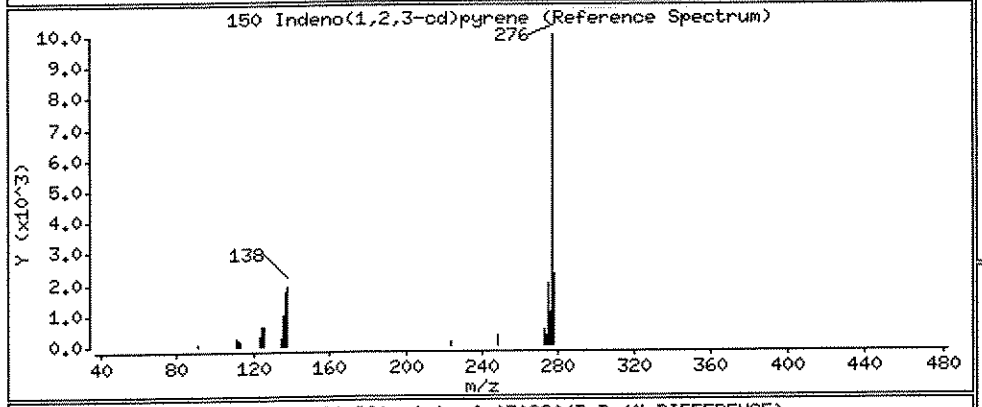
Volume Injected (uL): 0.5 Operator: SDB

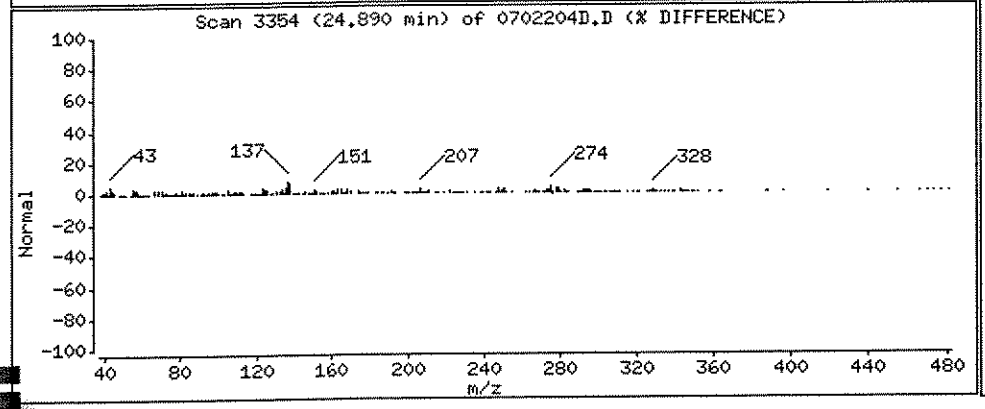
Column phase: fused silica Column diameter: 0.25

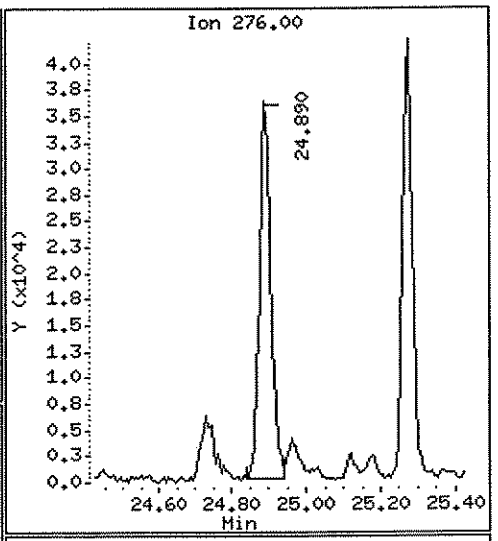
150 Indeno(1,2,3-cd)pyrene Concentration: 785.8 UG/KG

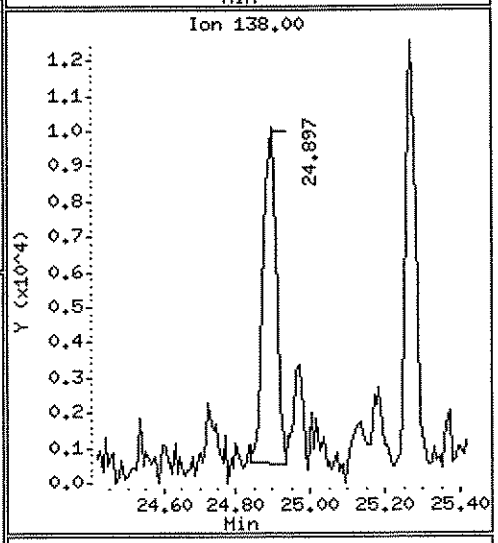


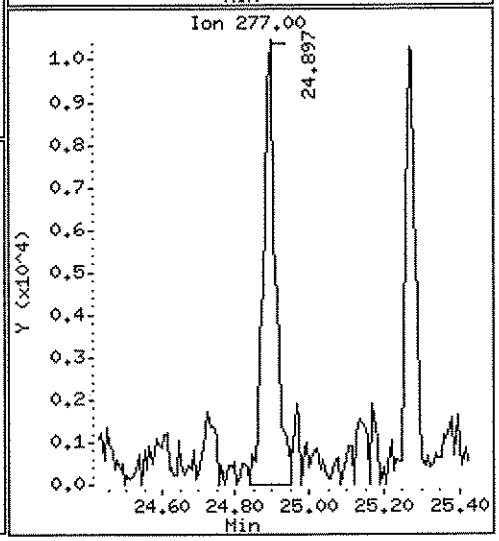












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

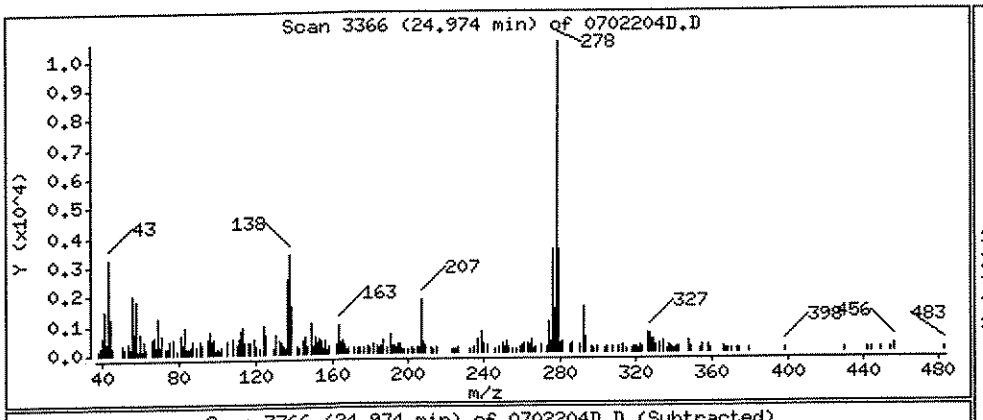
Operator: SDB

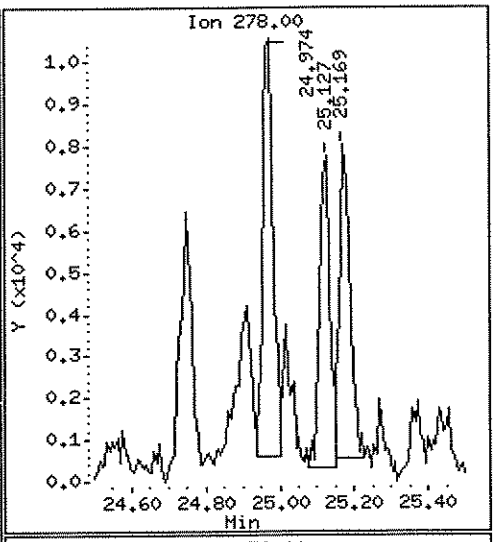
Column phase: fused silica

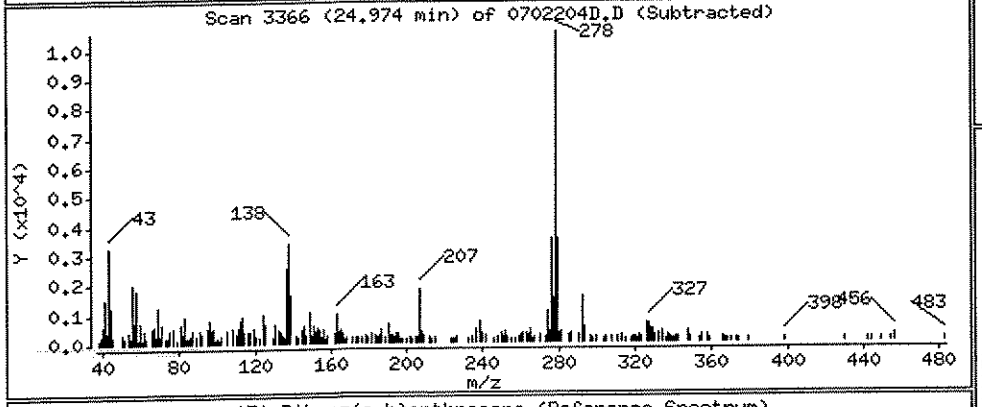
Column diameter: 0.25

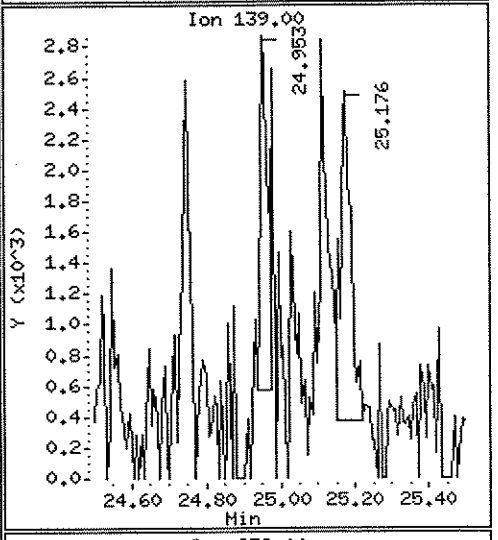
151 Dibenz(a,h)anthracene

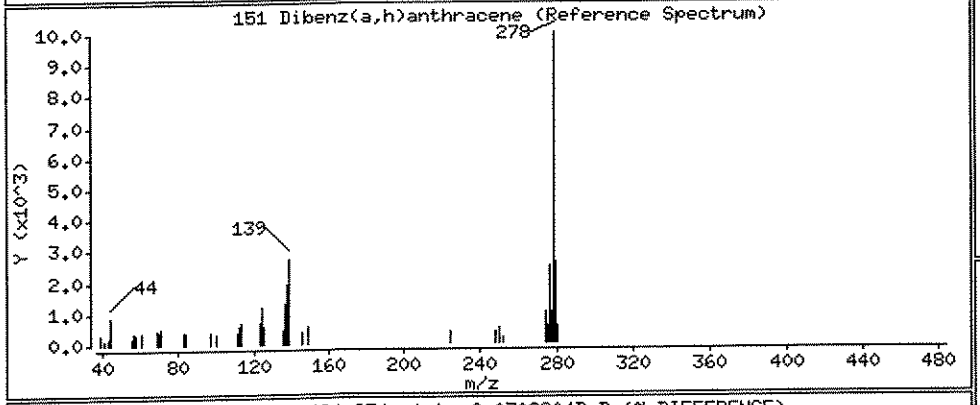
Concentration: 202.9 UG/KG

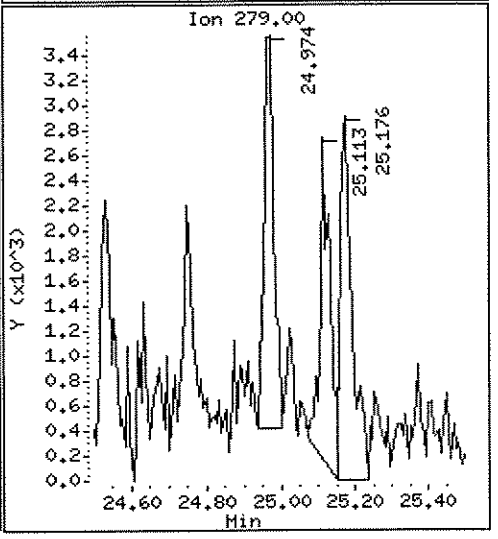


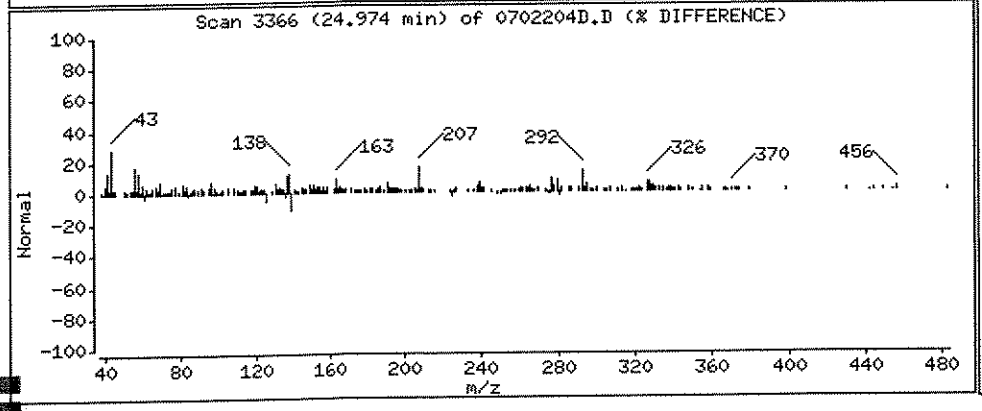












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Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

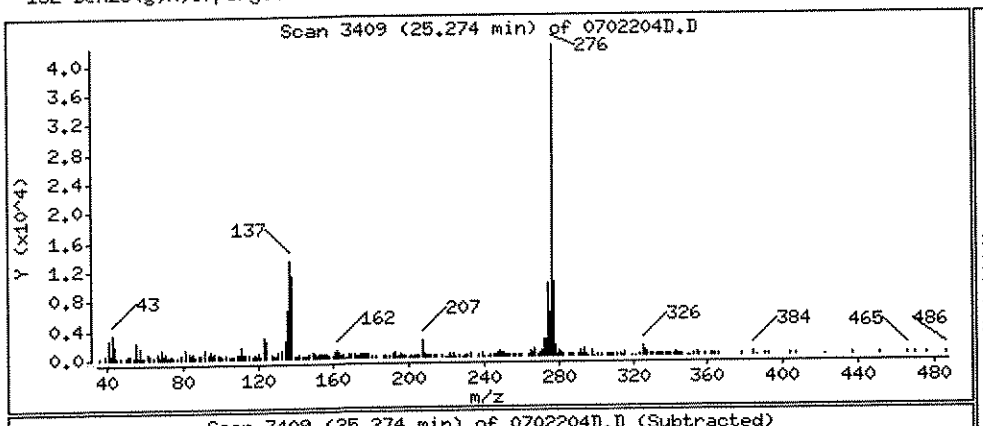
Operator: SDB

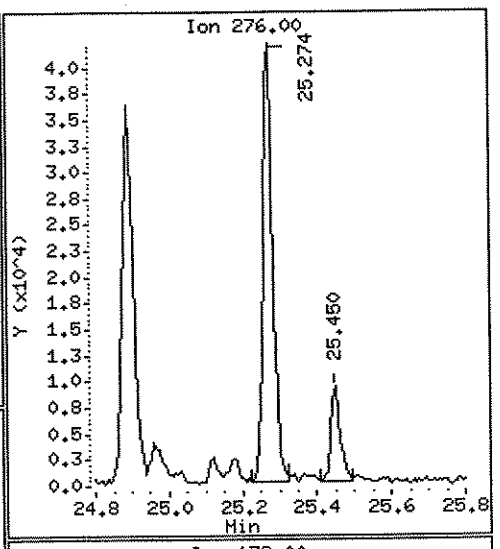
Column phase: fused silica

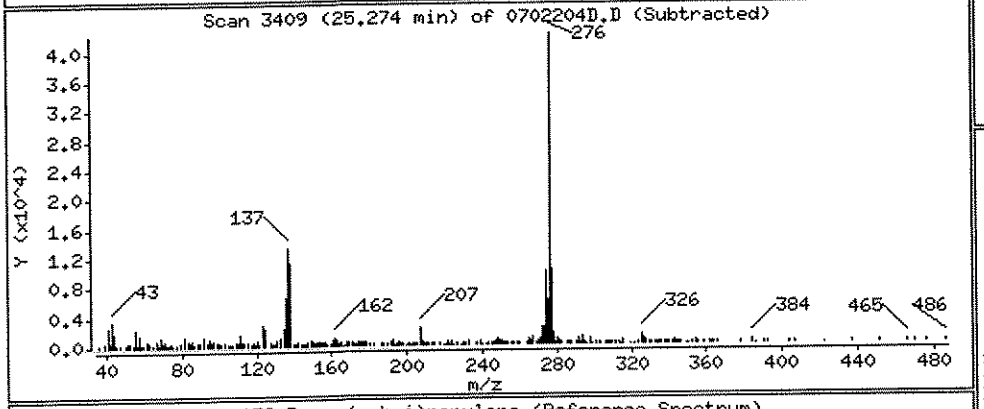
Column diameter: 0.25

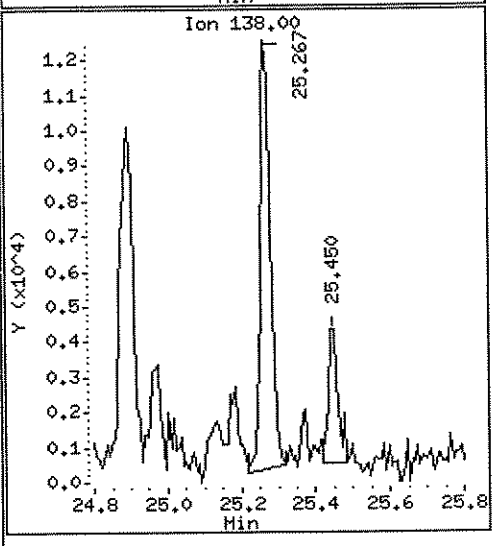
152 Benzo(g,h,i)perylene

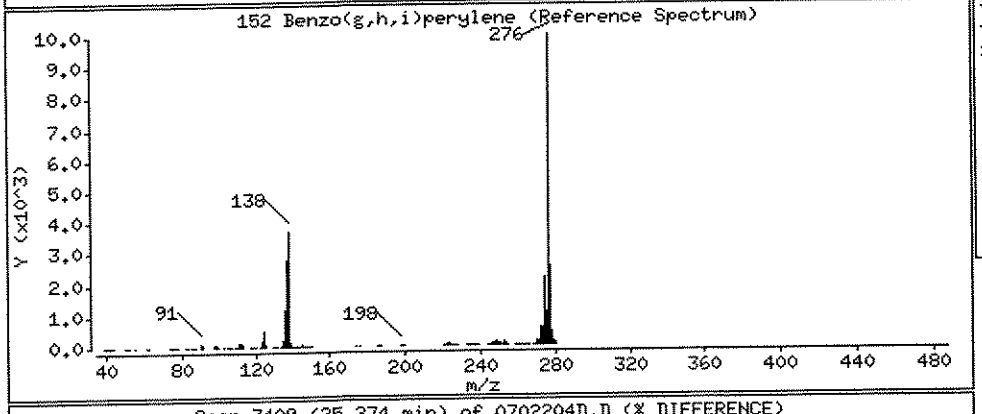
Concentration: 760.3 UG/KG

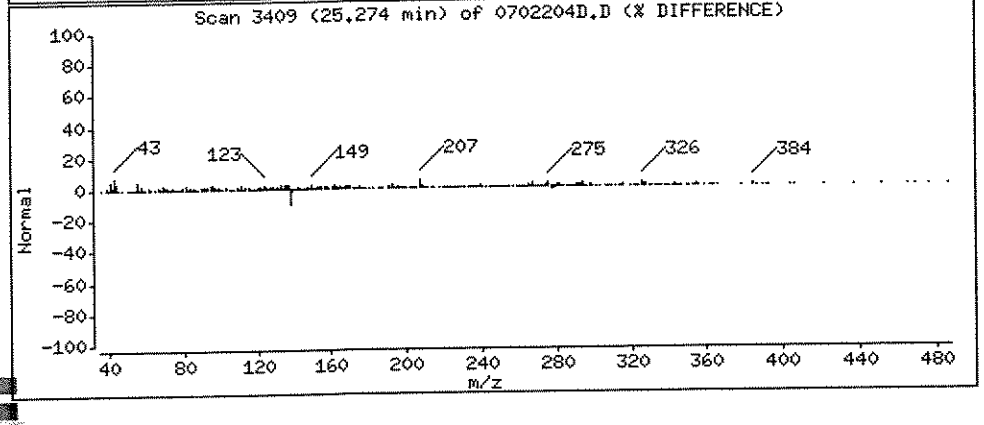












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:17

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	1800	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	2300	
56-55-3	Benzo(a)anthracene	21	170	7600	E
205-99-2	Benzo(b)fluoranthene	21	170	8800	E
207-08-9	Benzo(k)fluoranthene	21	170	5300	E
191-24-2	Benzo(g,h,i)perylene	21	170	2400	
50-32-8	Benzo(a)pyrene	21	100	7300	E
218-01-9	Chrysene	21	170	9400	E
53-70-3	Dibenz(a,h)anthracene	21	100	820	
206-44-0	Fluoranthene	21	170	13000	E
86-73-7	Fluorene	21	170	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	2800	
91-57-6	2-Methylnaphthalene	21	170	540	
90-12-0	1-Methylnaphthalene	52	170	350	
91-20-3	Naphthalene	21	170	240	
85-01-8	Phenanthrene	21	170	12000	E
129-00-0	Pyrene	21	170	18000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 10-JUL-2006 16:17
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.900	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.271	4.276	(1.000)	376135	40.0000	
* 31 Naphthalene-d8	136	5.275	5.287	(1.000)	1244549	40.0000	
$ 32 Nitrobenzene-d5	82	4.704	4.709	(0.892)	803923	59.1737	2057
47 Naphthalene	128	5.296	5.307	(1.004)	209474	6.76961	235.3
51 2-Methylnaphthalene	141	6.055	6.062	(1.148)	274550	15.4412	536.7
52 1-Methylnaphthalene	141	6.192	6.203	(1.174)	170939	10.0711	350.0
* 65 Acenaphthene-d10	164	7.711	7.719	(1.000)	622642	40.0000	
$ 70 2-Fluorobiphenyl	172	6.614	6.617	(0.858)	1097950	55.4117	1926
76 Acenaphthene	153	7.766	7.781	(1.007)	931005	51.8097	1801
84 Fluorene	166	8.809	8.814	(1.142)	907085	47.1958	1640
* 97 Phenanthrene-d10	188	11.034	11.020	(1.000)	710268	40.0000	
106 Phenanthrene	178	11.131	11.082	(1.009)	7048759	348.065	12100(A)
107 Anthracene	178	11.208	11.192	(1.016)	1313379	65.6908	2283

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Report Date: 11-Jul-2006 13:57

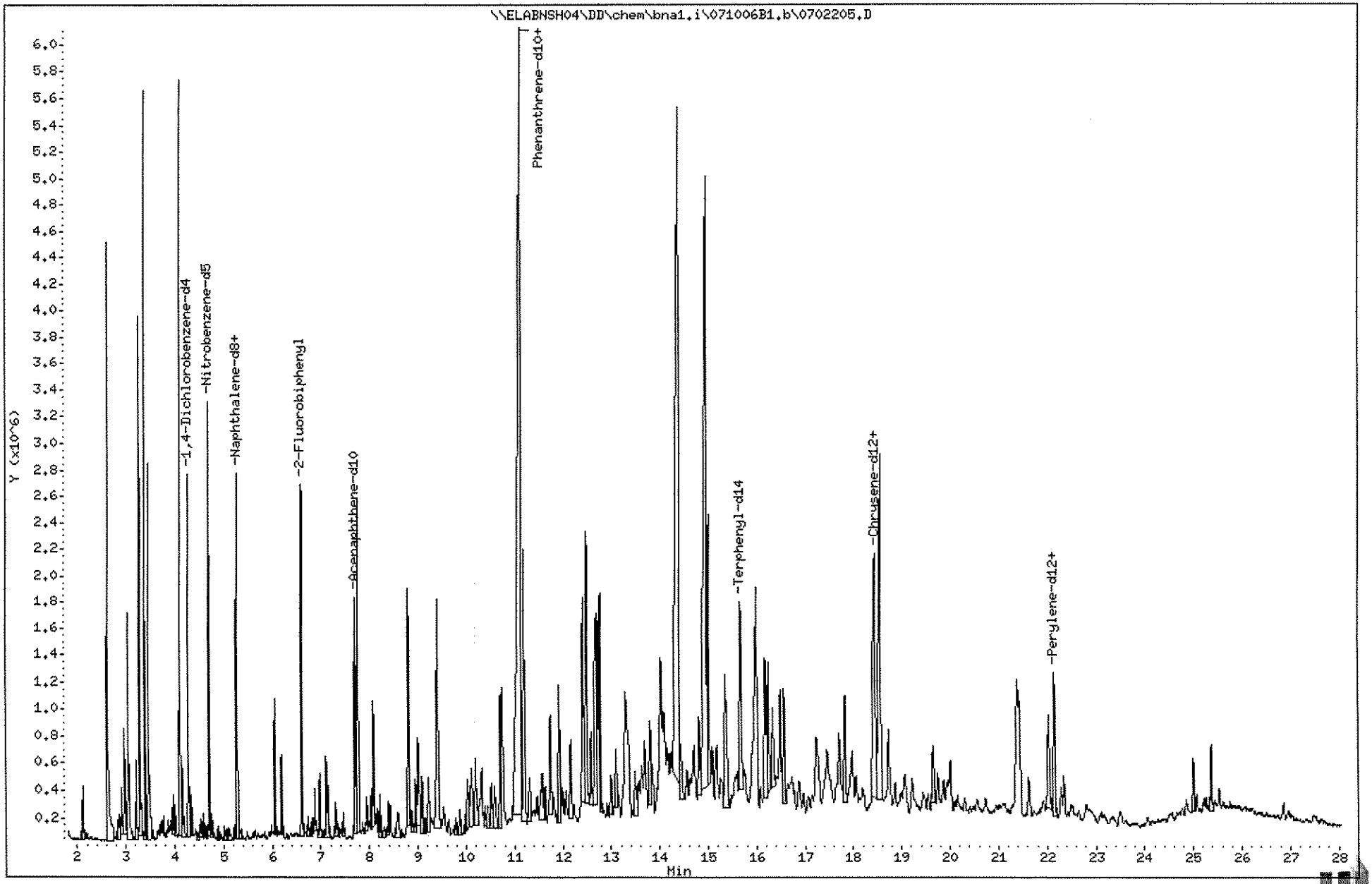
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)	
110 Fluoranthene	202	14.394	14.296	(1.305)	7606398	379.379	13190(A)	DLA
* 124 Chrysene-d12	240	18.477	18.441	(1.000)	299270	40.0000		
126 Pyrene	202	14.967	14.878	(0.810)	6328526	529.504	18400(A)	DLA
$ 127 Terphenyl-d14	244	15.670	15.647	(0.848)	719509	95.2114	3309	
130 Benzo(a)anthracene	228	18.448	18.400	(0.998)	2103881	218.188	7584(A)	DLA
131 Chrysene	228	18.567	18.510	(1.005)	2372504	269.388	9364(A)	DLA
* 145 Perylene-d12	264	22.290	22.273	(1.000)	160313	40.0000		
147 Benzo(b)fluoranthene	252	21.395	21.352	(0.960)	1243502	251.806	8752(AM)	DLA
148 Benzo(k)fluoranthene	252	21.438	21.421	(0.962)	779255	152.093	5286(AM)	DLA
149 Benzo(a)pyrene	252	22.156	22.121	(0.994)	892570	209.605	7286(A)	DLA
150 Indeno(1,2,3-cd)pyrene	276	25.005	24.990	(1.122)	288661	79.4520	2762	
151 Dibenz(a,h)anthracene	278	25.068	25.065	(1.125)	86441	23.6334	821.5	
152 Benzo(g,h,i)perylene	276	25.373	25.361	(1.138)	256558	68.0475	2365	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Date : 10-JUL-2006 16:17
Client ID: 51CFM03S060706
Instrument: bna1.i
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000108



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

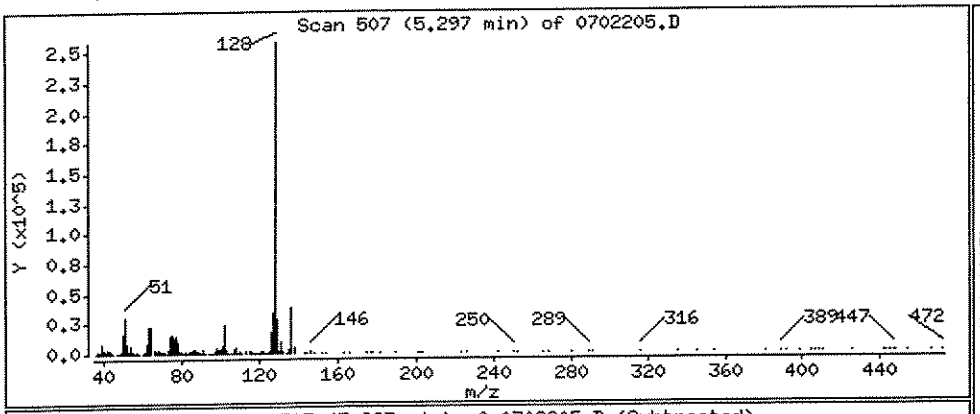
Operator: SDB

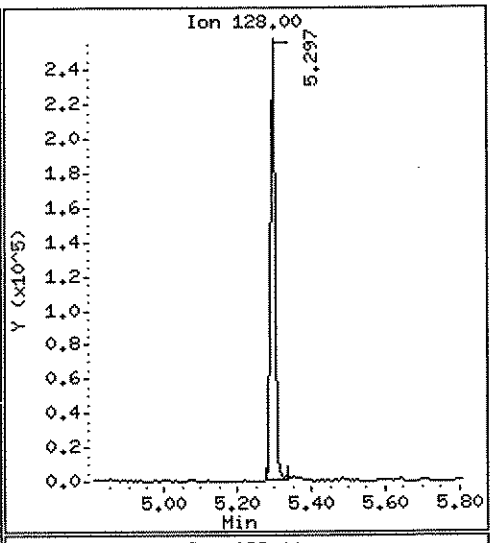
Column phase: fused silica

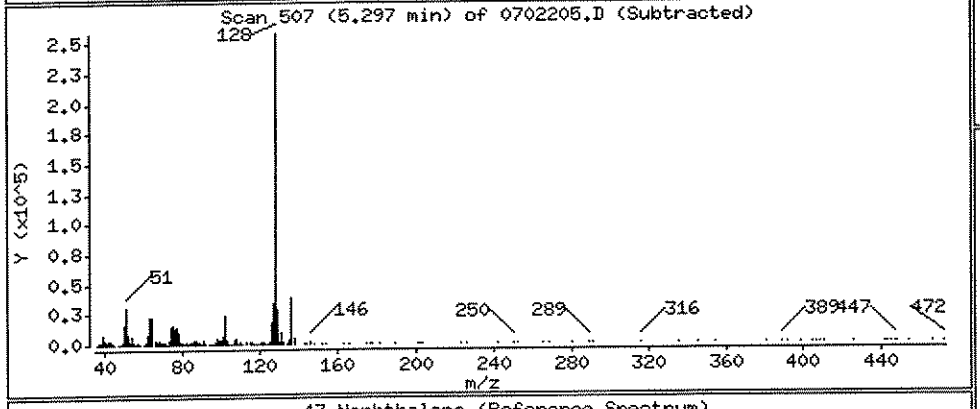
Column diameter: 0.25

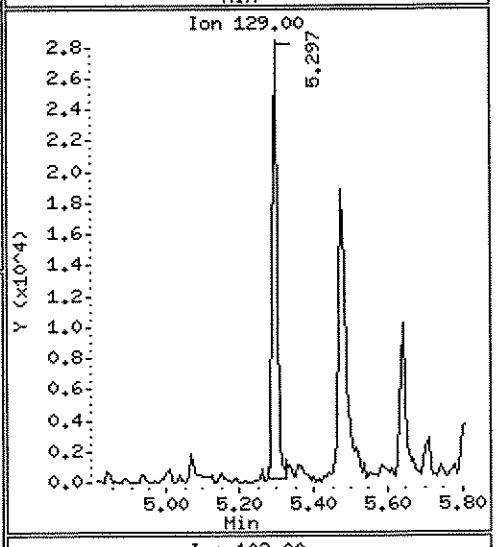
47 Naphthalene

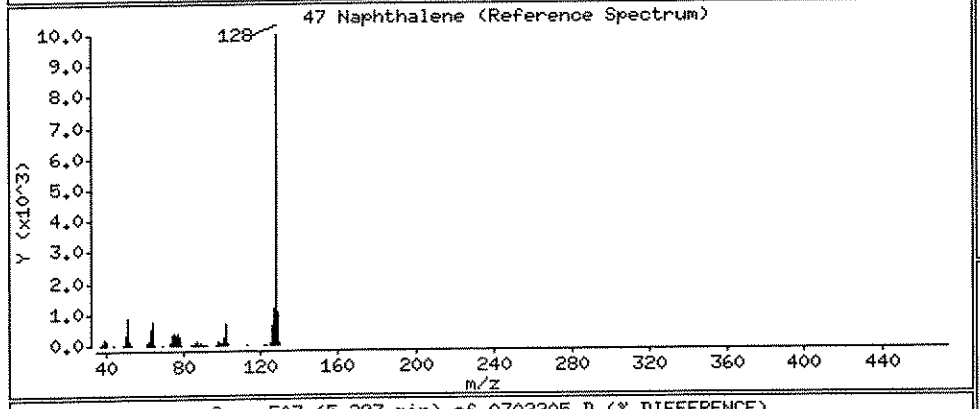
Concentration: 235.3 UG/KG

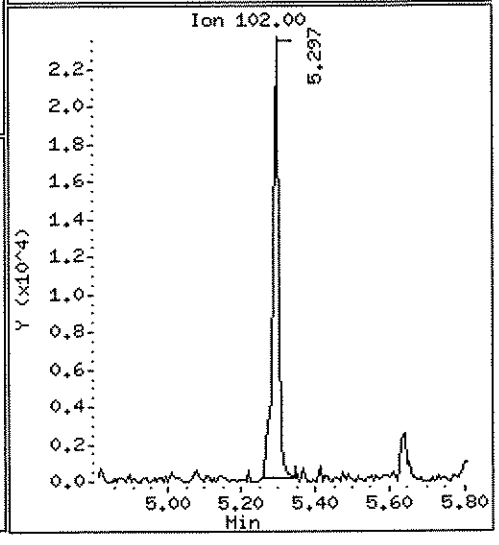


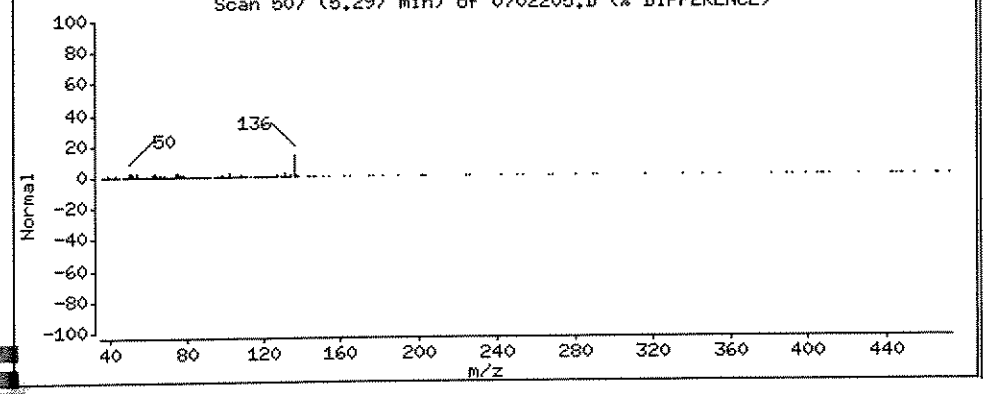












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

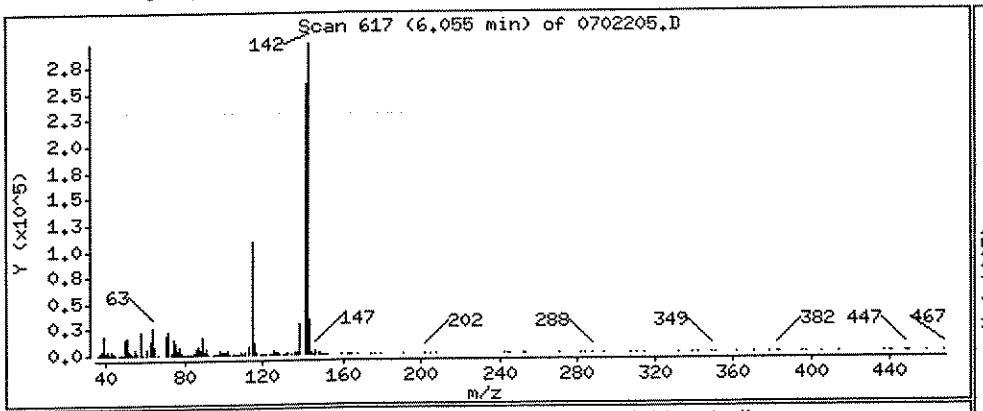
Operator: SDB

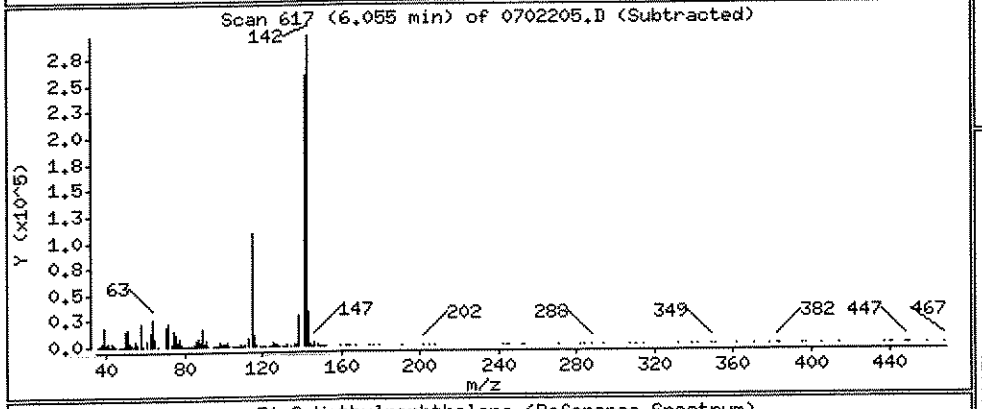
Column phase: fused silica

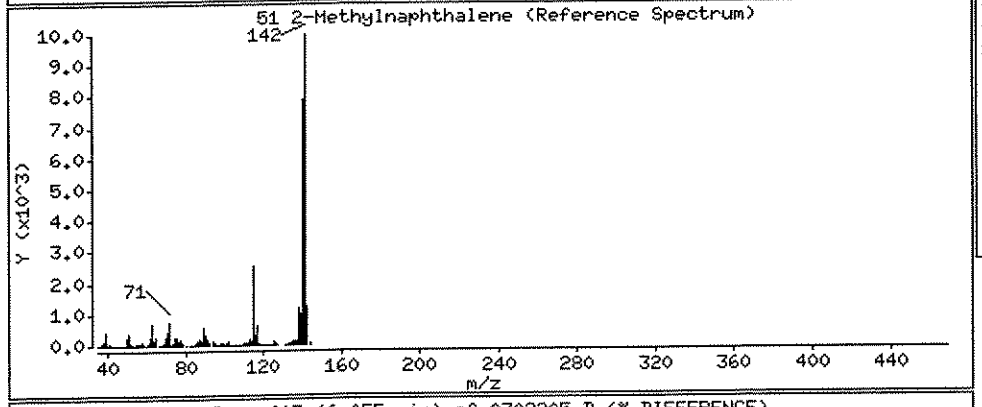
Column diameter: 0.25

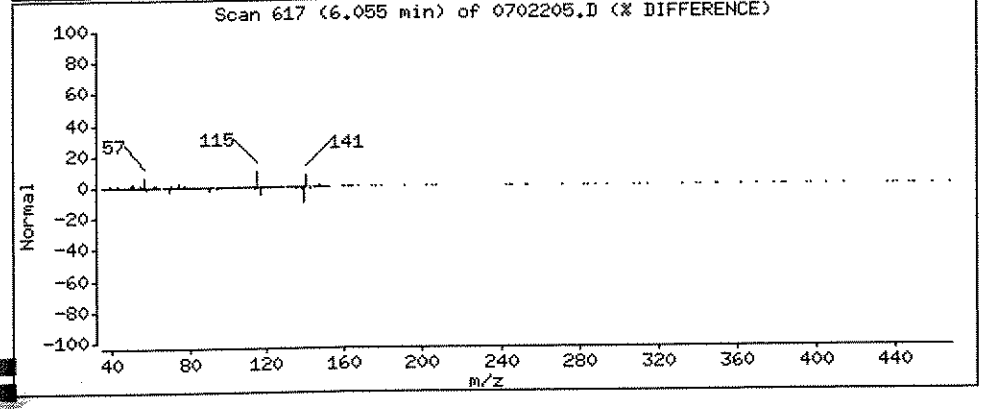
51 2-Methylnaphthalene

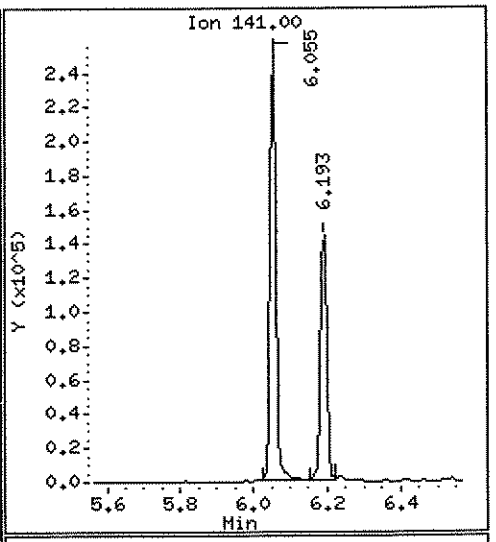
Concentration: 536.7 UG/KG

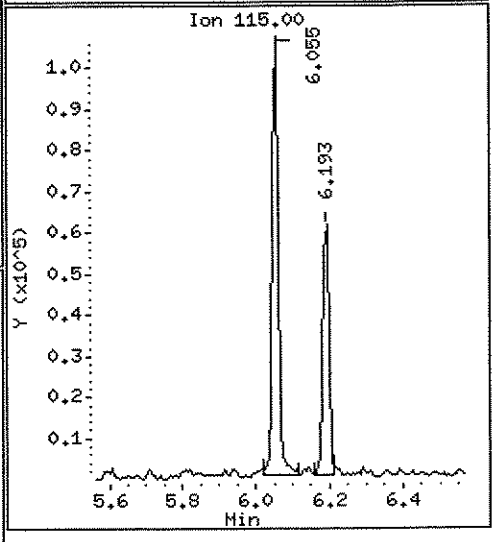












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

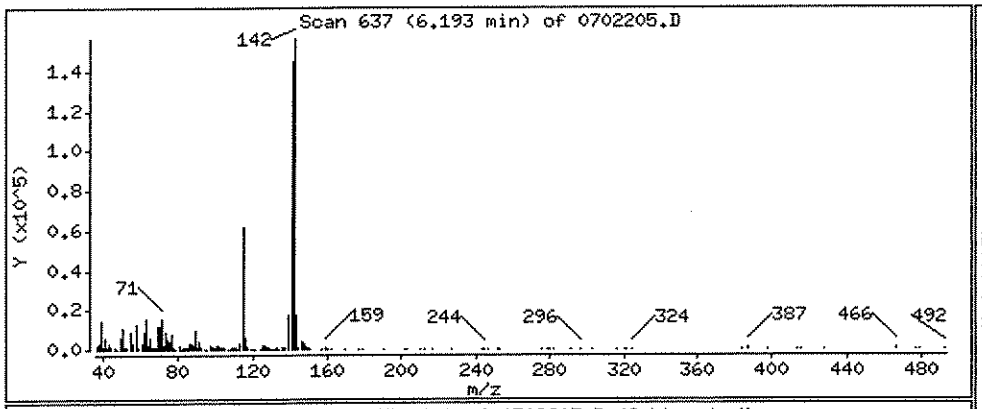
Client ID: 51CFM03S060706 Instrument: bna1.i

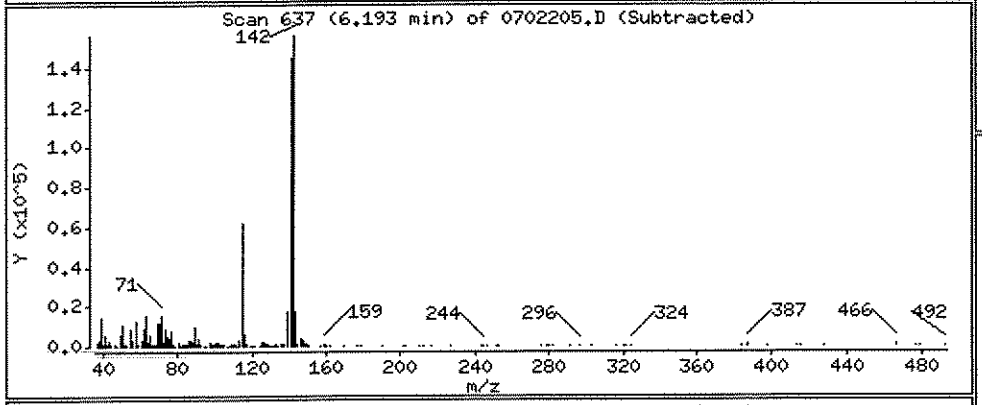
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

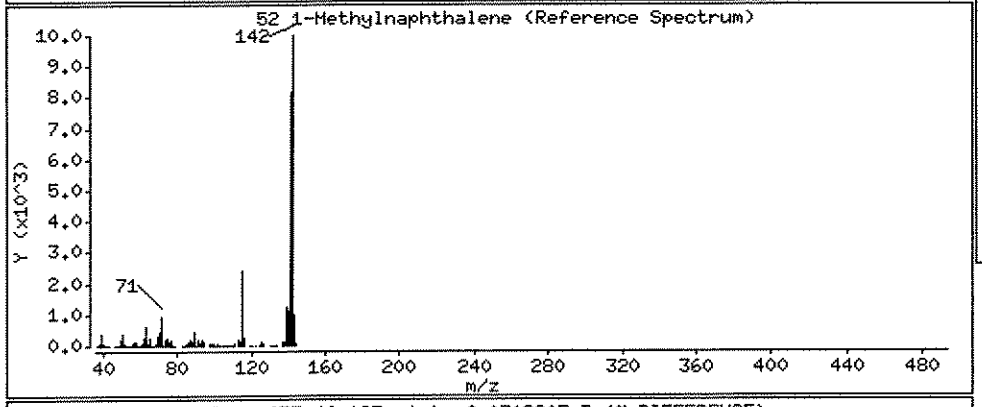
Volume Injected (uL): 0.5 Operator: SDB

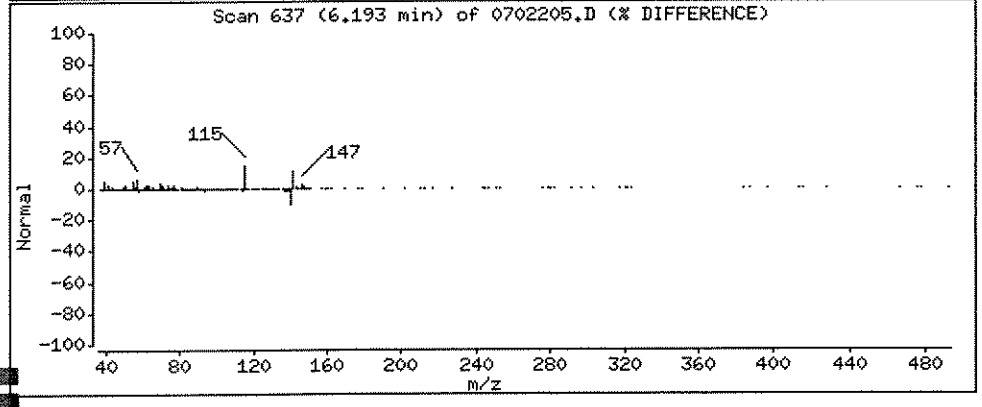
Column phase: fused silica Column diameter: 0.25

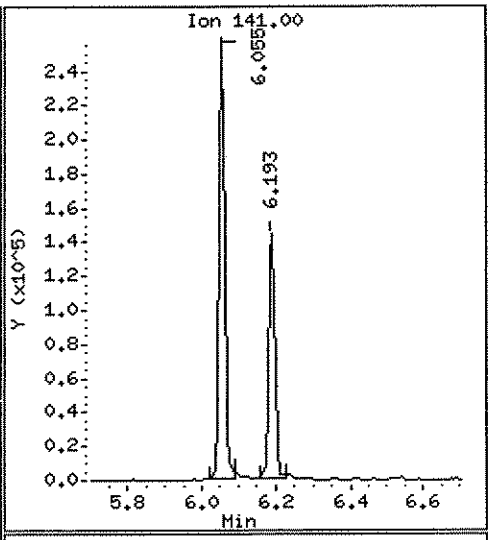
52 1-Methylnaphthalene Concentration: 350.0 UG/KG

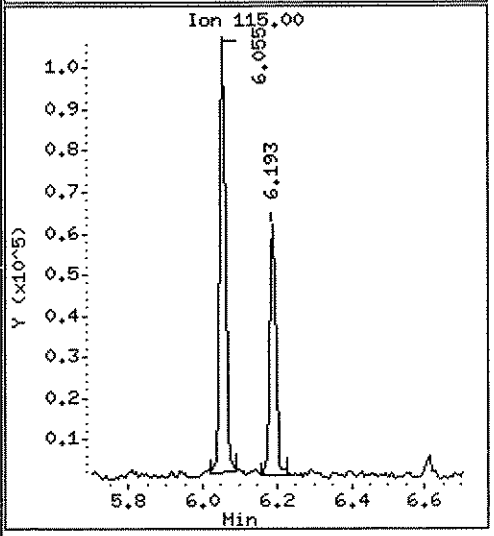












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

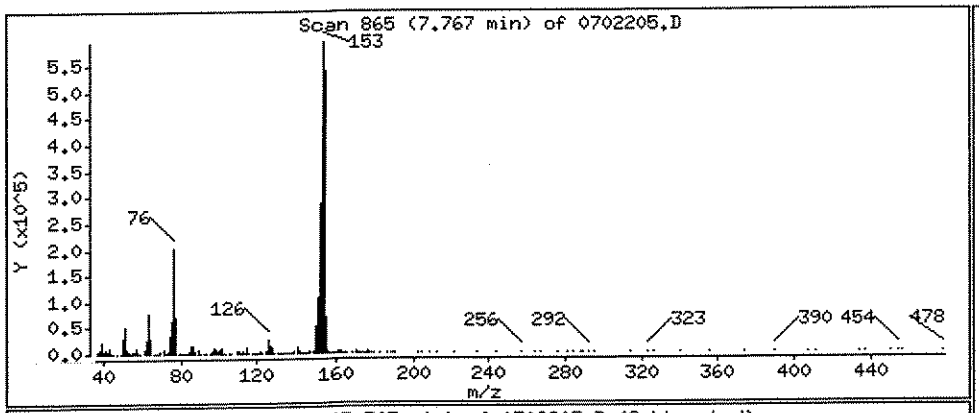
Client ID: 51CFM03S060706 Instrument: bna1.i

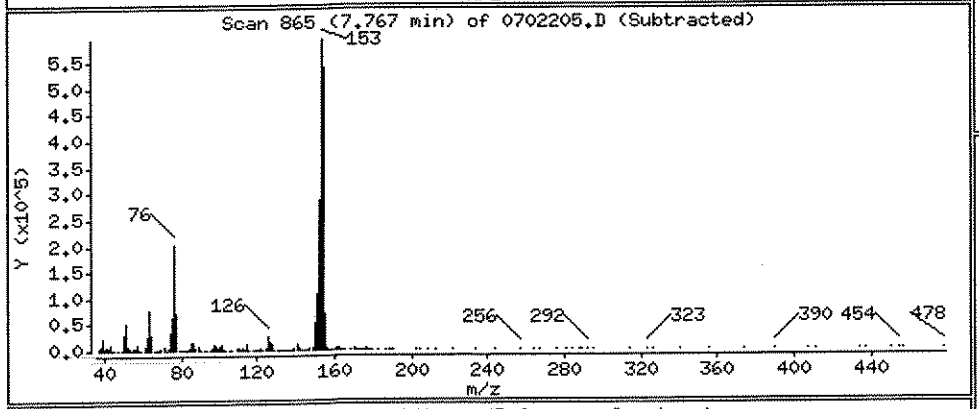
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

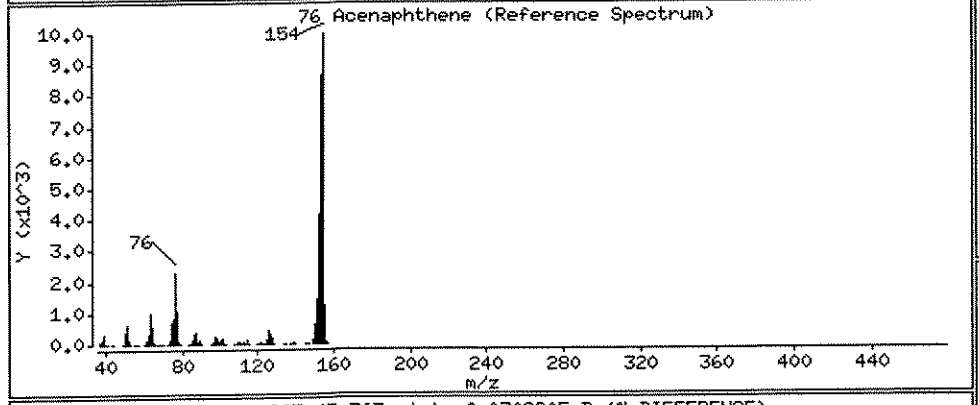
Volume Injected (uL): 0.5 Operator: SDB

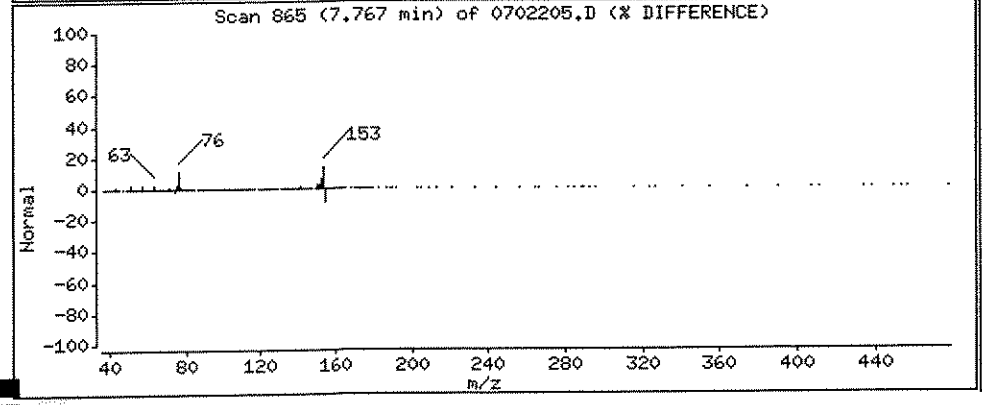
Column phase: fused silica Column diameter: 0.25

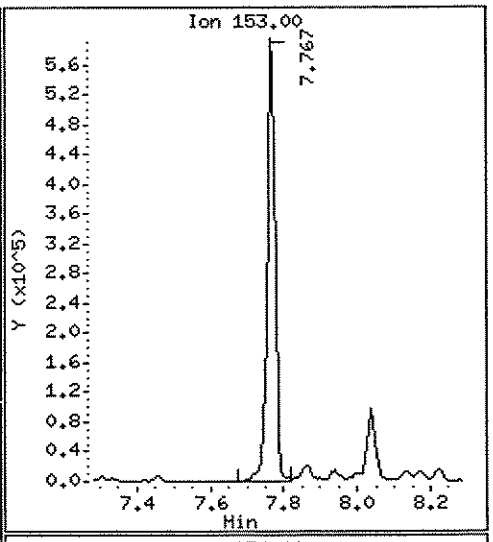
76 Acenaphthene Concentration: 1801 UG/KG

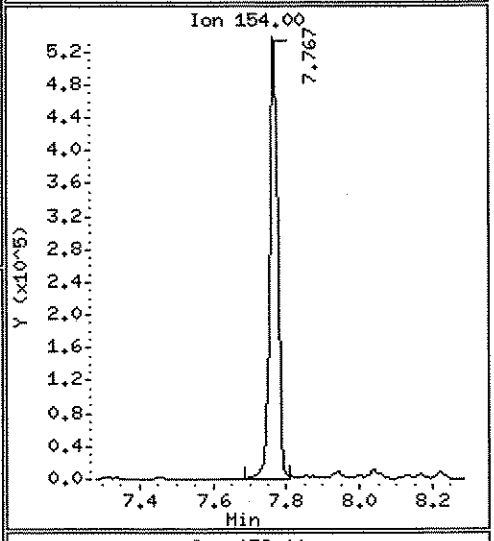


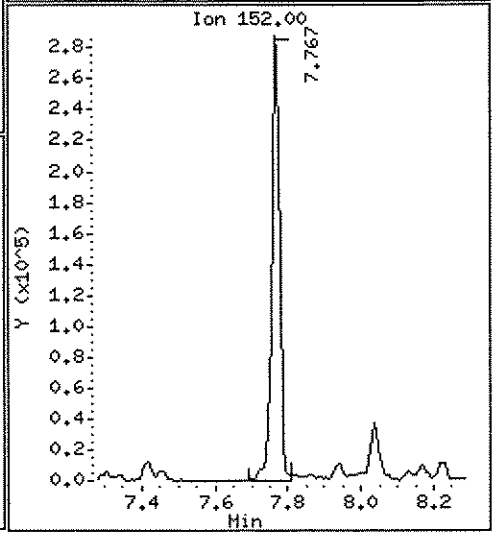












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

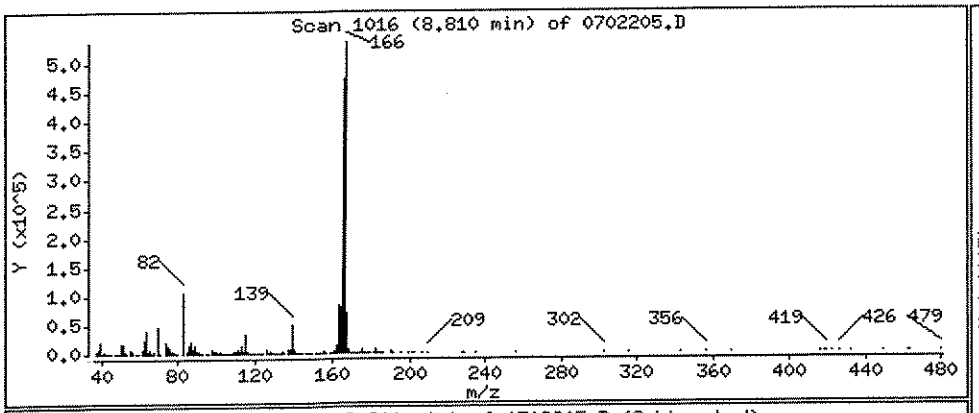
Operator: SDB

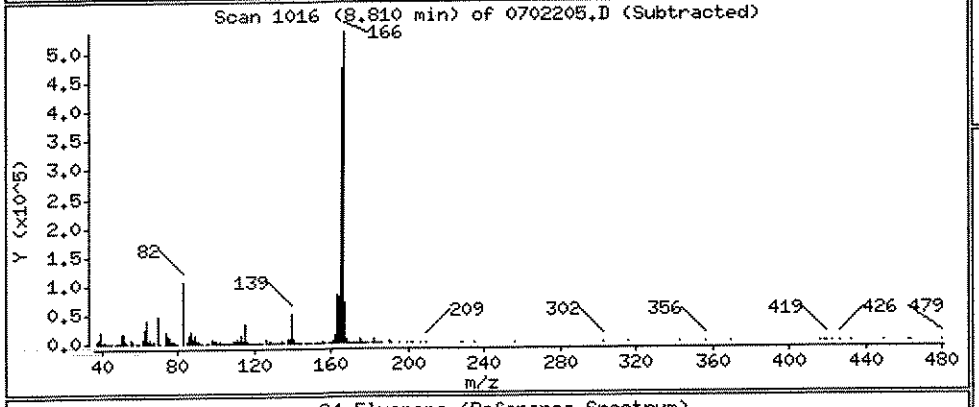
Column phase: fused silica

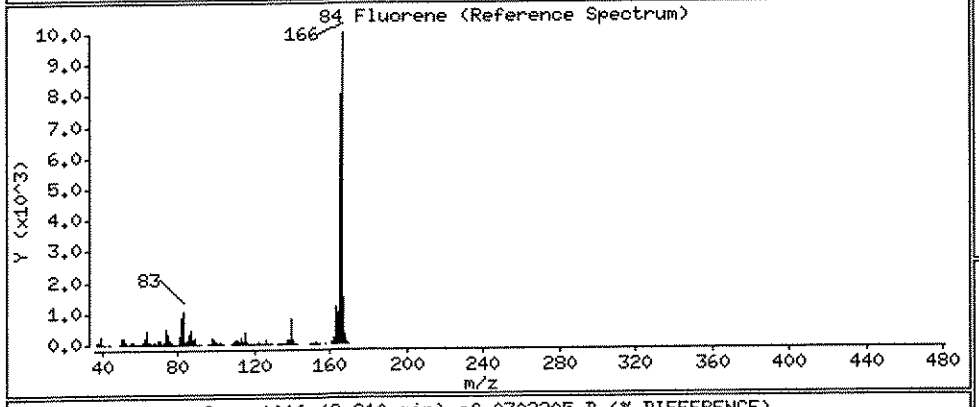
Column diameter: 0.25

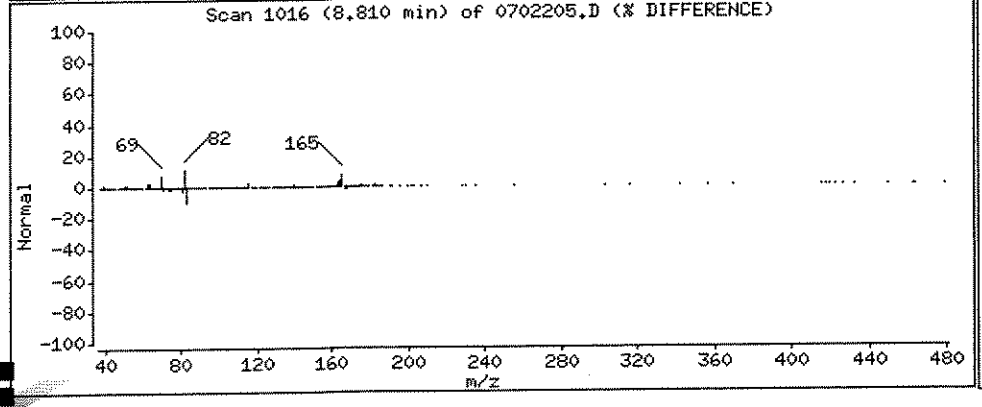
84 Fluorene

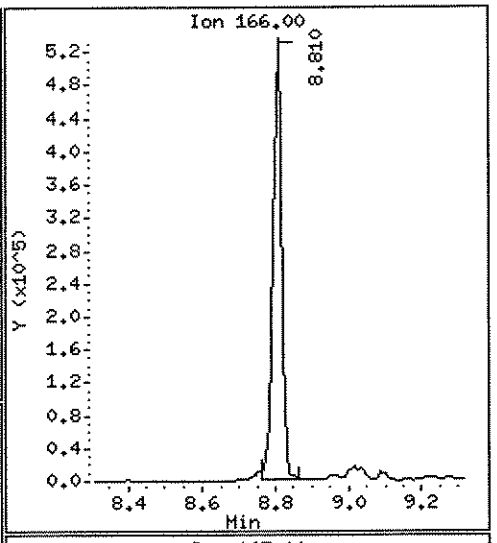
Concentration: 1640 UG/KG

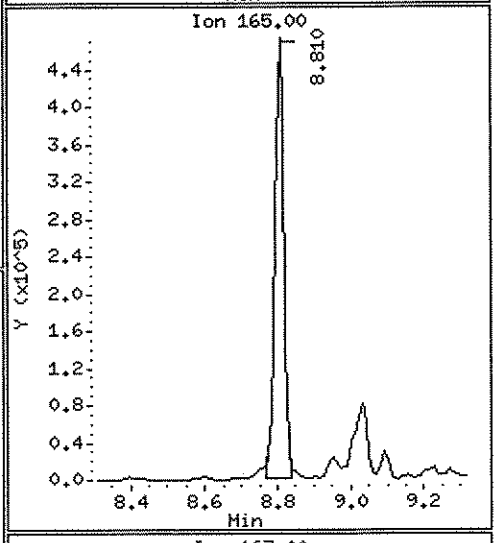


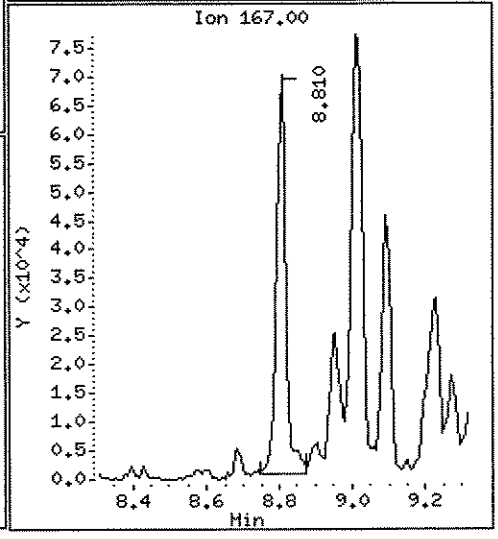












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000113

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

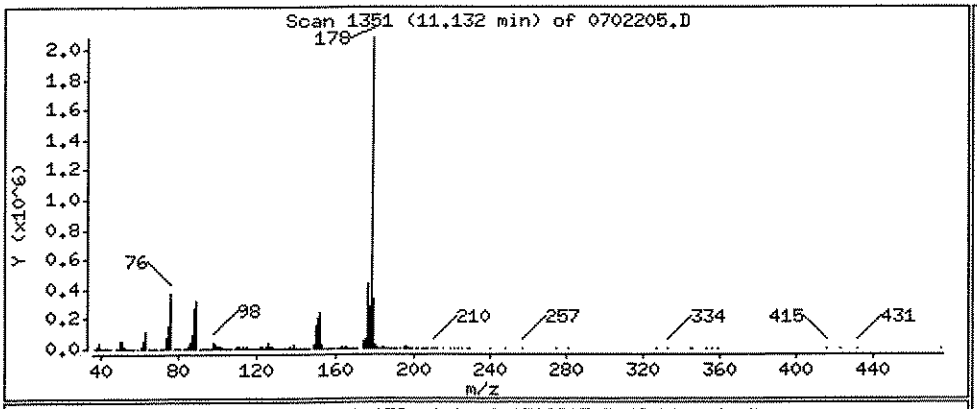
Client ID: 51CFM03S060706 Instrument: bna1.i

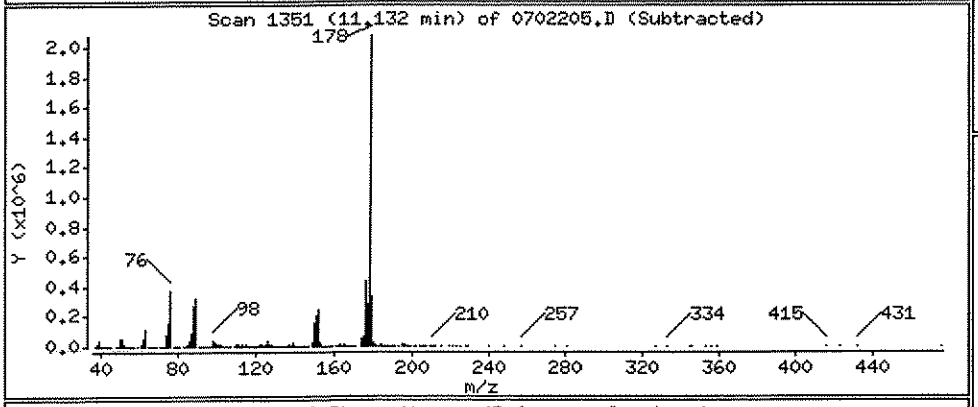
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

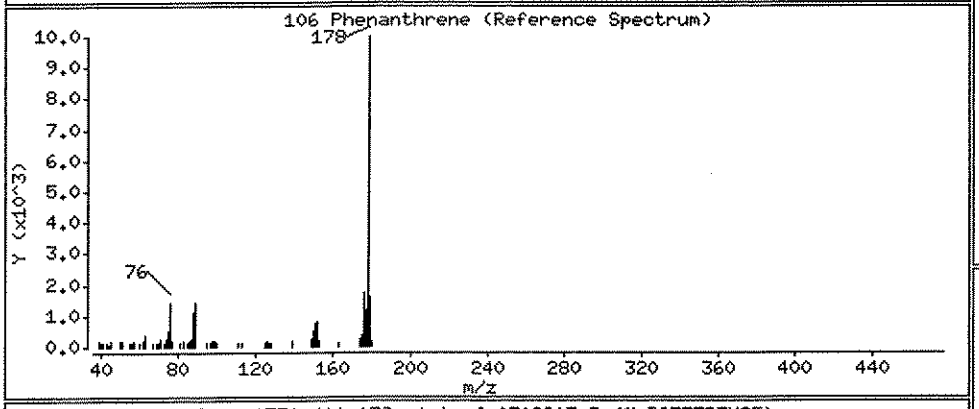
Volume Injected (uL): 0.5 Operator: SDB

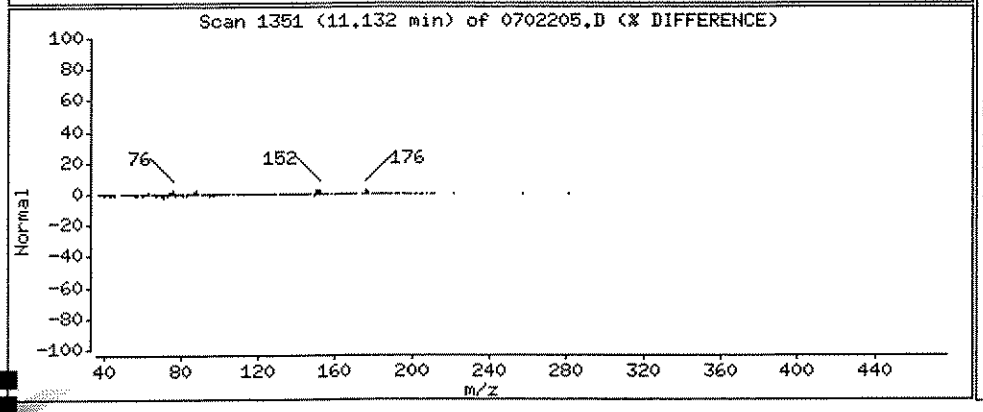
Column phase: fused silica Column diameter: 0.25

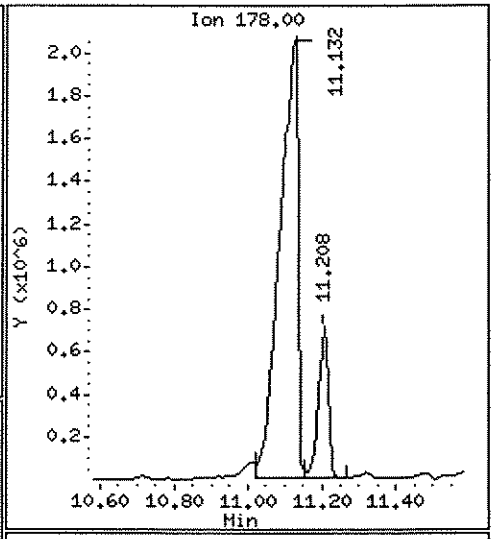
106 Phenanthrene Concentration: 12100 UG/KG

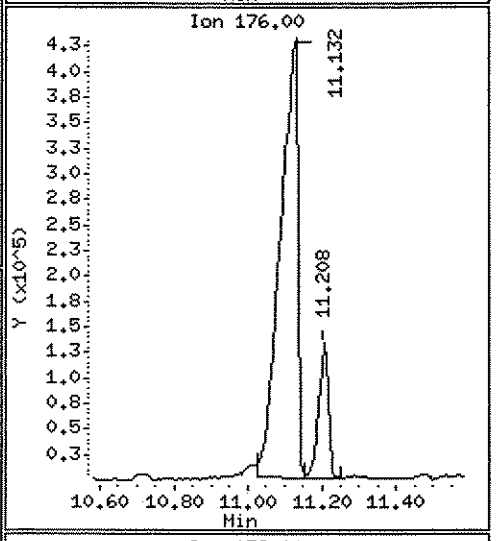


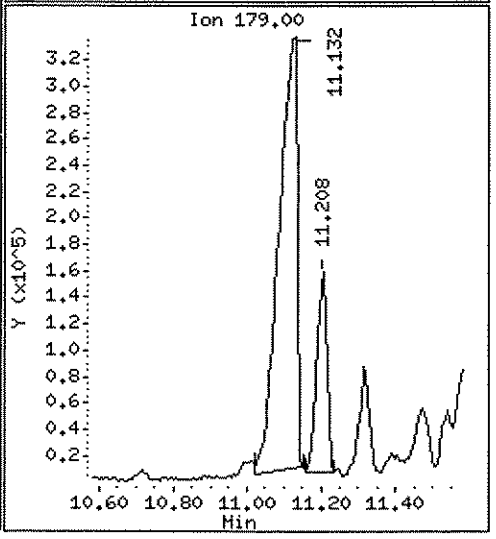












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

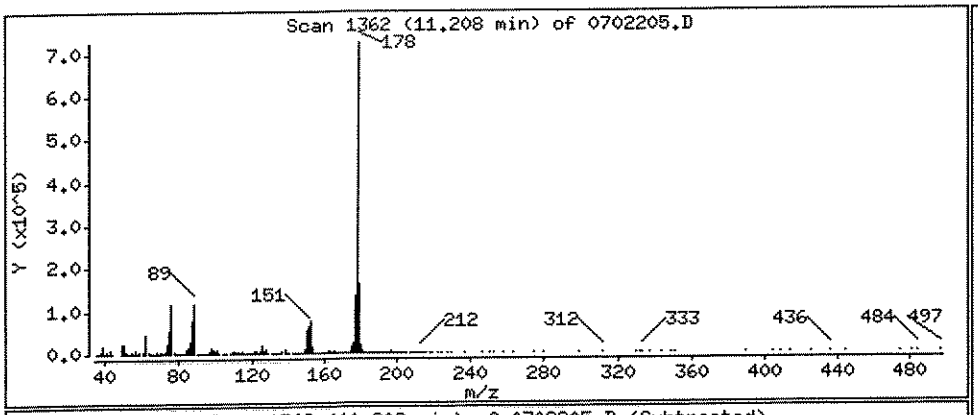
Operator: SDB

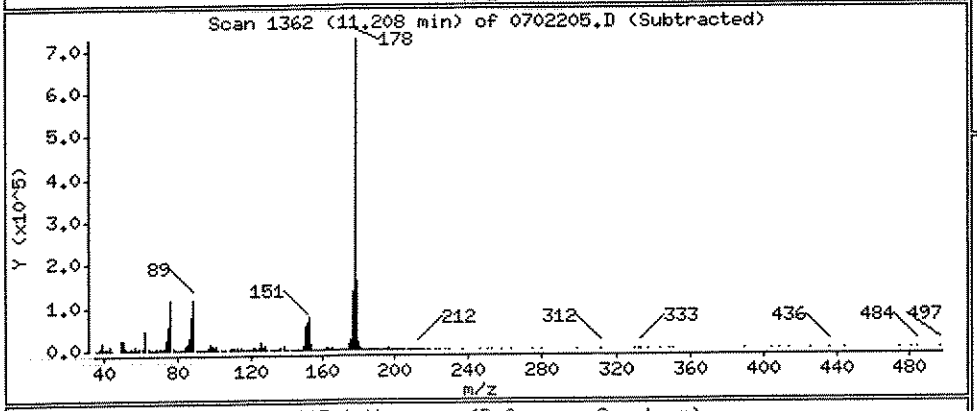
Column phase: fused silica

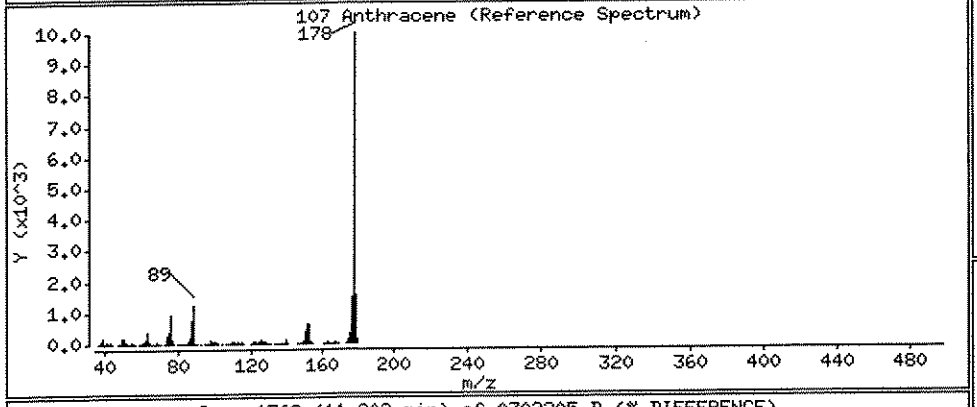
Column diameter: 0.25

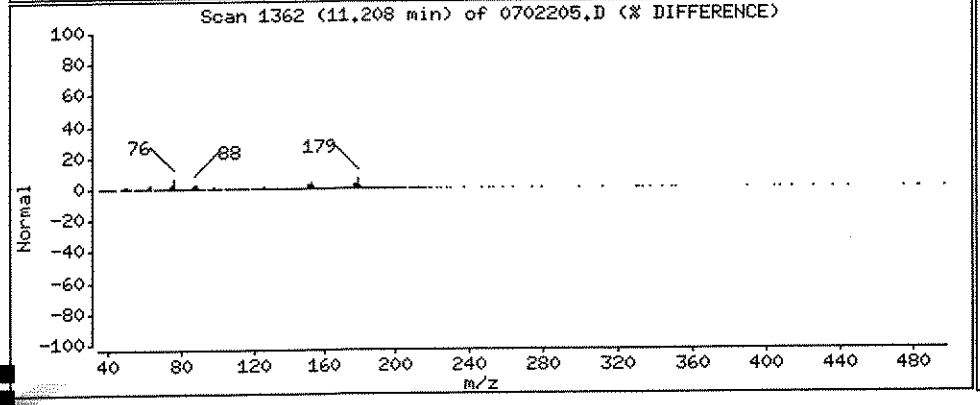
107 Anthracene

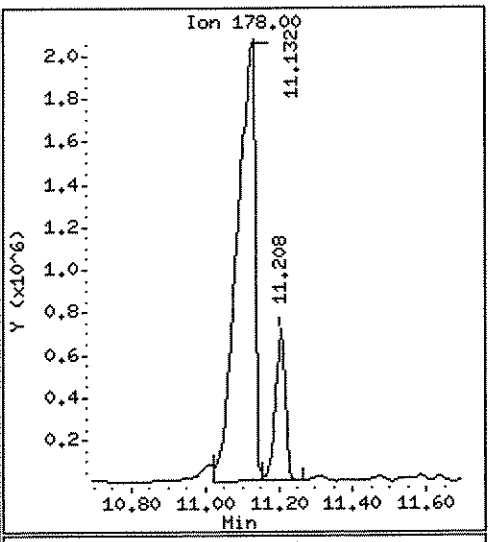
Concentration: 2283 UG/KG

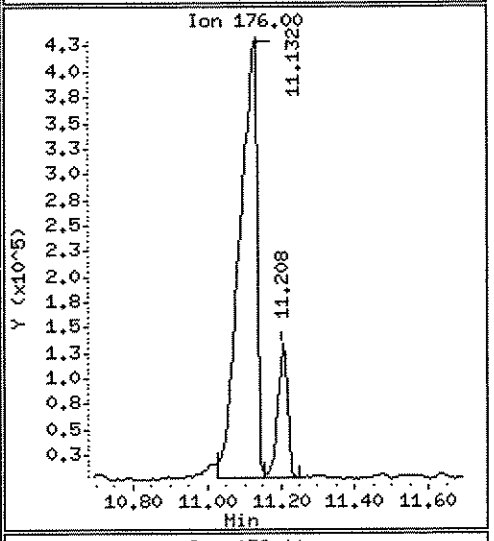


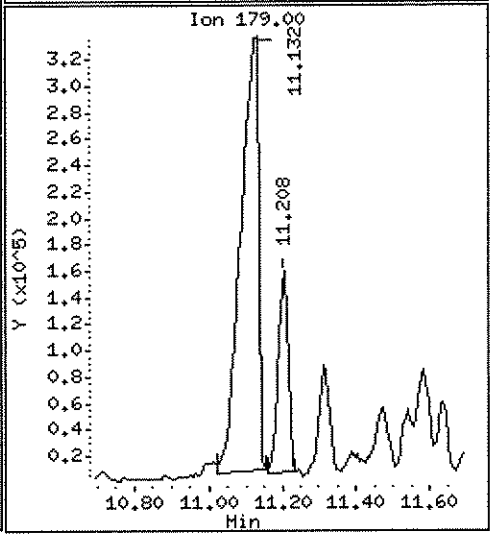












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

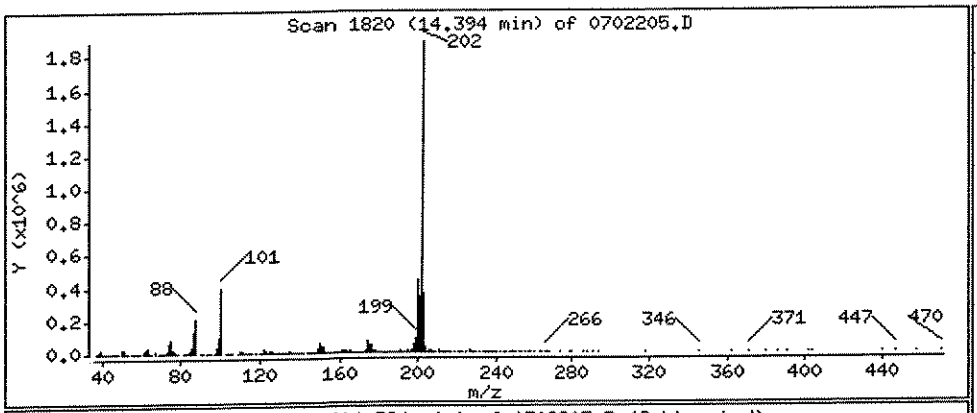
Client ID: 51CFM03S060706 Instrument: bna1.i

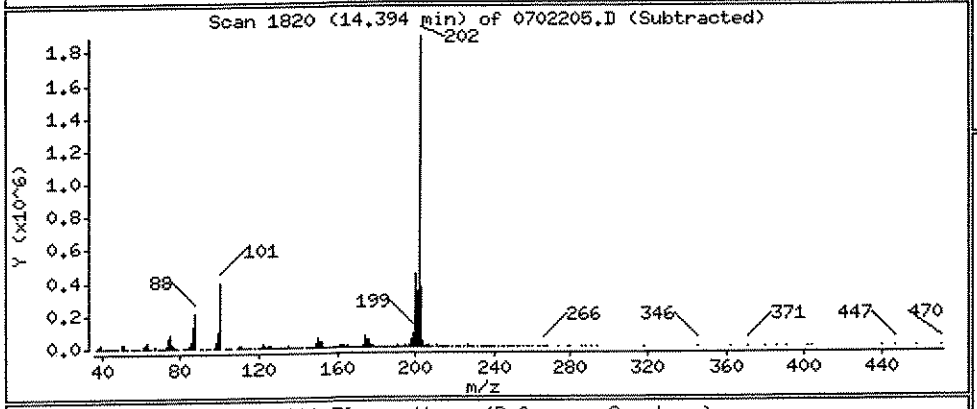
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

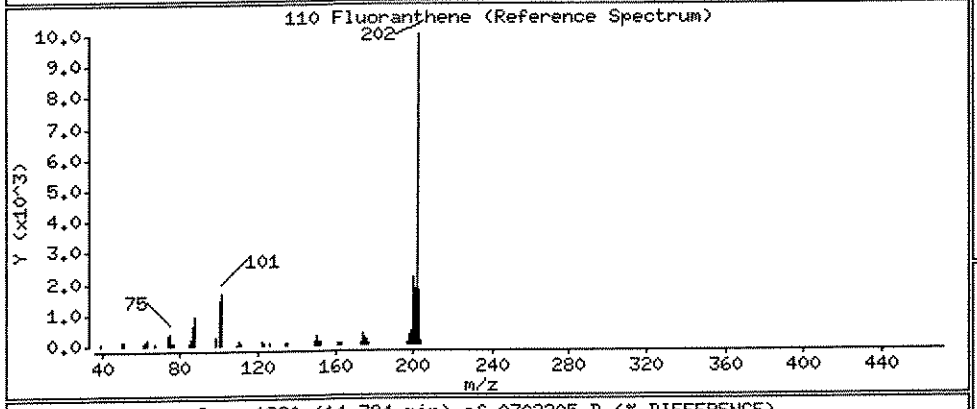
Volume Injected (uL): 0.5 Operator: SDB

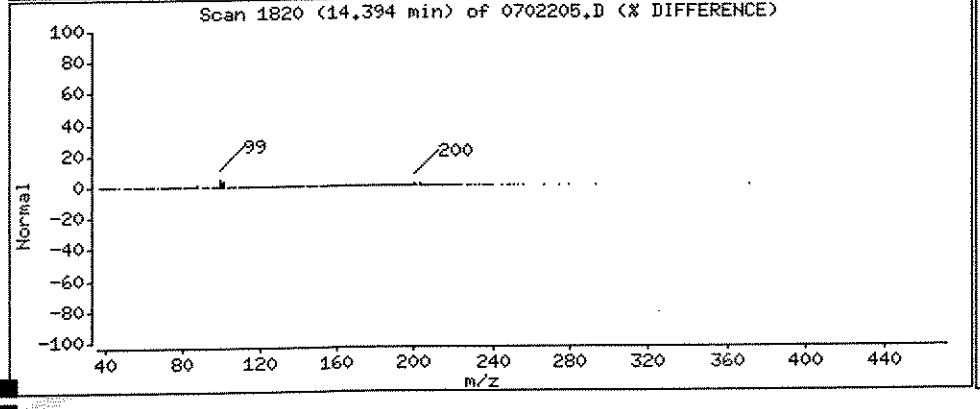
Column phase: fused silica Column diameter: 0.25

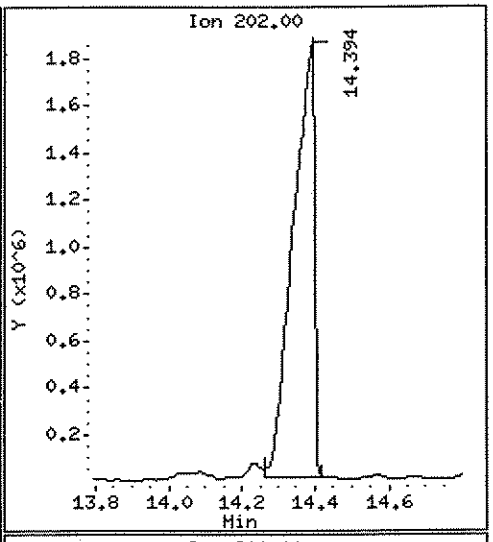
110 Fluoranthene Concentration: 13190 UG/KG

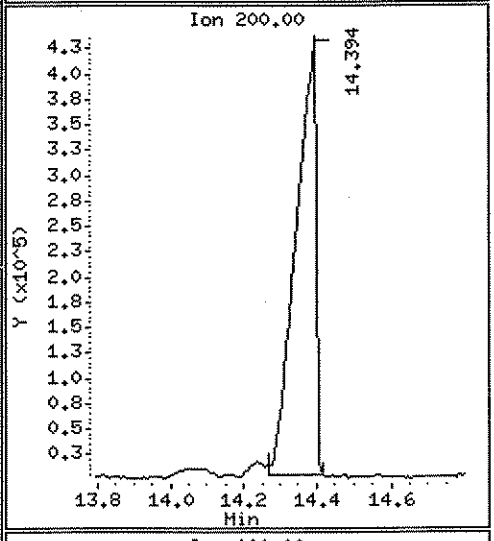


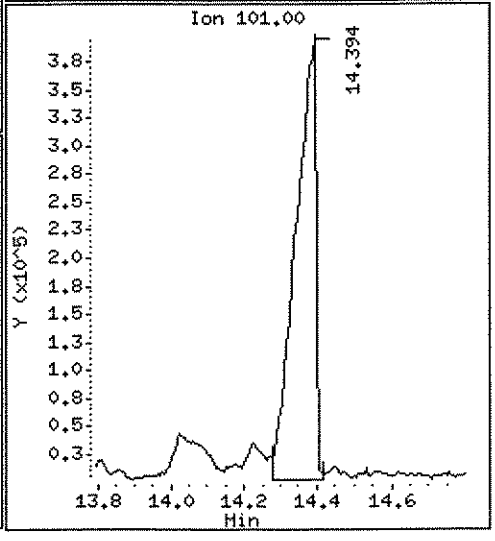












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

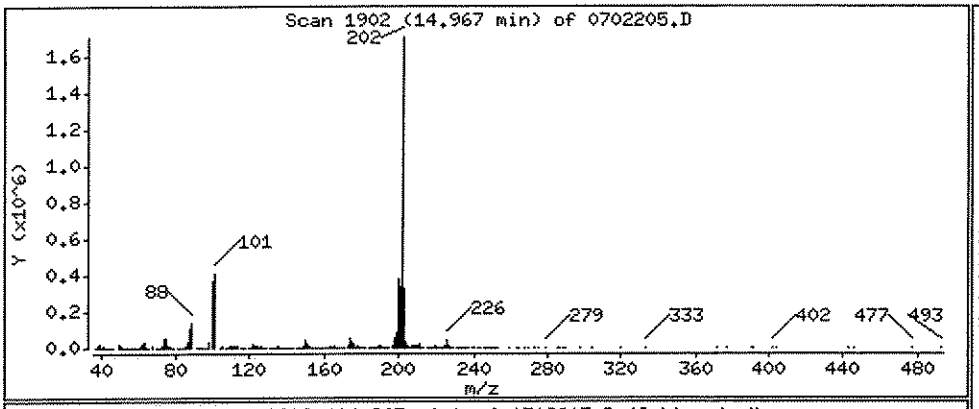
Client ID: 51CFM03S060706 Instrument: bna1.i

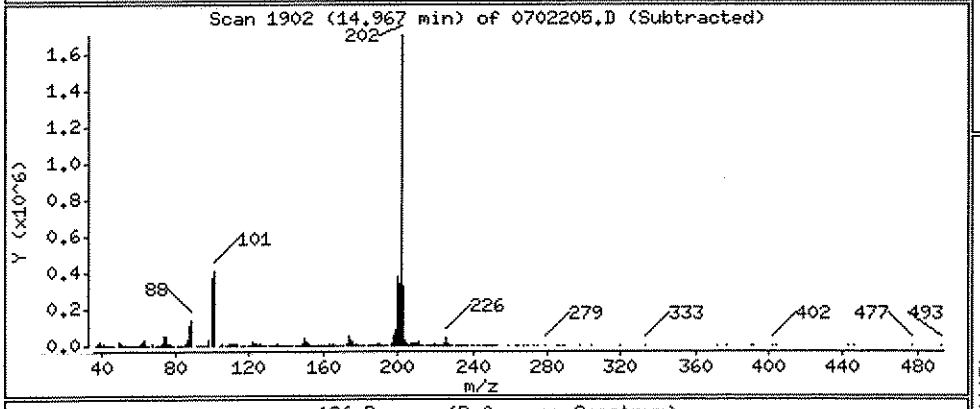
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

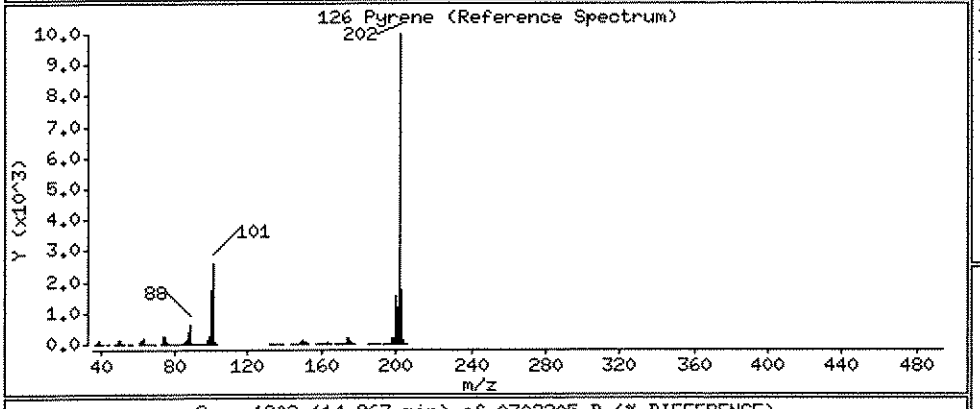
Volume Injected (uL): 0.5 Operator: SDB

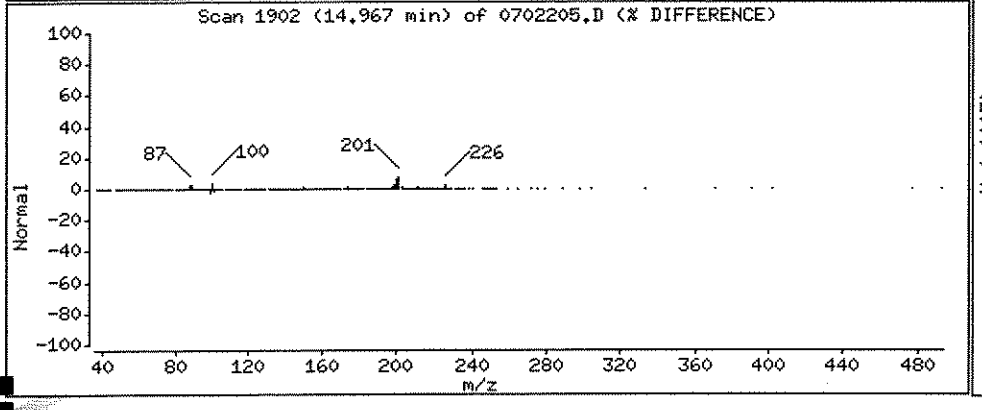
Column phase: fused silica Column diameter: 0.25

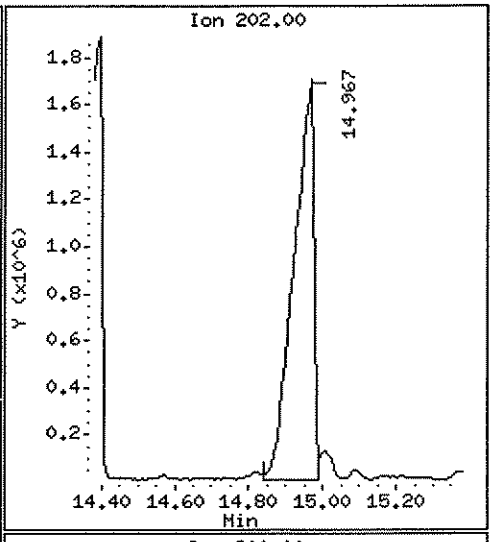
126 Pyrene Concentration: 18400 UG/KG

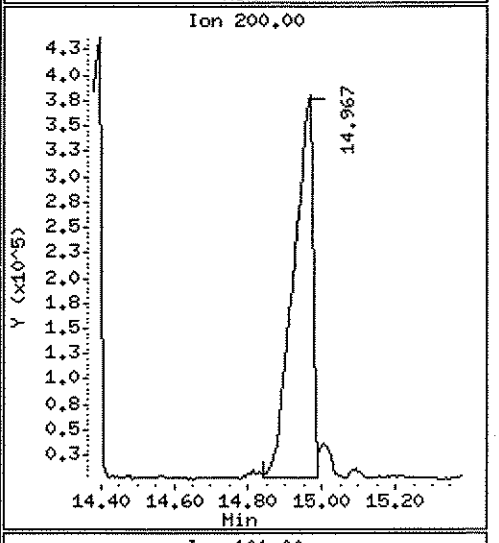


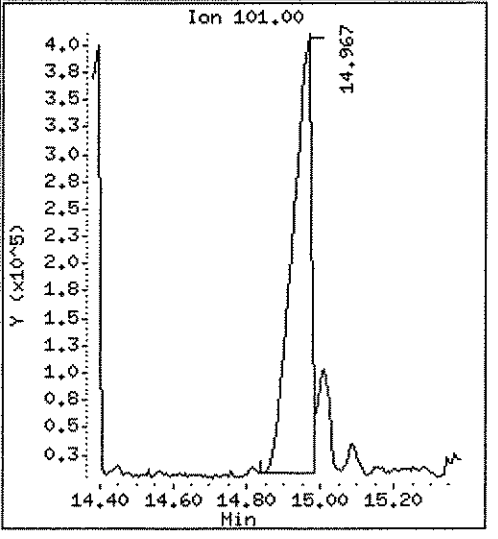












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

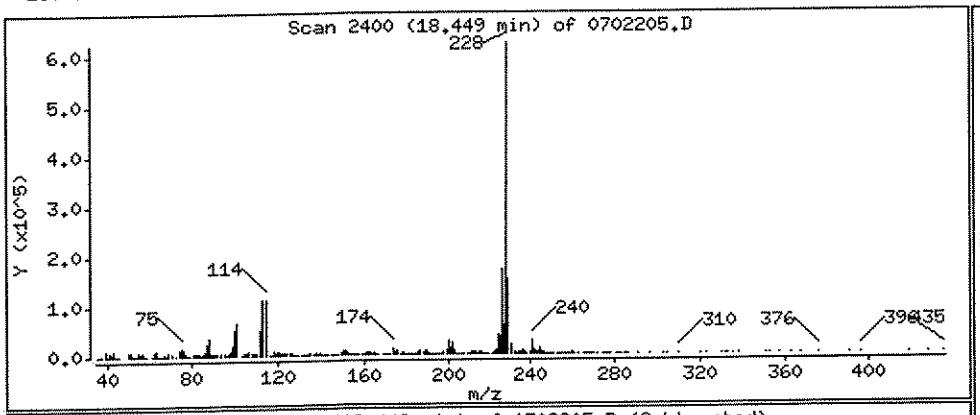
Operator: SDB

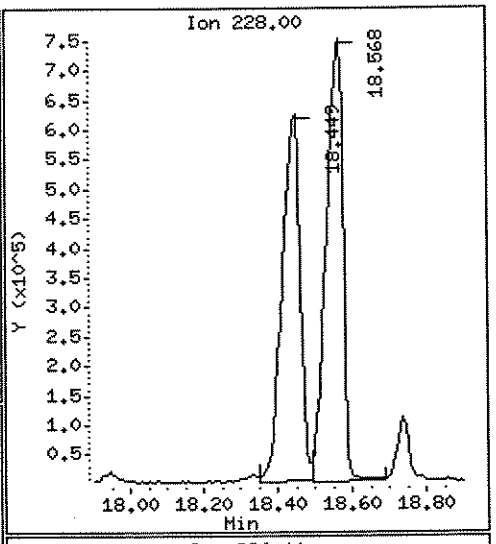
Column phase: fused silica

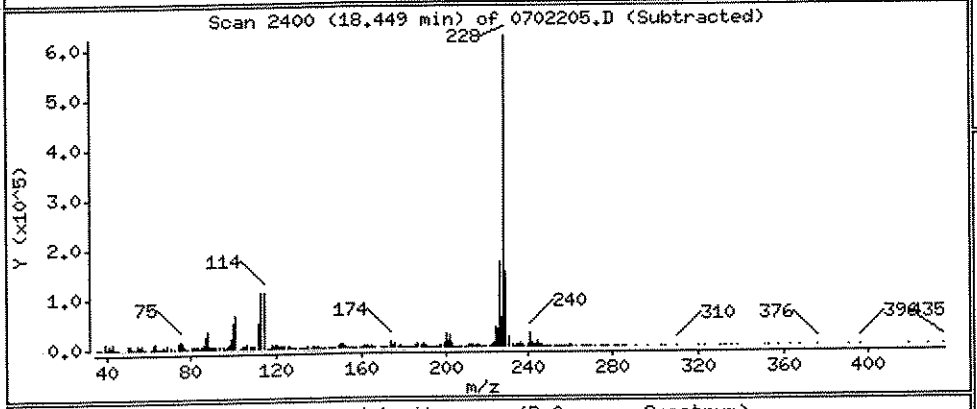
Column diameter: 0.25

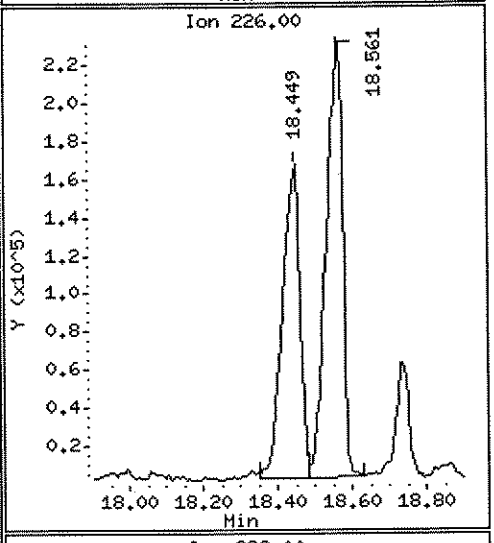
130 Benzo(a)anthracene

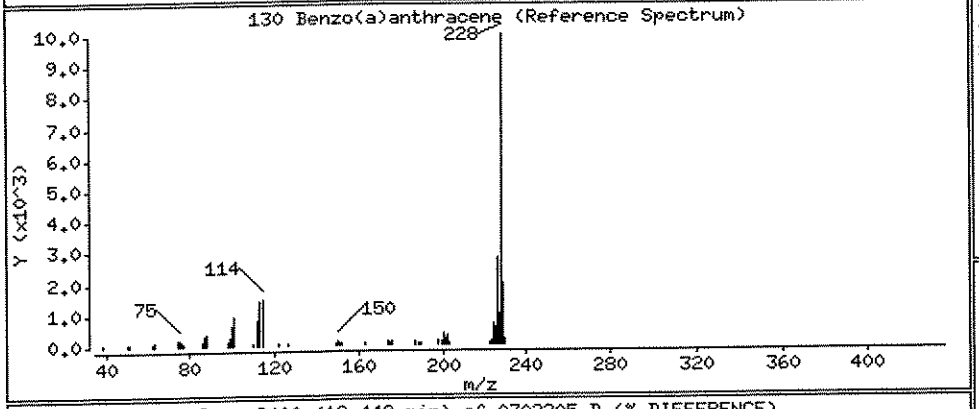
Concentration: 7584 UG/KG

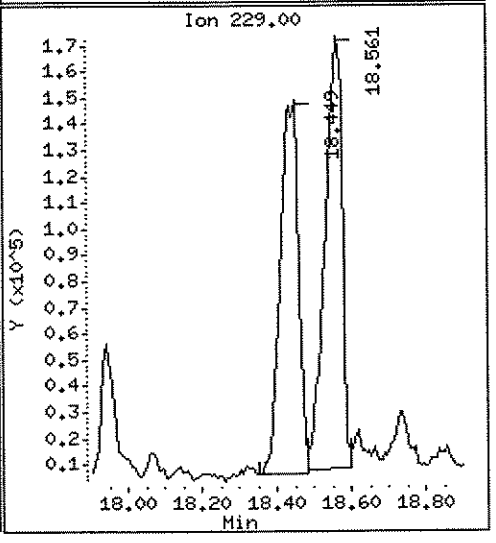


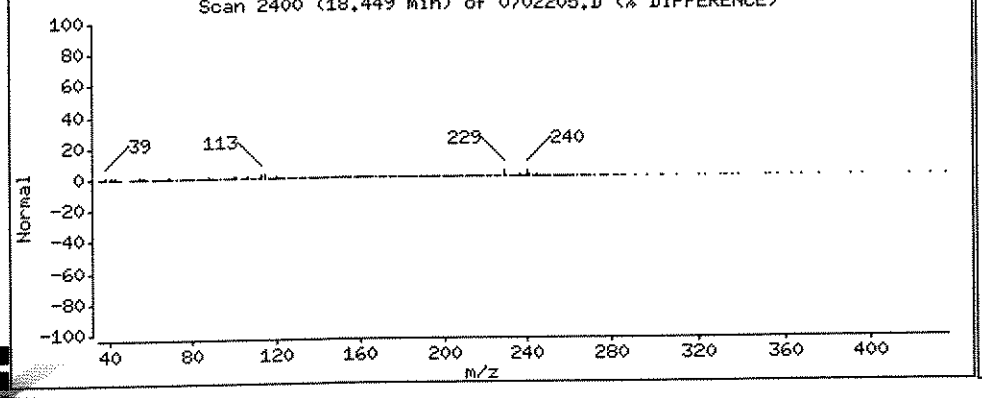












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

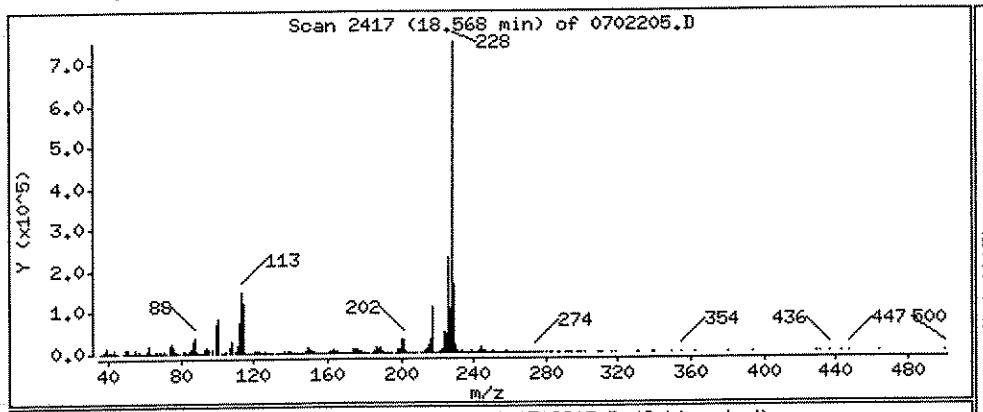
Client ID: 51CFM03S060706 Instrument: bna1.i

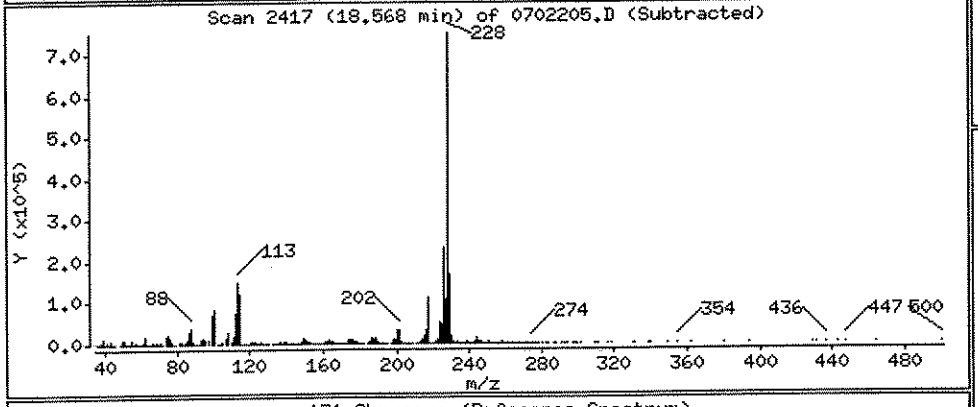
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

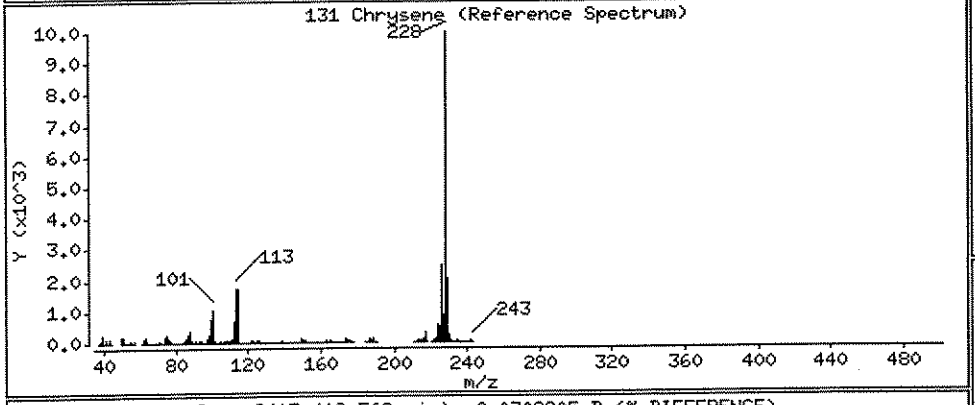
Volume Injected (uL): 0.5 Operator: SDB

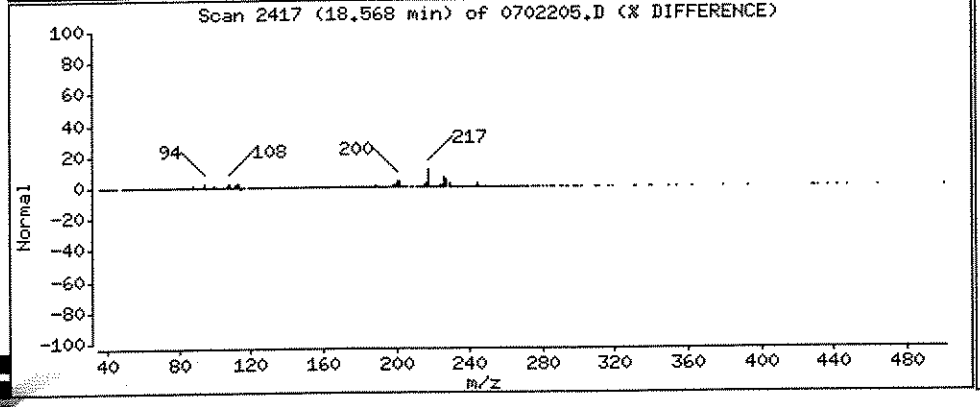
Column phase: fused silica Column diameter: 0.25

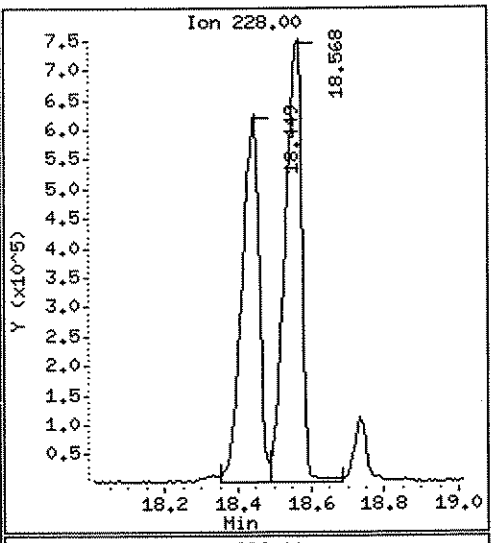
131 Chrysene Concentration: 9364 UG/KG

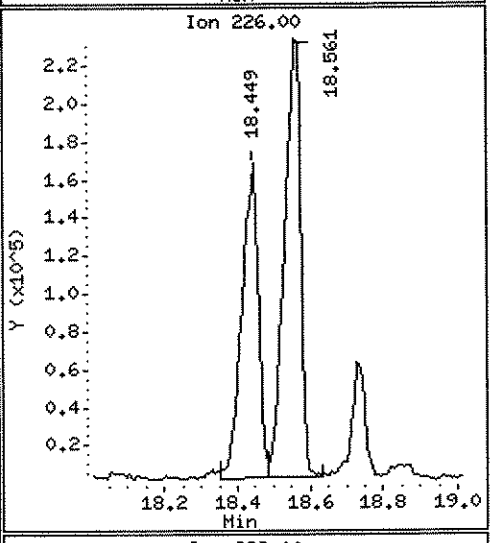


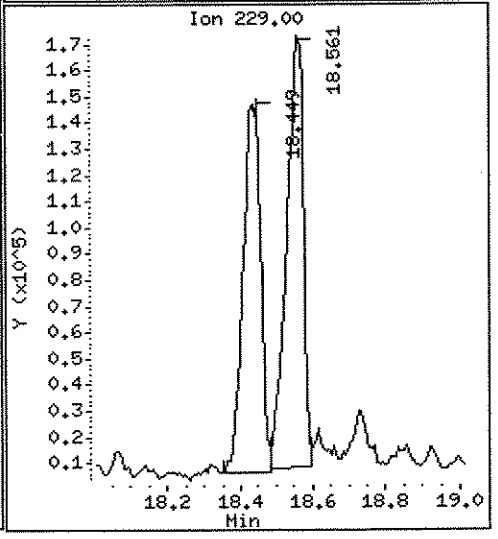












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

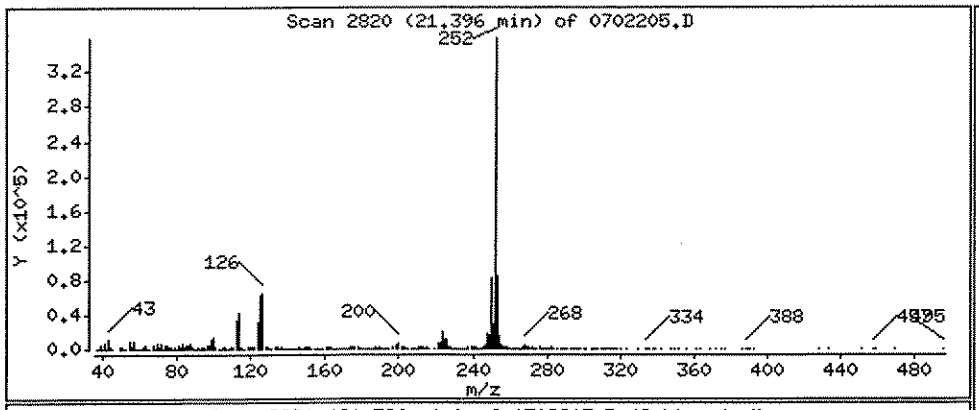
Client ID: 51CFM03S060706 Instrument: bna1.i

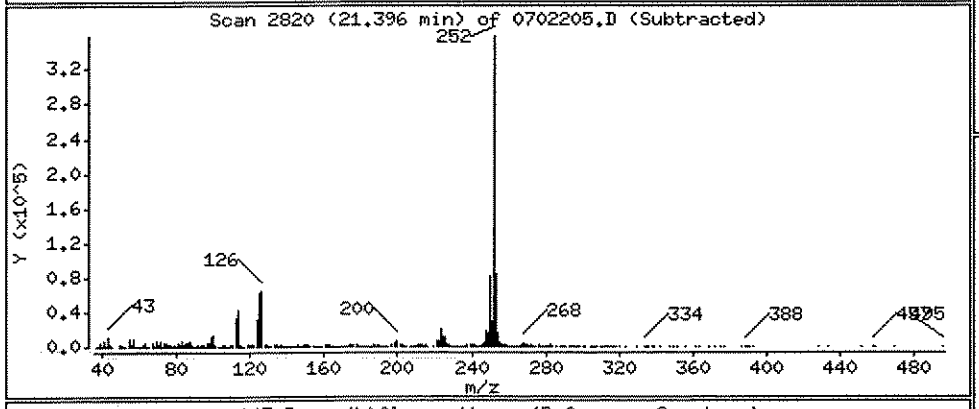
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

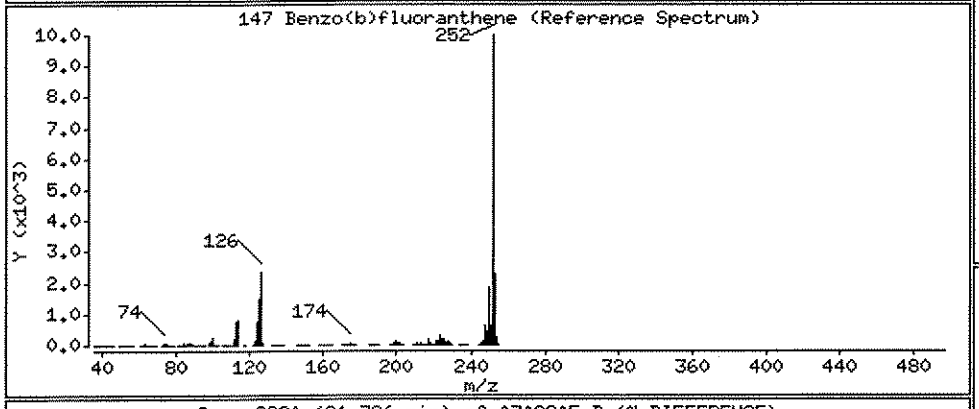
Volume Injected (uL): 0.5 Operator: SDB

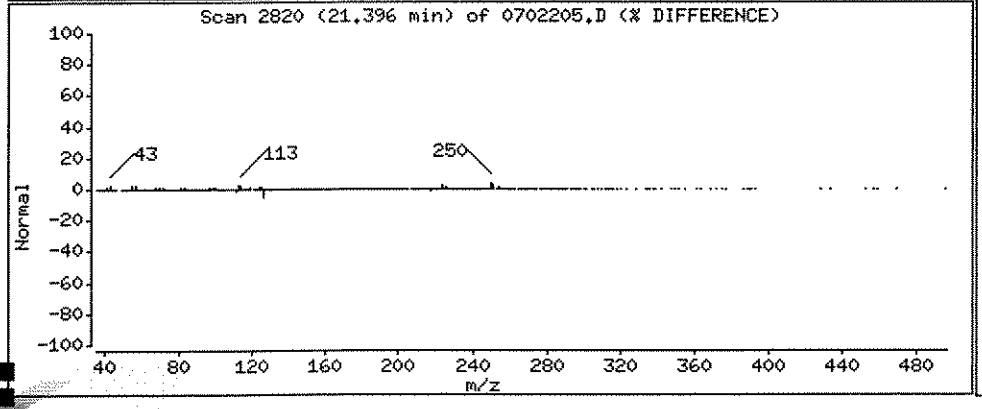
Column phase: fused silica Column diameter: 0.25

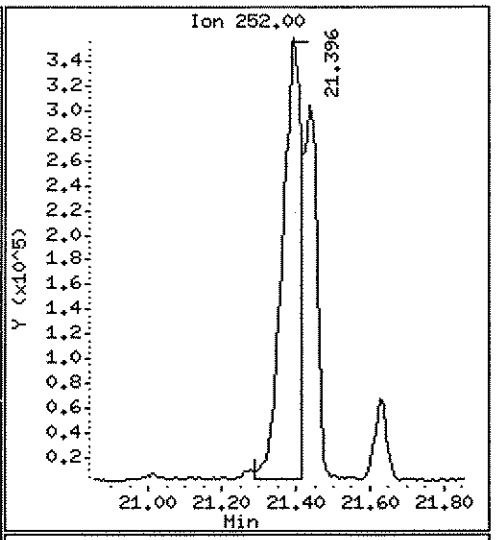
147 Benzo(b)fluoranthene Concentration: 8752 UG/KG

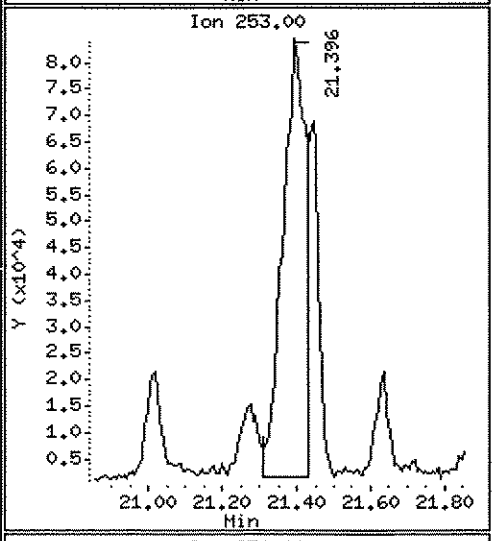


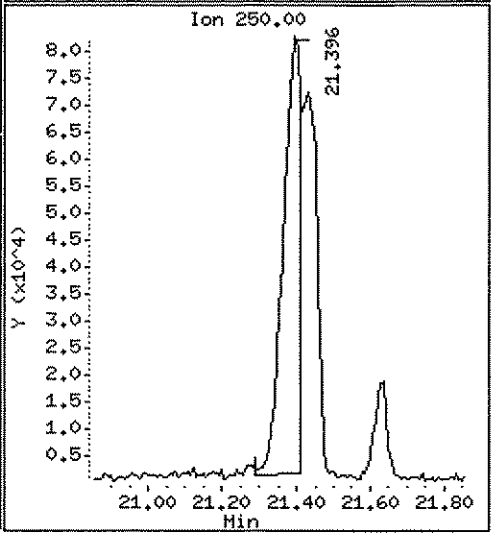












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

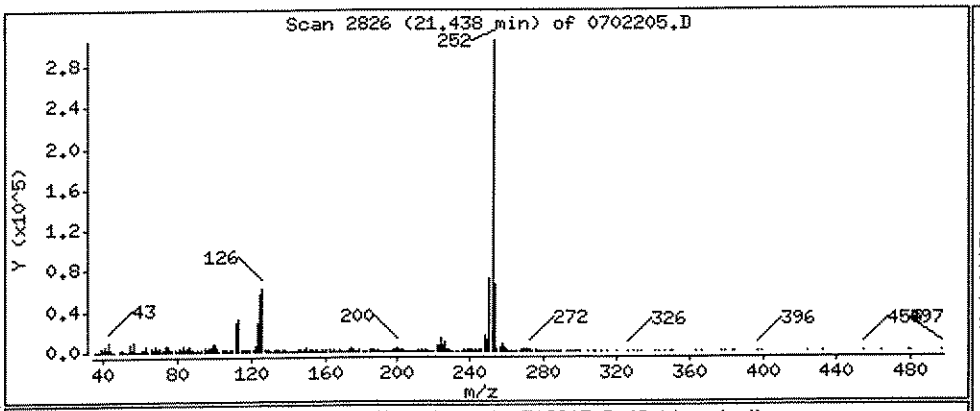
Client ID: 51CFM03S060706 Instrument: bna1.i

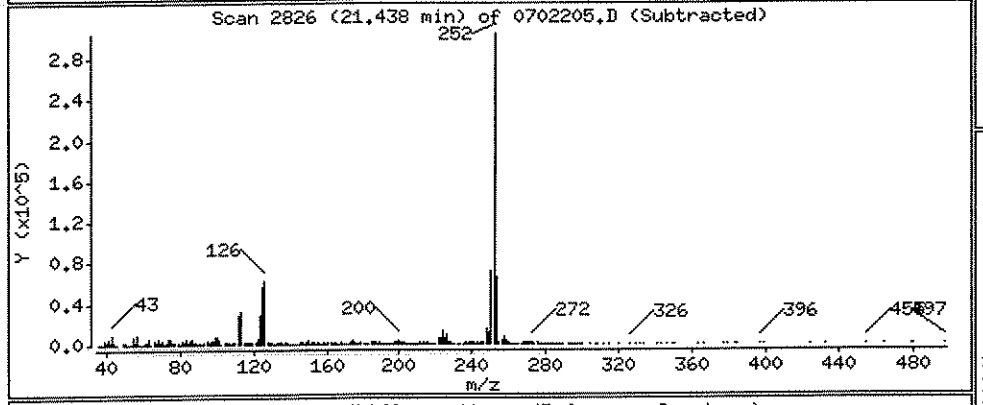
Sample Info: 0607022-05:15.0:500:1:UG/KG:10-JUL-2006

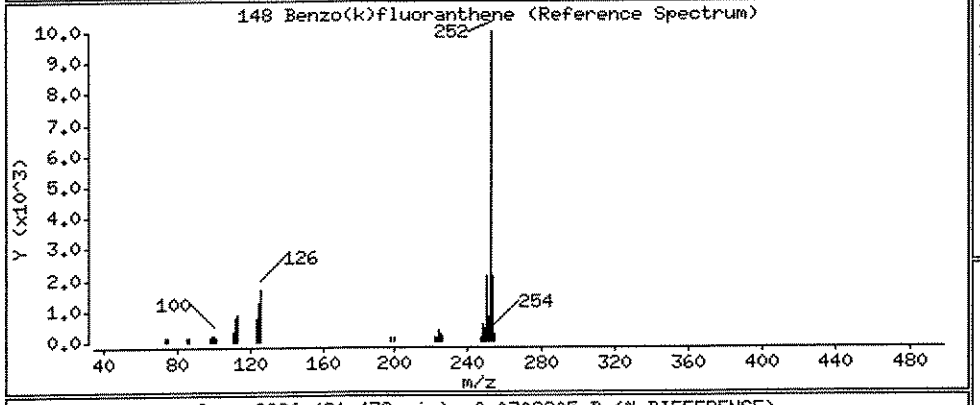
Volume Injected (uL): 0.5 Operator: SDB

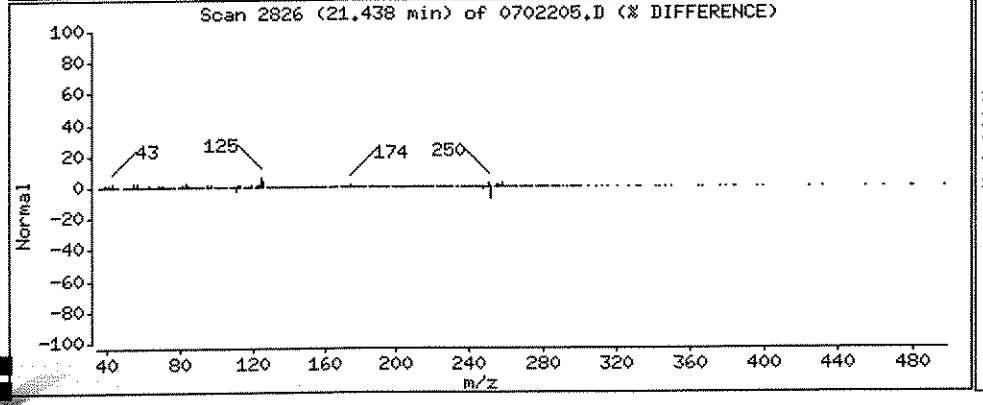
Column phase: fused silica Column diameter: 0.25

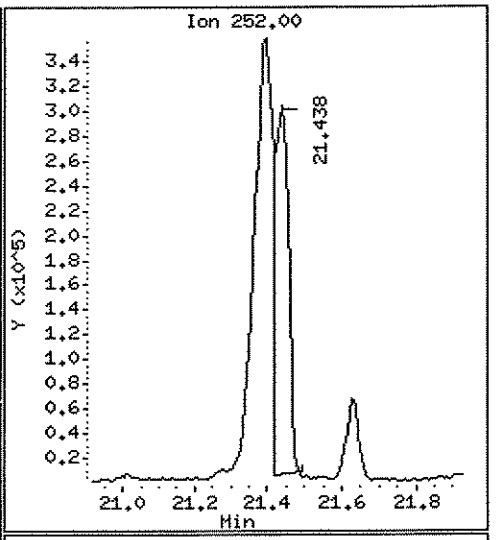
148 Benzo(k)fluoranthene Concentration: 5286 UG/KG

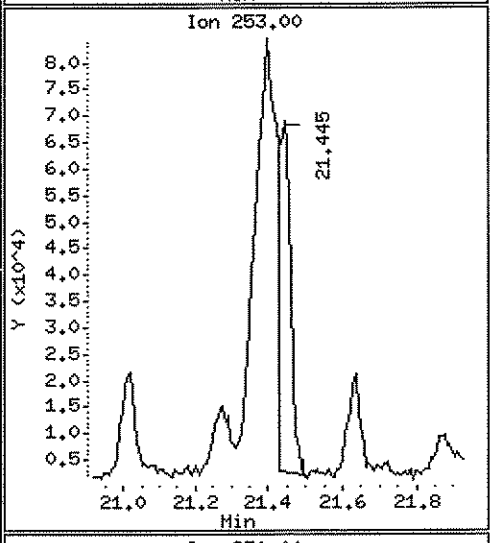


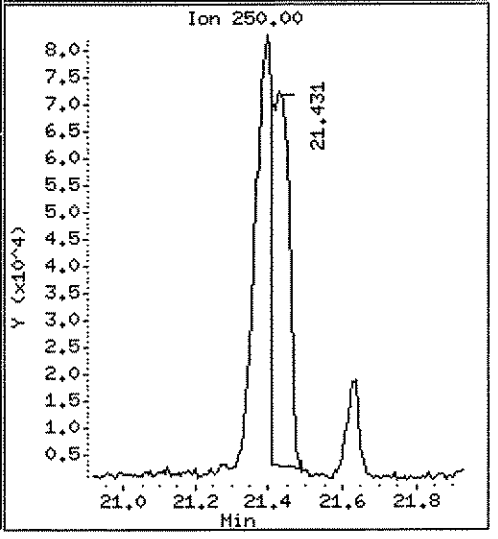












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

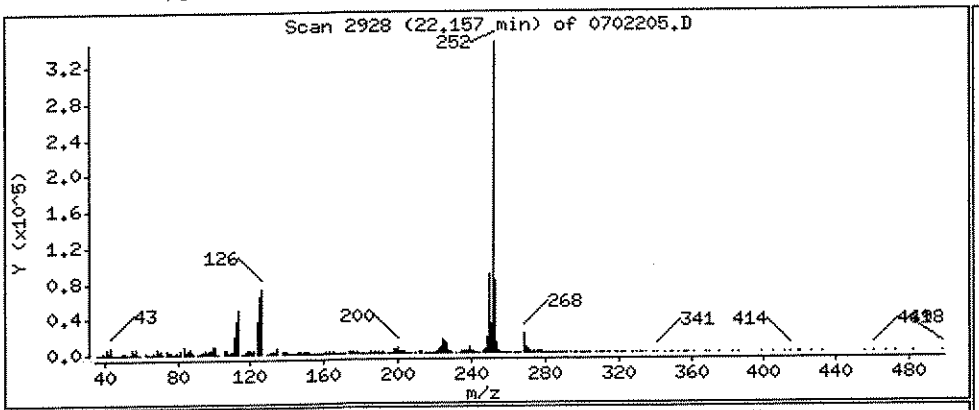
Operator: SDB

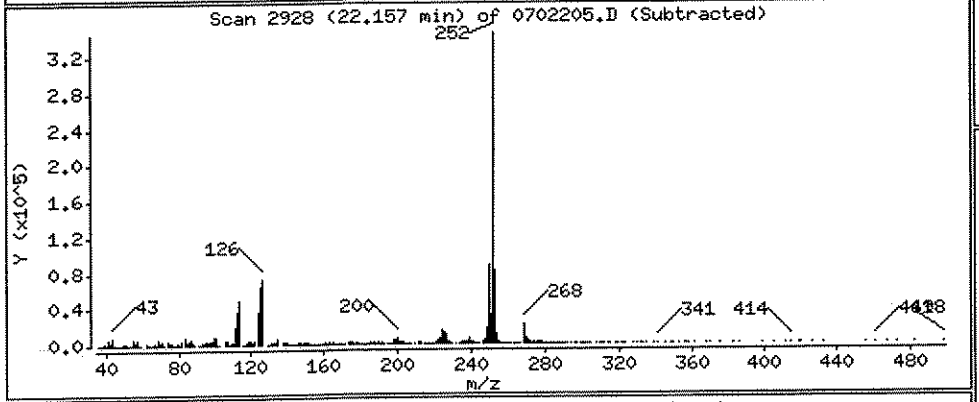
Column phase: fused silica

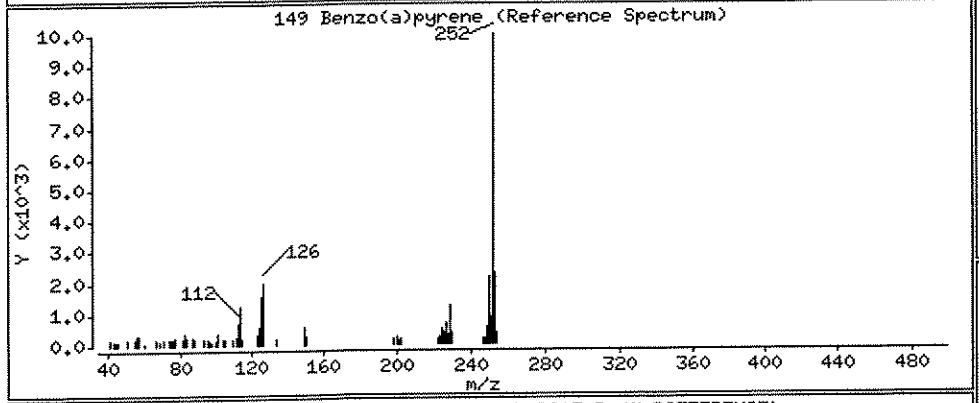
Column diameter: 0.25

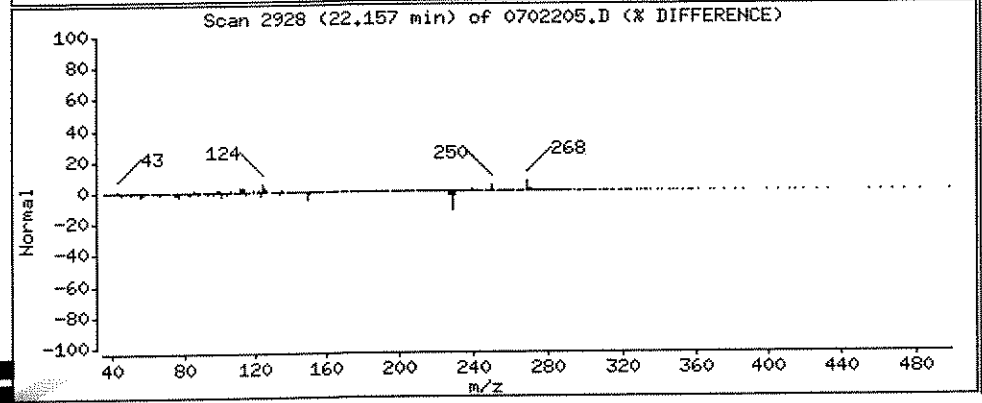
149 Benzo(a)pyrene

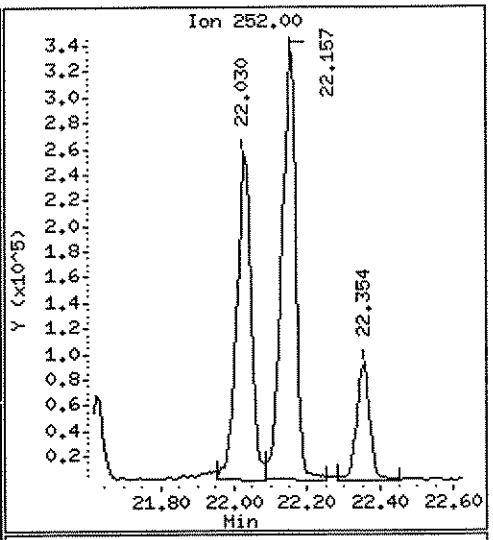
Concentration: 7286 UG/KG

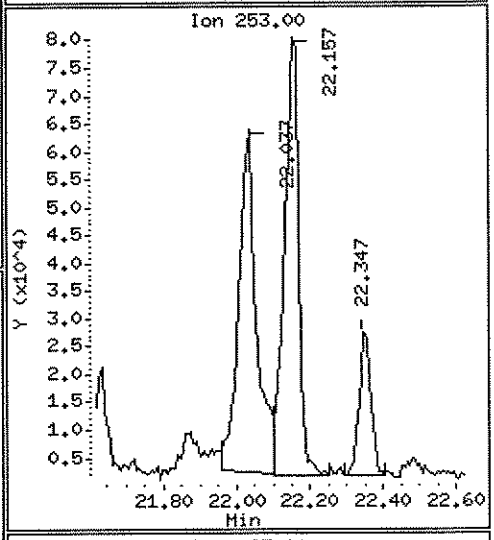


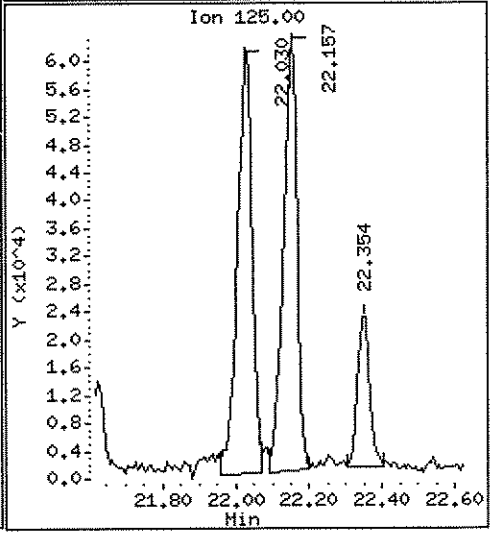












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

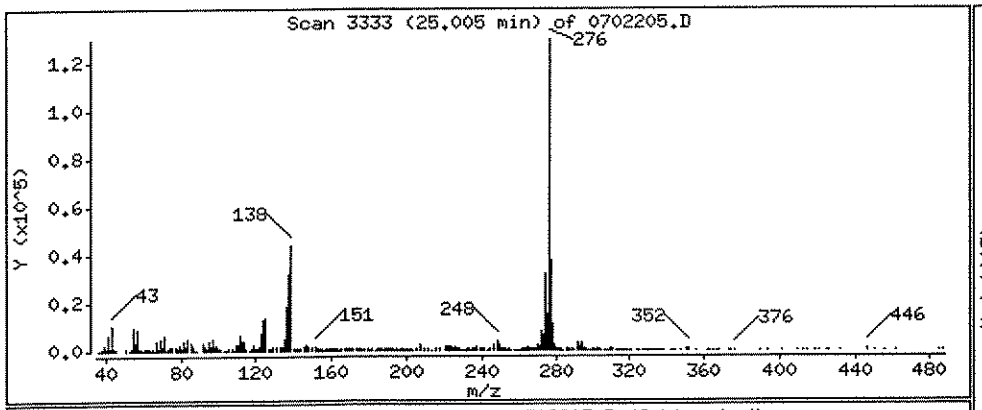
Client ID: 51CFM03S060706 Instrument: bna1.i

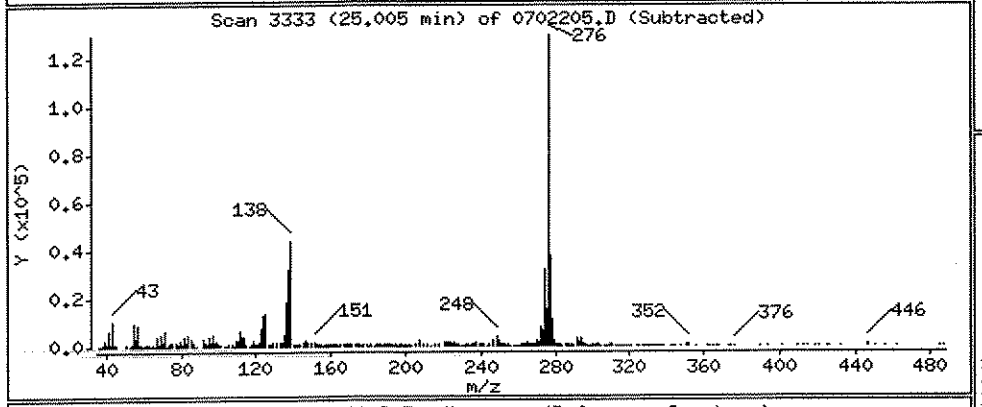
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

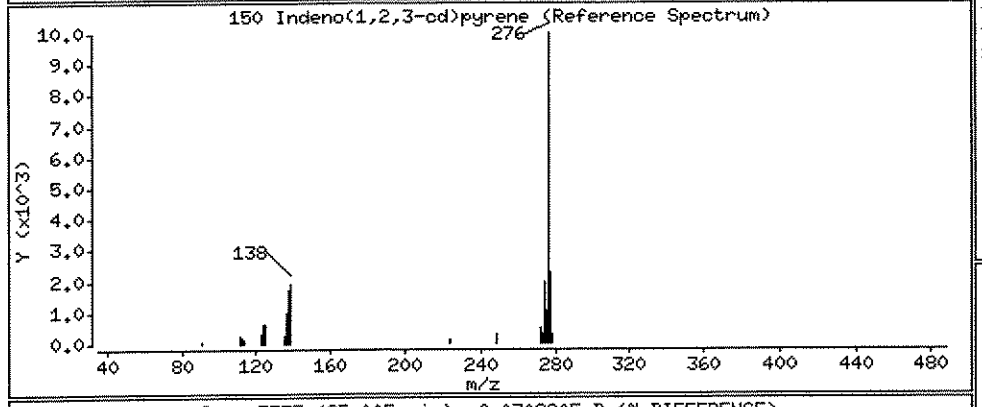
Volume Injected (uL): 0.5 Operator: SDB

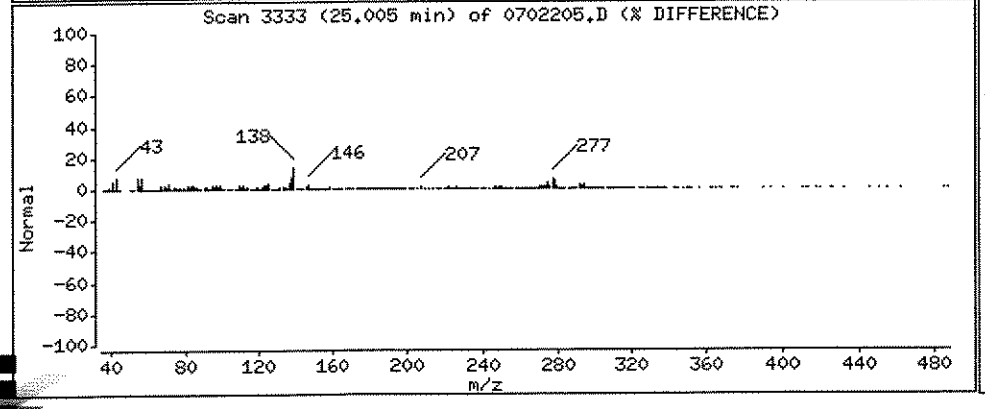
Column phase: fused silica Column diameter: 0.25

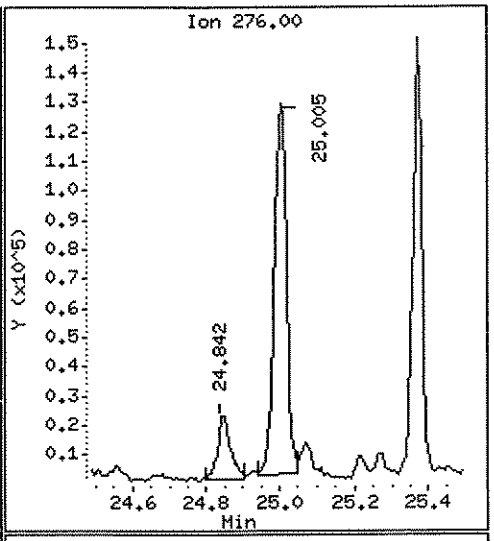
150 Indeno(1,2,3-cd)pyrene Concentration: 2762 UG/KG

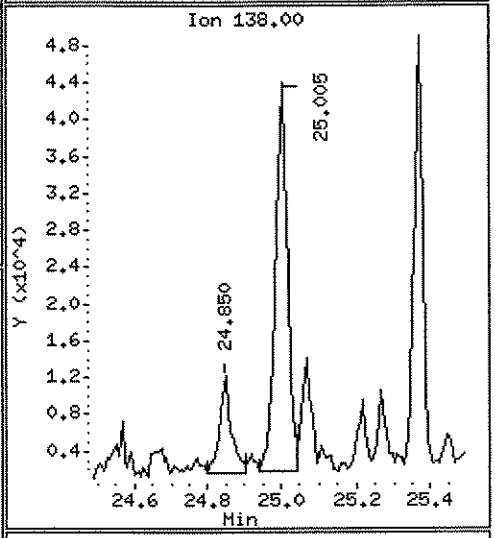


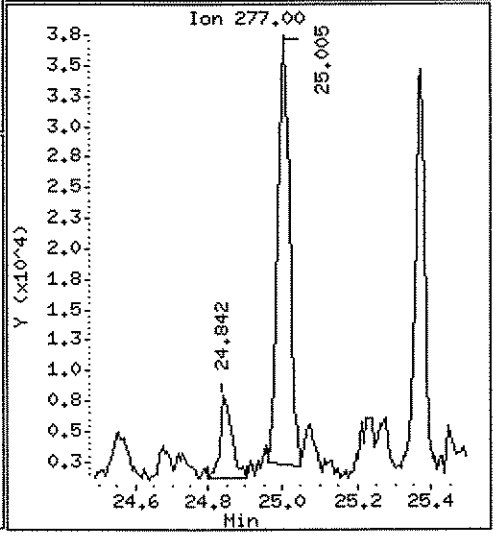












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Date : 10-JUL-2006 16:17

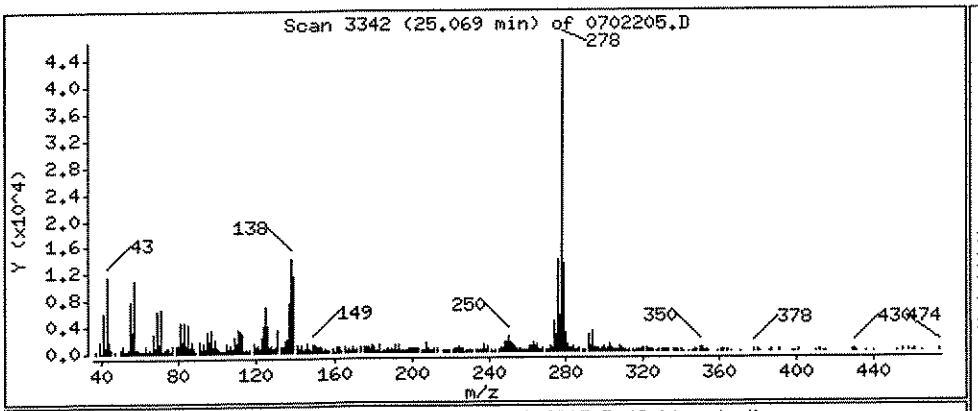
Client ID: 51CFM03S060706 Instrument: bna1.i

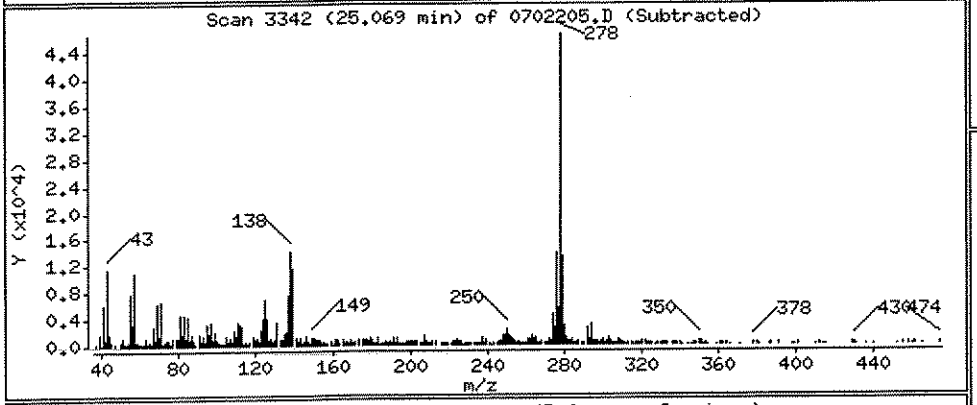
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

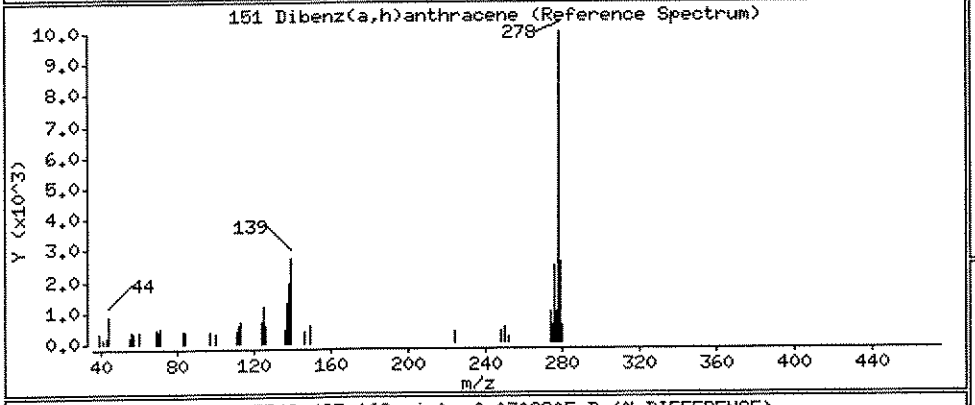
Volume Injected (uL): 0.5 Operator: SDB

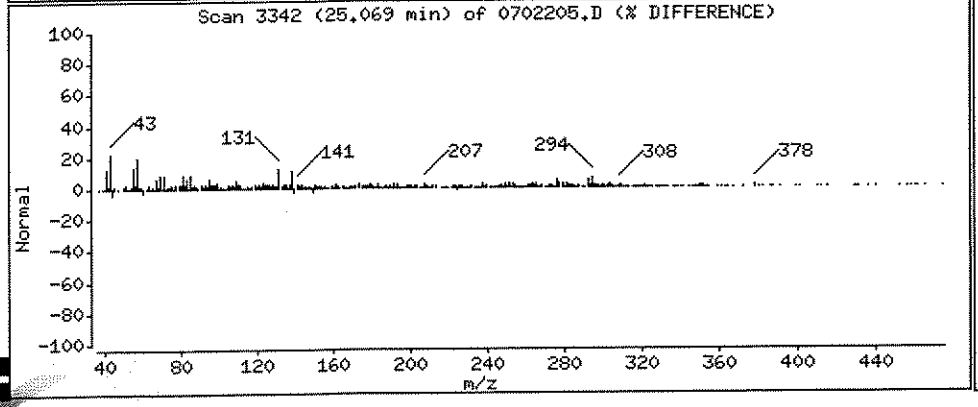
Column phase: fused silica Column diameter: 0.25

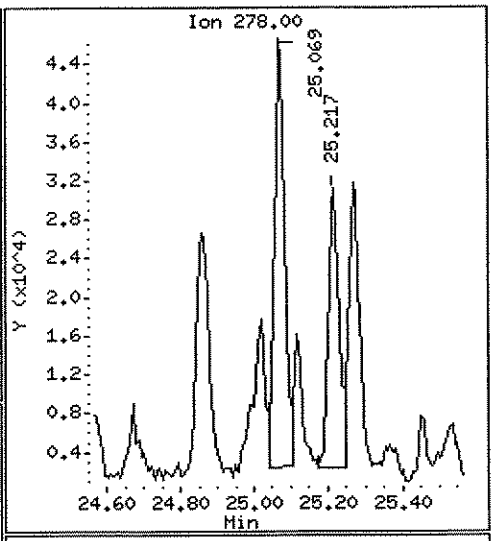
151 Dibenz(a,h)anthracene Concentration: 821.5 UG/KG

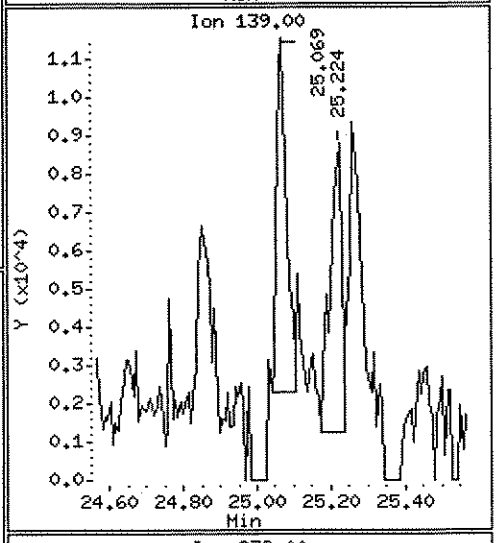


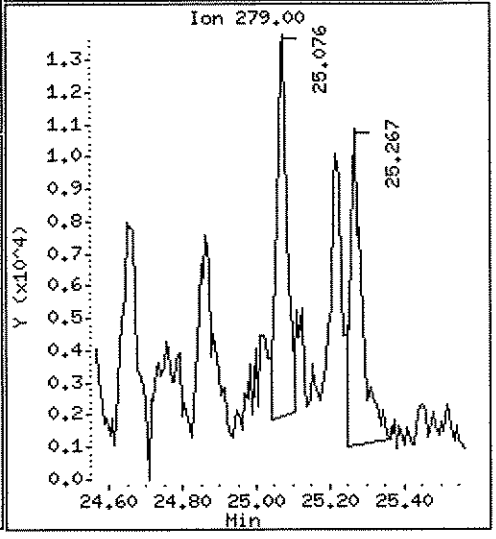












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

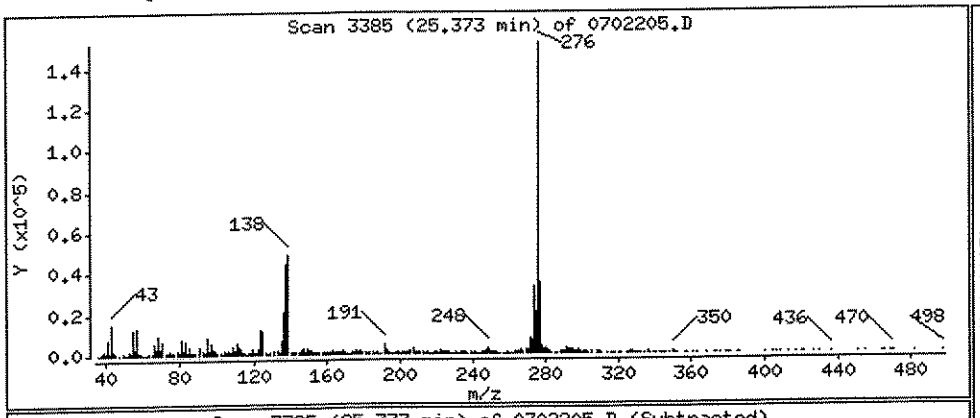
Operator: SDB

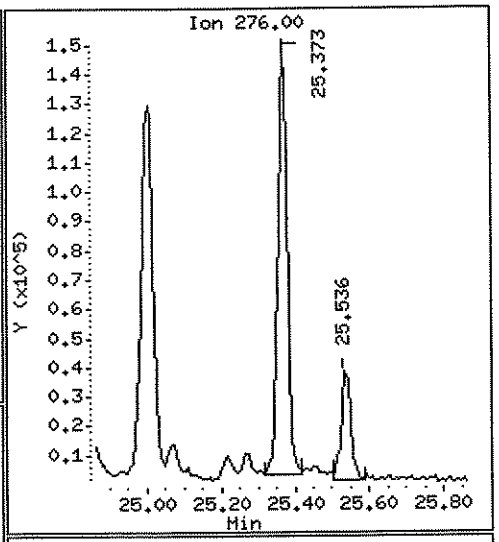
Column phase: fused silica

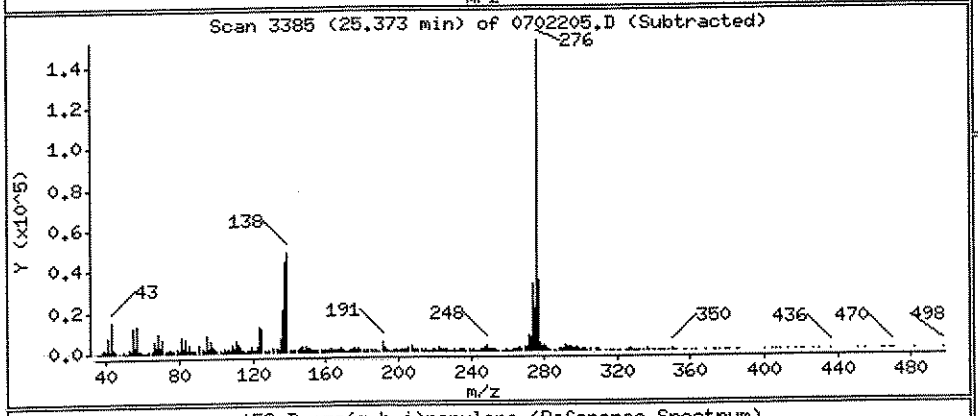
Column diameter: 0.25

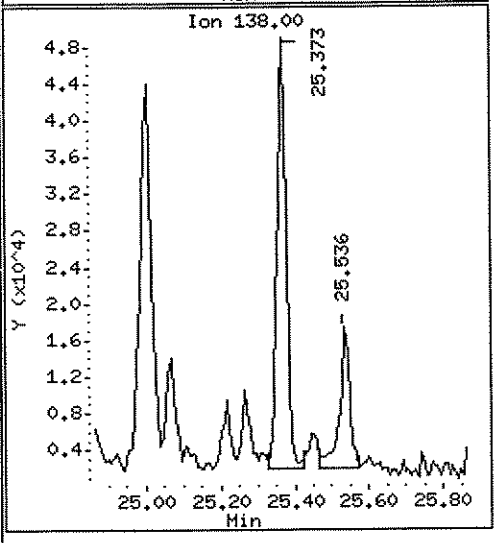
152 Benzo(g,h,i)perylene

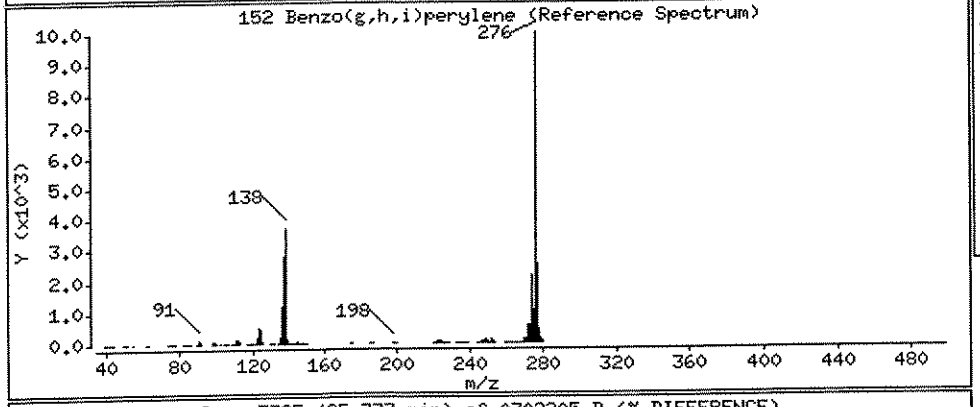
Concentration: 2365 UG/KG

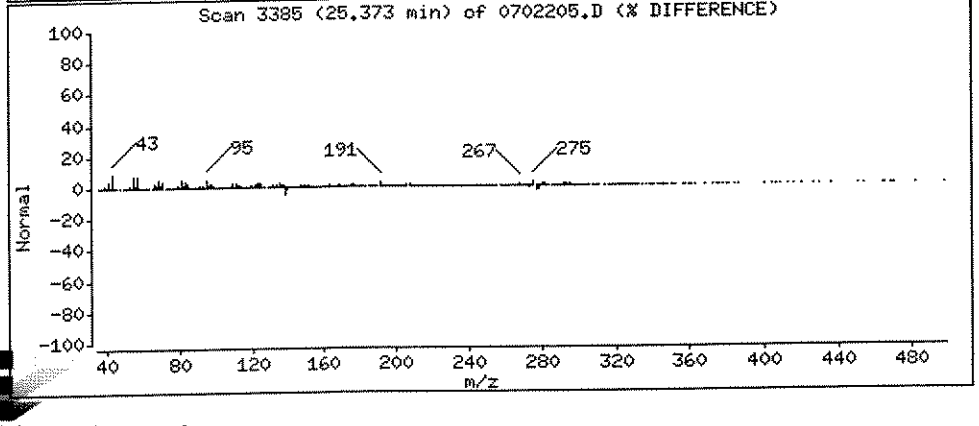












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205D

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 14:29

Injection Volume: 0.5(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	420	3500	1500	JD
208-96-8	Acenaphthylene	420	3500		UD
120-12-7	Anthracene	420	3500	1900	JD
56-55-3	Benzo(a)anthracene	420	3500	5900	D
205-99-2	Benzo(b)fluoranthene	420	3500	6100	D
207-08-9	Benzo(k)fluoranthene	420	3500	3900	D
191-24-2	Benzo(g,h,i)perylene	420	3500	3000	JD
50-32-8	Benzo(a)pyrene	420	2100	5700	D
218-01-9	Chrysene	420	3500	7400	D
53-70-3	Dibenz(a,h)anthracene	420	2100	860	JD
206-44-0	Fluoranthene	420	3500	14000	D
86-73-7	Fluorene	420	3500	1600	JD
193-39-5	Indeno(1,2,3-cd)pyrene	420	3500	3200	JD
91-57-6	2-Methylnaphthalene	420	3500	430	JD
90-12-0	1-Methylnaphthalene	1000	3500		UD
91-20-3	Naphthalene	420	3500		UD
85-01-8	Phenanthrene	420	3500	12000	D
129-00-0	Pyrene	420	3500	10000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 11-JUL-2006 14:29
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.900	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.236	4.235	(1.000)	566806	40.0000	
*	31 Naphthalene-d8	136	5.237	5.240	(1.000)	1945729	40.0000	
$	32 Nitrobenzene-d5	82	4.668	4.668	(0.891)	55833	2.62866	1827(a)
	51 2-Methylnaphthalene	141	5.997	6.004	(1.145)	17287	0.62188	432.3(a)
*	65 Acenaphthene-d10	164	7.642	7.641	(1.000)	977628	40.0000	
$	70 2-Fluorobiphenyl	172	6.544	6.555	(0.856)	79971	2.57049	1787(a)
	76 Acenaphthene	153	7.690	7.703	(1.006)	62730	2.22330	1546(a)
	84 Fluorene	166	8.718	8.727	(1.141)	67707	2.24364	1560(a)
*	97 Phenanthrene-d10	188	10.923	10.923	(1.000)	1321612	40.0000	
	106 Phenanthrene	178	10.971	10.986	(1.004)	642273	17.0446	11850
	107 Anthracene	178	11.082	11.096	(1.015)	99838	2.68367	1866(a)
	110 Fluoranthene	202	14.189	14.195	(1.299)	757499	20.3046	14120
*	124 Chrysene-d12	240	18.330	18.333	(1.000)	1068214	40.0000	

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Report Date: 12-Jul-2006 12:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.762	14.770	(0.805)	644758	15.1136	10510
$ 127 Terphenyl-d14	244	15.533	15.545	(0.847)	65158	2.41560	1679(aR)
130 Benzo(a)anthracene	228	18.288	18.291	(0.998)	291890	8.48075	5896
131 Chrysene	228	18.393	18.409	(1.003)	333282	10.6020	7370
* 145 Perylene-d12	264	22.181	22.175	(1.000)	1098925	40.0000	
147 Benzo(b)fluoranthene	252	21.226	21.248	(0.957)	296436	8.75691	6088(M)
148 Benzo(k)fluoranthene	252	21.281	21.317	(0.959)	197809	5.63217	3915(M)
149 Benzo(a)pyrene	252	22.000	22.017	(0.992)	237829	8.14751	5664
150 Indeno(1,2,3-cd)pyrene	276	24.896	24.921	(1.122)	114401	4.59354	3193(a)
151 Dibenz(a,h)anthracene	278	24.973	24.998	(1.126)	31002	1.23651	859.6(a)
152 Benzo(g,h,i)perylene	276	25.278	25.301	(1.140)	112898	4.36831	3037(a)

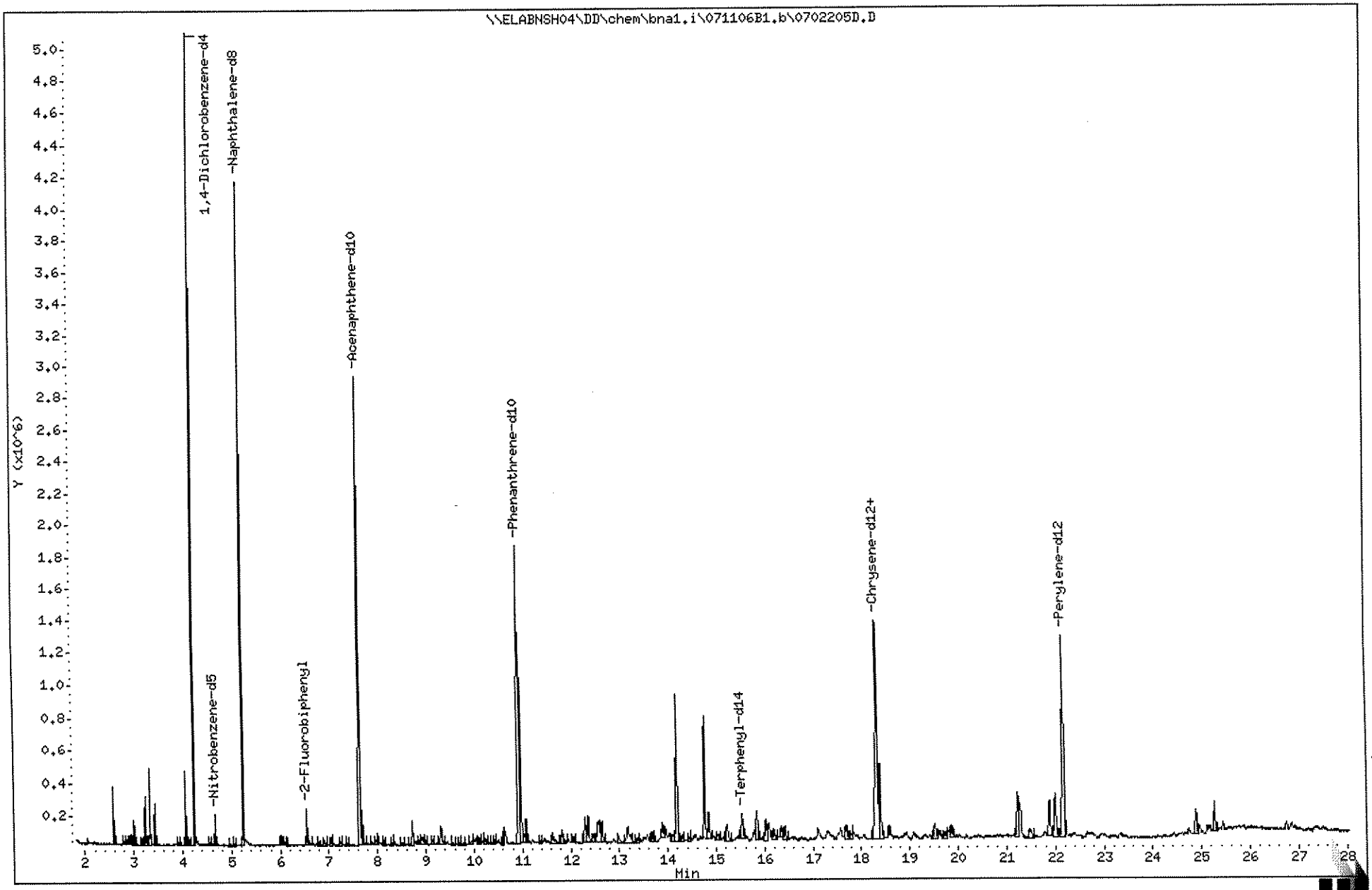
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Date : 11-JUL-2006 14:29
Client ID: 51CFM03S060706
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000129



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

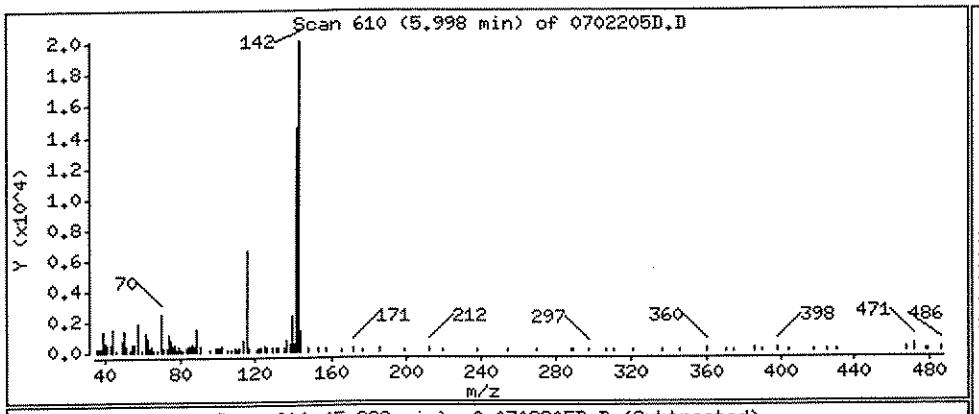
Client ID: 51CFM03S060706 Instrument: bna1.i

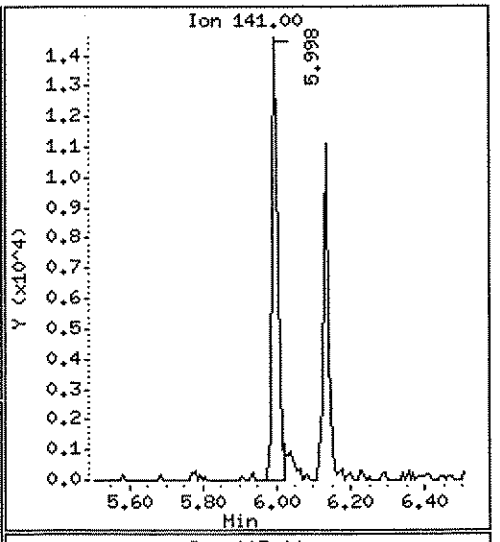
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

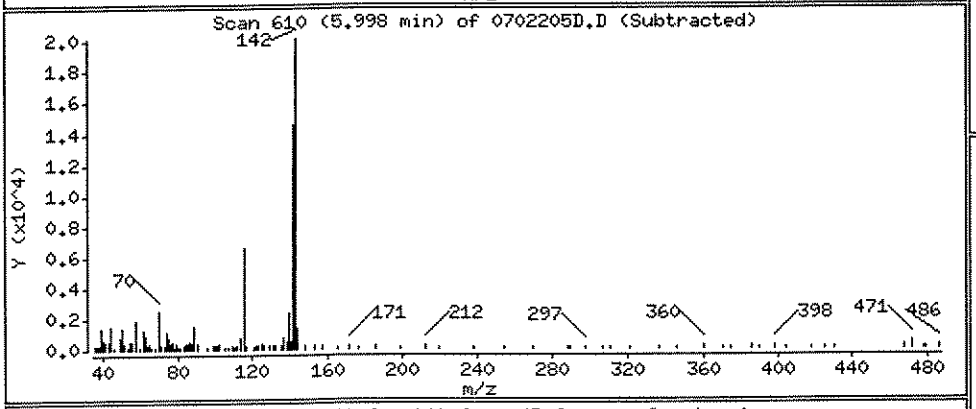
Volume Injected (uL): 0.5 Operator: SDB

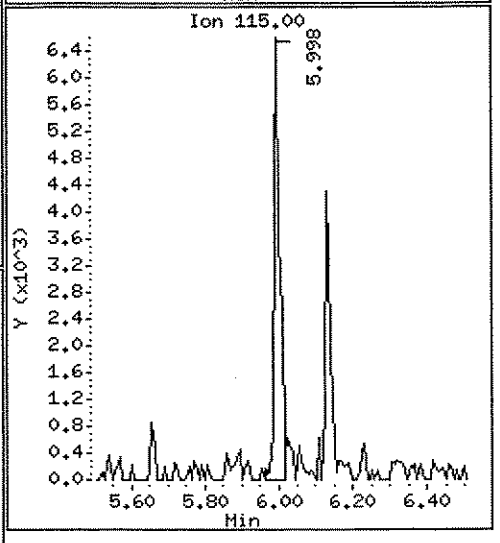
Column phase: fused silica Column diameter: 0.25

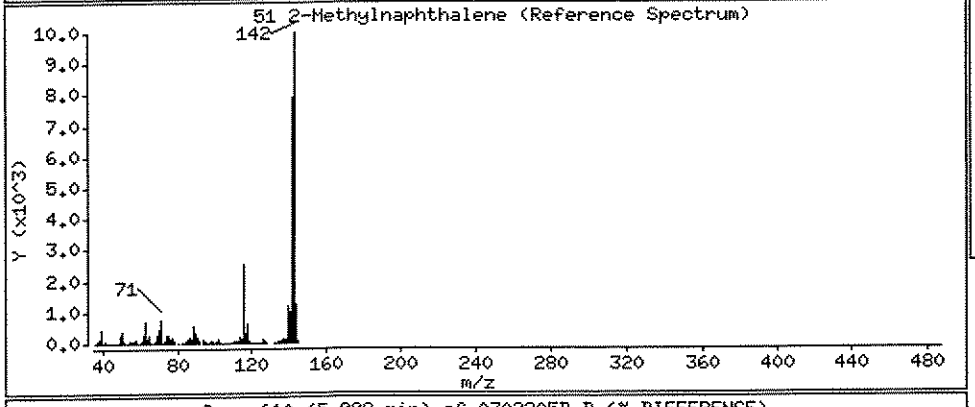
51 2-Methylnaphthalene Concentration: 432.3 UG/KG

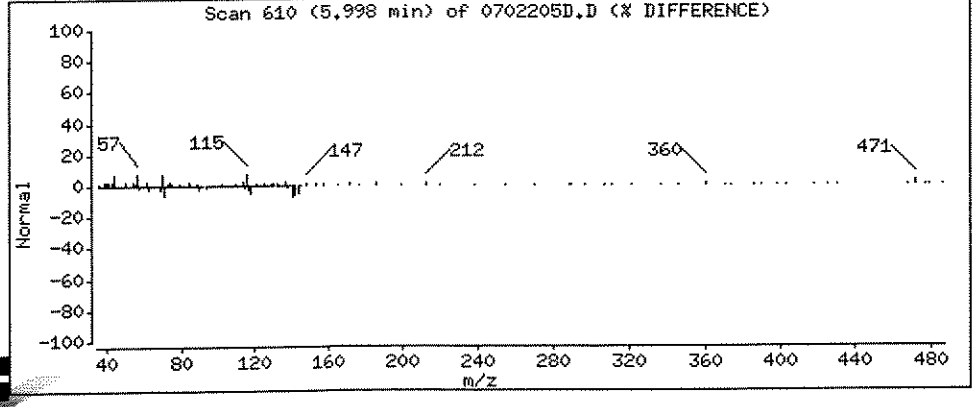












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Date : 11-JUL-2006 14:29

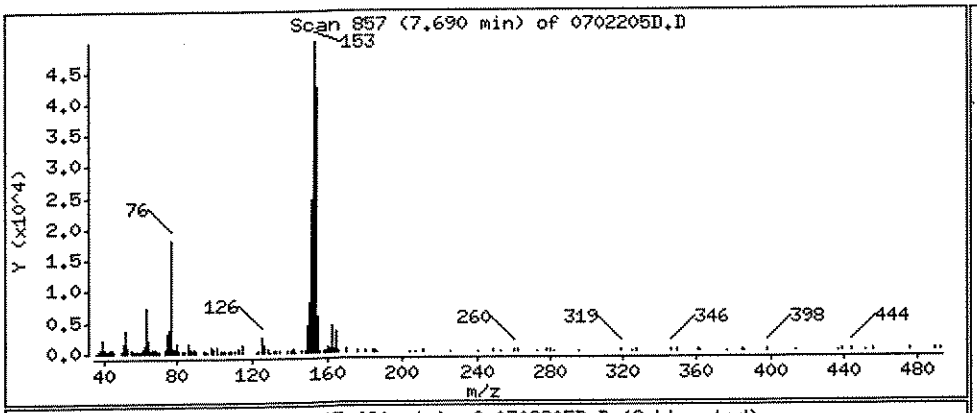
Client ID: 51CFM03S060706 Instrument: bna1.i

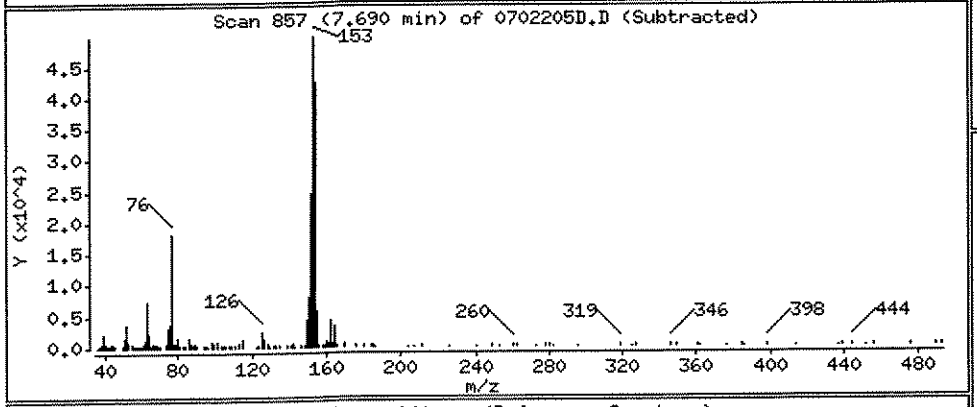
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

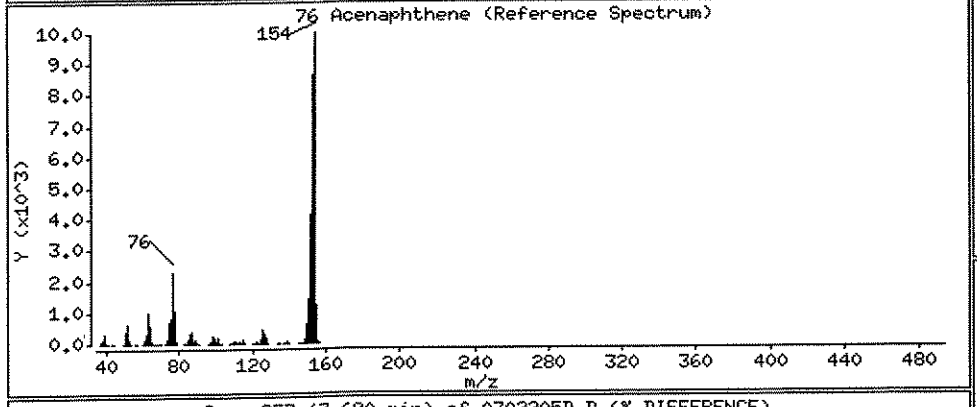
Volume Injected (uL): 0.5 Operator: SDB

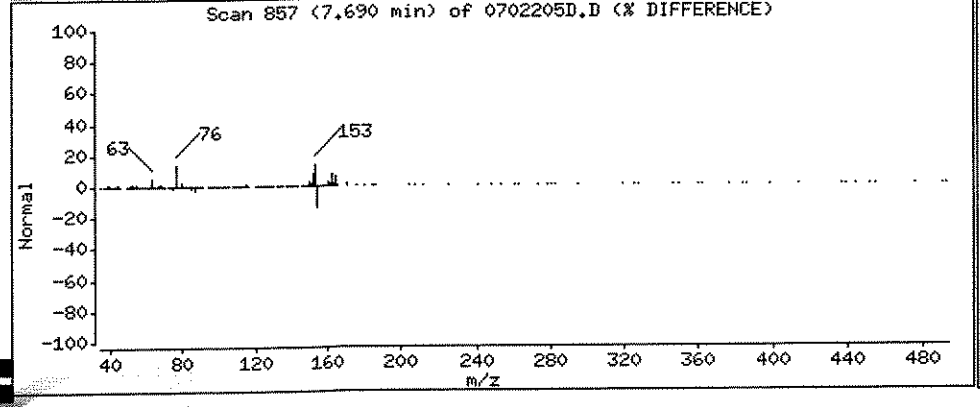
Column phase: fused silica Column diameter: 0.25

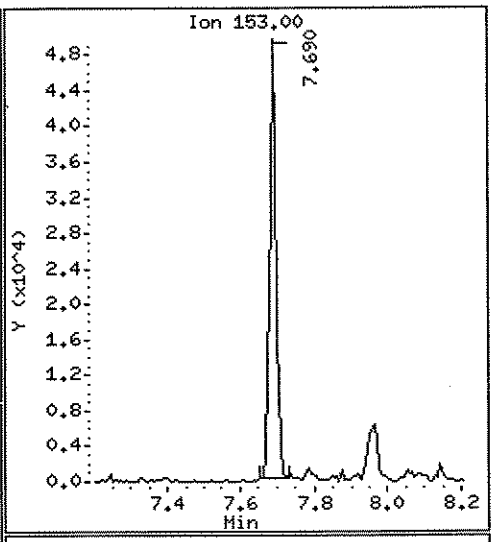
76 Acenaphthene Concentration: 1546 UG/KG

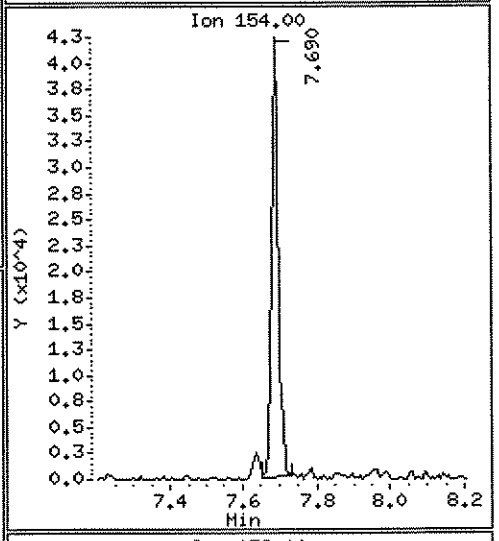


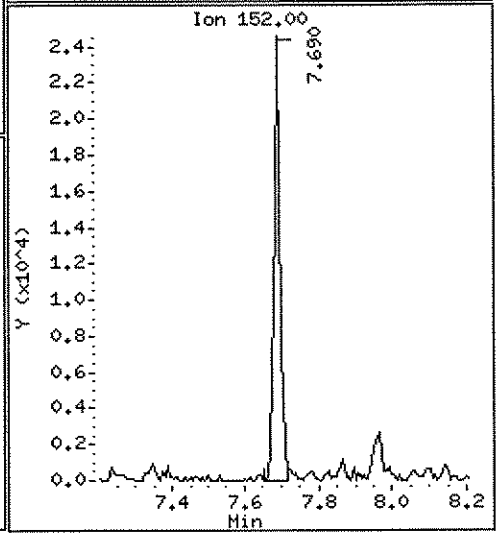












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000131

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

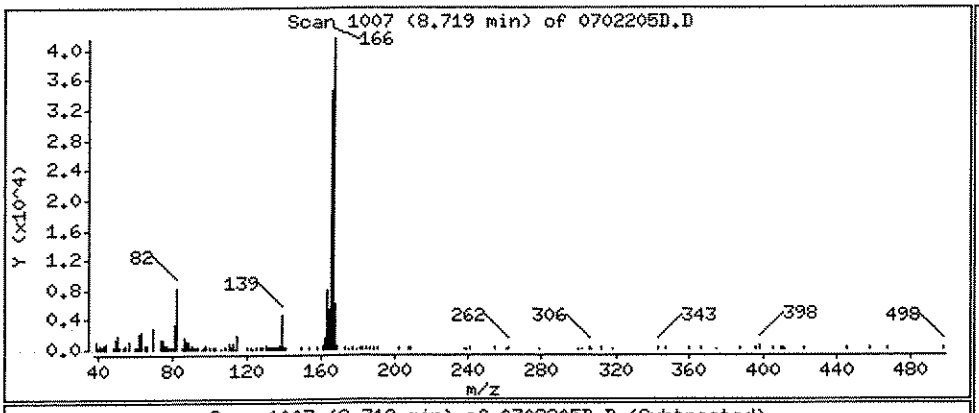
Client ID: 51CFM03S060706 Instrument: bna1.i

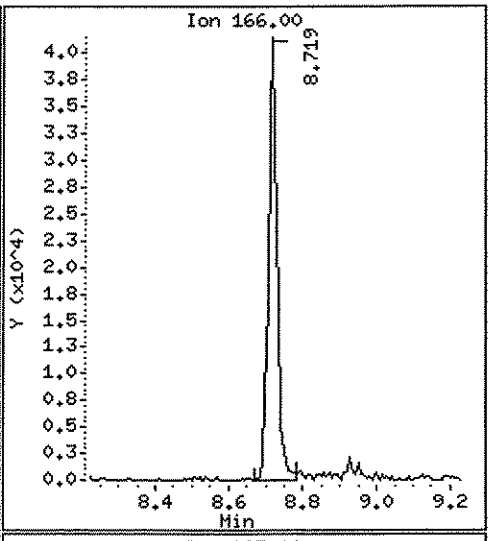
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

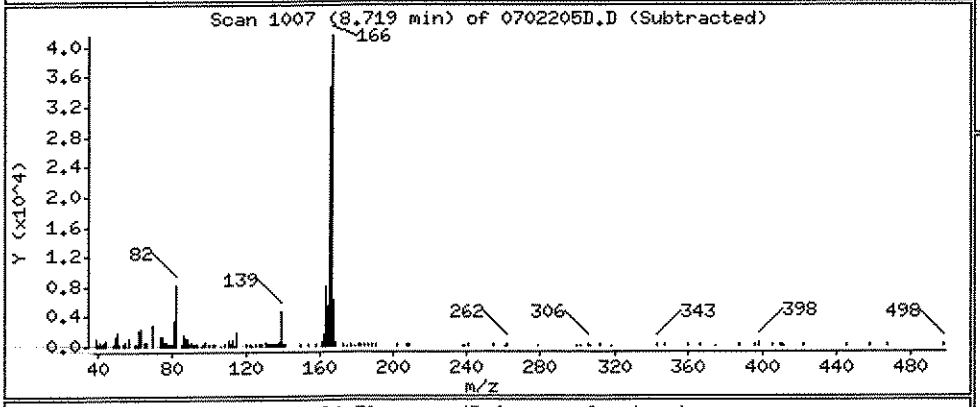
Volume Injected (uL): 0.5 Operator: SDB

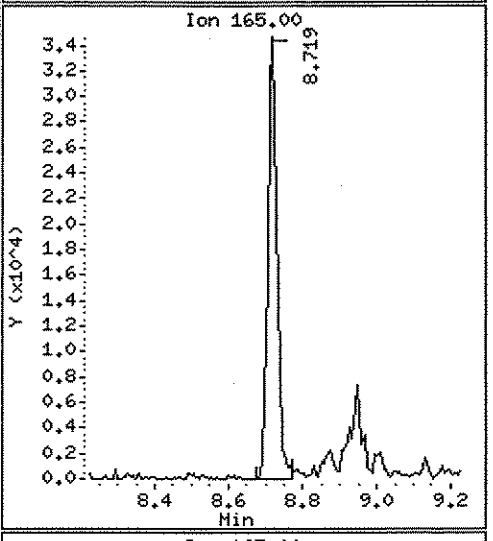
Column phase: fused silica Column diameter: 0.25

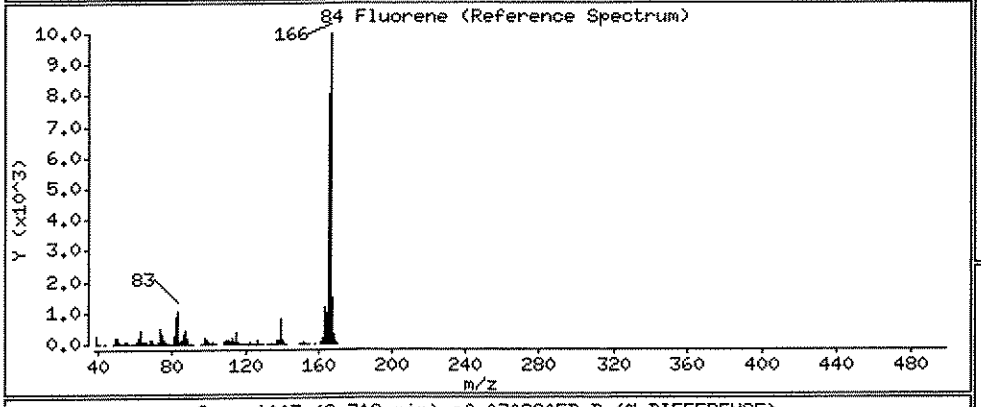
84 Fluorene Concentration: 1560 UG/KG

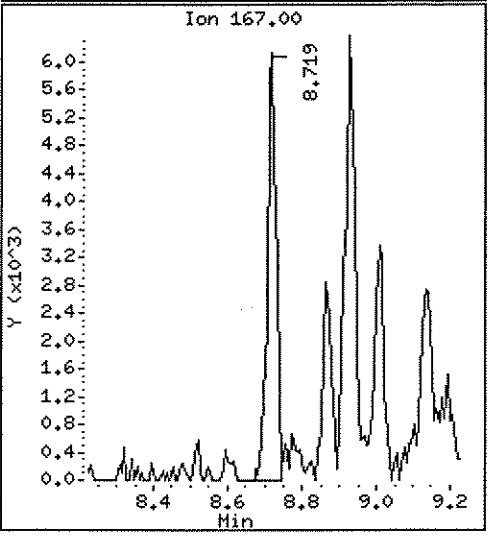


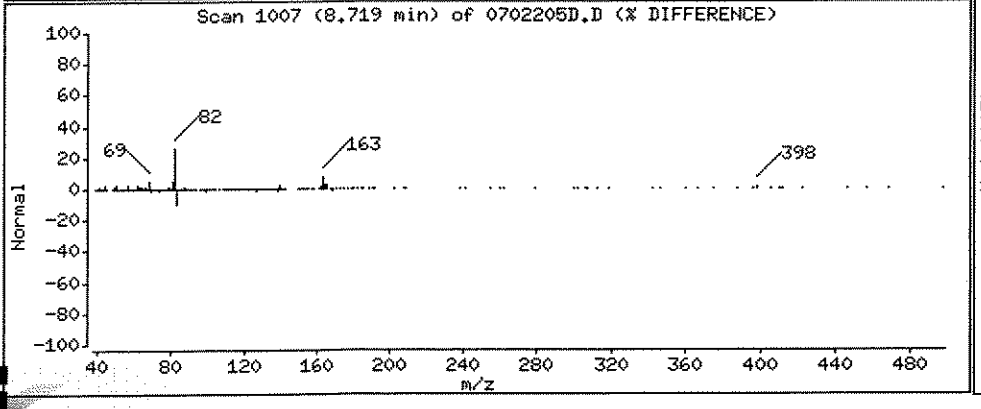












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

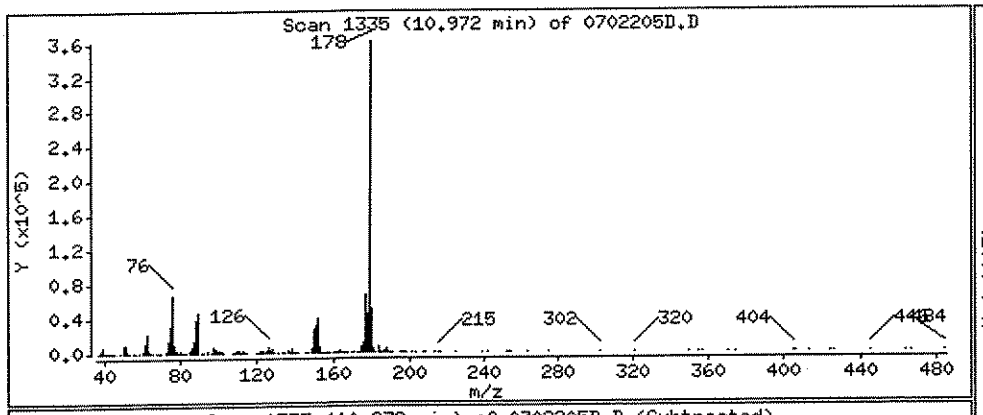
Client ID: 51CFH03S060706 Instrument: bna1.i

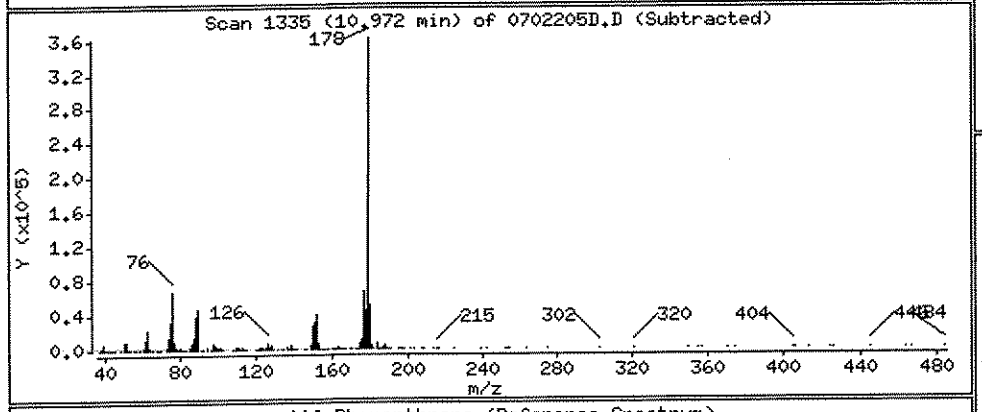
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

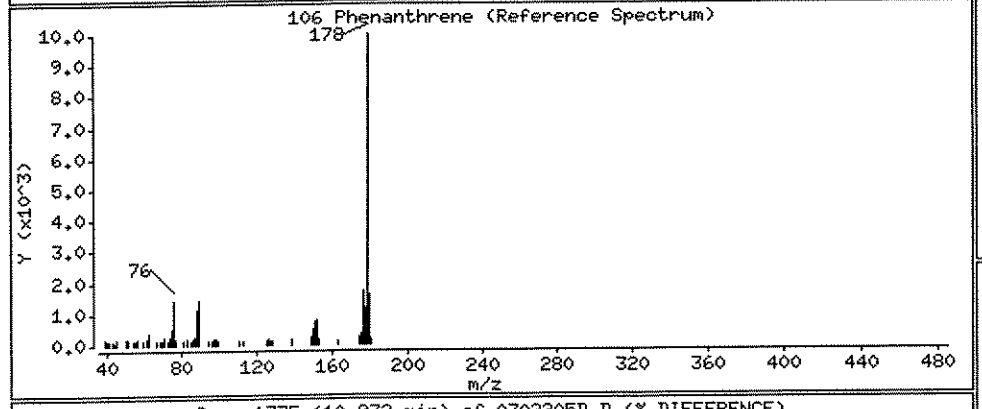
Volume Injected (uL): 0.5 Operator: SDB

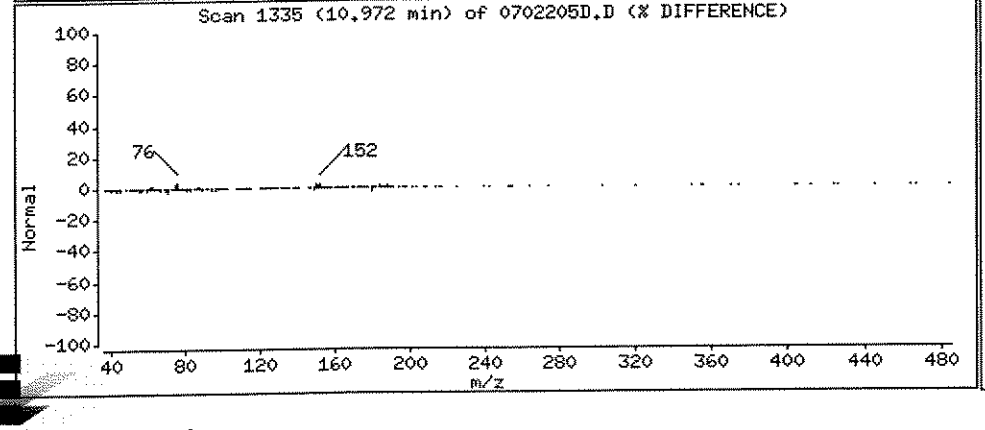
Column phase: fused silica Column diameter: 0.25

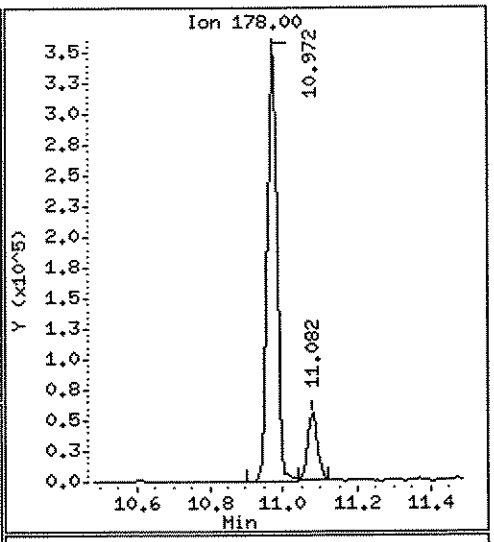
106 Phenanthrene Concentration: 11850 UG/KG

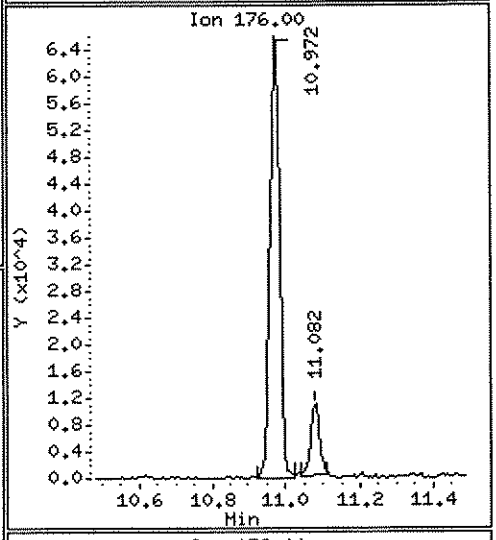


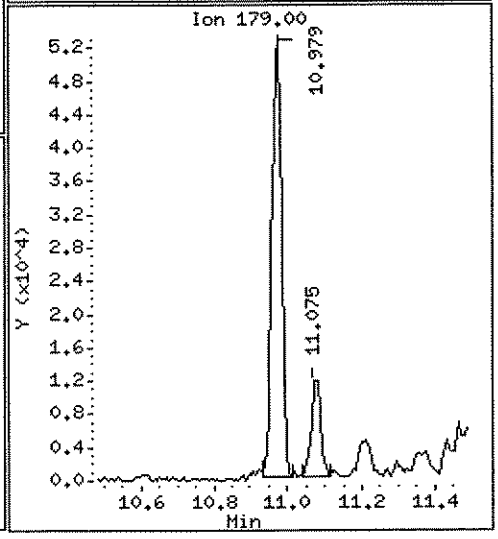












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

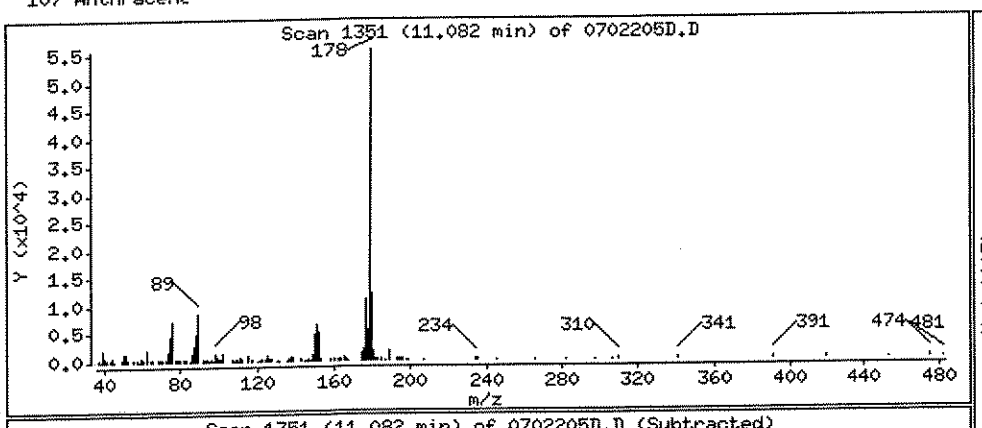
Operator: SDB

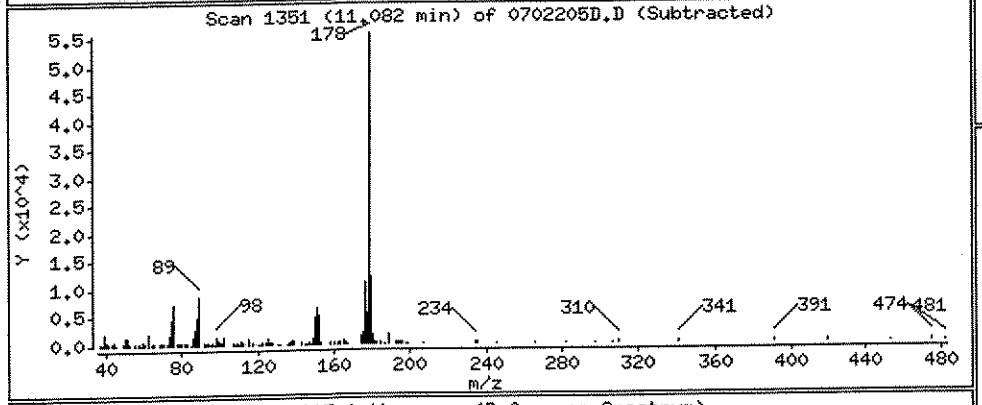
Column phase: fused silica

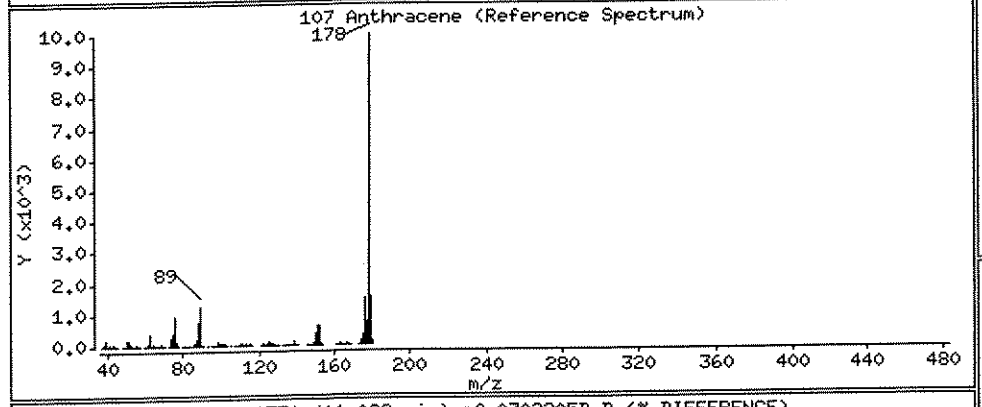
Column diameter: 0.25

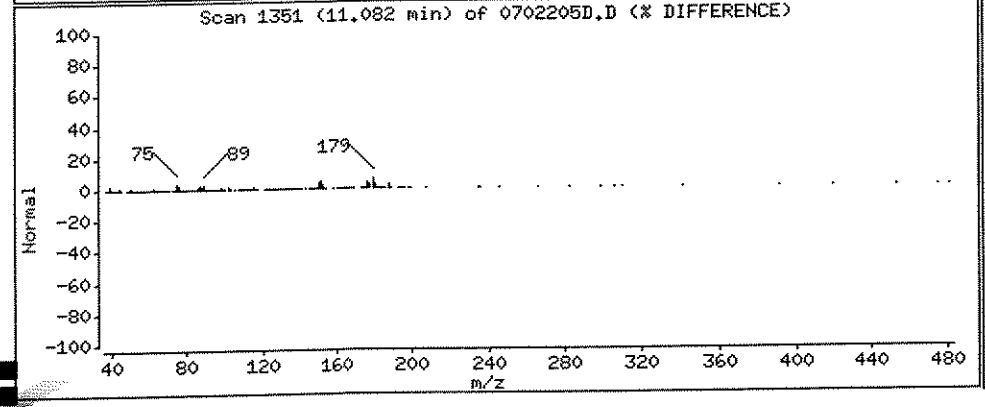
107 Anthracene

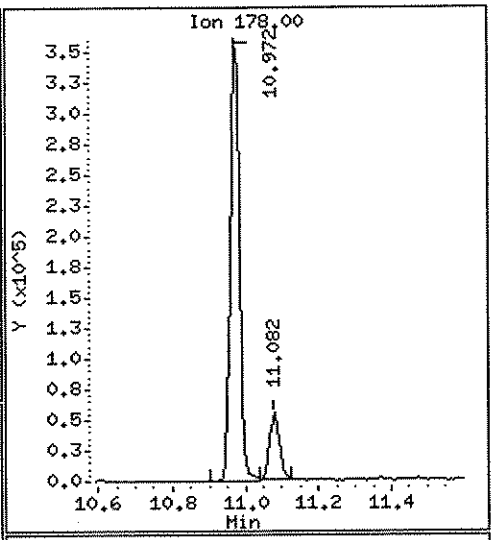
Concentration: 1866 UG/KG

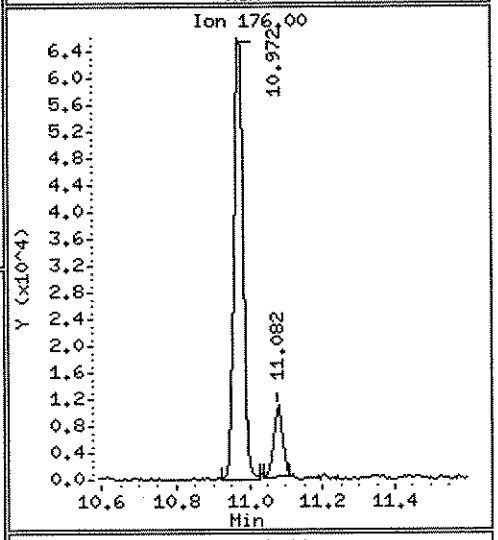


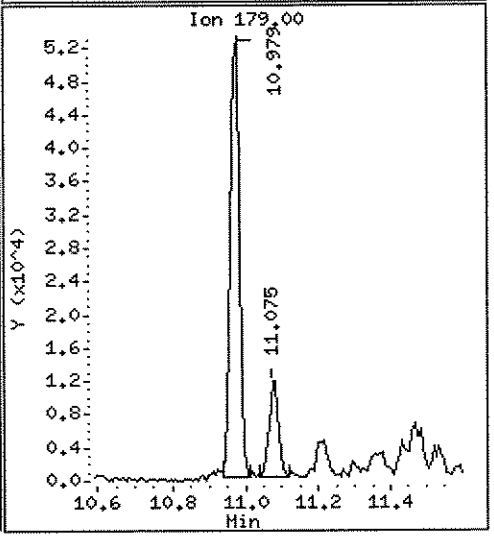












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

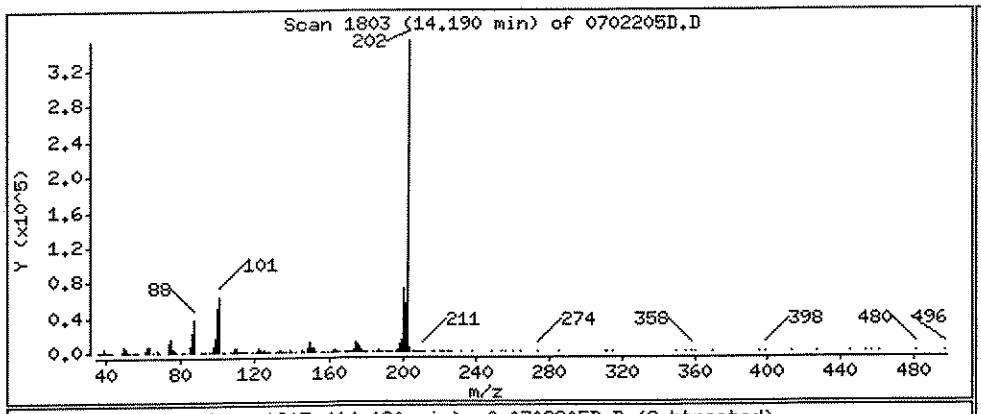
Client ID: 51CFM03S060706 Instrument: bna1.i

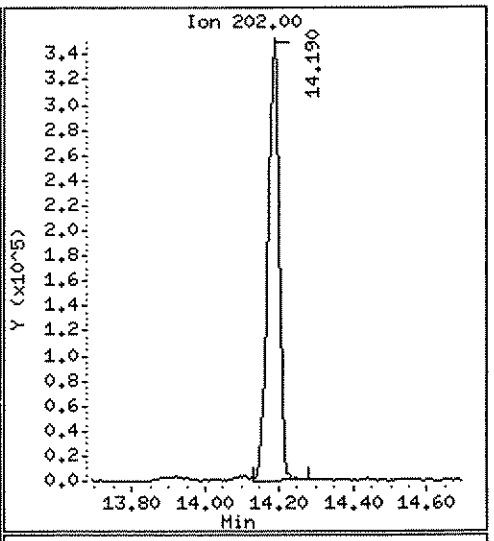
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

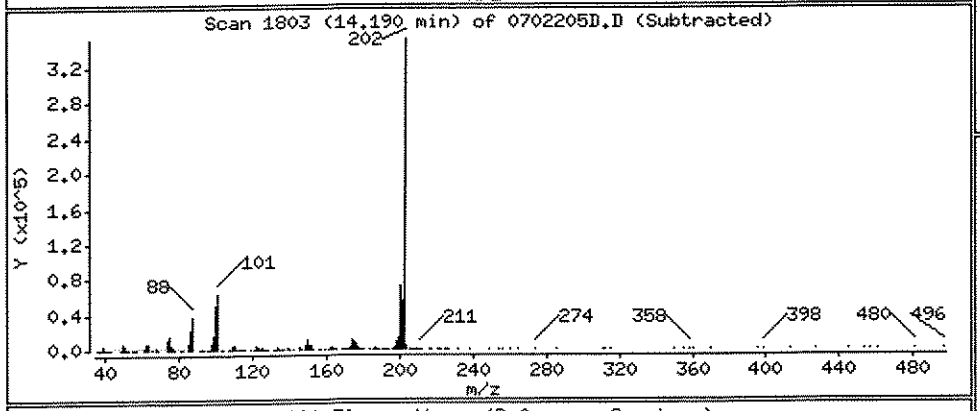
Volume Injected (uL): 0.5 Operator: SDB

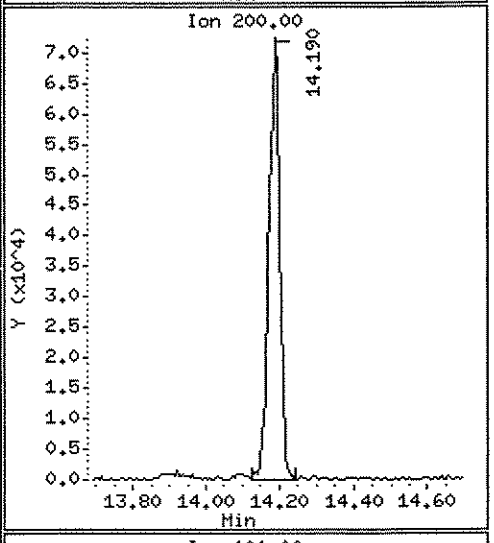
Column phase: fused silica Column diameter: 0.25

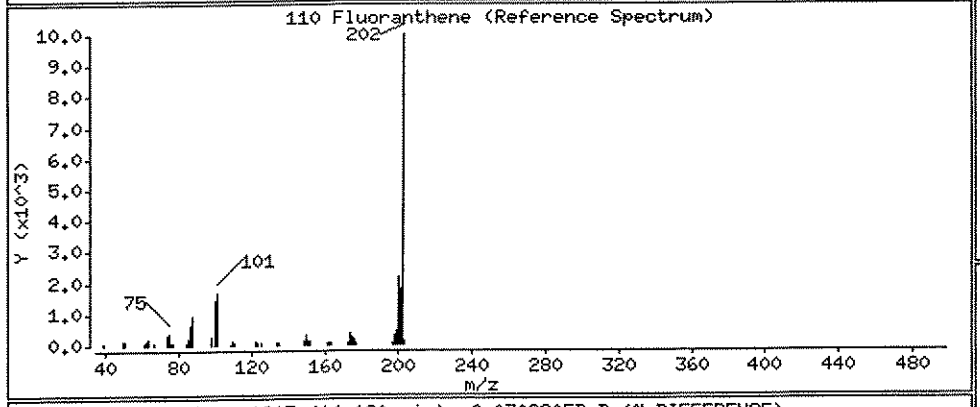
110 Fluoranthene Concentration: 14120 UG/KG

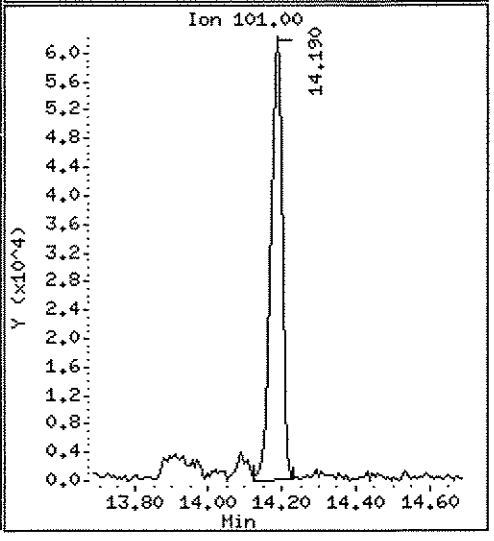


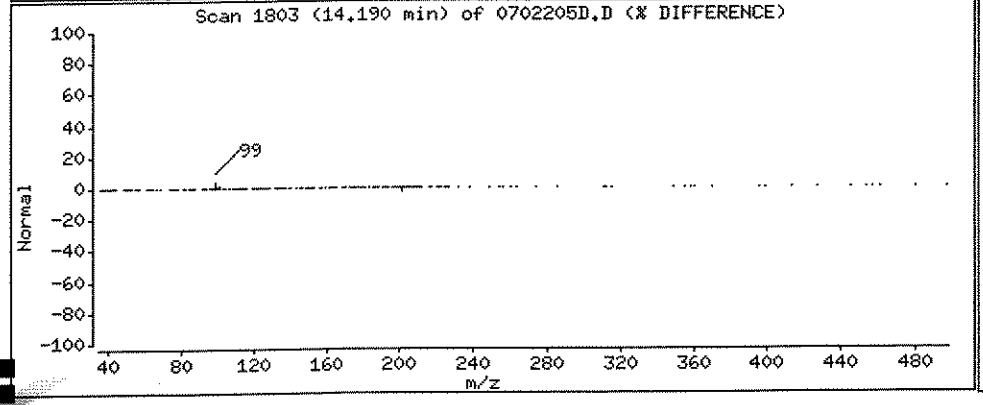












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

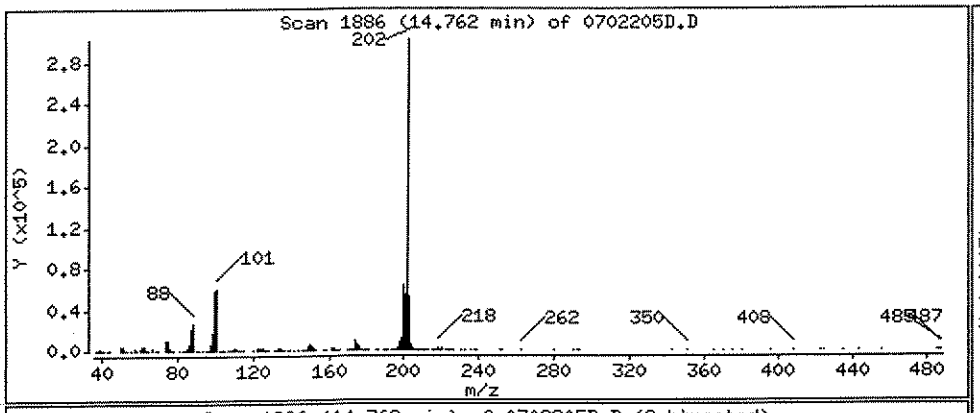
Client ID: 51CFM03S060706 Instrument: bna1.i

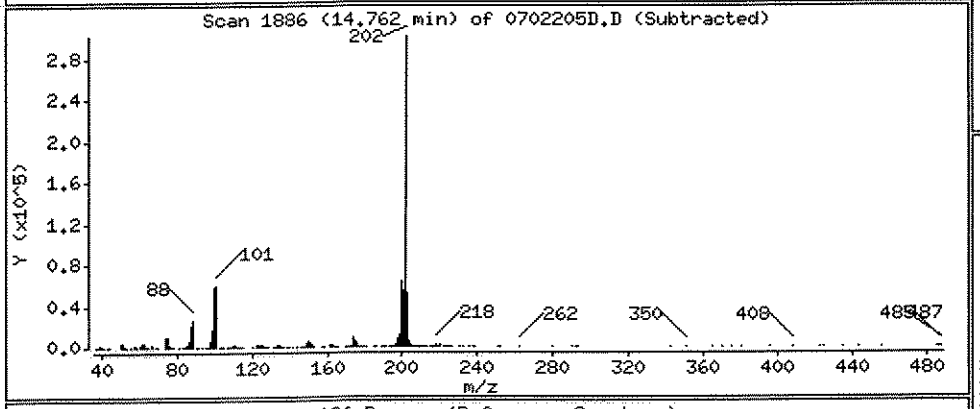
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

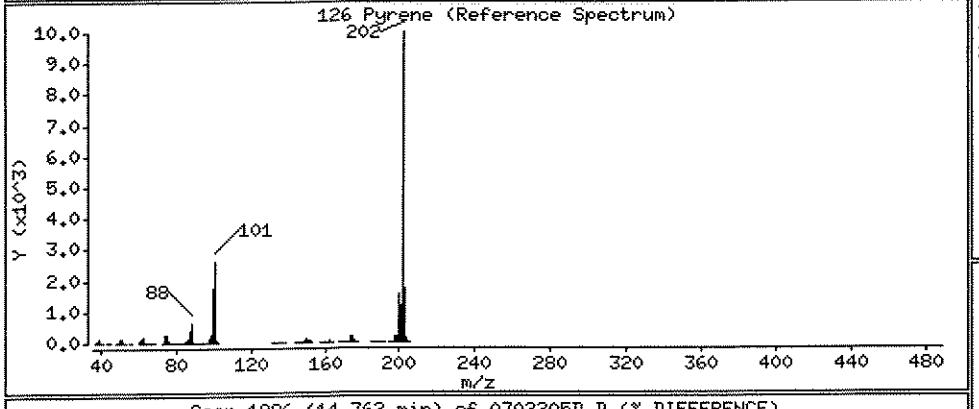
Volume Injected (uL): 0.5 Operator: SDB

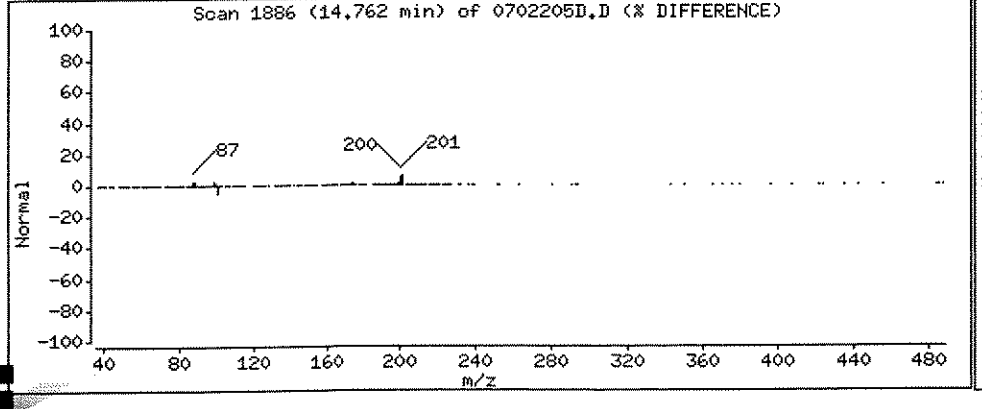
Column phase: fused silica Column diameter: 0.25

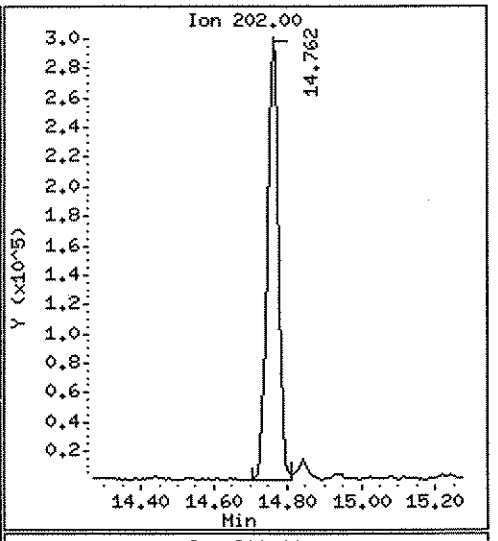
126 Pyrene Concentration: 10510 UG/KG

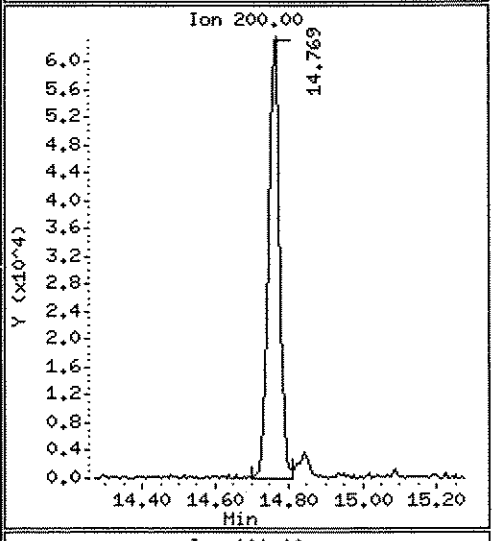


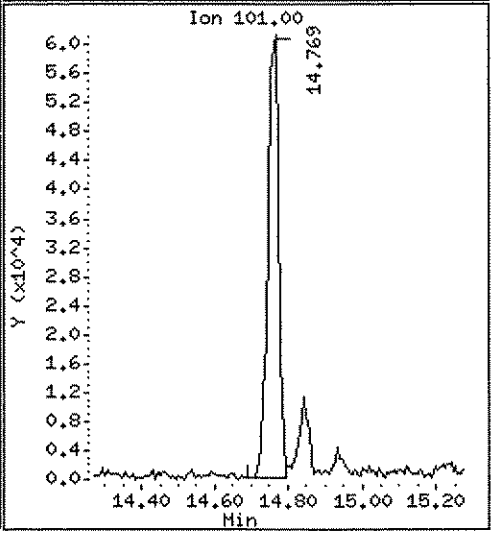












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

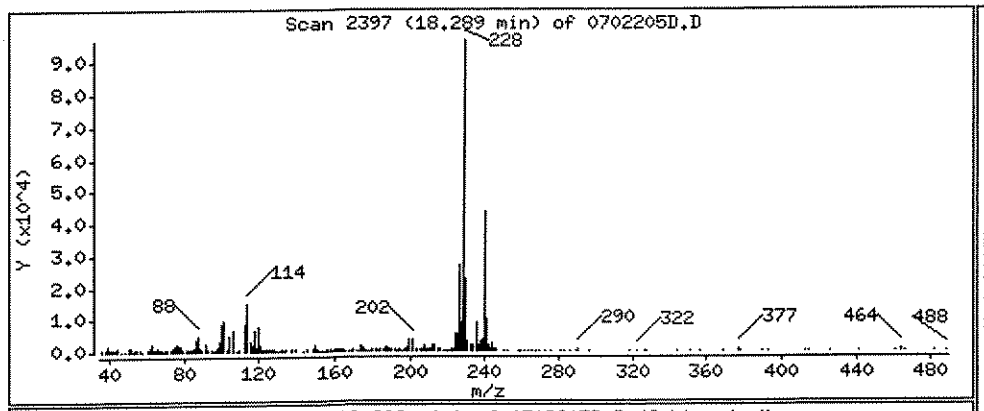
Client ID: 51CFM03S060706 Instrument: bna1.i

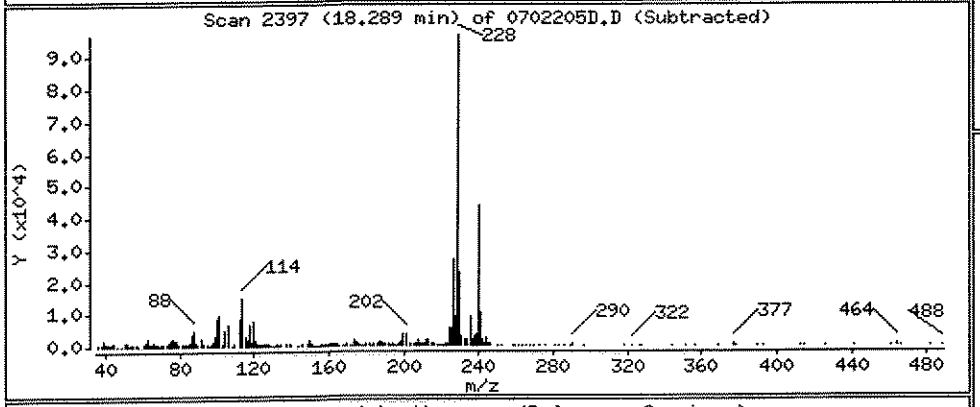
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

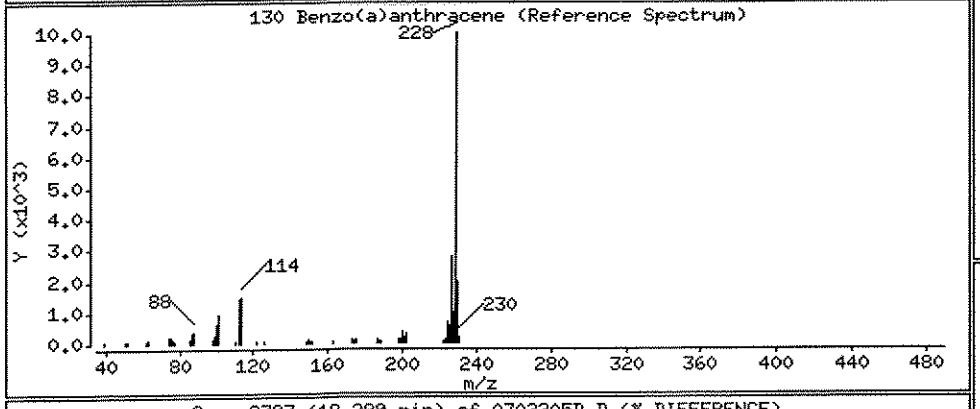
Volume Injected (uL): 0.5 Operator: SDB

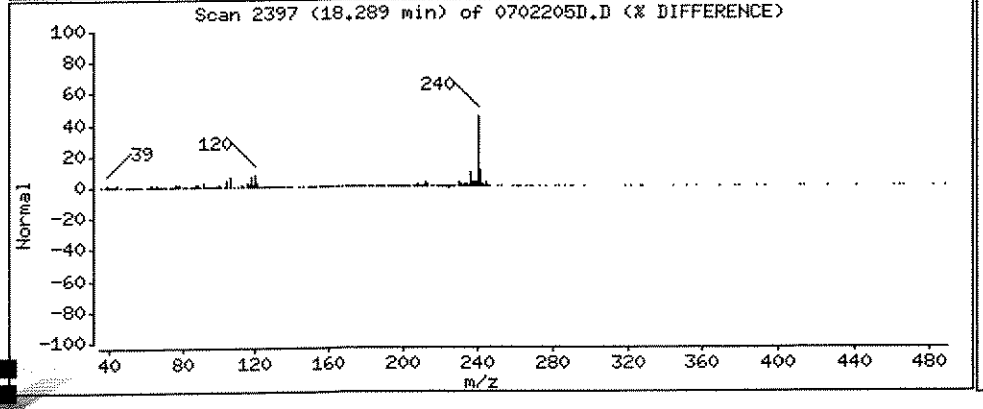
Column phase: fused silica Column diameter: 0.25

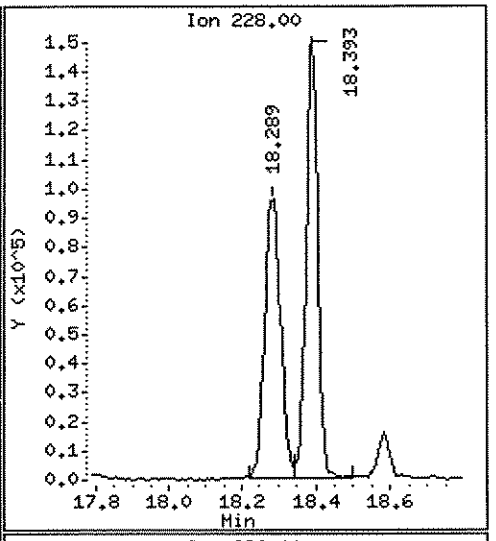
130 Benzo(a)anthracene Concentration: 5896 UG/KG

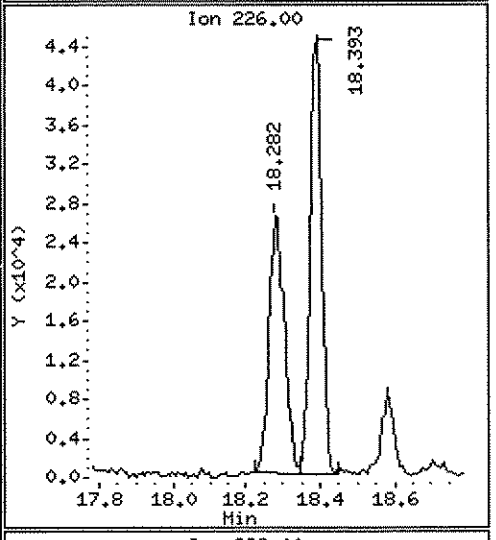


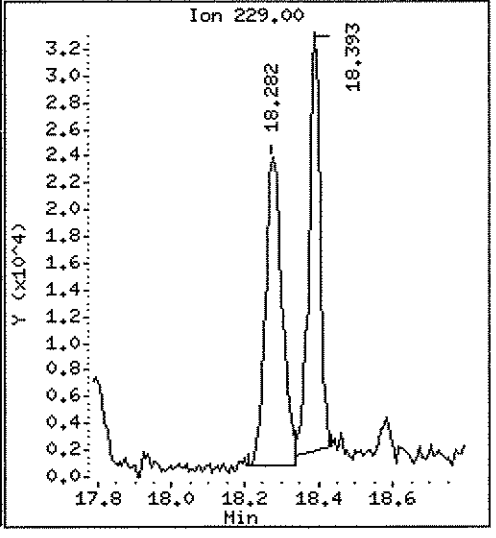












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

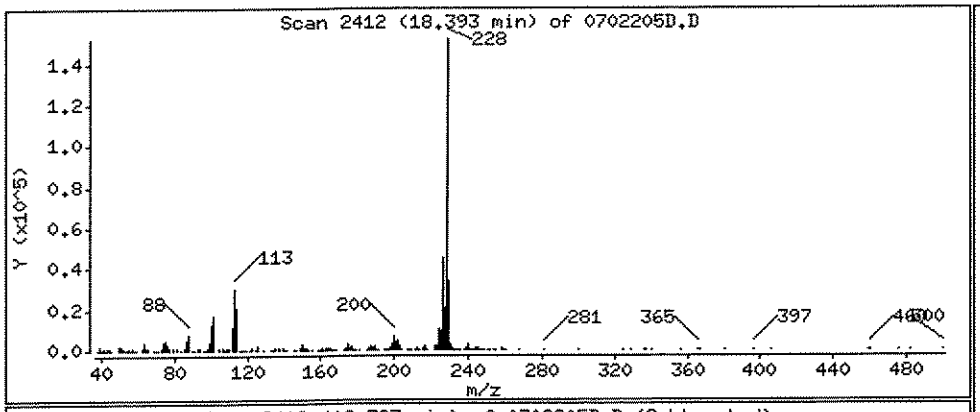
Client ID: 51CFM03S060706 Instrument: bna1.i

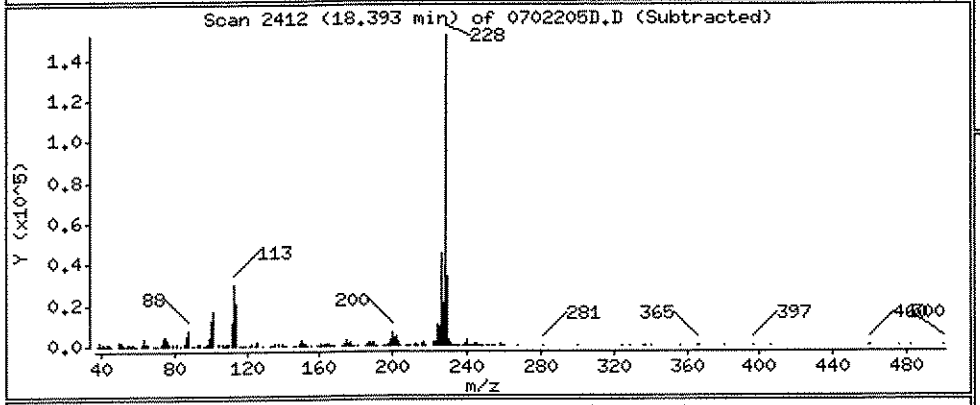
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

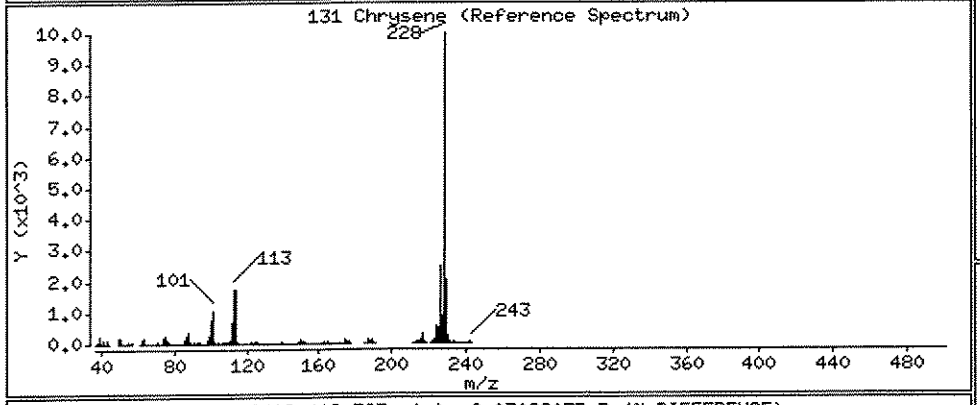
Volume Injected (uL): 0.5 Operator: SDB

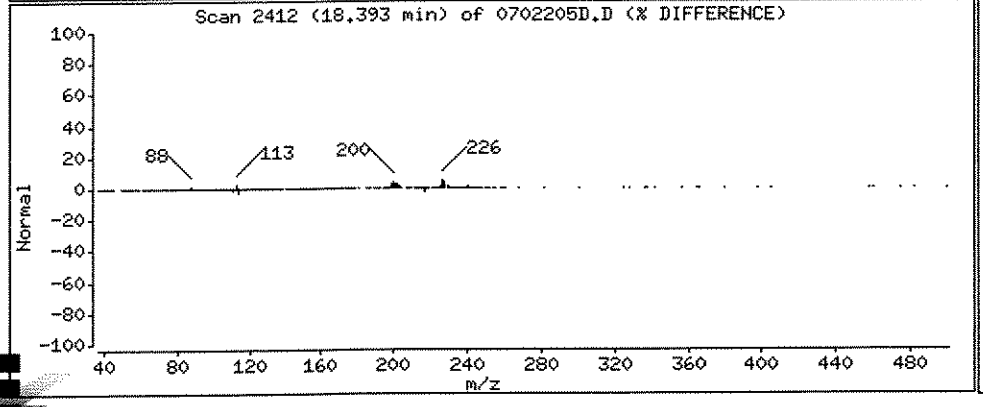
Column phase: fused silica Column diameter: 0.25

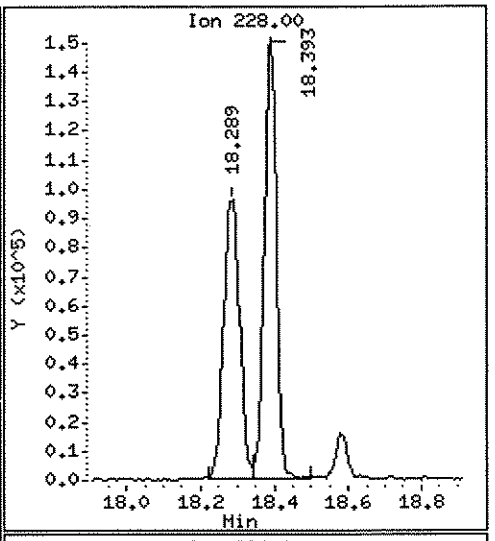
131 Chrysene Concentration: 7370 UG/KG

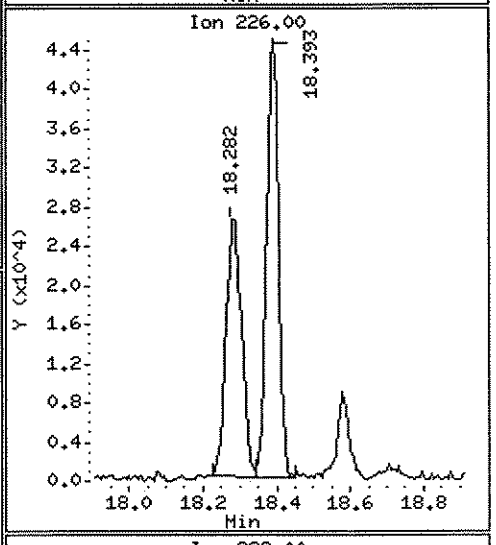


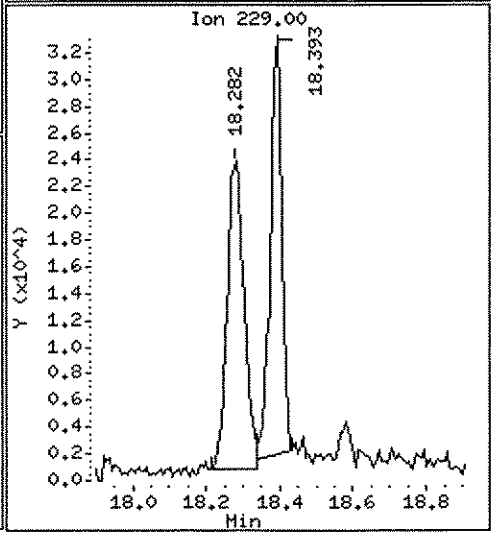












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

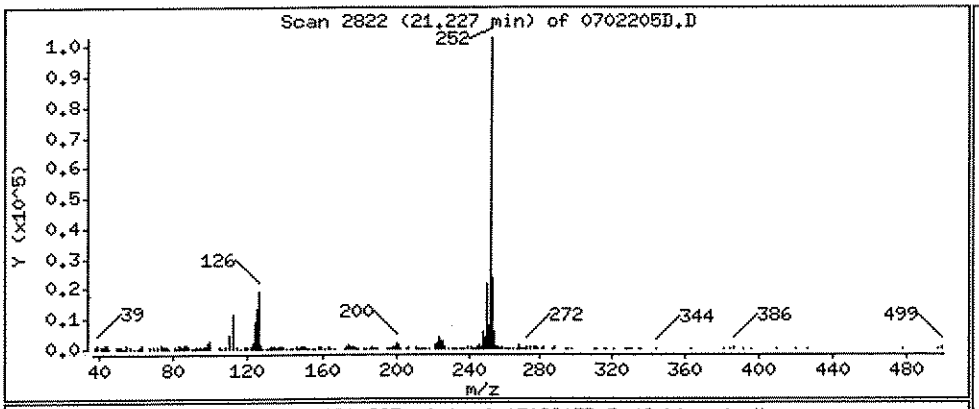
Client ID: 51CFM03S060706 Instrument: bna1.i

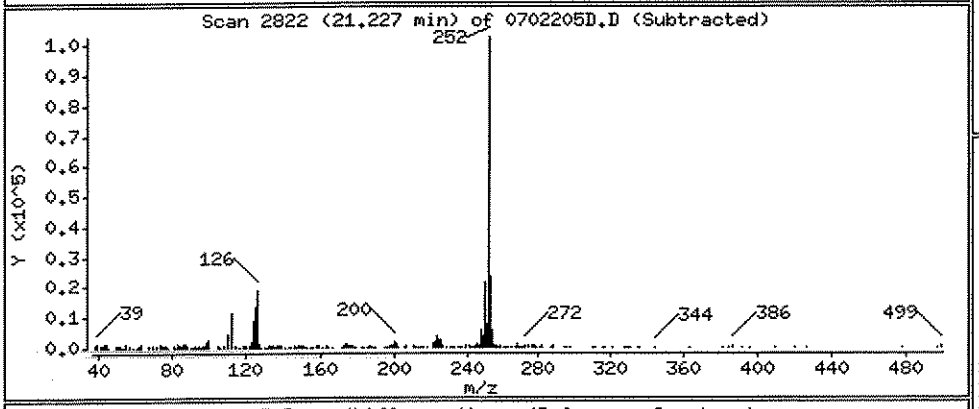
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

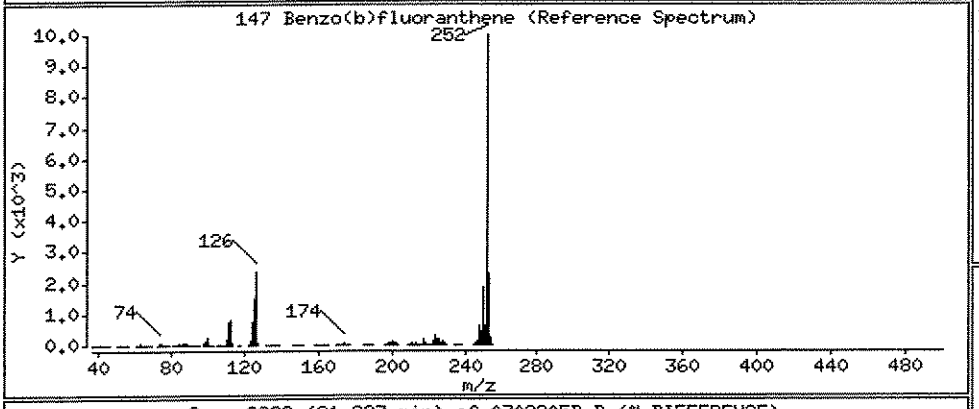
Volume Injected (uL): 0.5 Operator: SDB

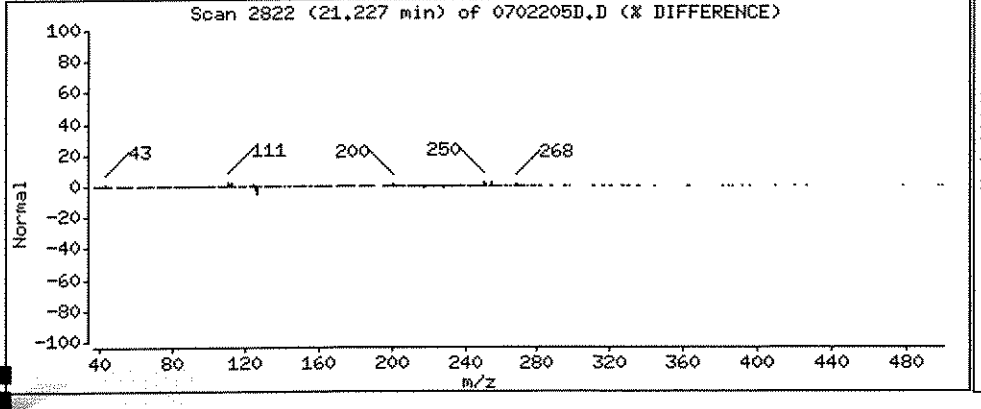
Column phase: fused silica Column diameter: 0.25

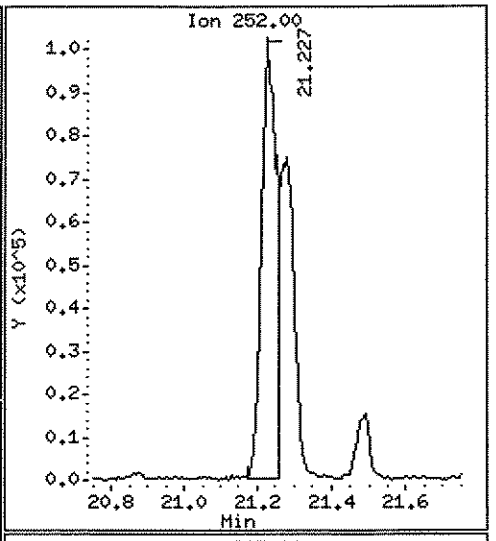
147 Benzo(b)fluoranthene Concentration: 6088 UG/KG

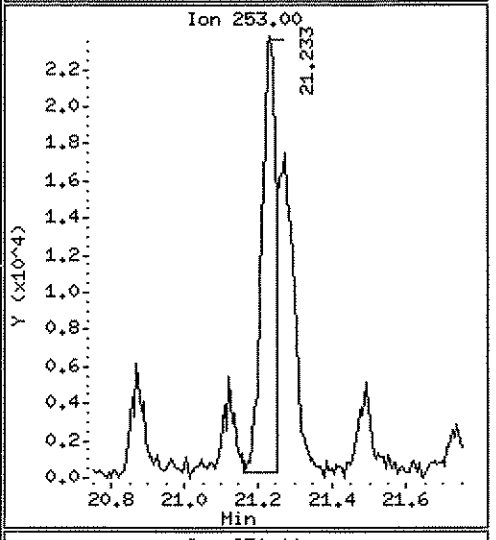


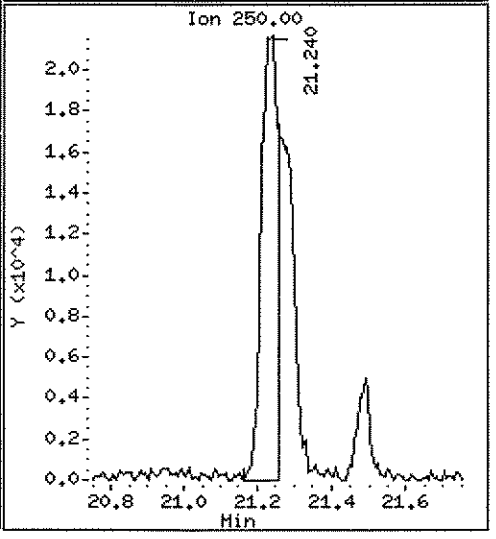












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

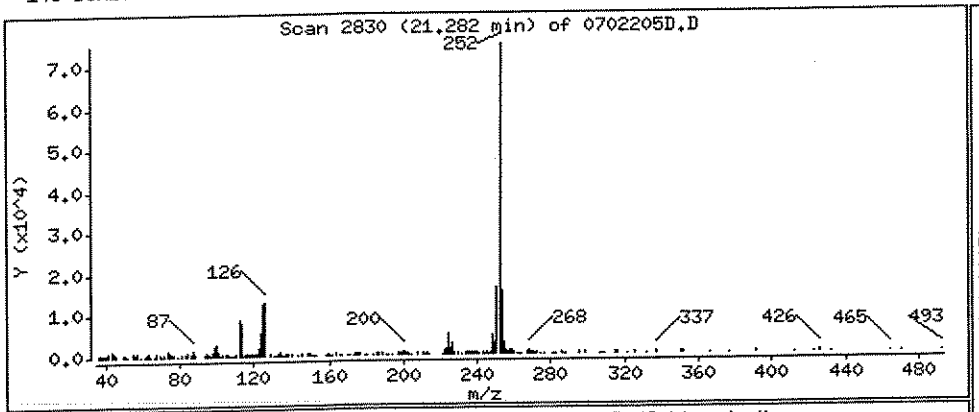
Operator: SDB

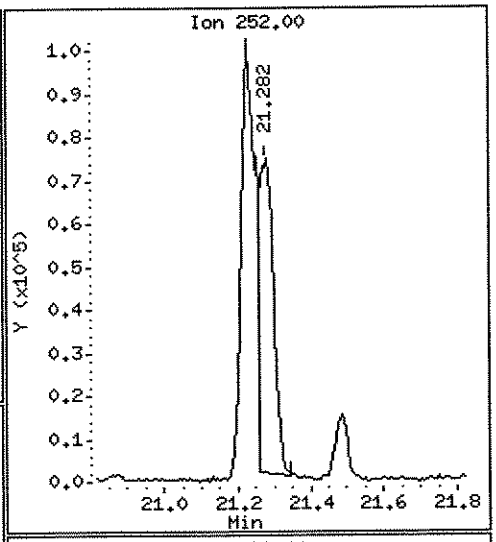
Column phase: fused silica

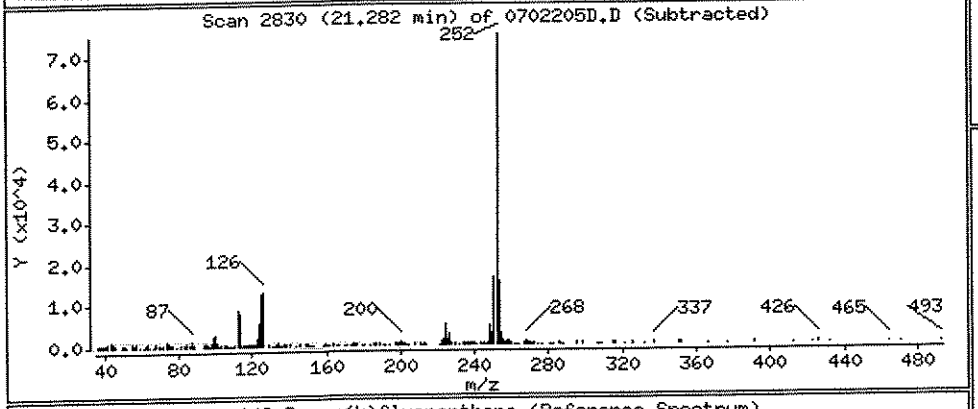
Column diameter: 0.25

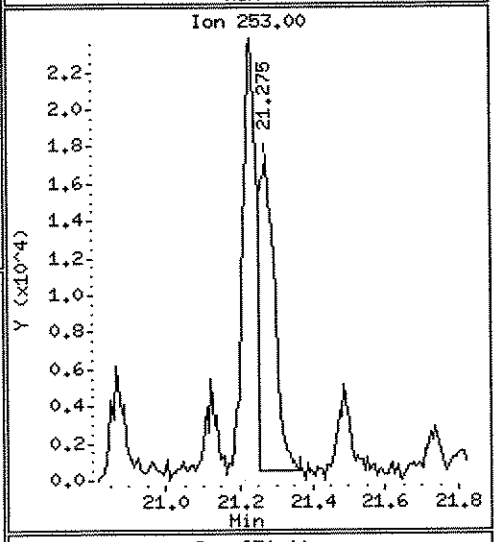
148 Benzo(k)fluoranthene

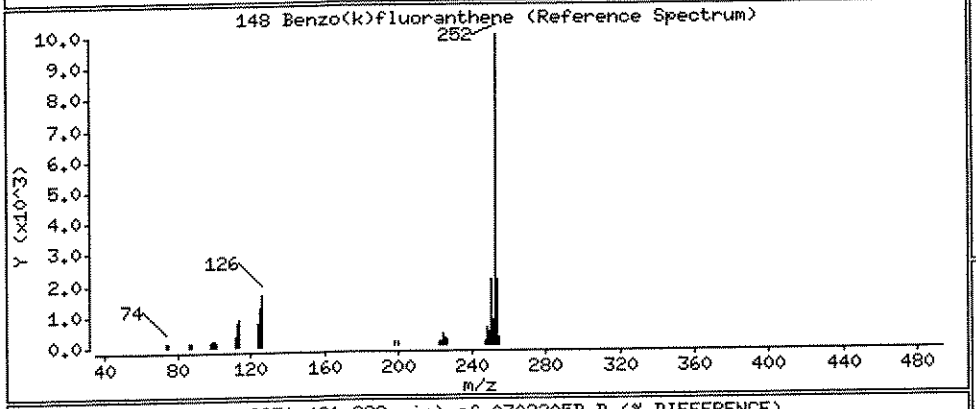
Concentration: 3915 UG/KG

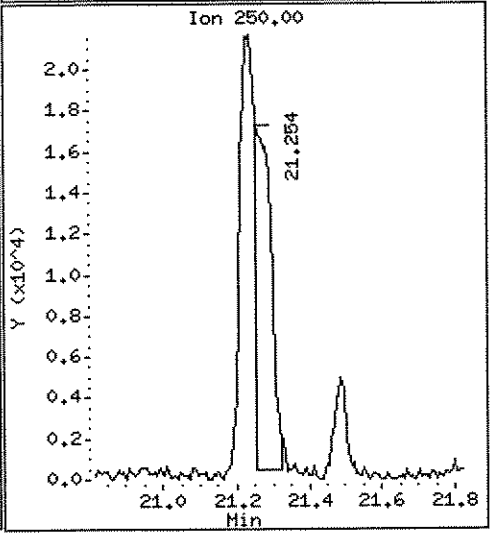


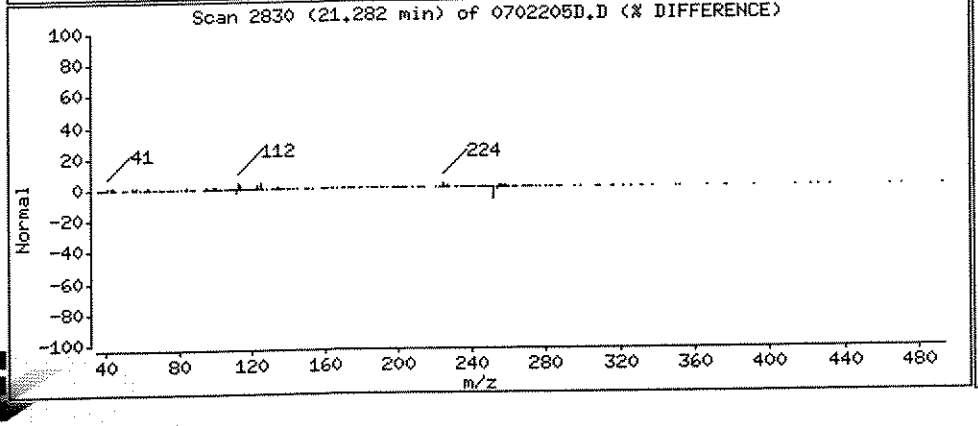












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

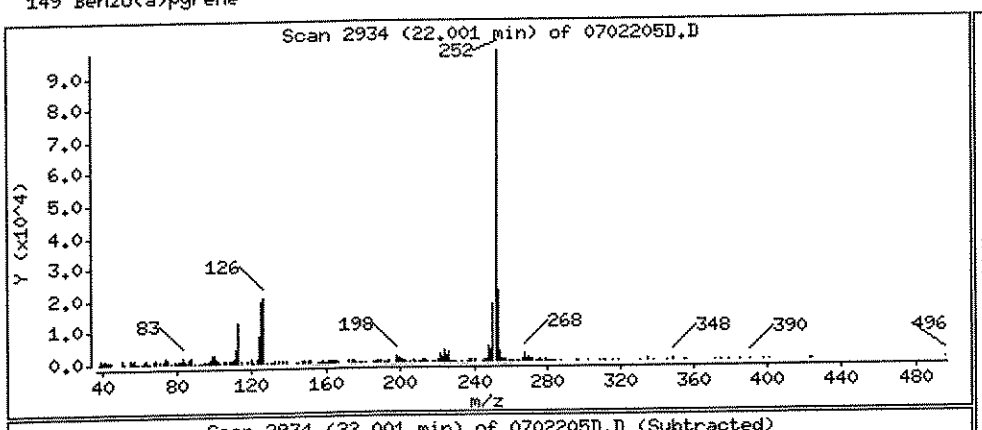
Operator: SDB

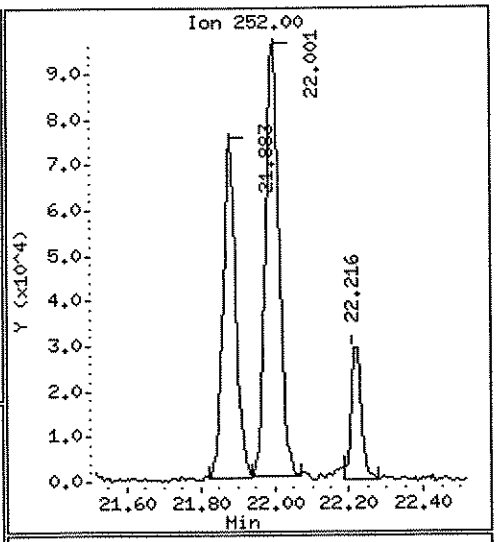
Column phase: fused silica

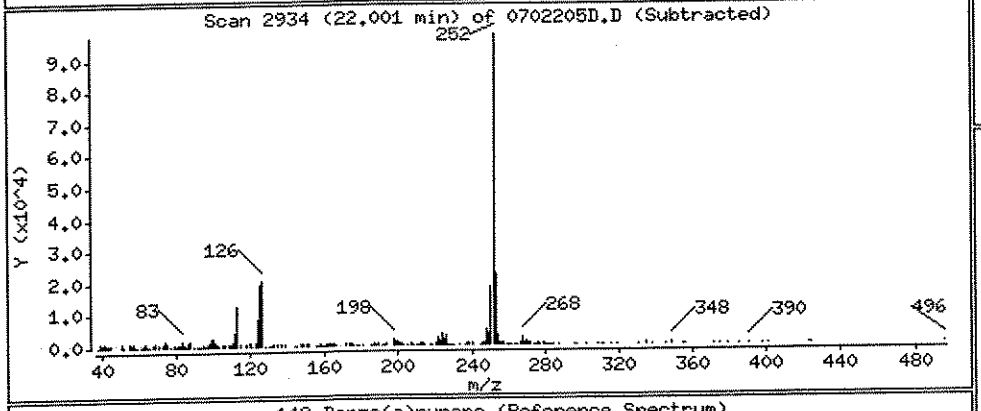
Column diameter: 0.25

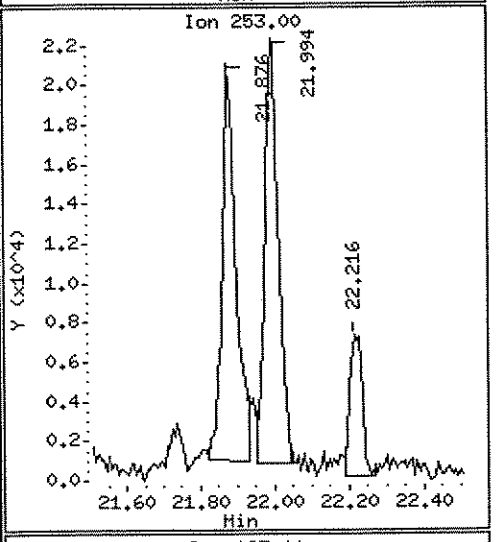
149 Benzo(a)pyrene

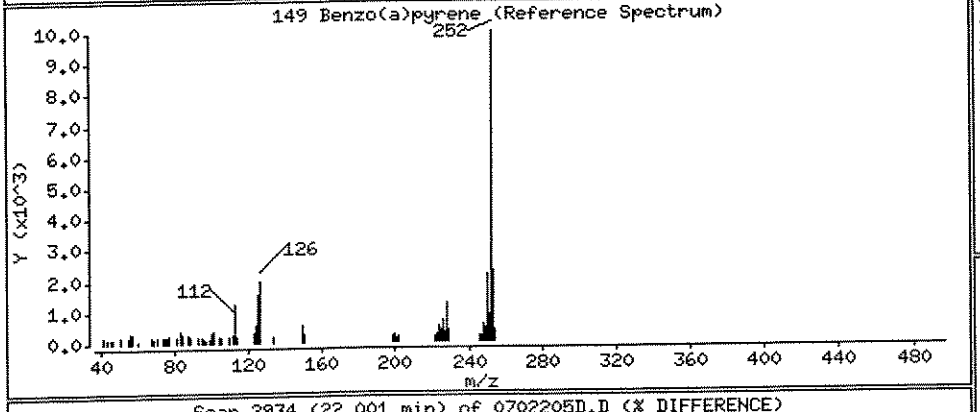
Concentration: 5664 UG/KG

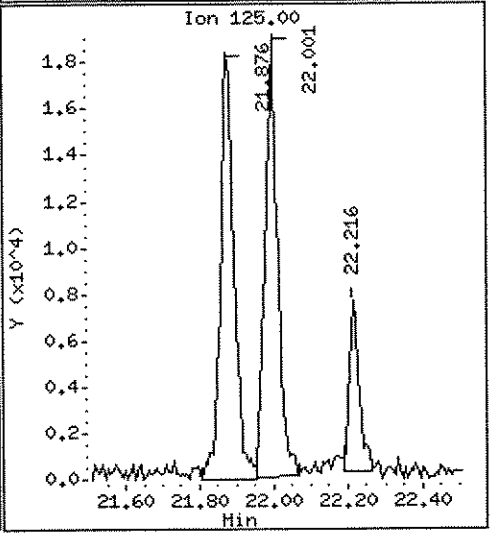


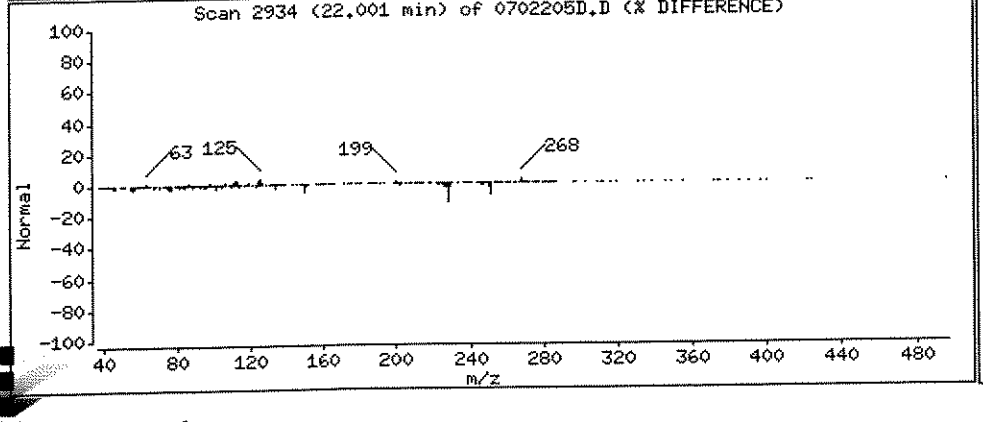












Data File: \\ELABNSHO4\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

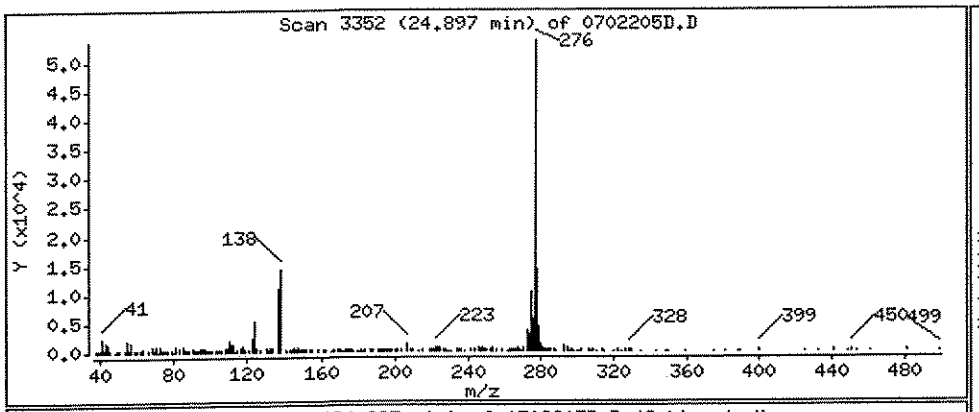
Client ID: 51CFM03S060706 Instrument: bna1.i

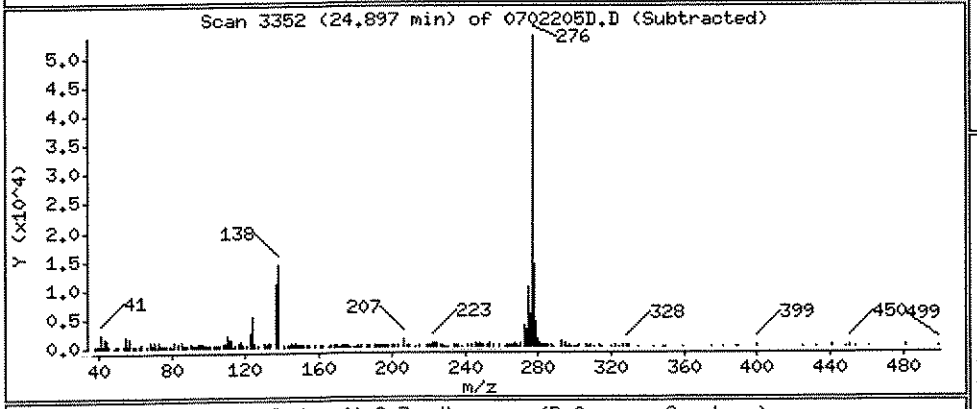
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

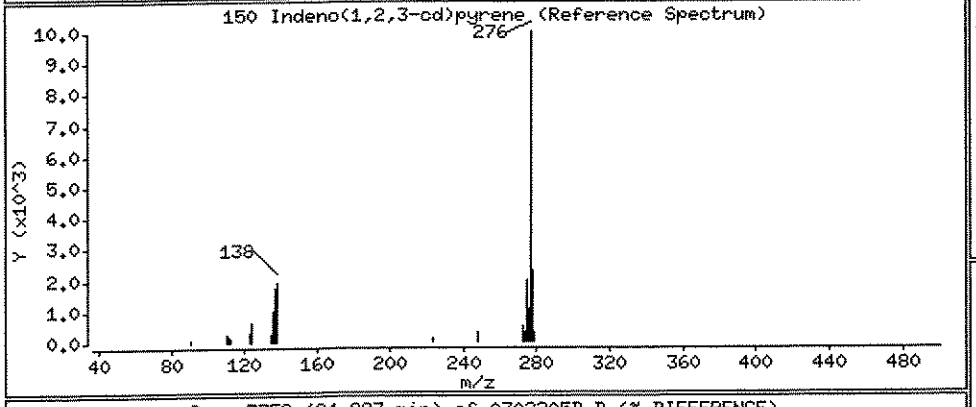
Volume Injected (uL): 0.5 Operator: SDB

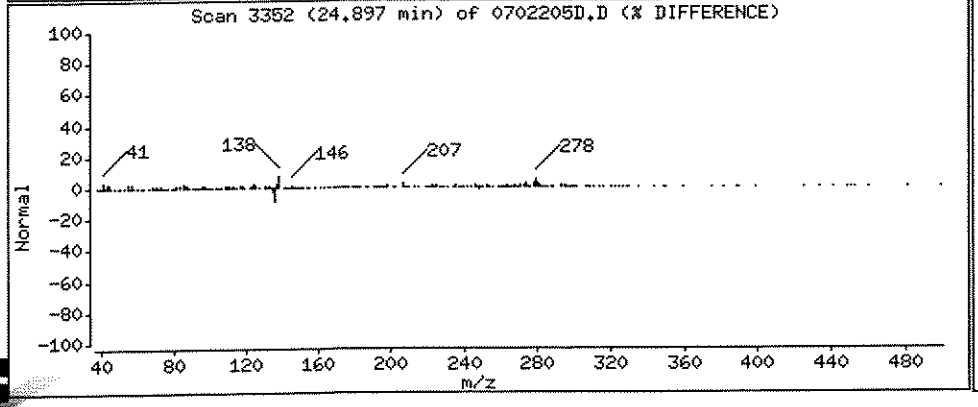
Column phase: fused silica Column diameter: 0.25

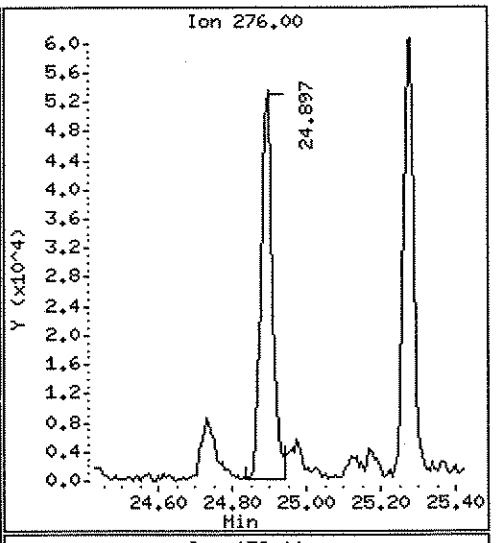
150 Indeno(1,2,3-cd)pyrene Concentration: 3193 UG/KG

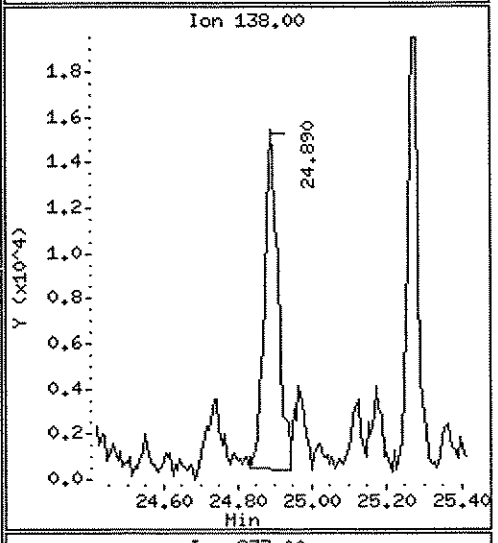


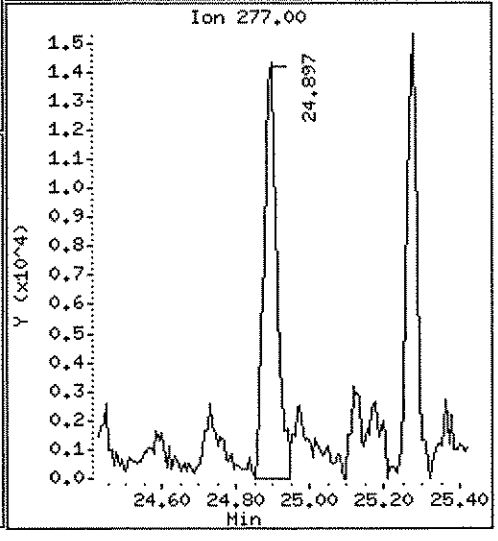












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

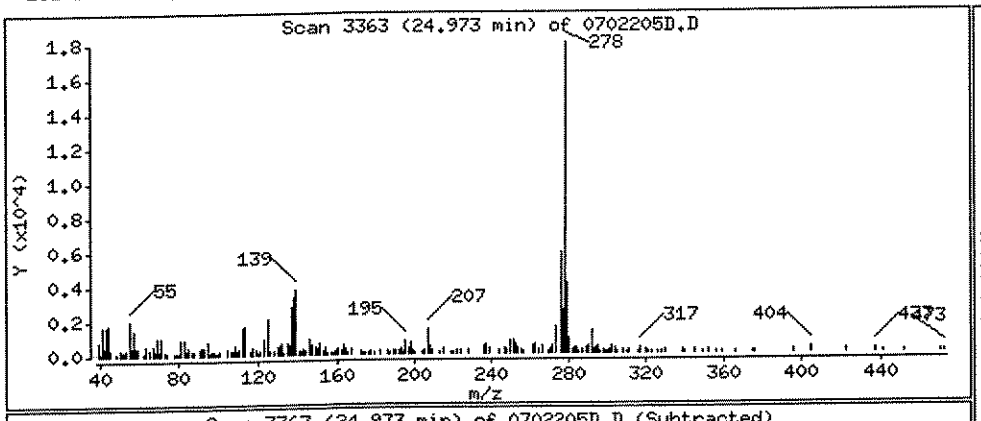
Operator: SDB

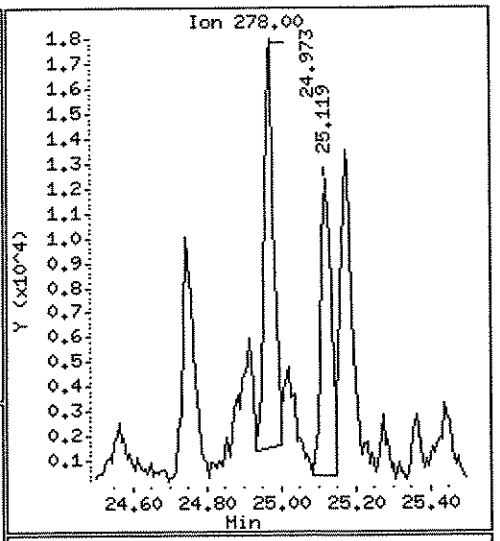
Column phase: fused silica

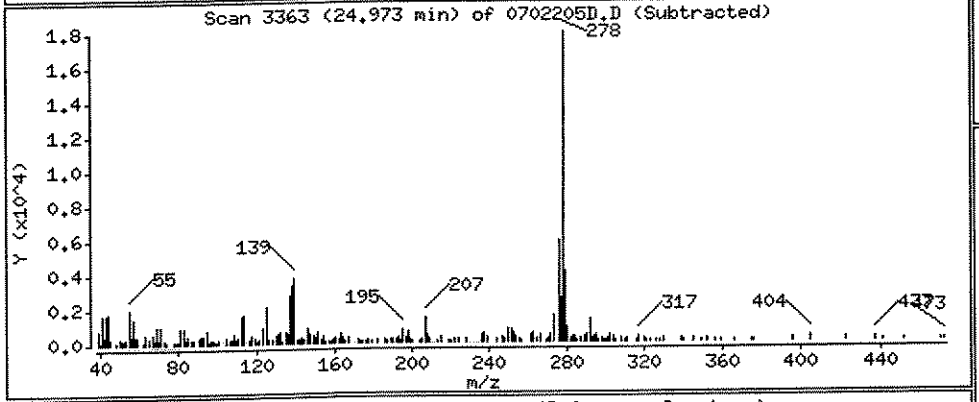
Column diameter: 0.25

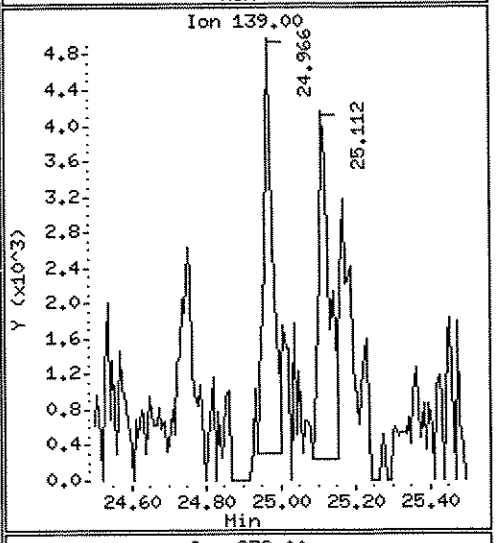
151 Dibenz(a,h)anthracene

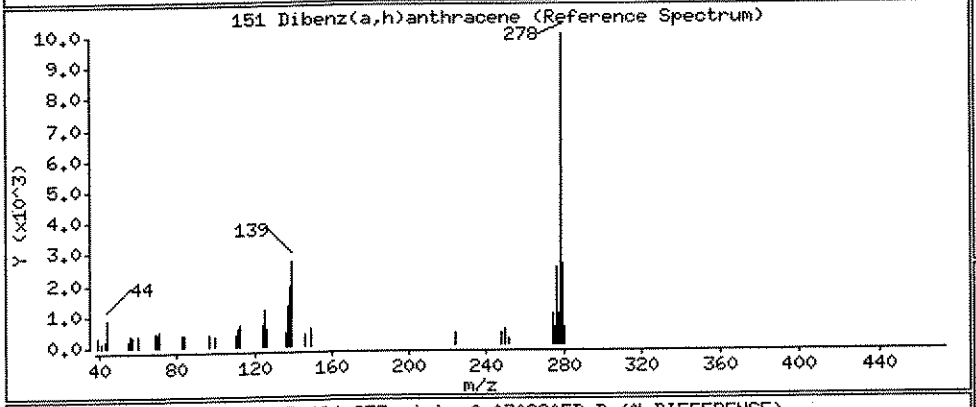
Concentration: 859.6 UG/KG

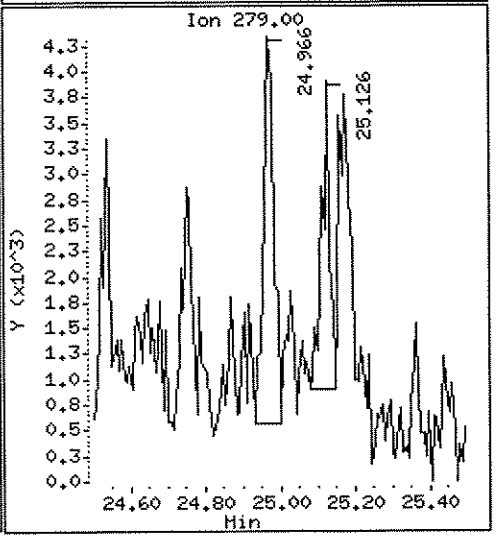


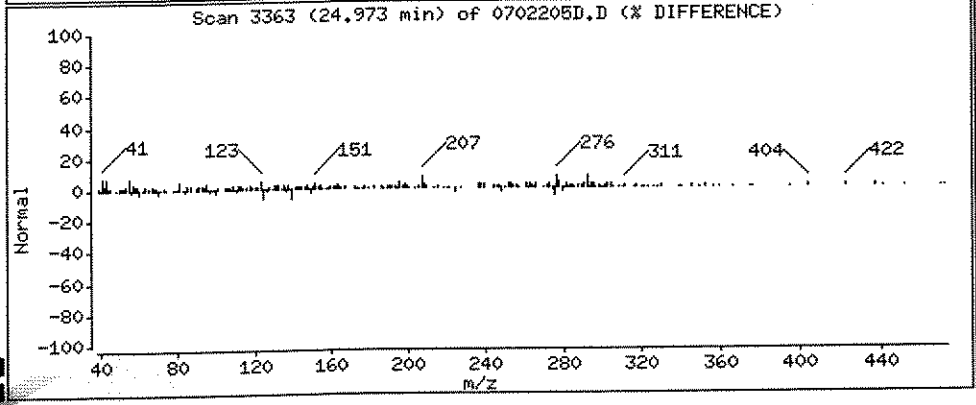












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

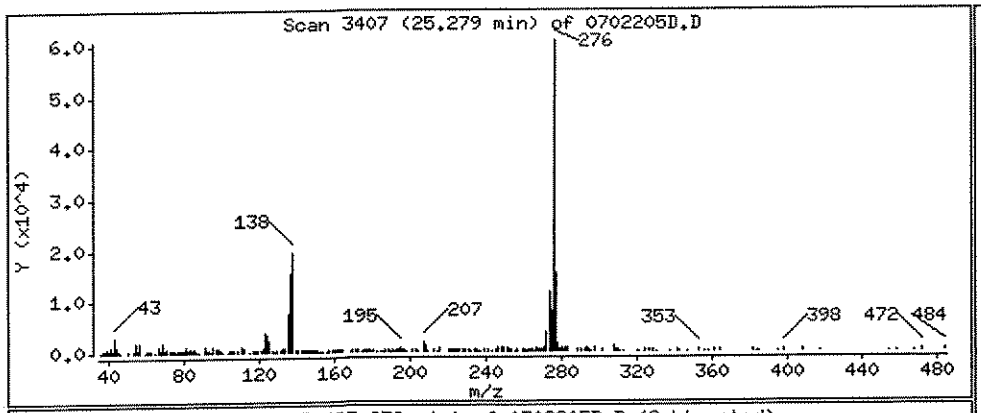
Operator: SDB

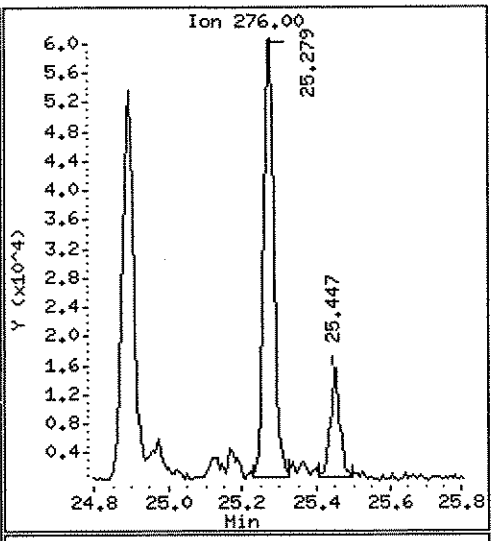
Column phase: fused silica

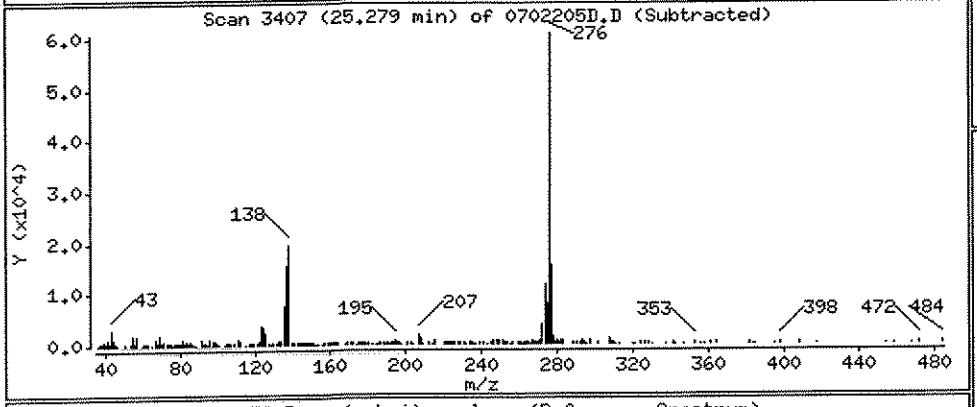
Column diameter: 0.25

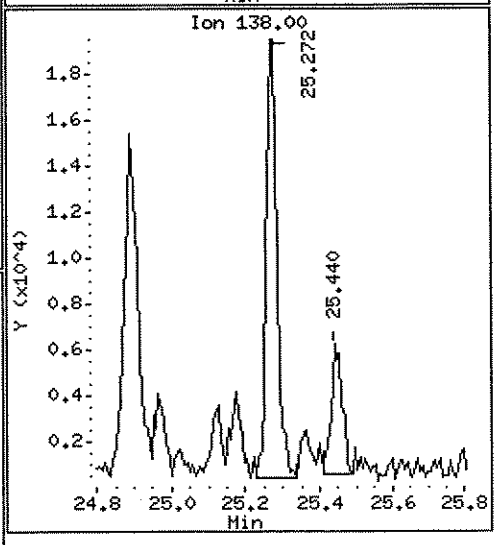
152 Benzo(g,h,i)perylene

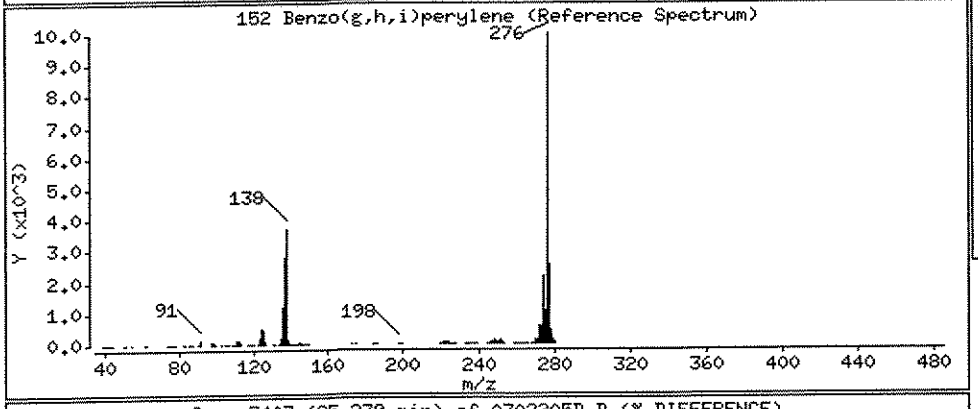
Concentration: 3037 UG/KG

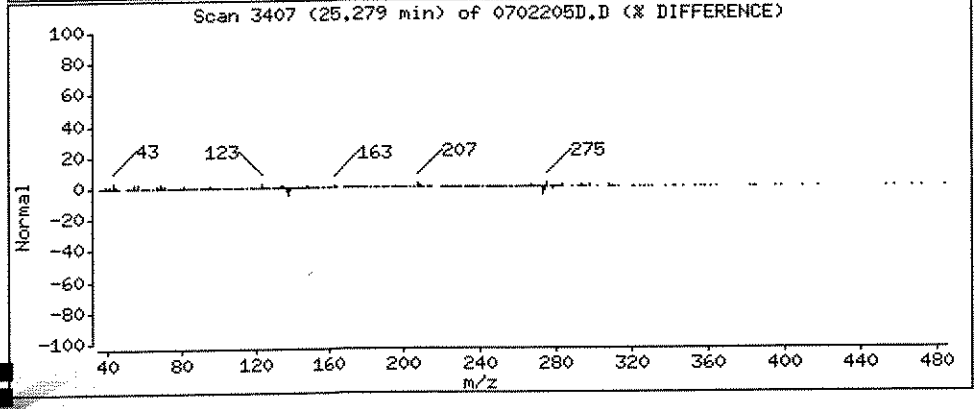












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:52

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	6000	E
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	8500	E
56-55-3	Benzo(a)anthracene	21	170	25000	E
205-99-2	Benzo(b)fluoranthene	21	170	32000	E
207-08-9	Benzo(k)fluoranthene	21	170	12000	E
191-24-2	Benzo(g,h,i)perylene	21	170	7400	E
50-32-8	Benzo(a)pyrene	21	100	22000	E
218-01-9	Chrysene	21	170	28000	E
53-70-3	Dibenz(a,h)anthracene	21	100	2500	
206-44-0	Fluoranthene	21	170	31000	E
86-73-7	Fluorene	21	170	6300	E
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	8000	E
91-57-6	2-Methylnaphthalene	21	170	2000	
90-12-0	1-Methylnaphthalene	52	170	1300	
91-20-3	Naphthalene	21	170	1000	
85-01-8	Phenanthrene	21	170	42000	E
129-00-0	Pyrene	21	170	66000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 10-JUL-2006 16:52
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.278	4.276	(1.000)	579739	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	2005483	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.892)	1258841	57.5013	1998
47 Naphthalene	128	5.300	5.307	(1.004)	1446103	29.0019	1008
51 2-Methylnaphthalene	141	6.066	6.062	(1.149)	1646817	57.4776	1997
52 1-Methylnaphthalene	141	6.197	6.203	(1.174)	1006203	36.7885	1278
* 65 Acenaphthene-d10	164	7.718	7.719	(1.000)	937164	40.0000	
$ 70 2-Fluorobiphenyl	172	6.619	6.617	(0.858)	1906118	63.9133	2221
76 Acenaphthene	153	7.808	7.781	(1.012)	4675492	172.866	6006(A)
84 Fluorene	166	8.856	8.814	(1.147)	5239382	181.117	6293(A)
* 97 Phenanthrene-d10	188	11.115	11.020	(1.000)	821642	40.0000	(M)
106 Phenanthrene	178	11.268	11.082	(1.018)	28053711	1197.51	41610(A)
107 Anthracene	178	11.338	11.192	(1.025)	5636537	243.706	8468(AH)

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Report Date: 11-Jul-2006 13:57

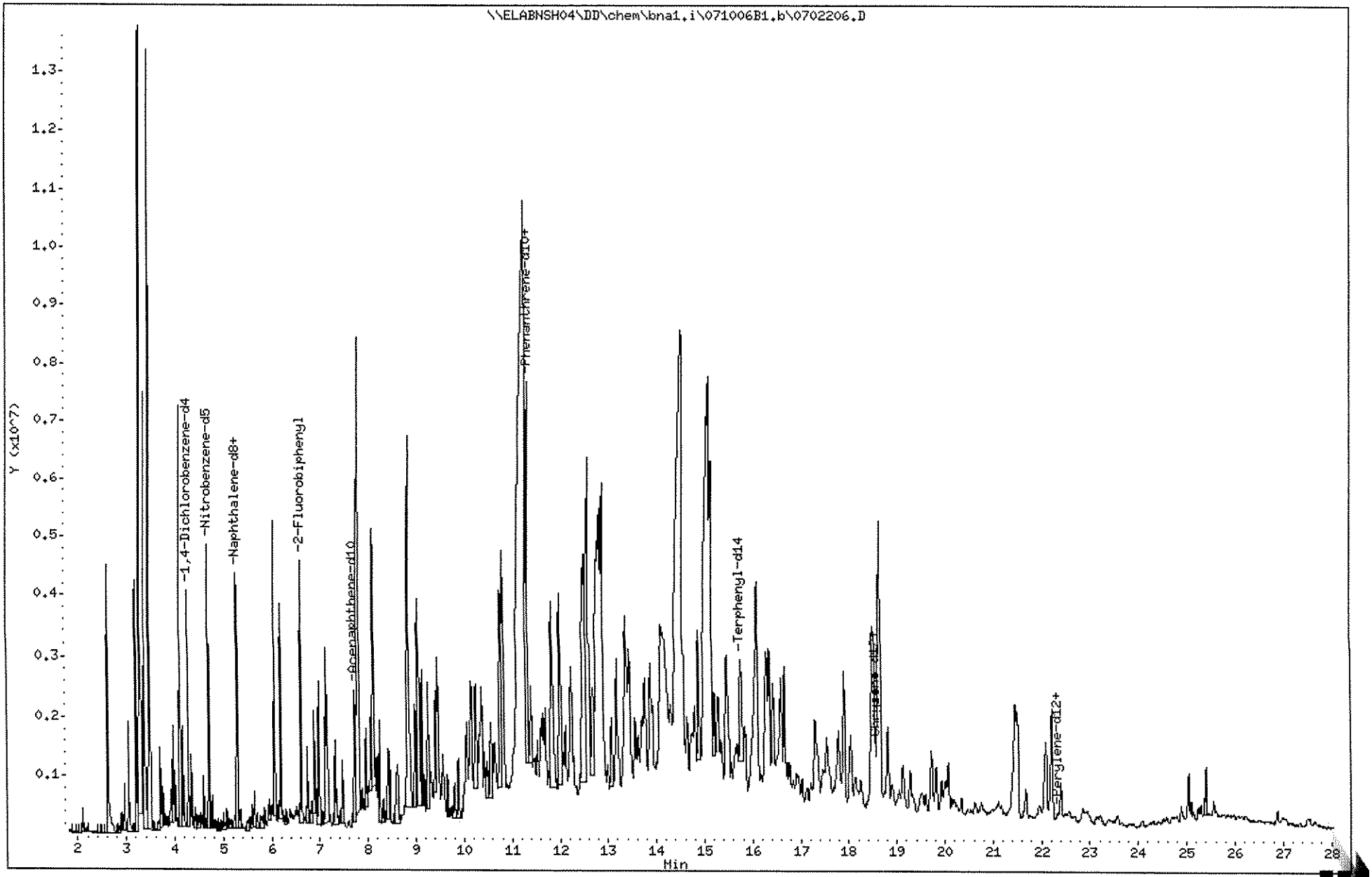
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)	
110 Fluoranthene	202	14.530	14.296	(1.313)	20504768	884.075	30720(A)	OLW
* 124 Chrysene-d12	240	18.561	18.441	(1.000)	223360	40.0000		
126 Pyrene	202	15.089	14.878	(0.813)	16998020	1905.56	66210(A)	OLW
$ 127 Terphenyl-d14	244	15.747	15.647	(0.848)	846167	150.026	5213(AR)	
130 Benzo(a)anthracene	228	18.519	18.400	(0.998)	5142502	714.566	24830(A)	OLW
131 Chrysene	228	18.652	18.510	(1.005)	5349407	813.833	28280(AH)	OLW
* 145 Perylene-d12	264	22.333	22.273	(1.000)	114069	40.0000		
147 Benzo(b)fluoranthene	252	21.466	21.352	(0.961)	3188150	907.317	31520(AM)	OLW
148 Benzo(k)fluoranthene	252	21.515	21.421	(0.963)	1273320	349.275	12140(AM)	OLW
149 Benzo(a)pyrene	252	22.227	22.121	(0.995)	1933555	638.141	22170(AH)	OLW
150 Indeno(1,2,3-cd)pyrene	276	25.044	24.990	(1.121)	593029	229.400	7971(A)	OLW
151 Dibenz(a,h)anthracene	278	25.093	25.065	(1.124)	187069	71.8803	2498	
152 Benzo(g,h,i)perylene	276	25.406	25.361	(1.138)	570644	212.712	7391(A)	OLW

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Date : 10-JUL-2006 16:52
Client ID: 51CFM04S060706
Instrument: bna1.i
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000148



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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

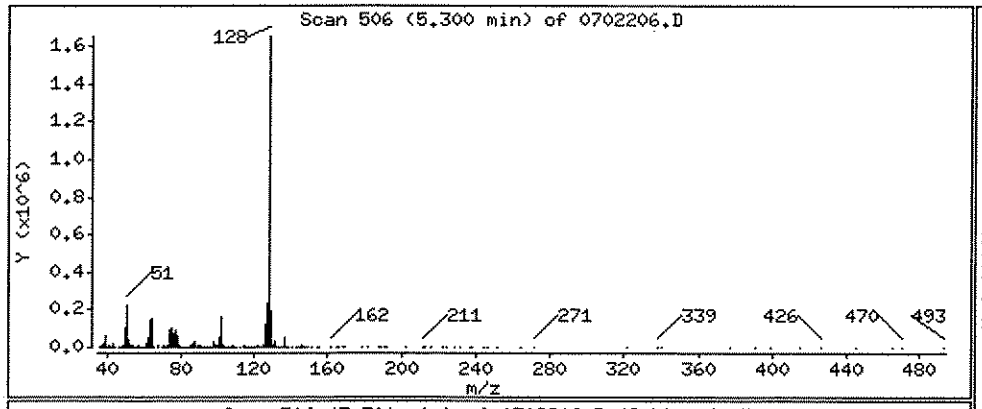
Client ID: 51CFM04S060706 Instrument: bna1.i

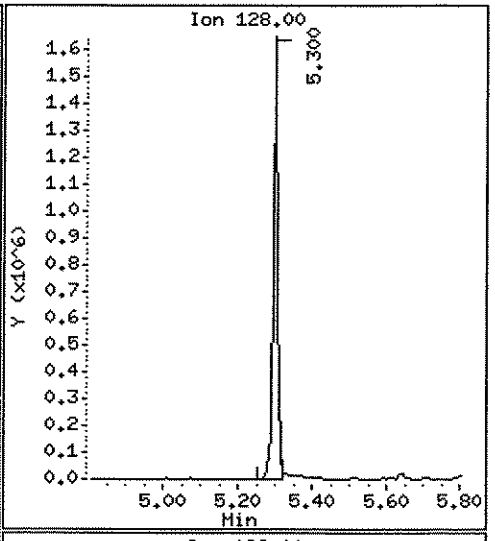
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

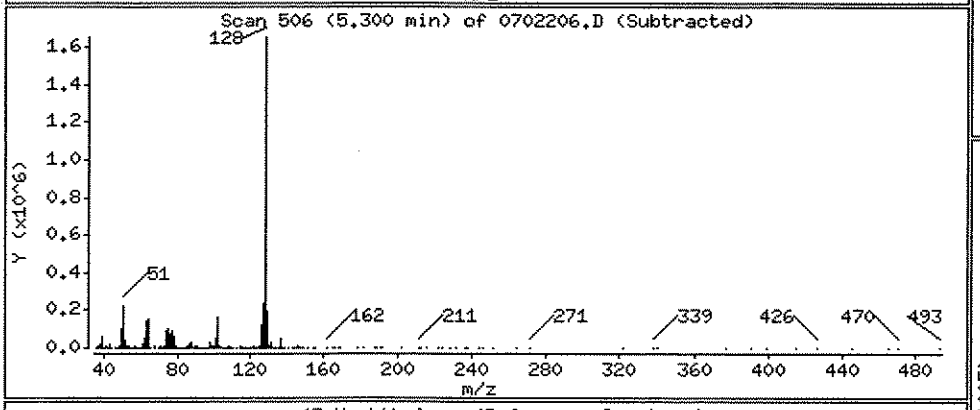
Volume Injected (uL): 0.5 Operator: SDB

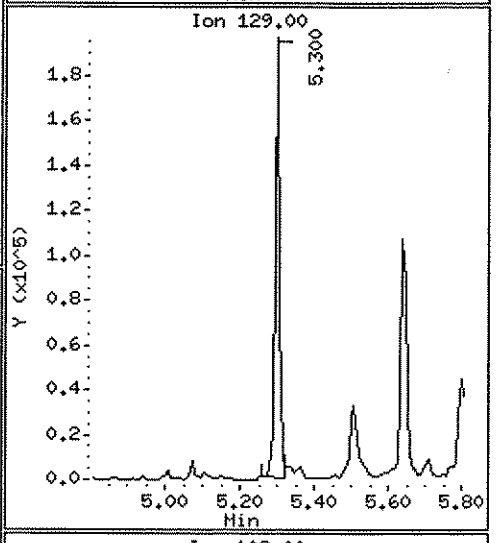
Column phase: fused silica Column diameter: 0.25

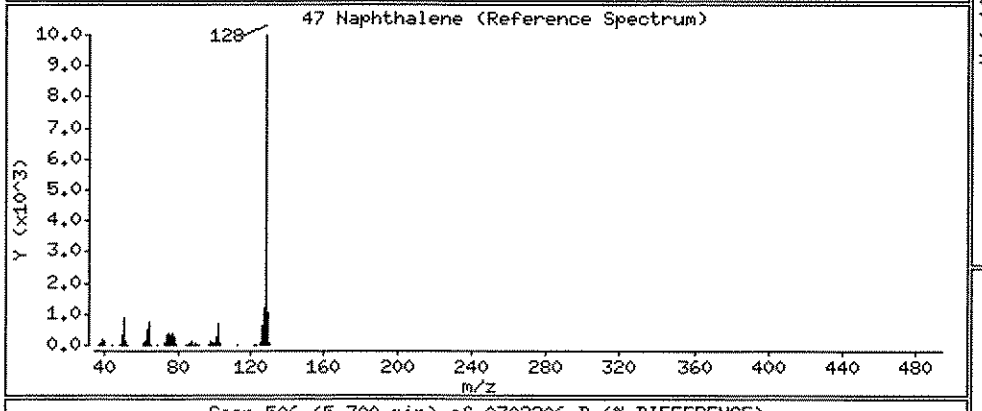
47 Naphthalene Concentration: 1008 UG/KG

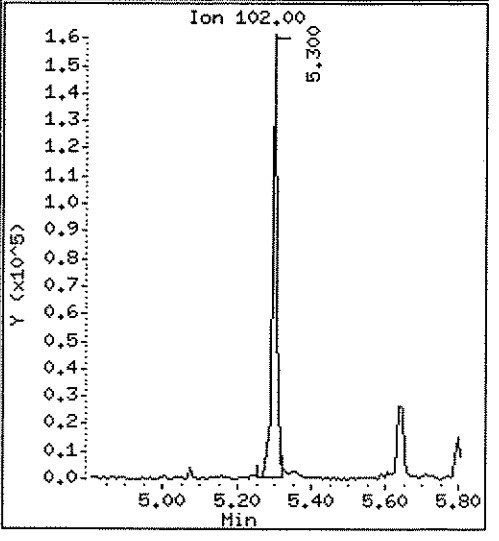


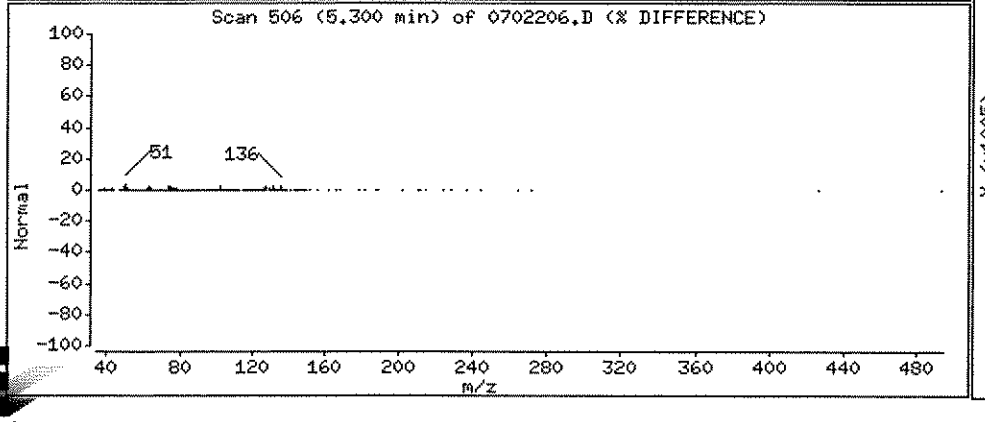












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Date : 10-JUL-2006 16:52

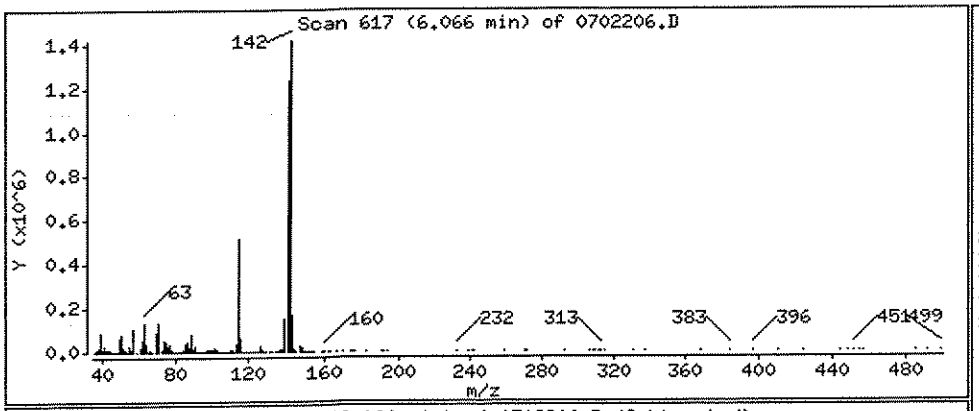
Client ID: 51CFM04S060706 Instrument: bna1.i

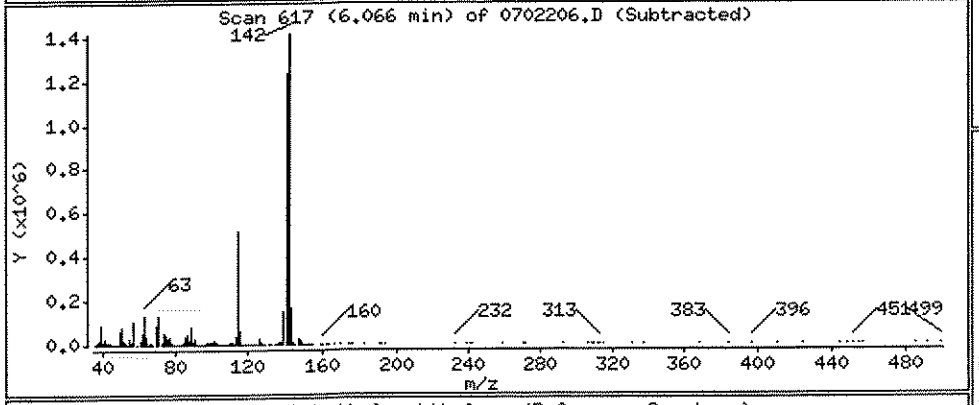
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

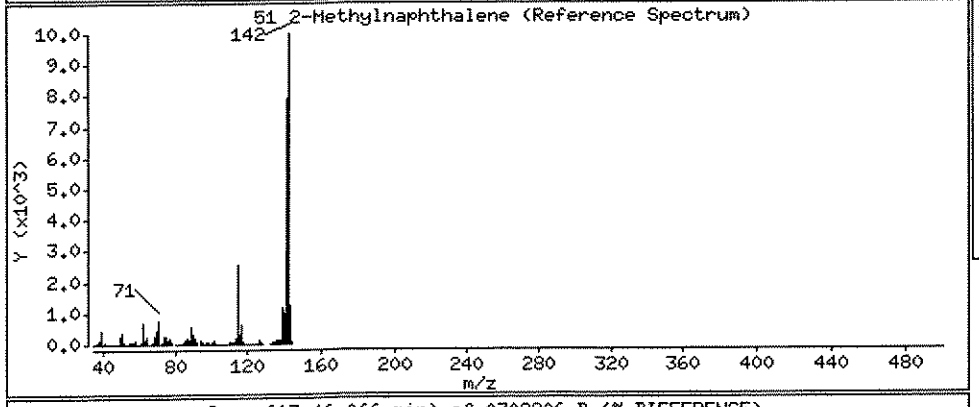
Volume Injected (uL): 0.5 Operator: SDB

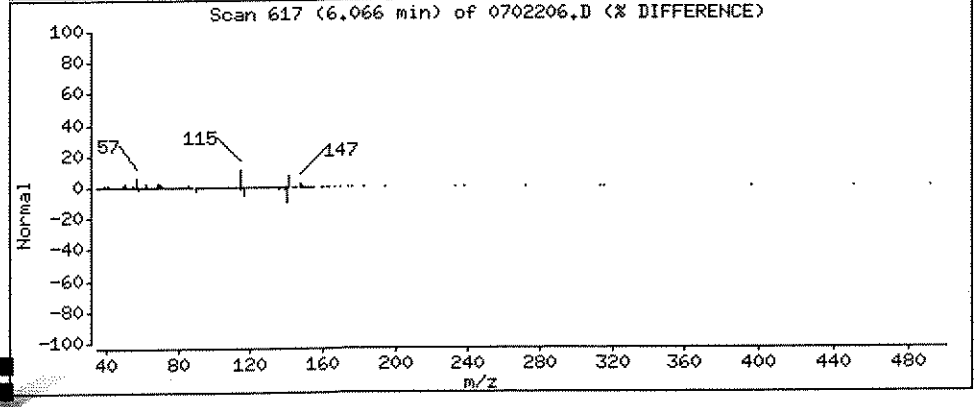
Column phase: fused silica Column diameter: 0.25

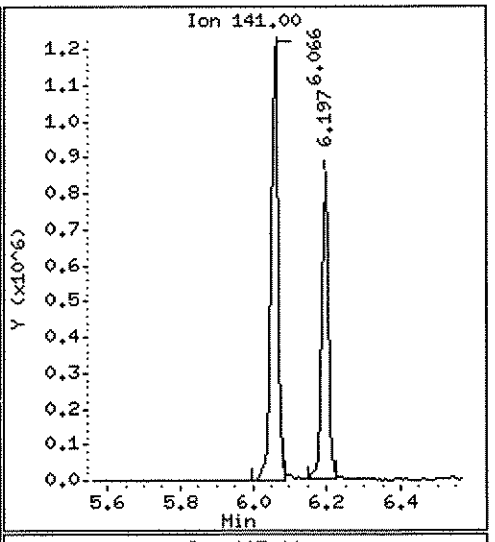
51 2-Methylnaphthalene Concentration: 1997 UG/KG

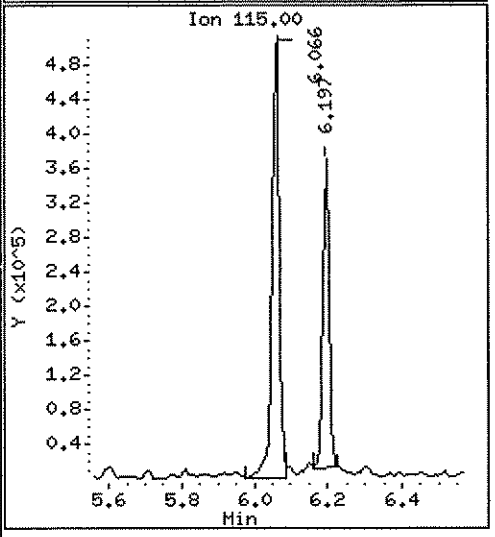












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

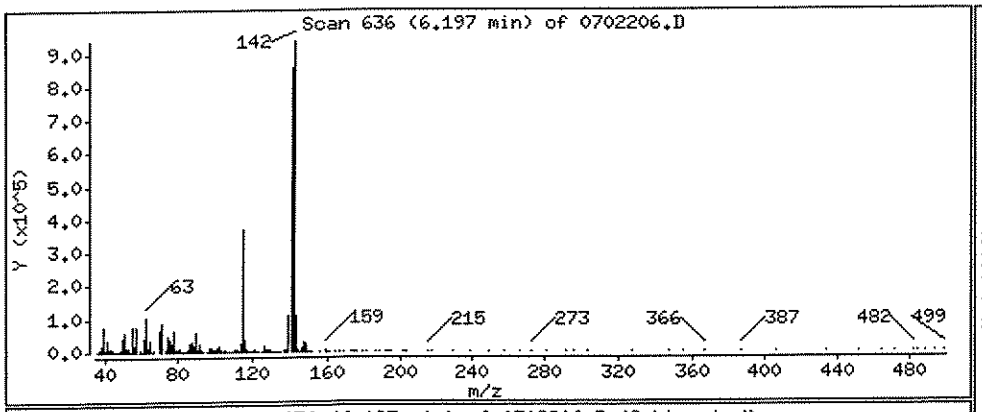
Client ID: 51CFM04S060706 Instrument: bna1.i

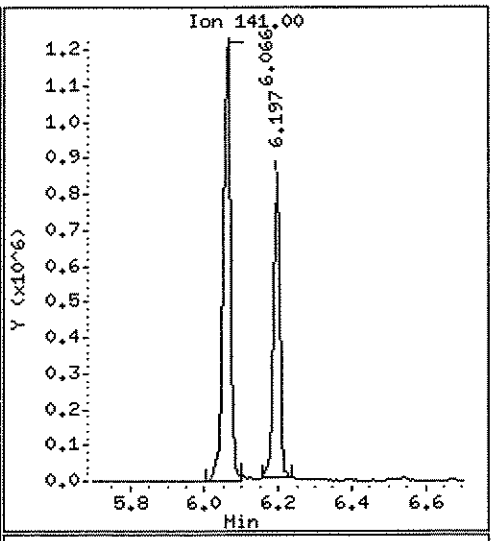
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

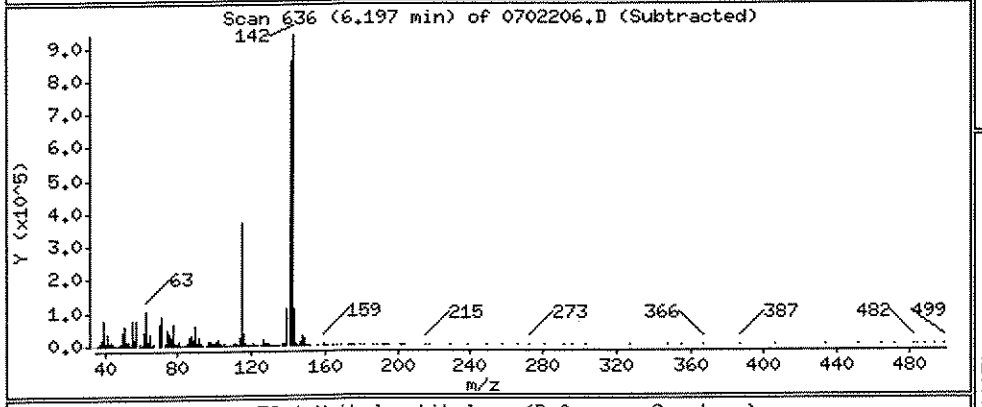
Volume Injected (uL): 0.5 Operator: SDB

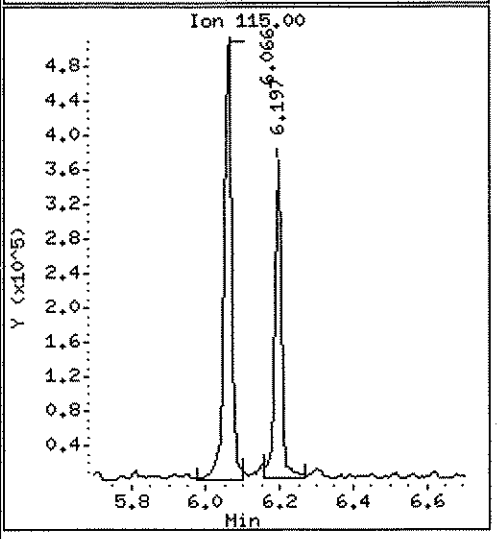
Column phase: fused silica Column diameter: 0.25

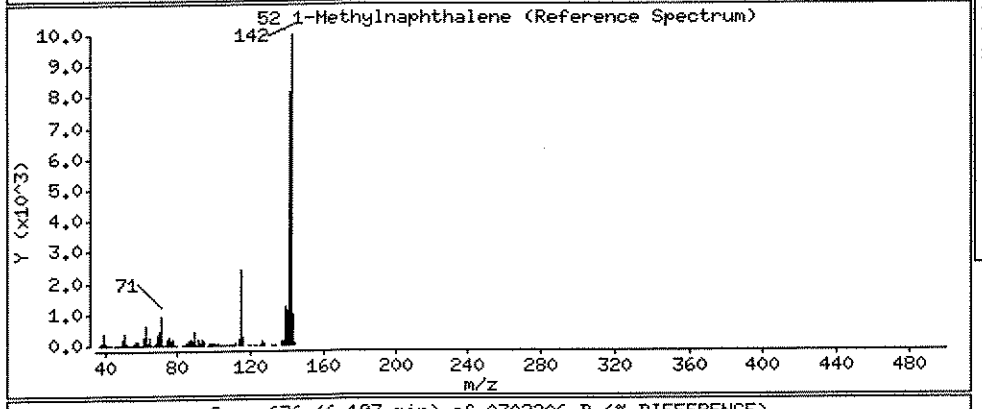
52 1-Methylnaphthalene Concentration: 1278 UG/KG

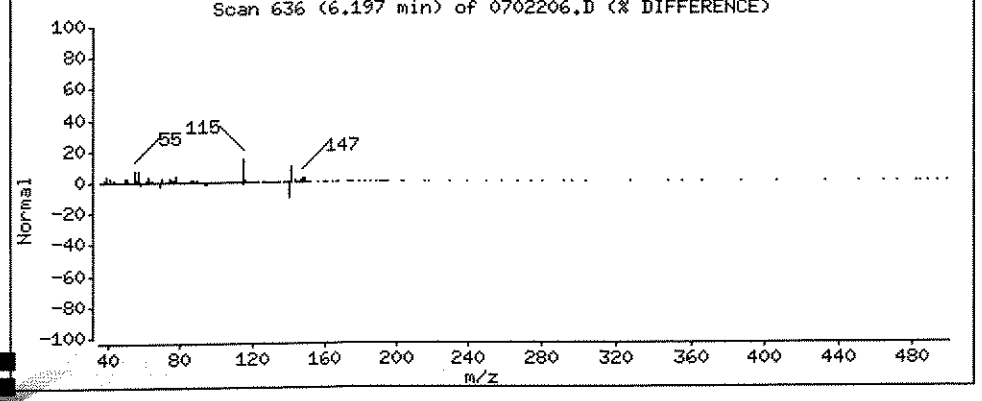












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

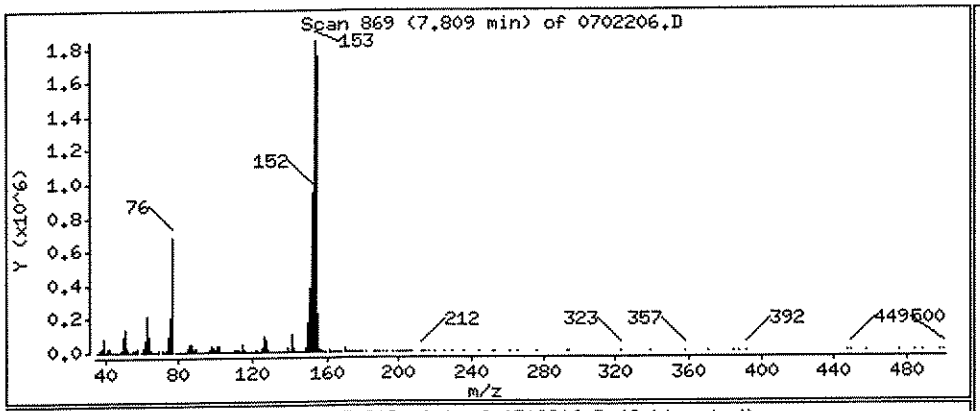
Client ID: 51CFM04S060706 Instrument: bna1.i

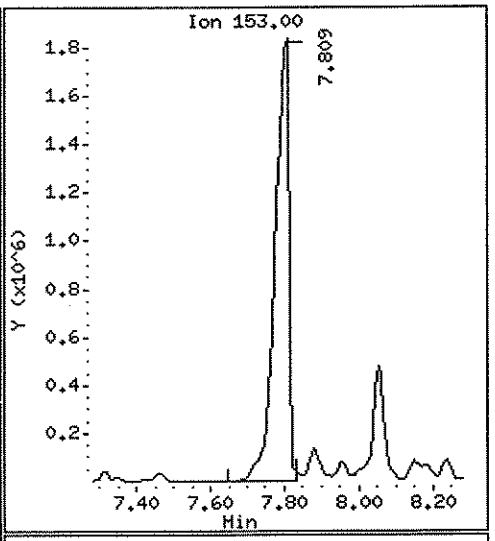
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

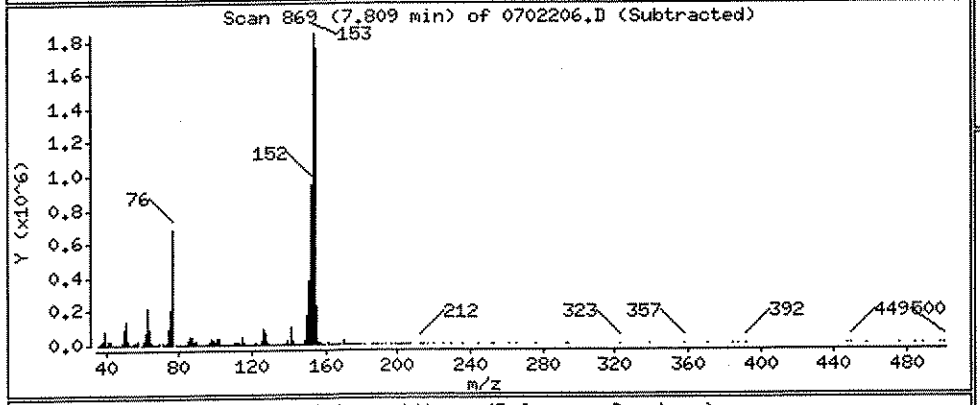
Volume Injected (uL): 0.5 Operator: SDB

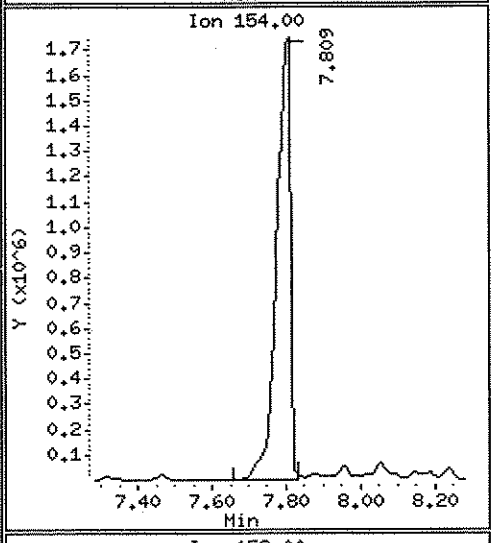
Column phase: fused silica Column diameter: 0.25

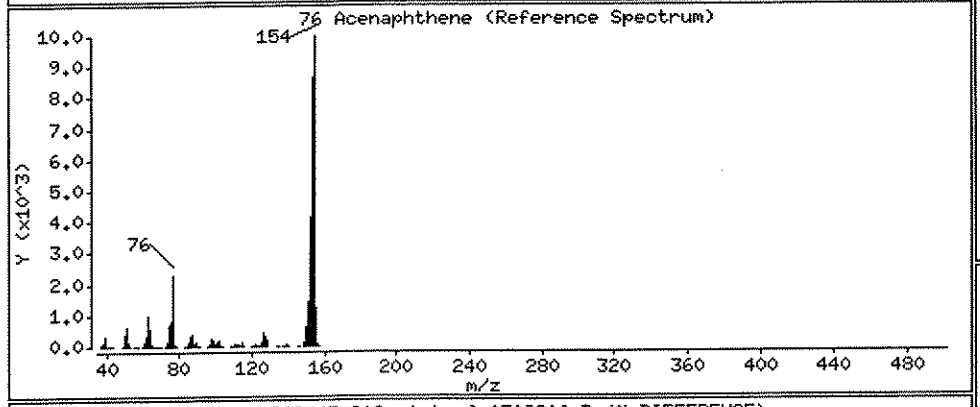
76 Acenaphthene Concentration: 6006 UG/KG

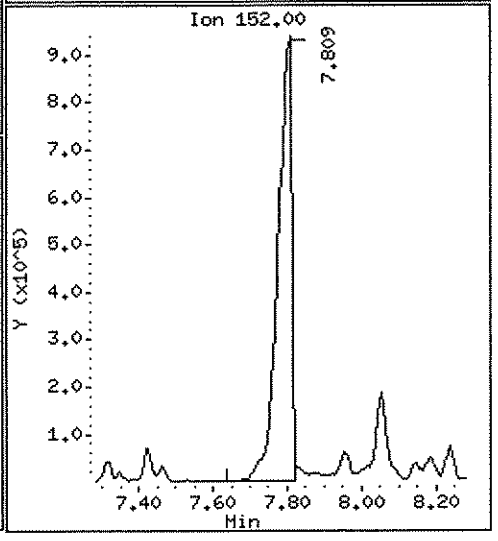


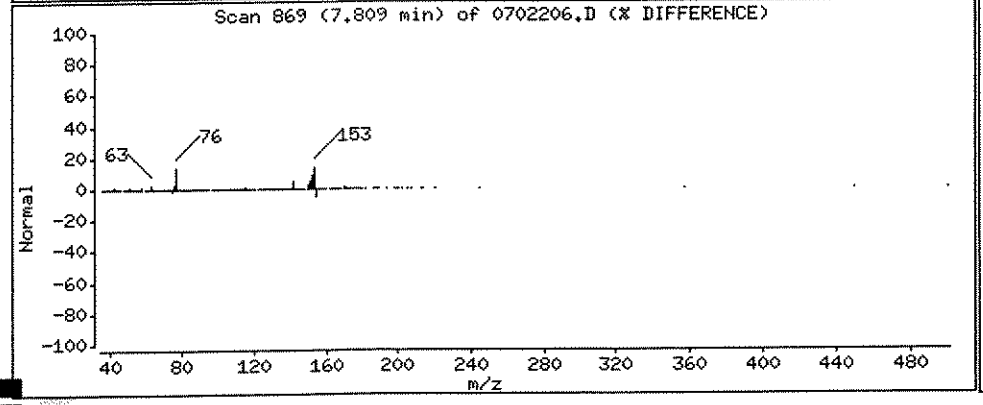












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

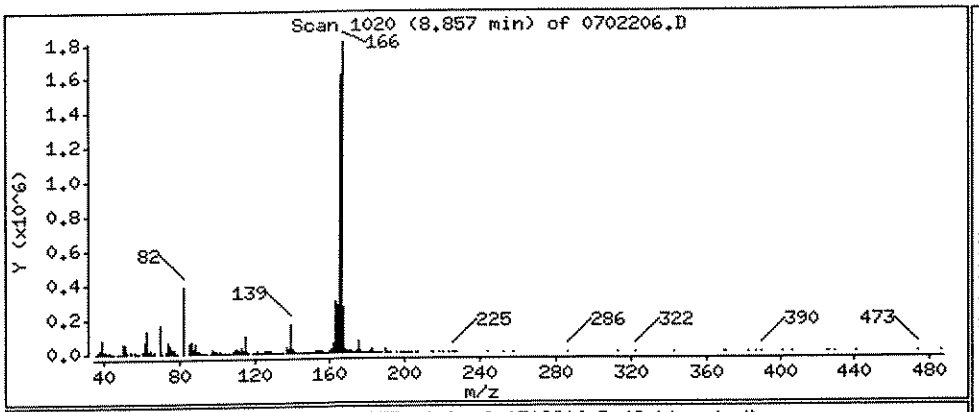
Operator: SDB

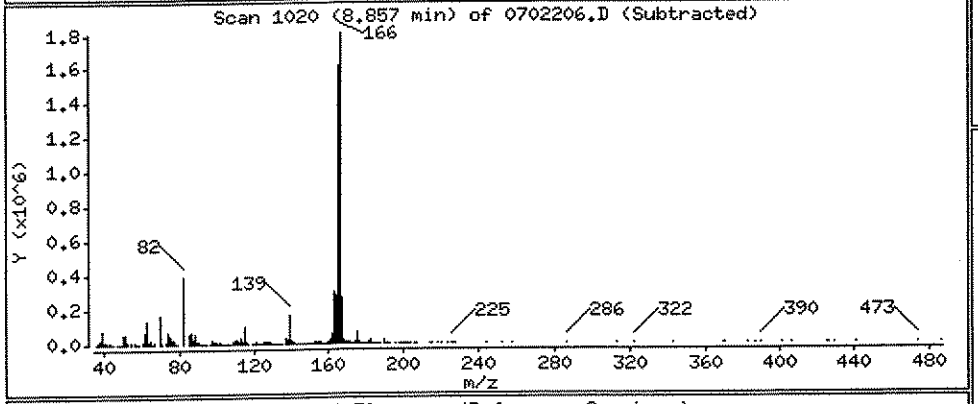
Column phase: fused silica

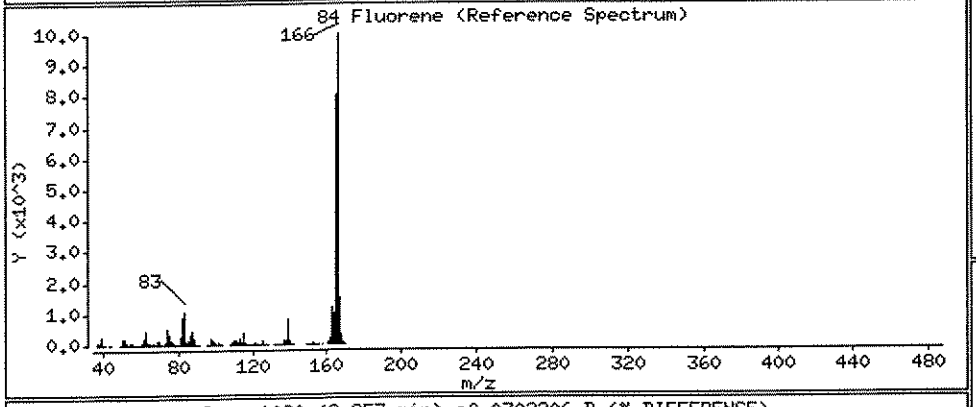
Column diameter: 0.25

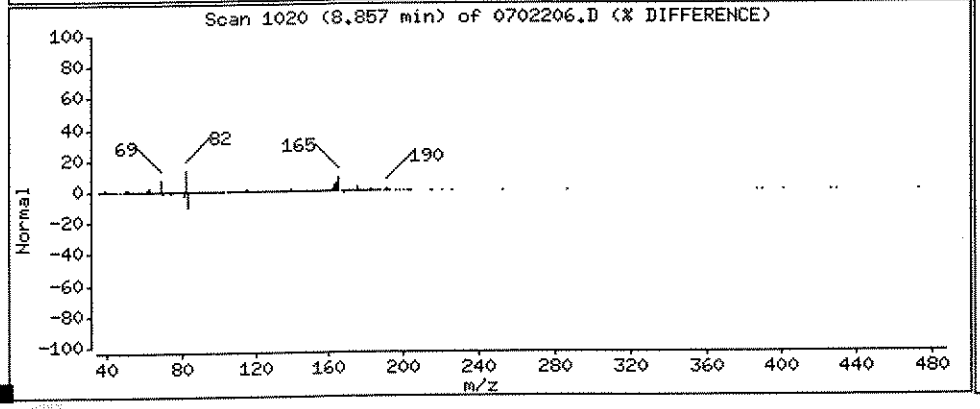
84 Fluorene

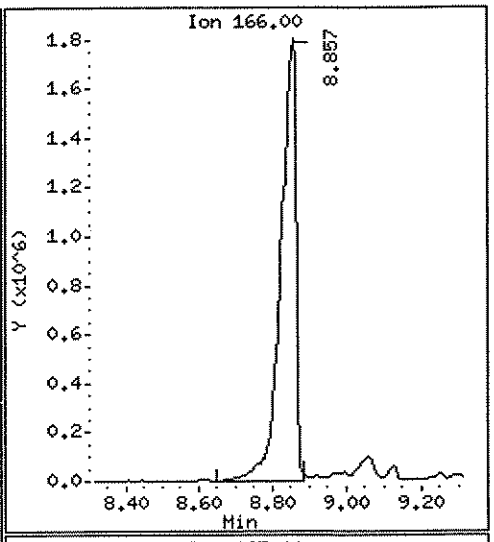
Concentration: 6293 UG/KG

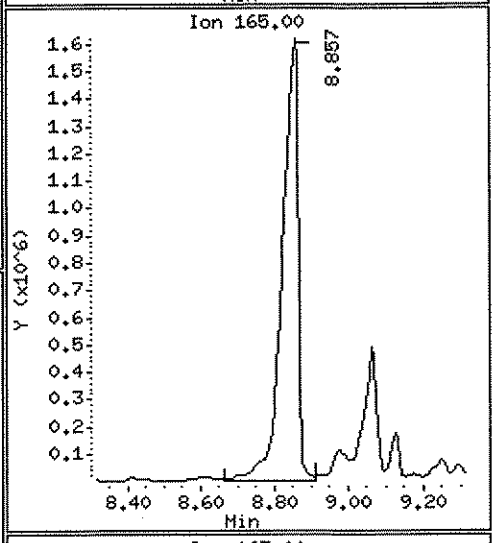


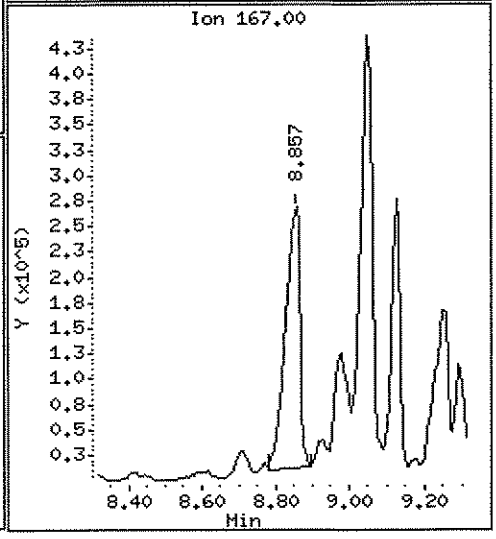












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

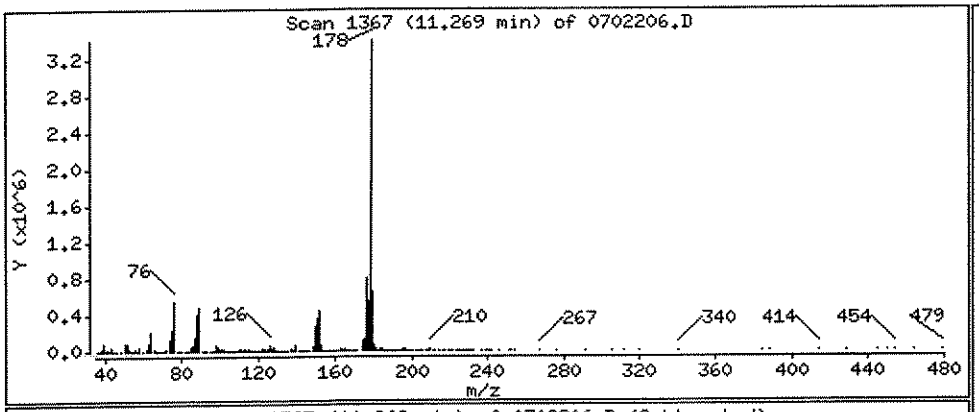
Client ID: 51CFM04S060706 Instrument: bna1.i

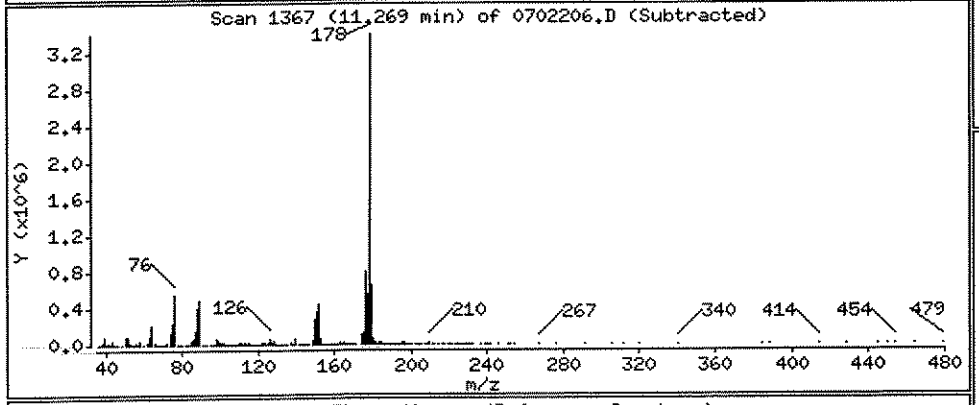
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

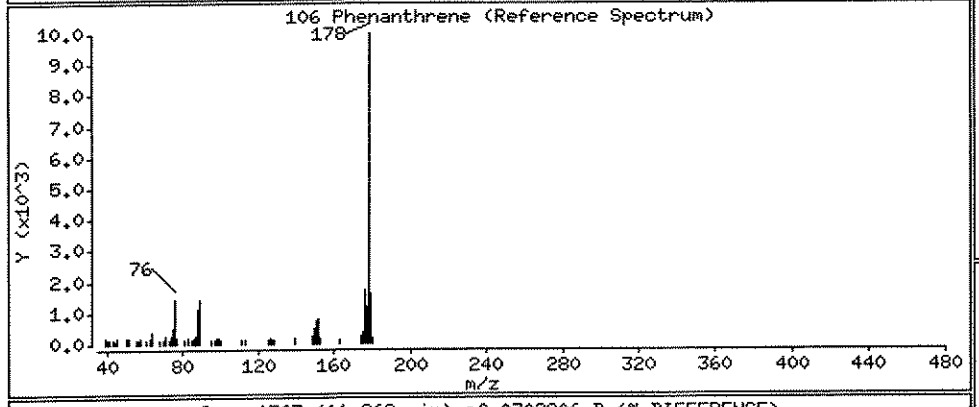
Volume Injected (uL): 0.5 Operator: SDB

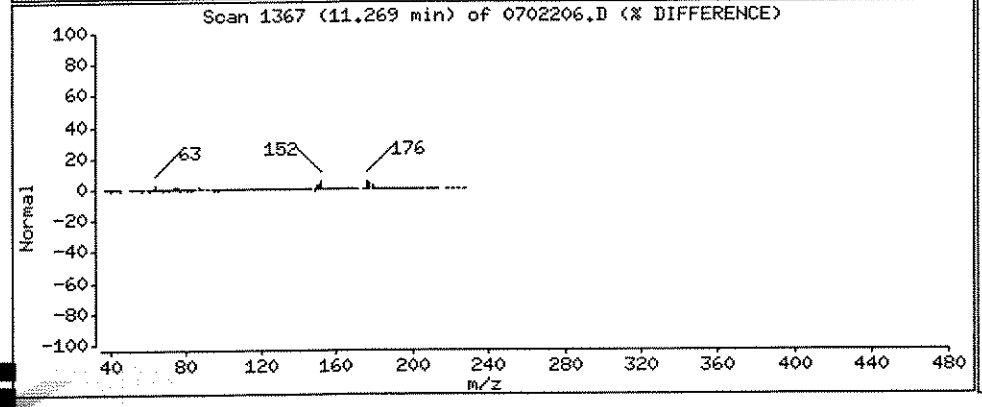
Column phase: fused silica Column diameter: 0.25

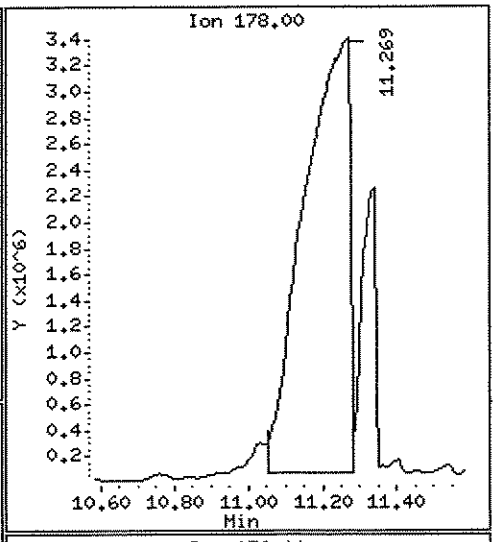
106 Phenanthrene Concentration: 41610 UG/KG

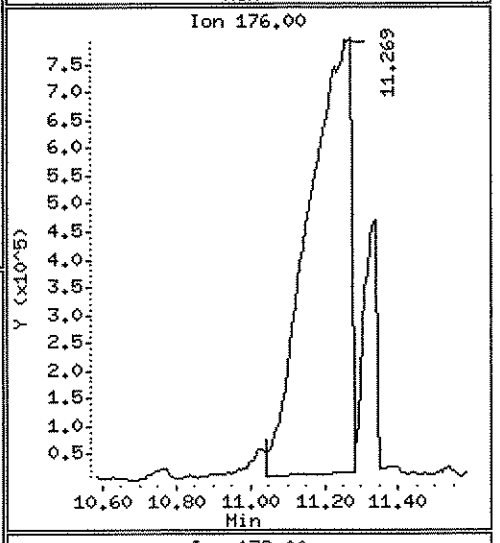


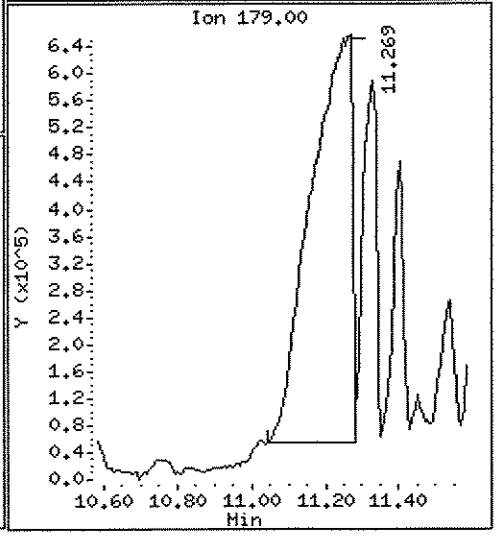












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000154

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

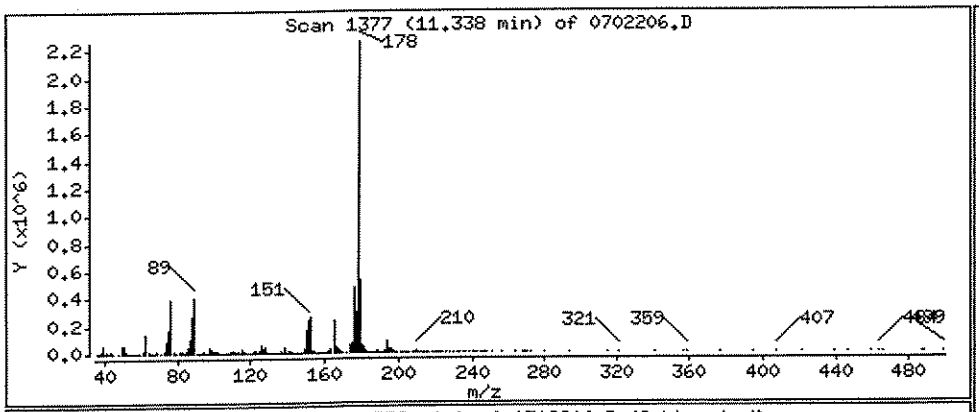
Operator: SDB

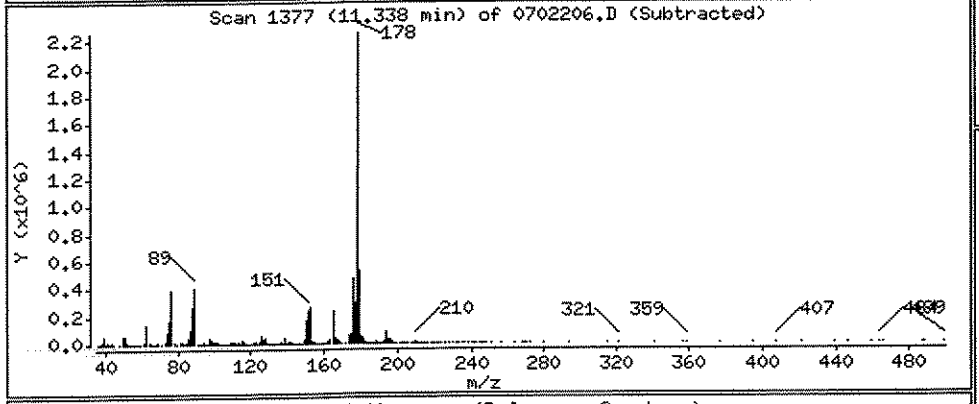
Column phase: fused silica

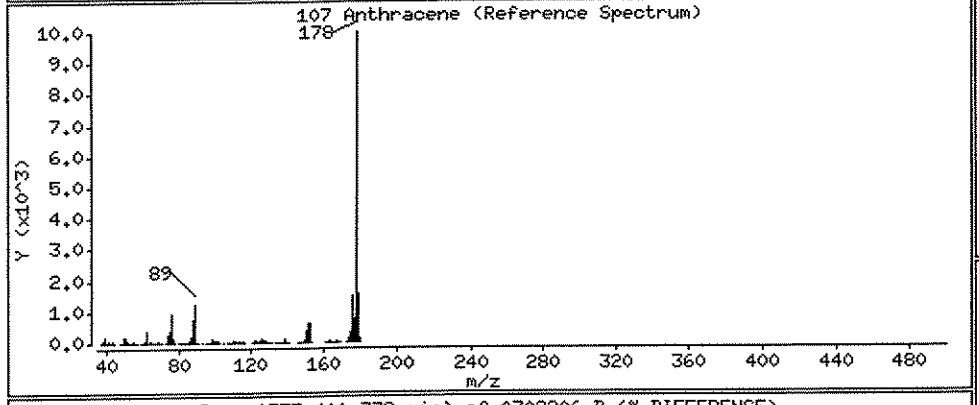
Column diameter: 0.25

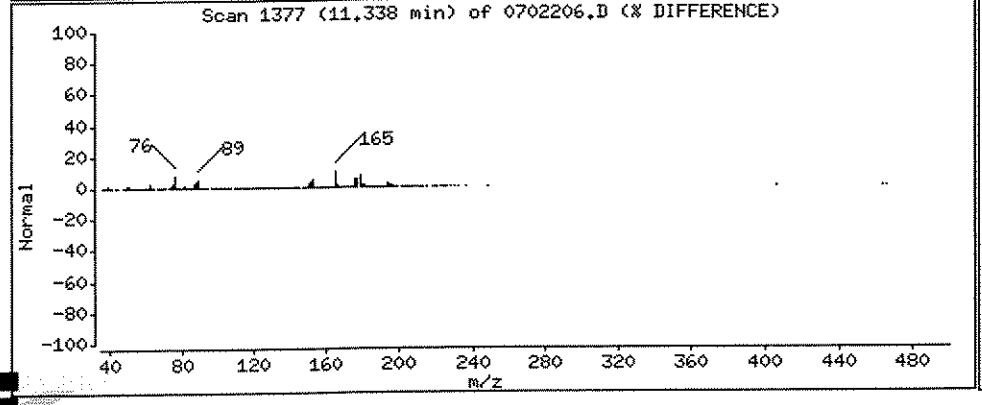
107 Anthracene

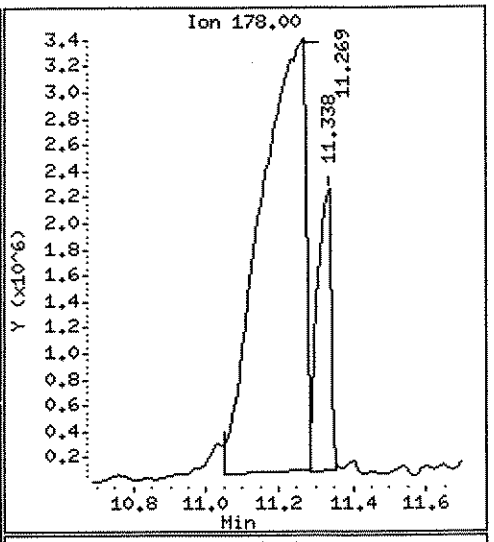
Concentration: 8468 UG/KG

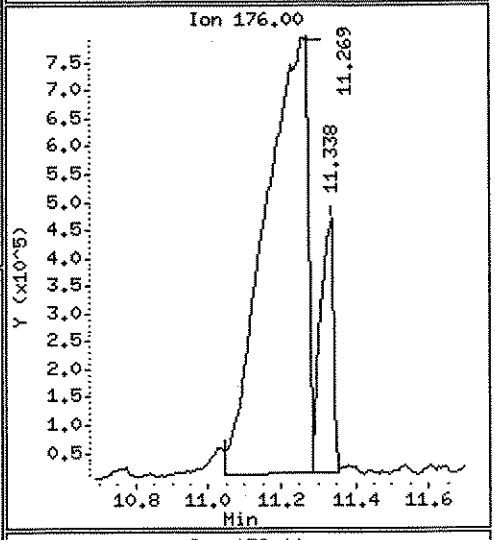


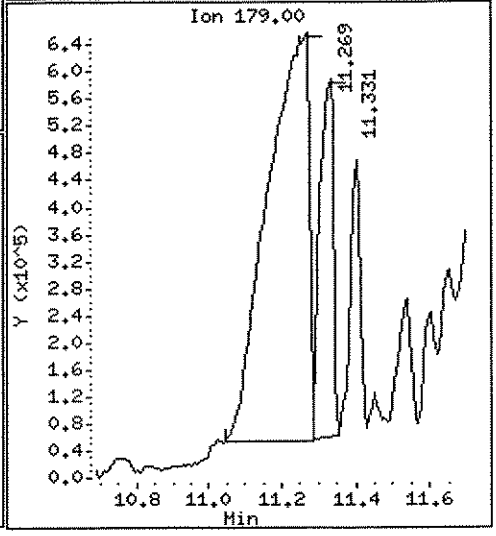












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

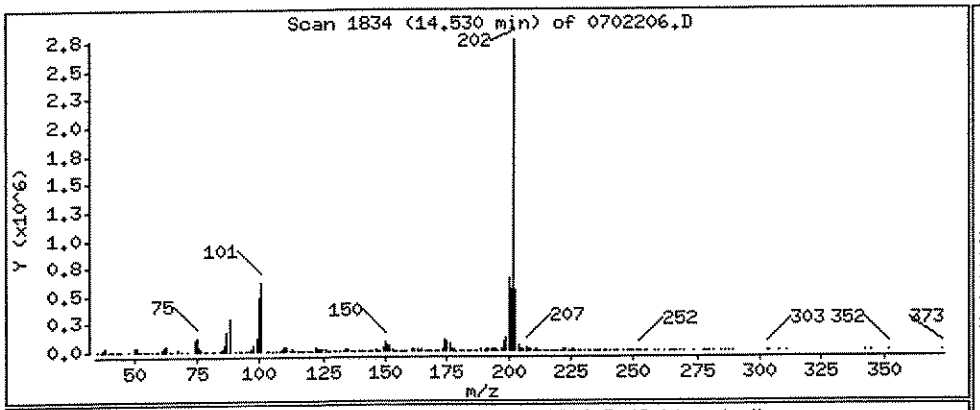
Client ID: 51CFM04S060706 Instrument: bna1.i

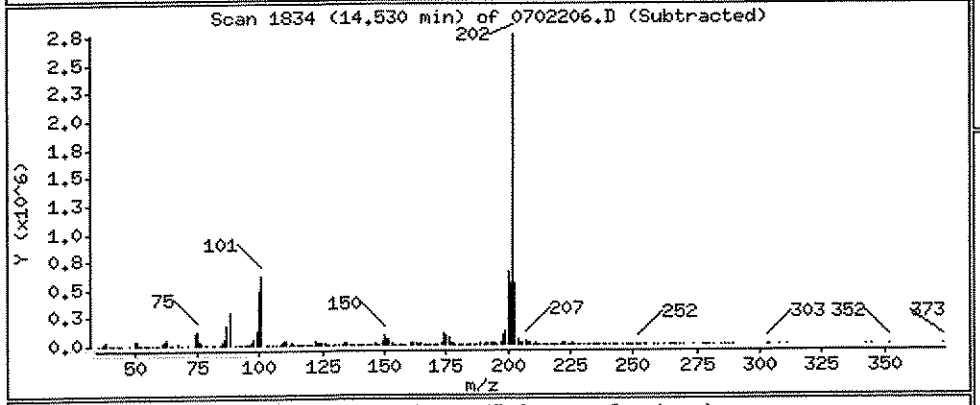
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

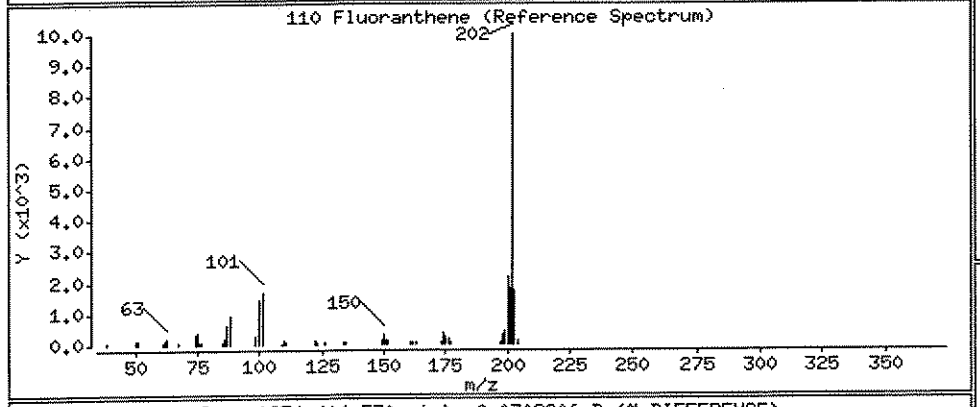
Volume Injected (uL): 0.5 Operator: SDB

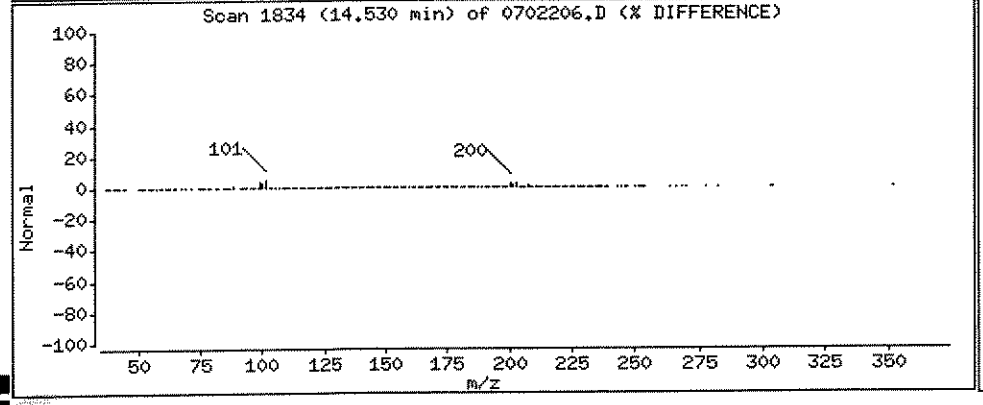
Column phase: fused silica Column diameter: 0.25

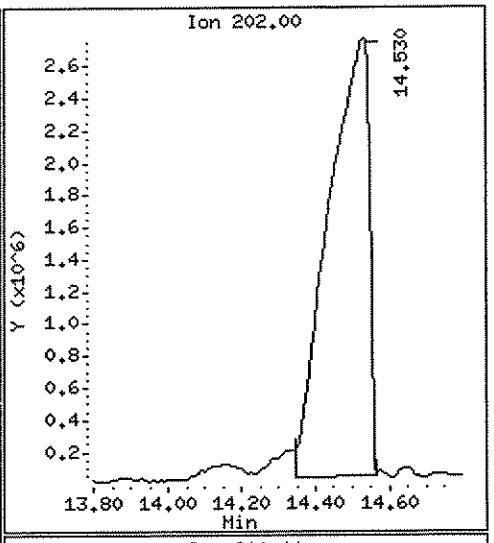
110 Fluoranthene Concentration: 30720 UG/KG

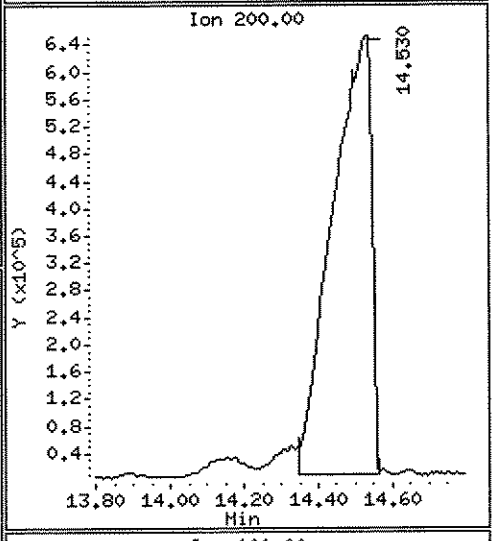


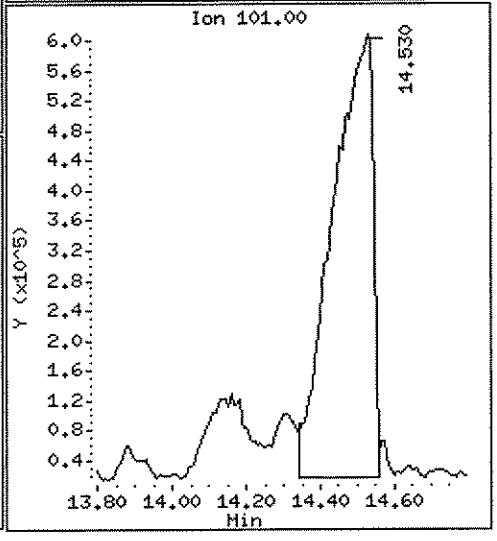












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

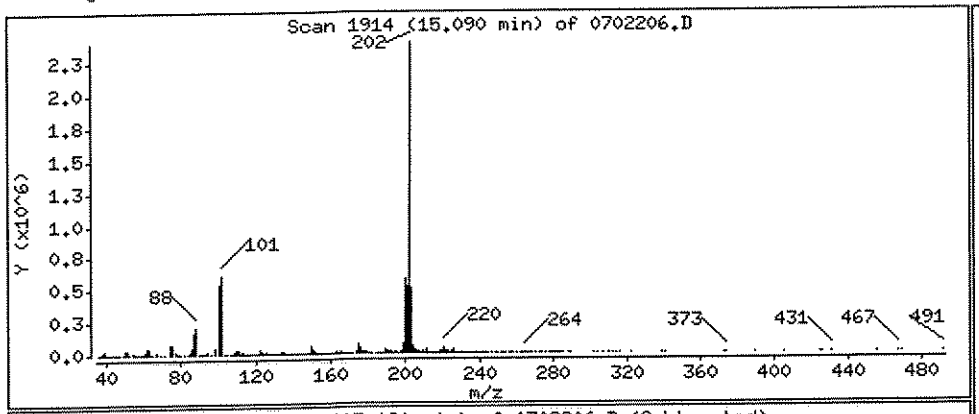
Operator: SDB

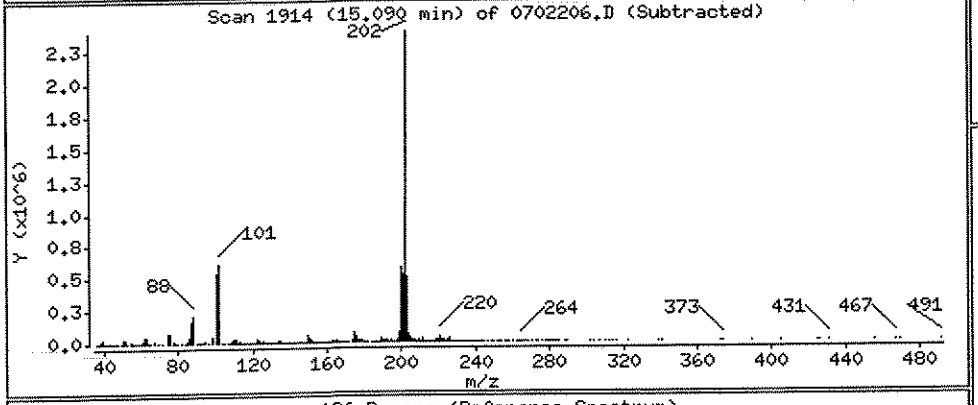
Column phase: fused silica

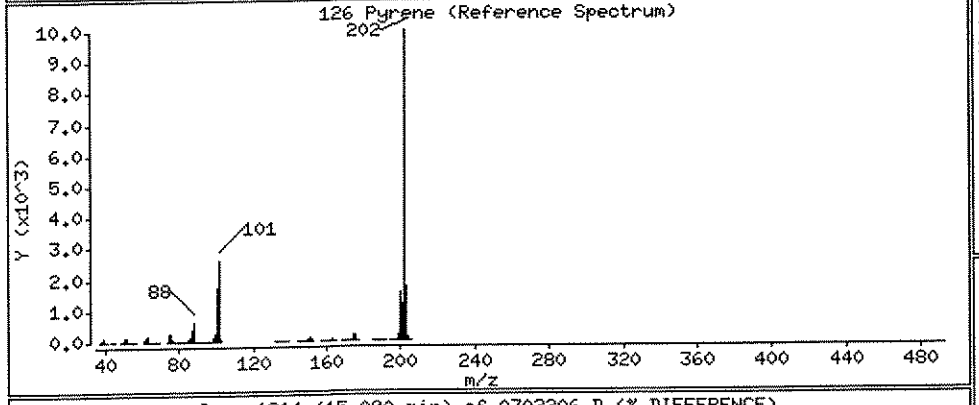
Column diameter: 0.25

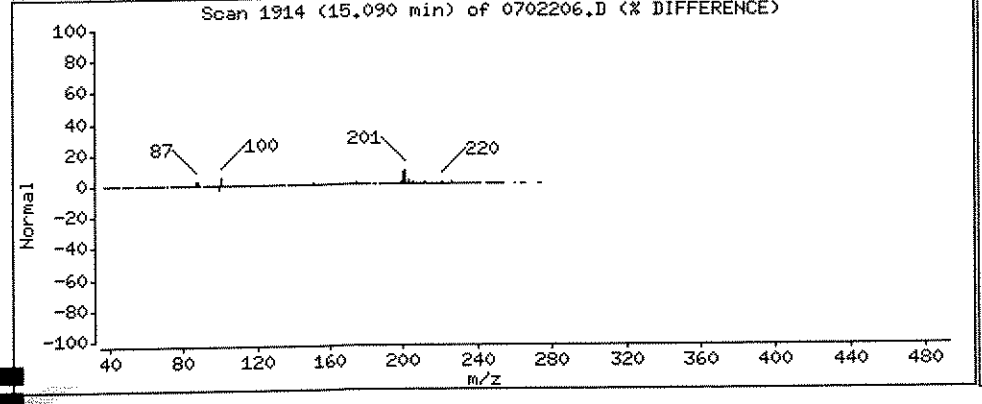
126 Pyrene

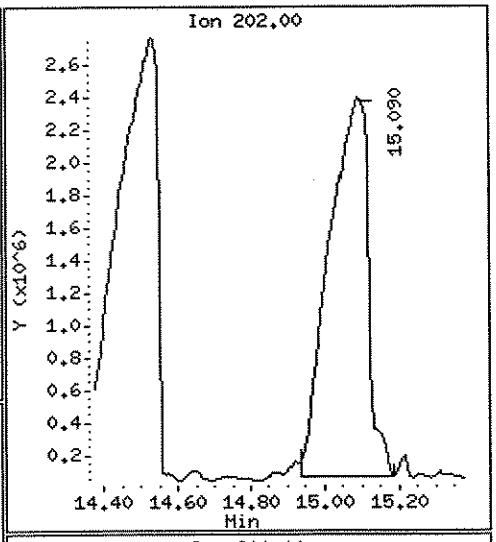
Concentration: 66210 UG/KG

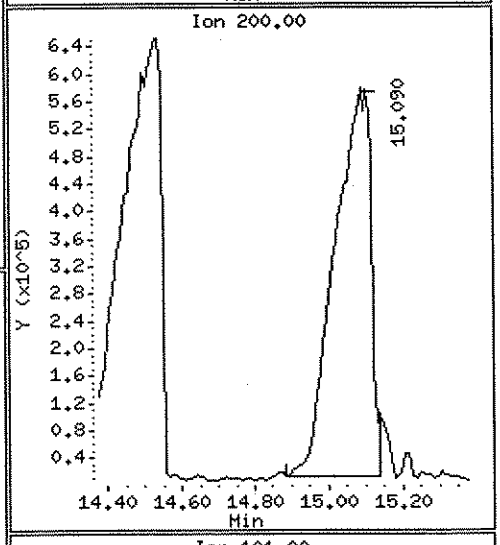


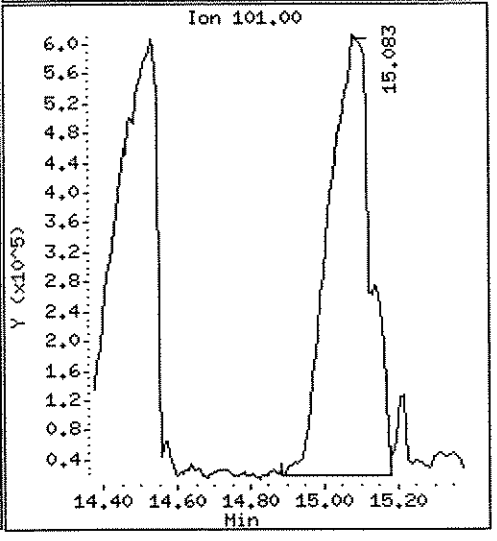












Empirical Laboratories

000157

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

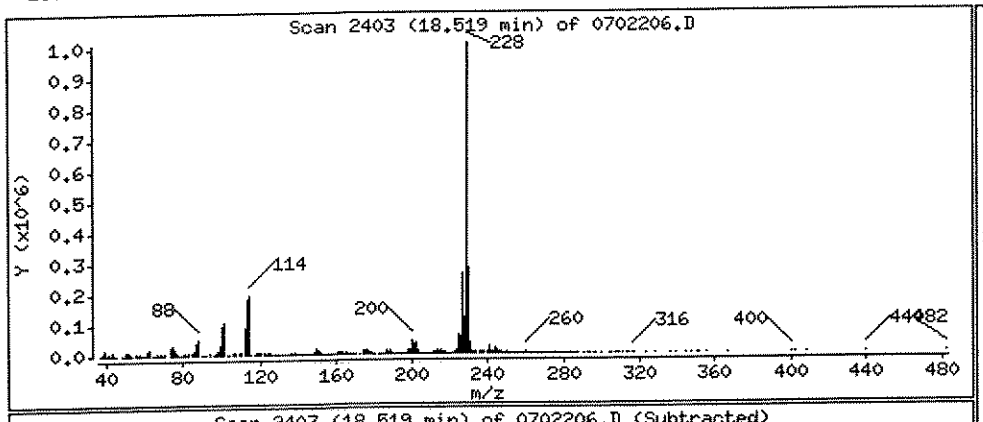
Operator: SDB

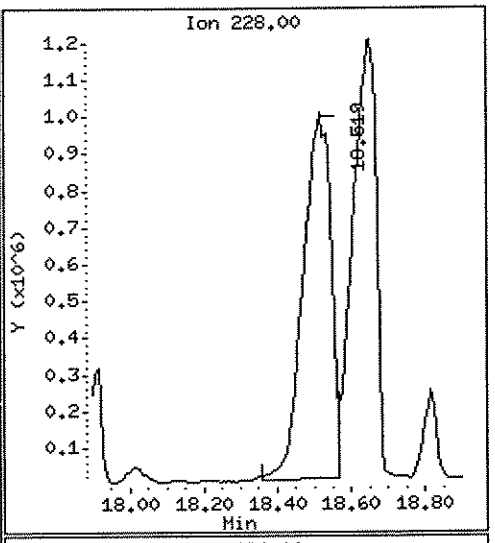
Column phase: fused silica

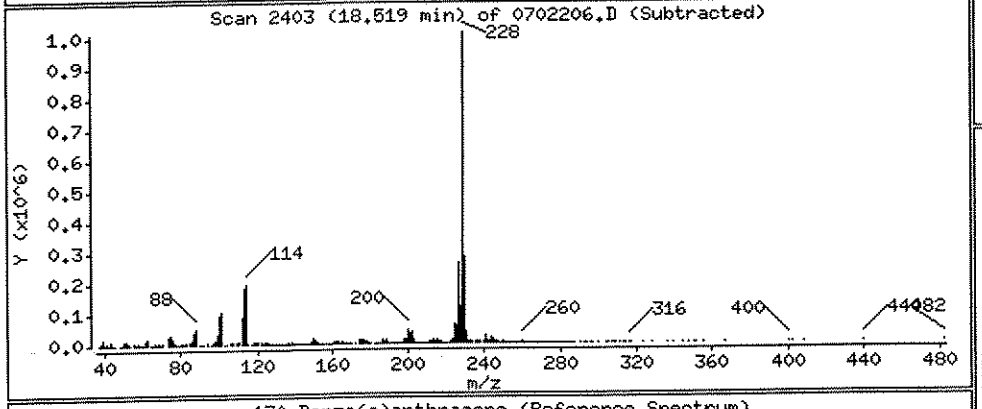
Column diameter: 0.25

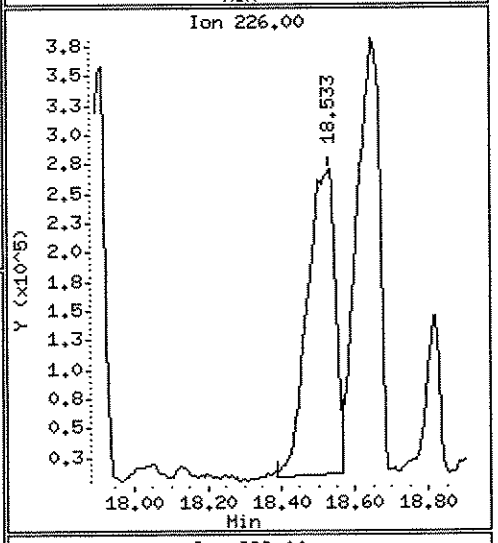
130 Benzo(a)anthracene

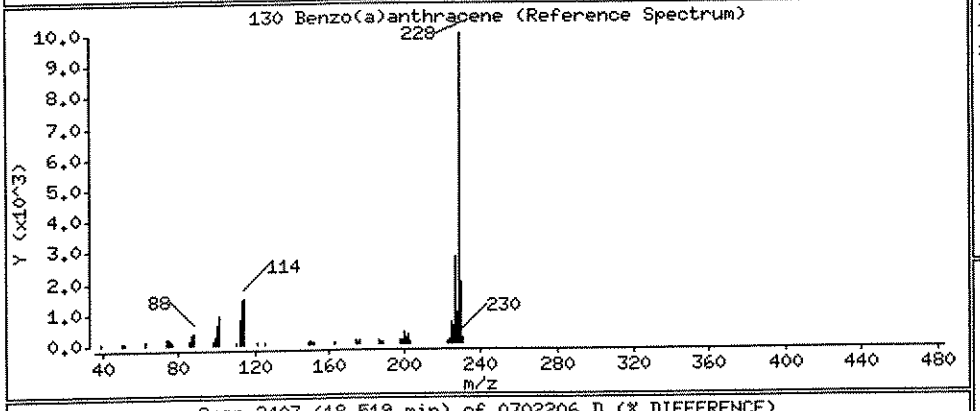
Concentration: 24830 UG/KG

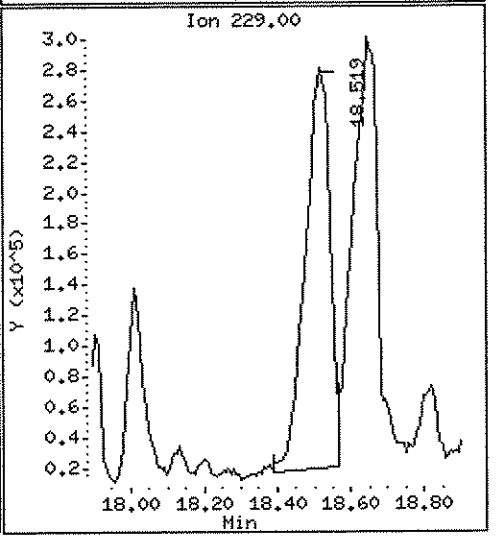


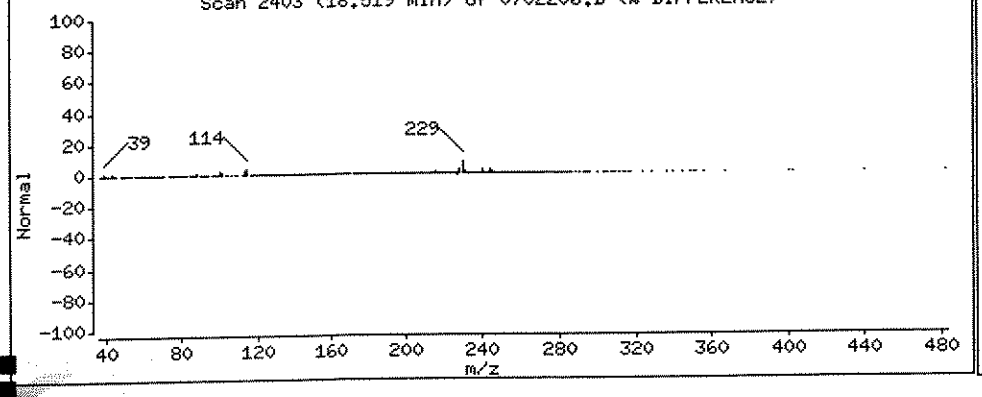












Empirical Laboratories

000158

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

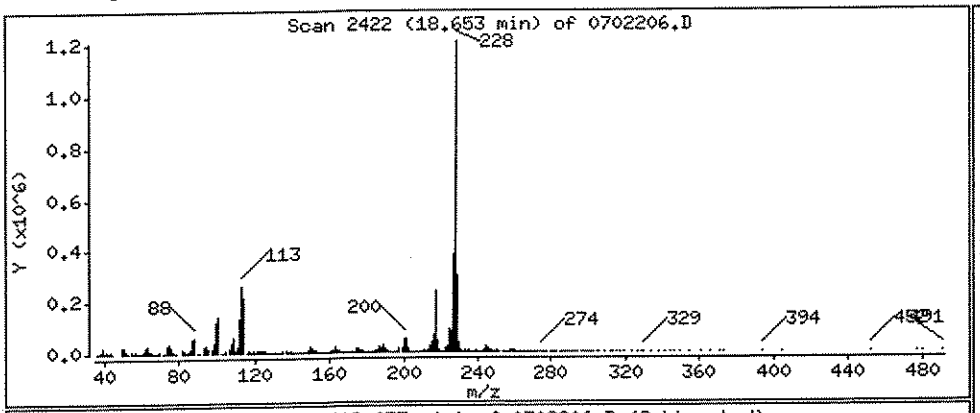
Operator: SDB

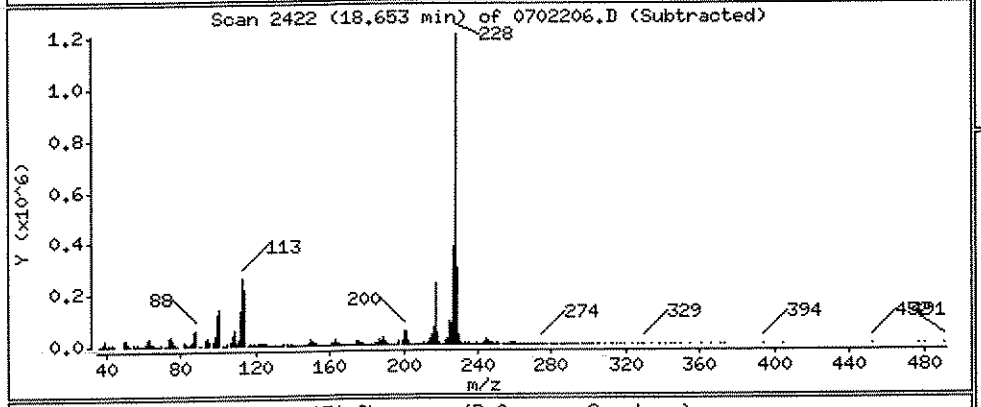
Column phase: fused silica

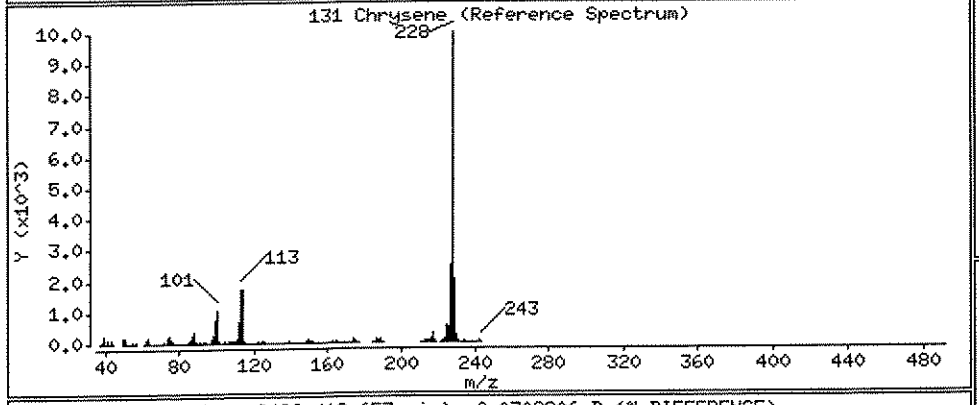
Column diameter: 0.25

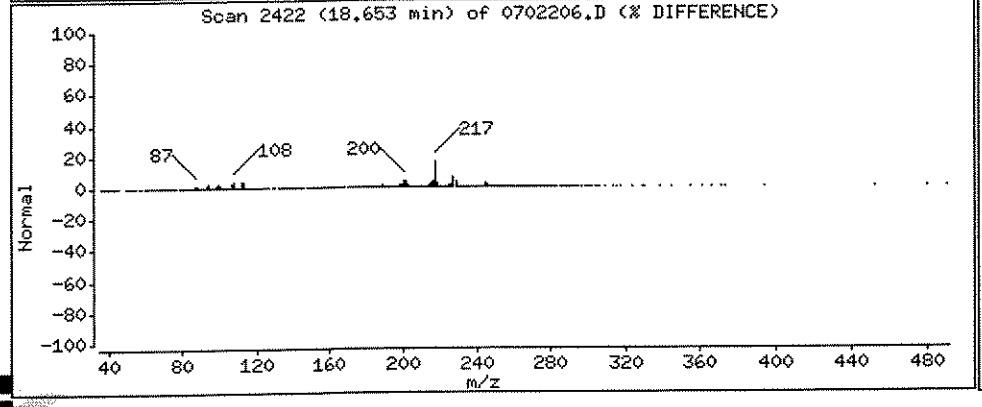
131 Chrysene

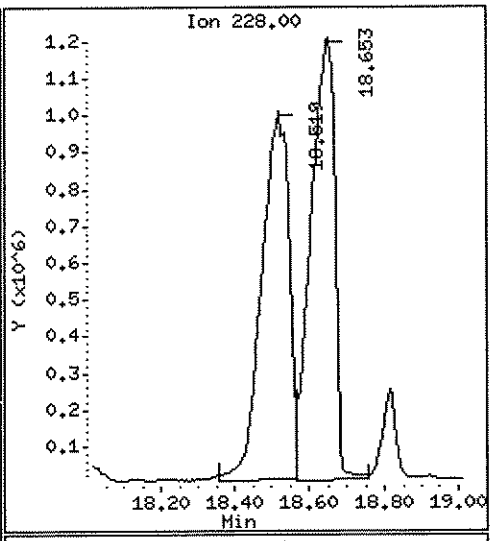
Concentration: 28280 UG/KG

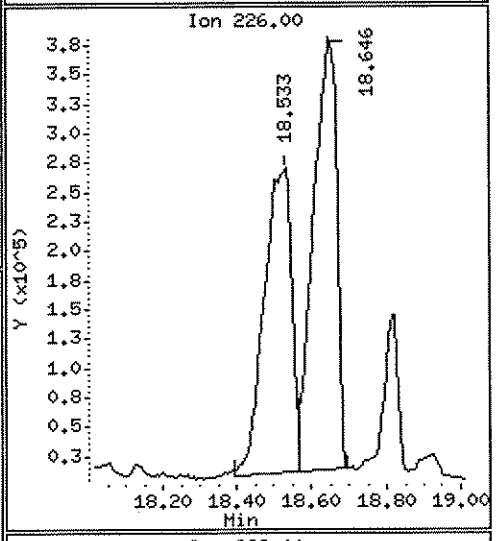


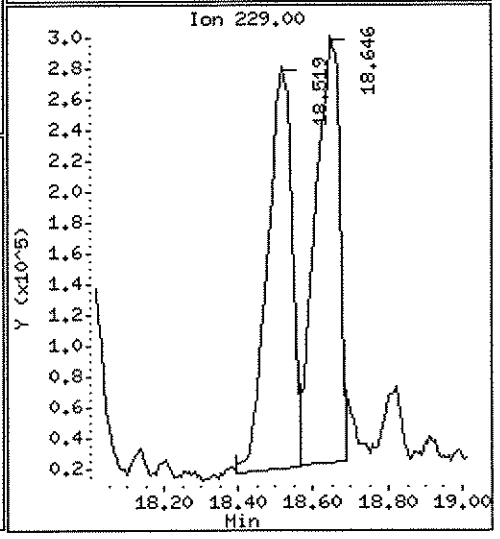












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

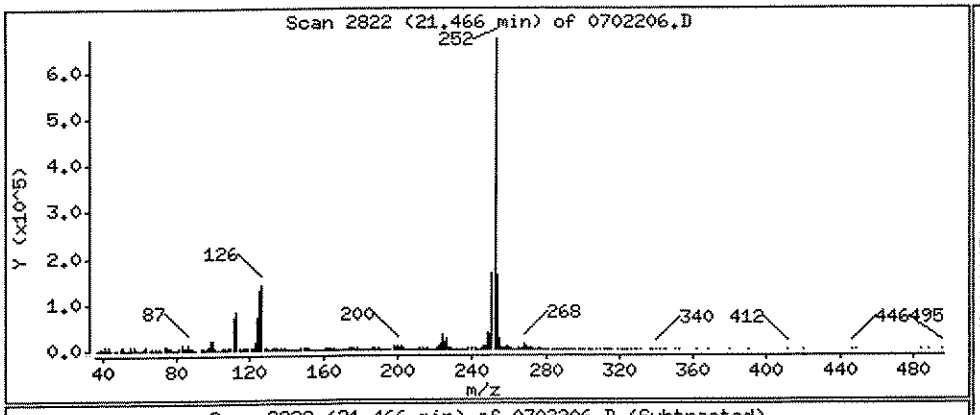
Client ID: 51CFM04S060706 Instrument: bna1.i

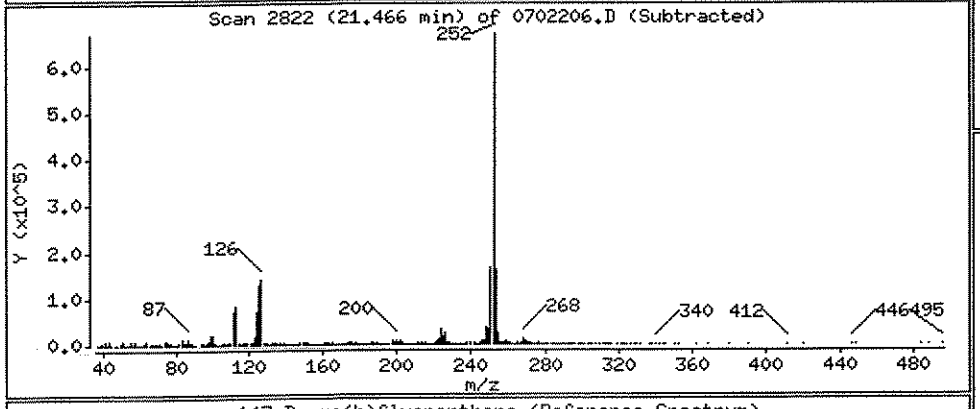
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

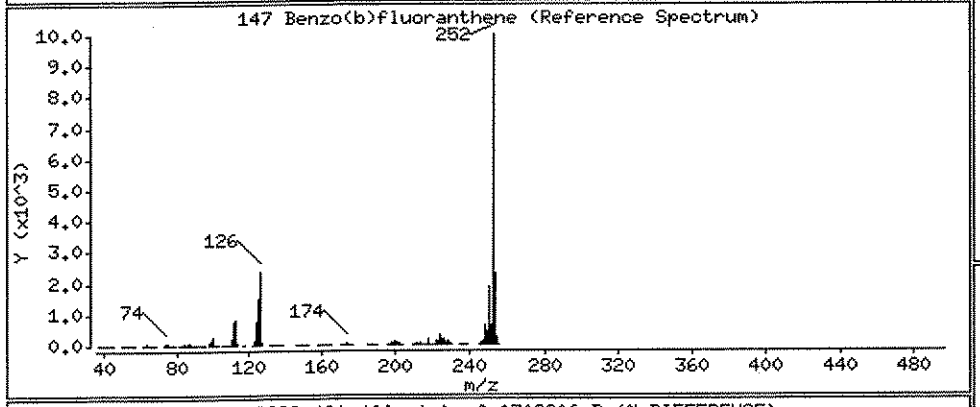
Volume Injected (uL): 0.5 Operator: SDB

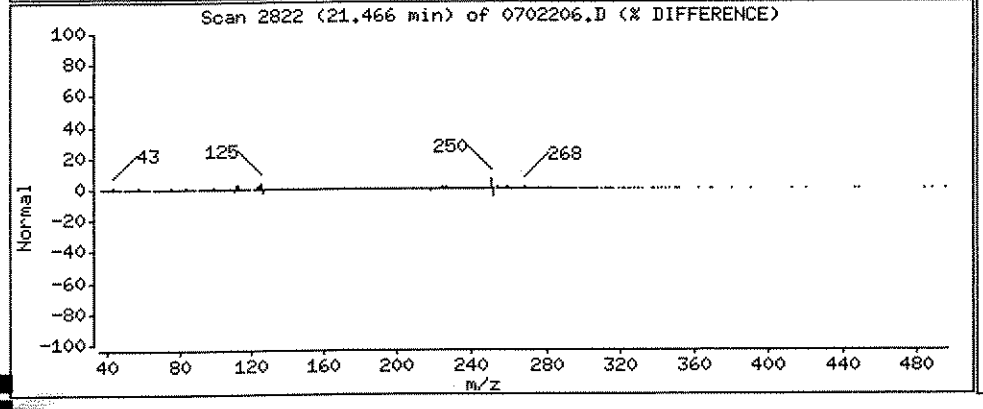
Column phase: fused silica Column diameter: 0.25

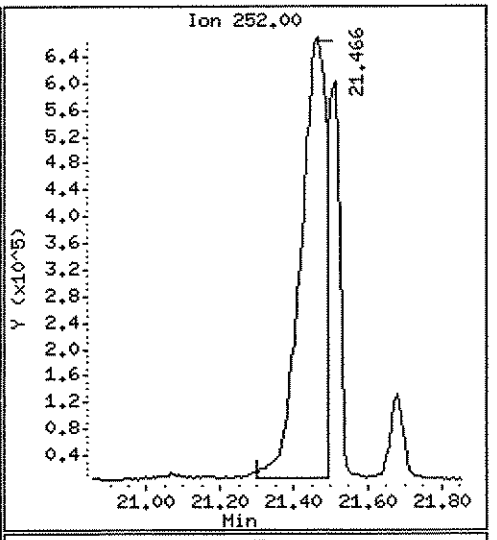
147 Benzo(b)fluoranthene Concentration: 31520 UG/KG

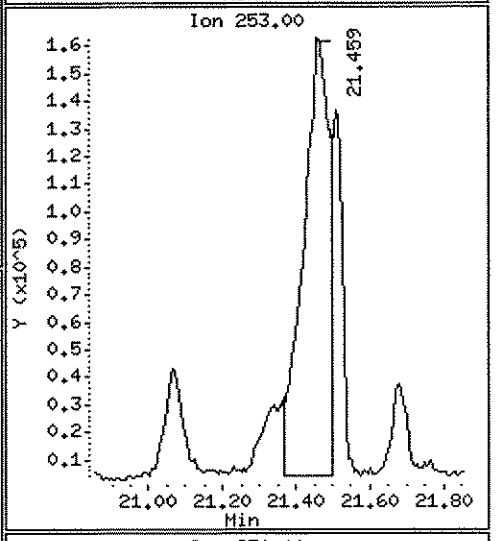


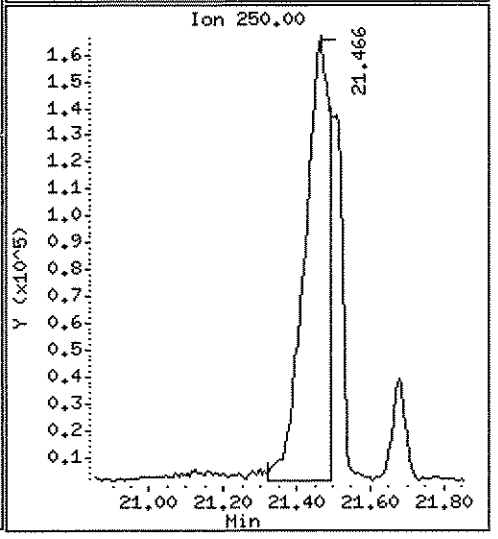












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

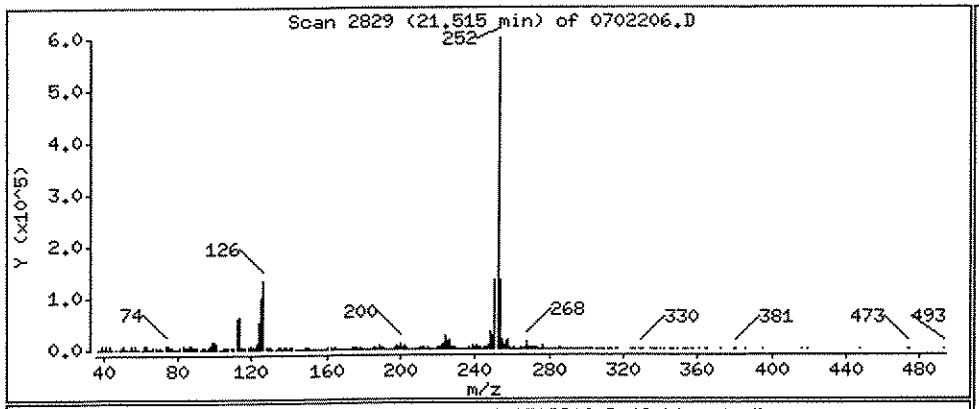
Client ID: 51CFM04S060706 Instrument: bna1.i

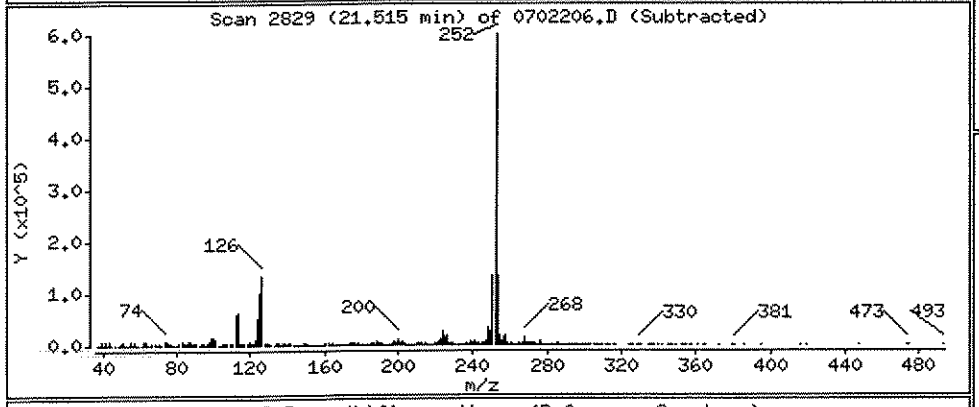
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

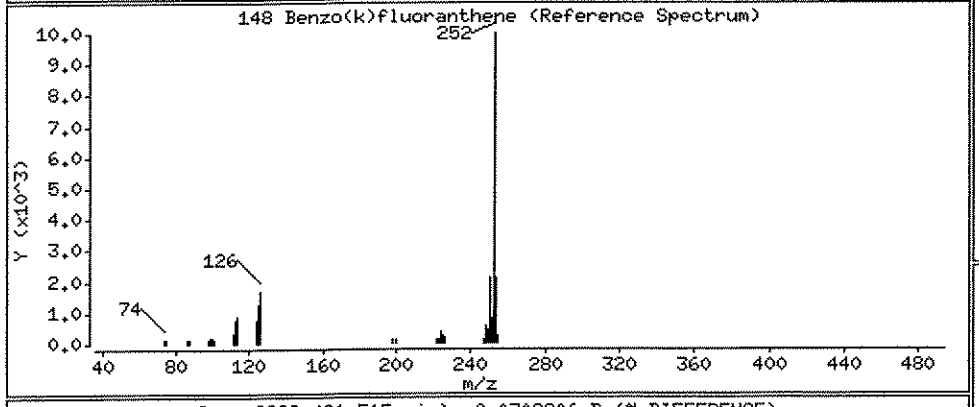
Volume Injected (uL): 0.5 Operator: SDB

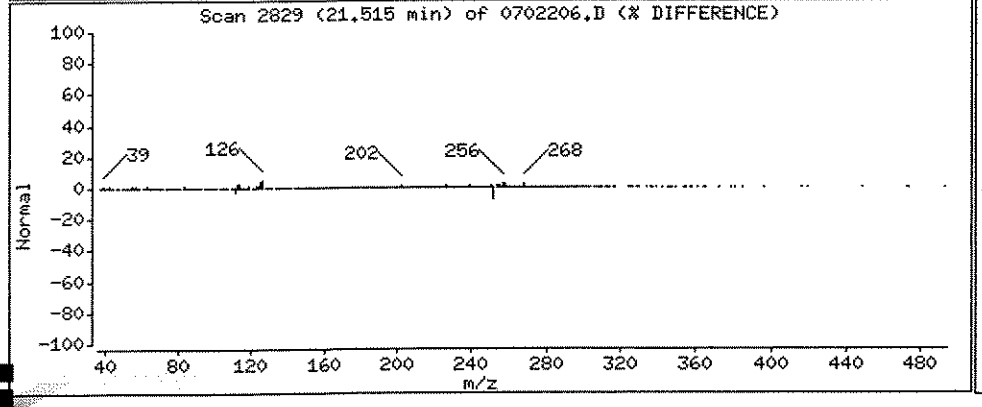
Column phase: fused silica Column diameter: 0.25

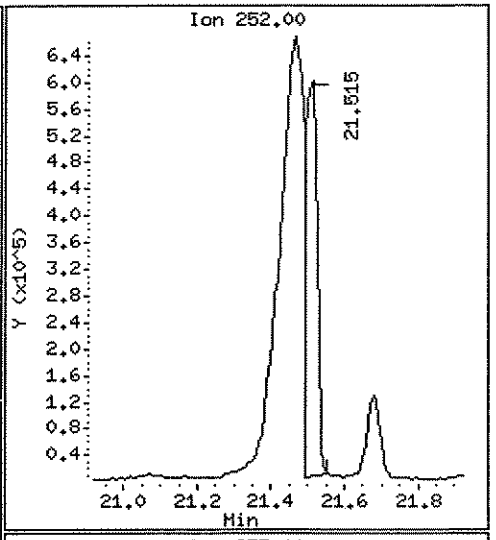
148 Benzo(k)fluoranthene Concentration: 12140 UG/KG

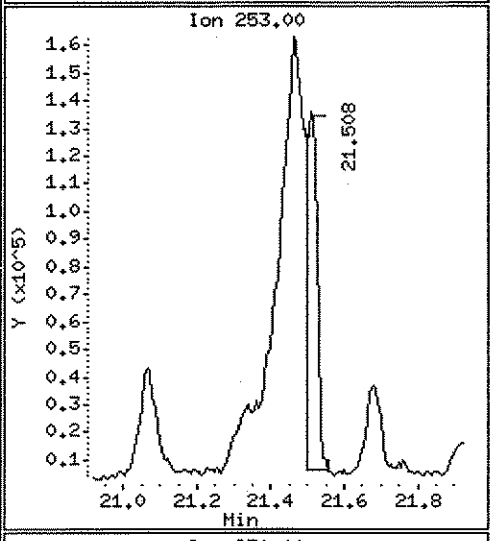


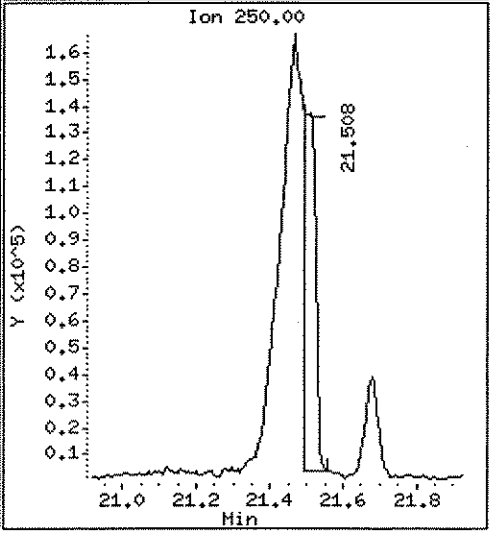












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

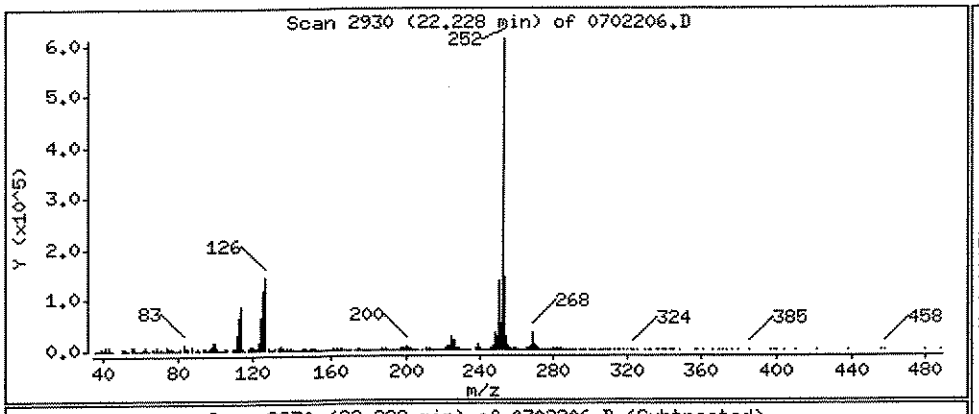
Client ID: 51CFM04S060706 Instrument: bna1.i

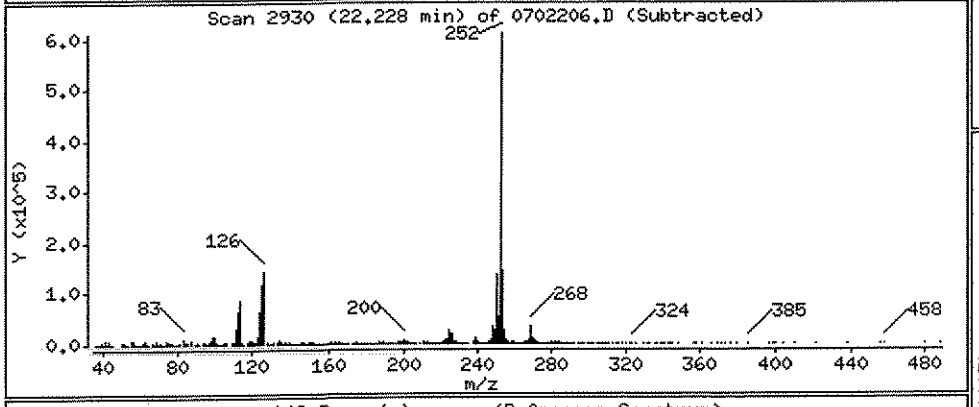
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

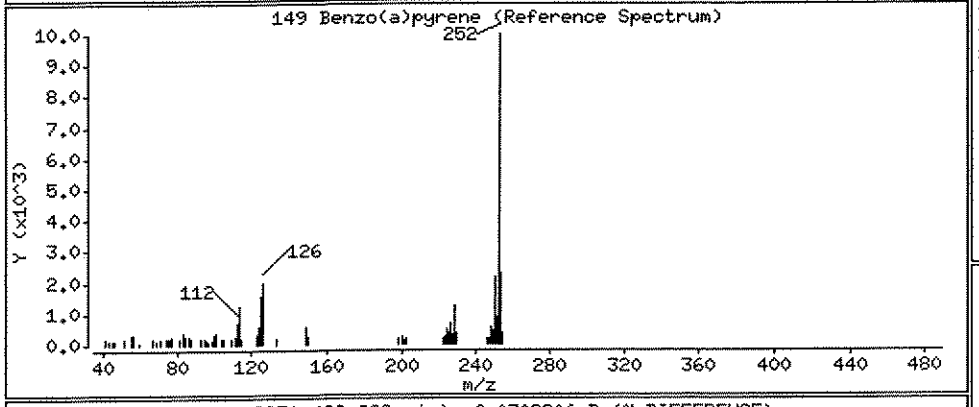
Volume Injected (uL): 0.5 Operator: SDB

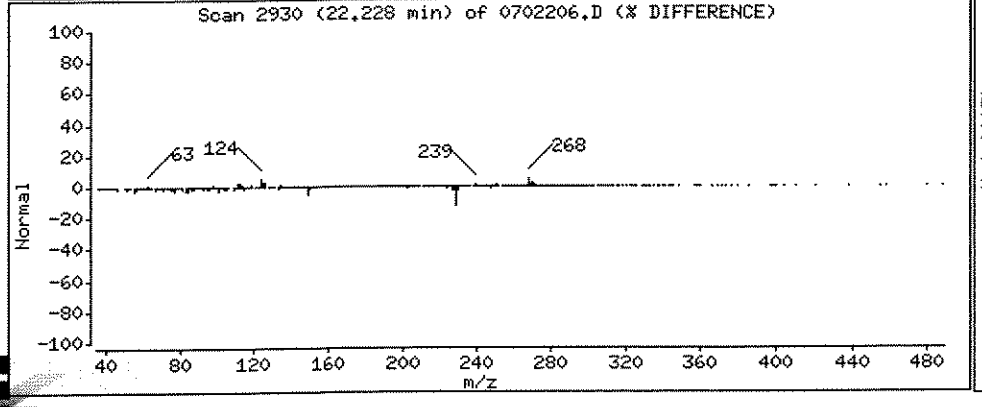
Column phase: fused silica Column diameter: 0.25

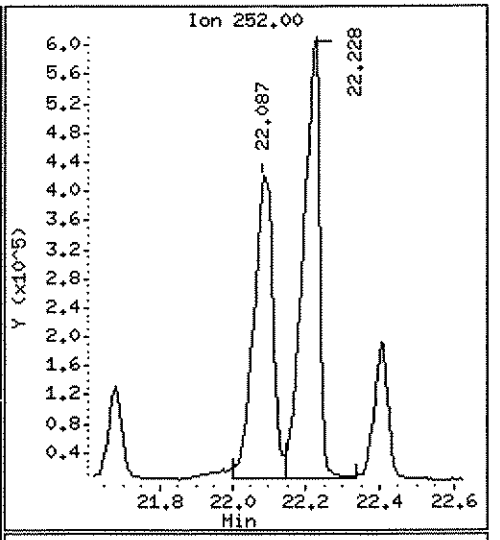
149 Benzo(a)pyrene Concentration: 22170 UG/KG

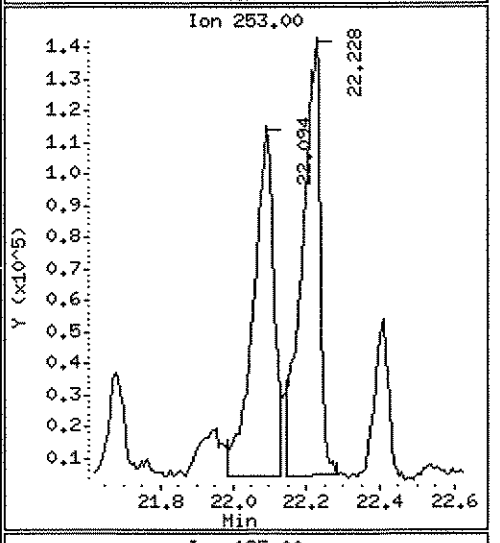


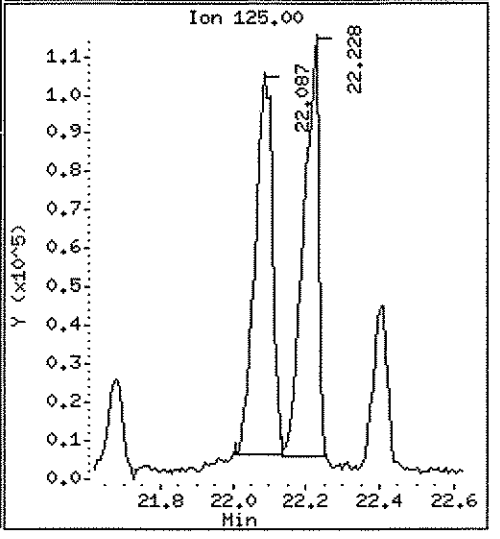












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

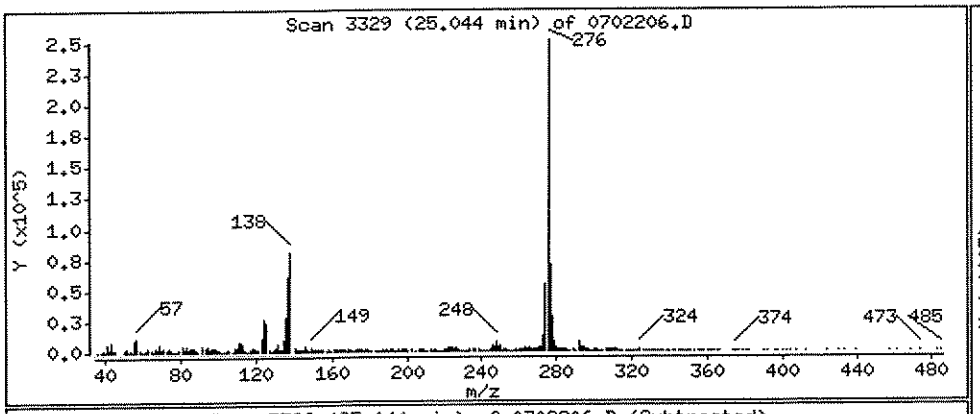
Client ID: 51CFM04S060706 Instrument: bna1.i

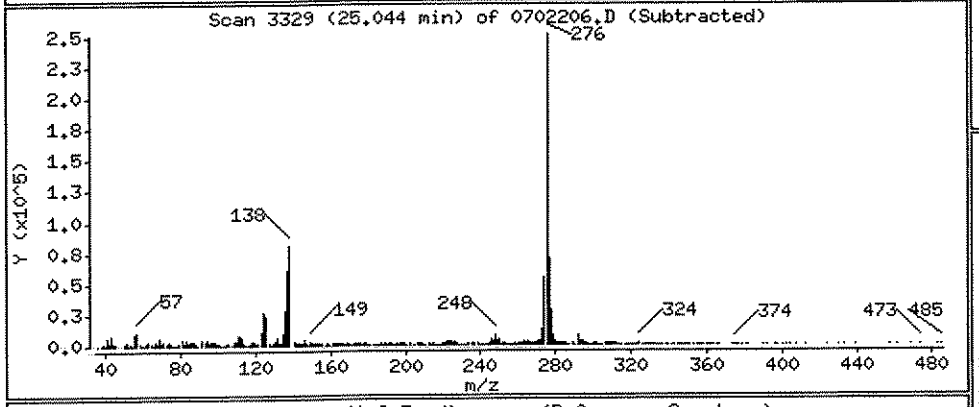
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

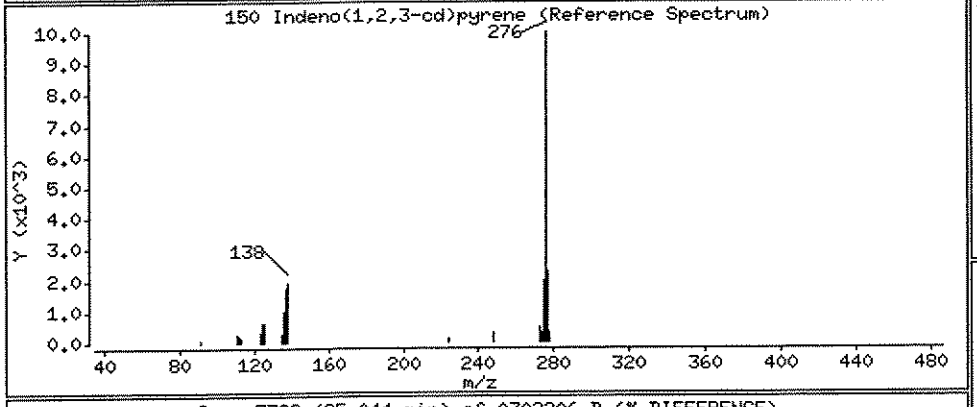
Volume Injected (uL): 0.5 Operator: SDB

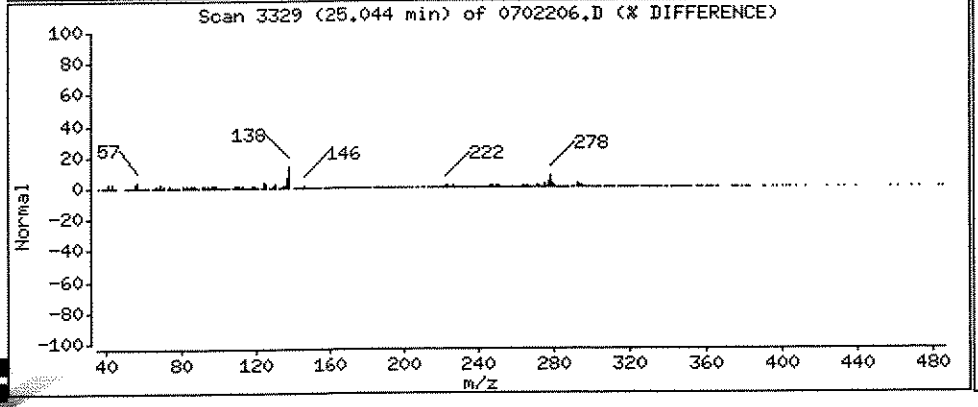
Column phase: fused silica Column diameter: 0.25

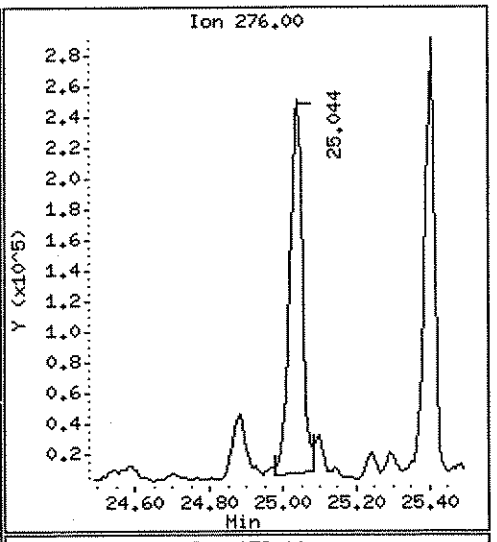
150 Indeno(1,2,3-cd)pyrene Concentration: 7971 UG/KG

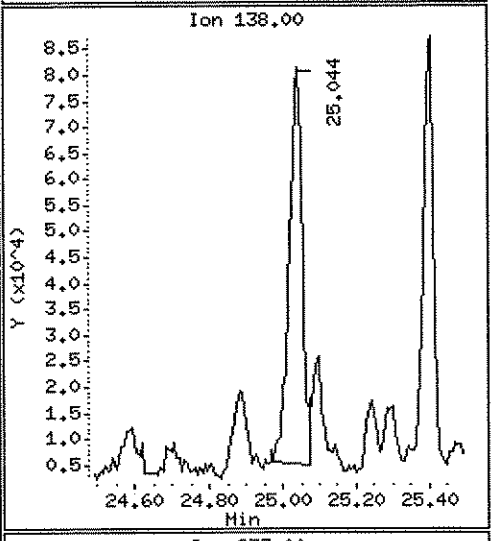


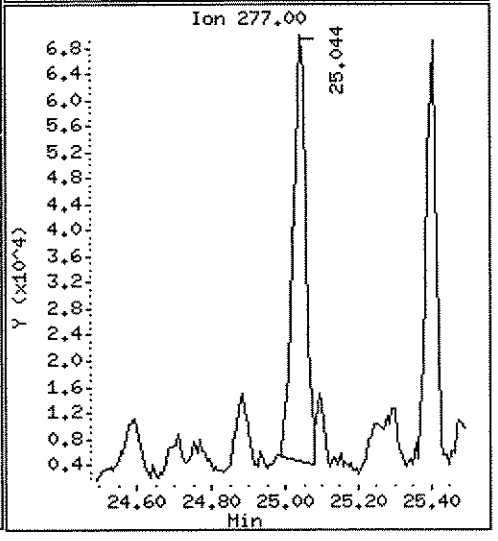












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Date : 10-JUL-2006 16:52

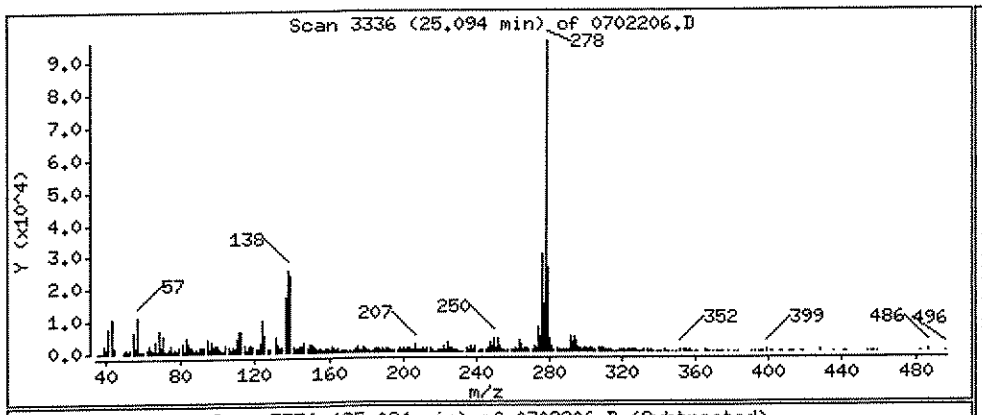
Client ID: 51CFM04S060706 Instrument: bna1.i

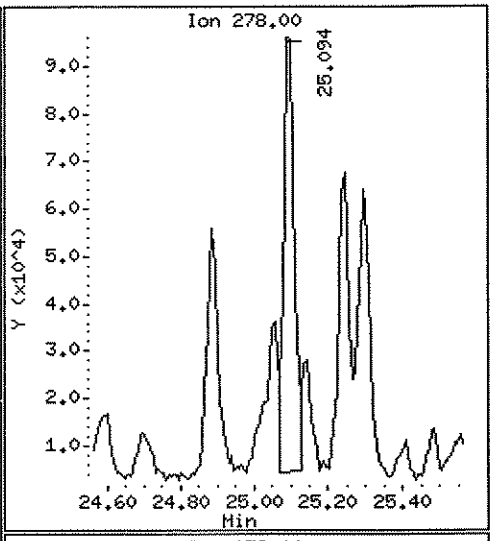
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

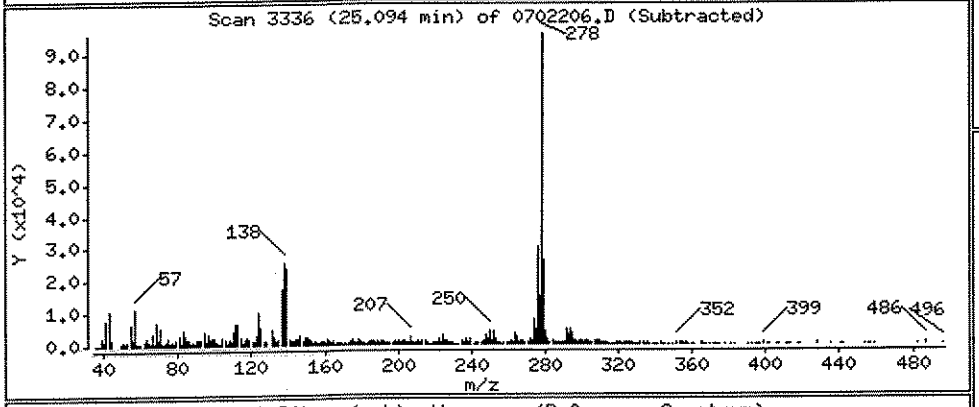
Volume Injected (uL): 0.5 Operator: SDB

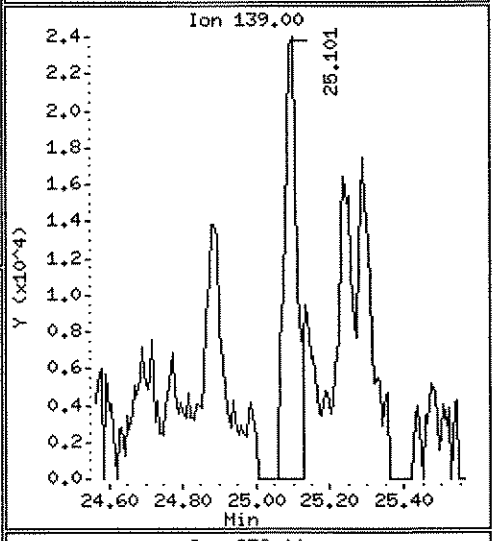
Column phase: fused silica Column diameter: 0.25

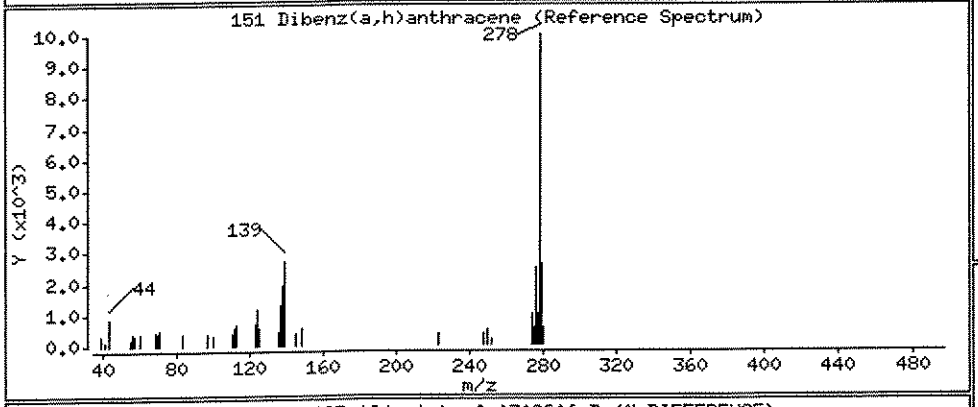
151 Dibenz(a,h)anthracene Concentration: 2498 UG/KG

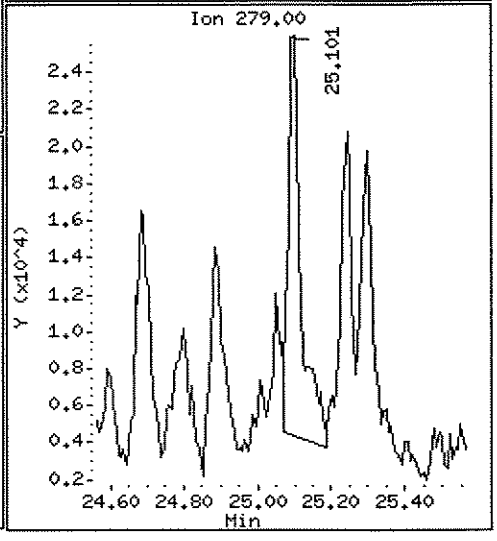


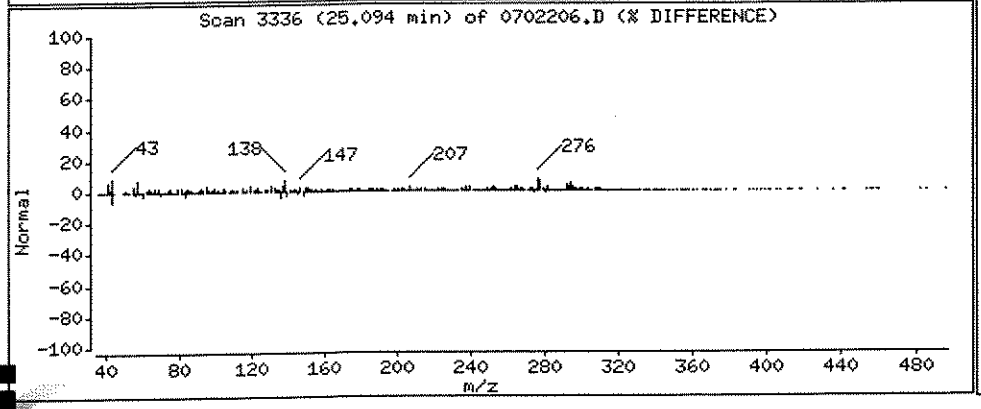












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Date : 10-JUL-2006 16:52

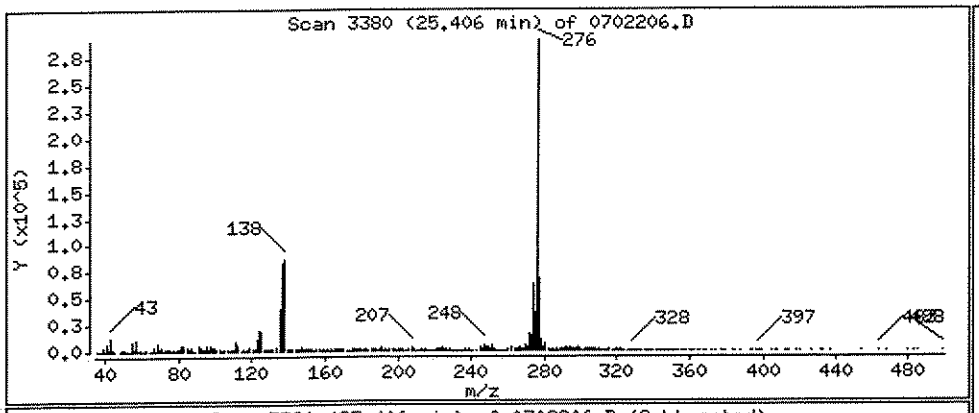
Client ID: 51CFM04S060706 Instrument: bna1.i

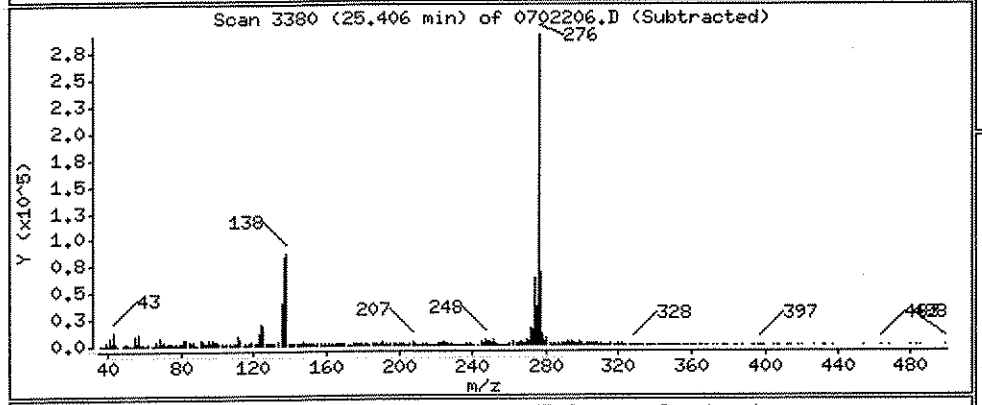
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

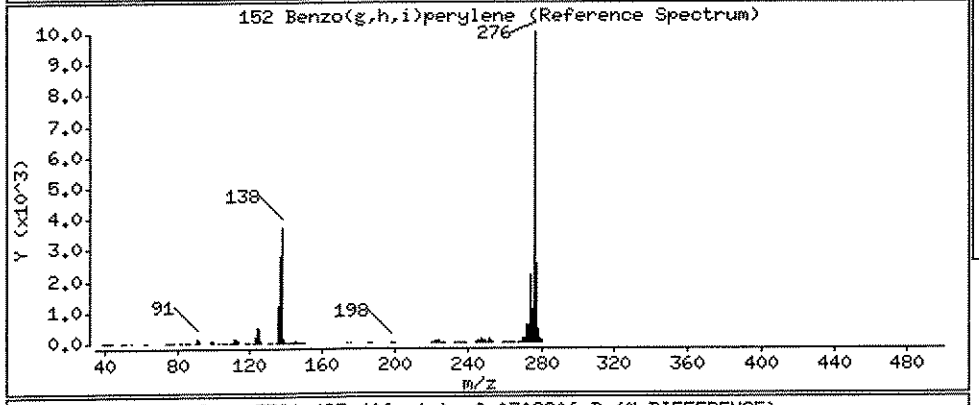
Volume Injected (uL): 0.5 Operator: SDB

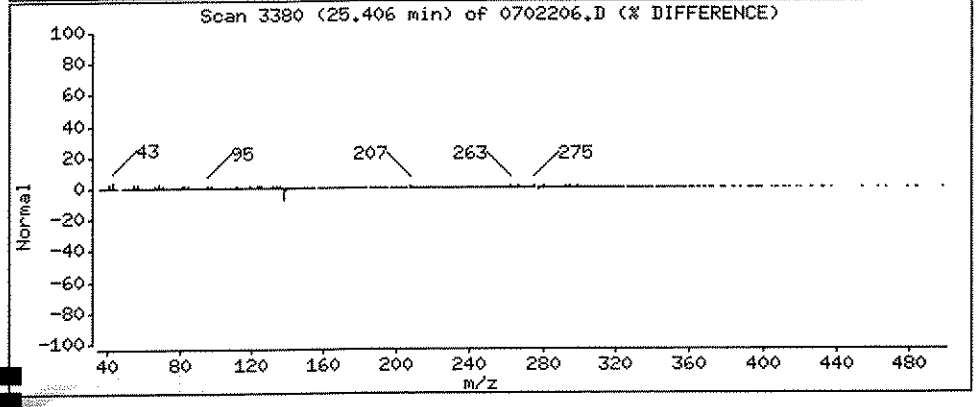
Column phase: fused silica Column diameter: 0.25

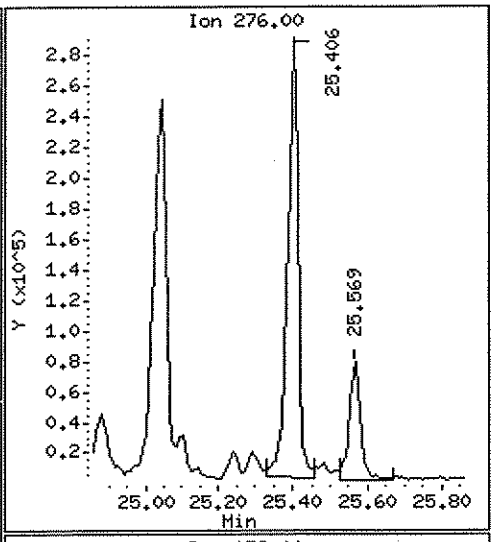
152 Benzo(g,h,i)perylene Concentration: 7391 UG/KG

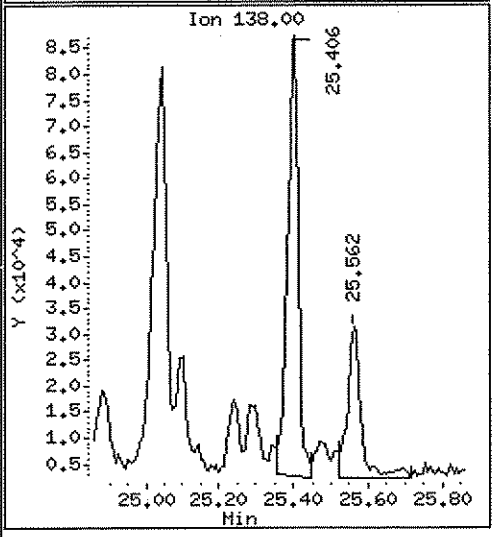












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM04S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:17

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000	9600	JD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	11000	JD
56-55-3	Benzo(a)anthracene	4200	35000	34000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	28000	JD
207-08-9	Benzo(k)fluoranthene	4200	35000	21000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	16000	JD
50-32-8	Benzo(a)pyrene	4200	21000	30000	D
218-01-9	Chrysene	4200	35000	40000	D
53-70-3	Dibenz(a,h)anthracene	4200	21000		UD
206-44-0	Fluoranthene	4200	35000	76000	D
86-73-7	Fluorene	4200	35000	10000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	18000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	74000	D
129-00-0	Pyrene	4200	35000	61000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 11-JUL-2006 13:17
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	200.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.234	4.235	(1.000)	550037	40.0000	
* 31 Naphthalene-d8	136	5.235	5.240	(1.000)	1768695	40.0000	
* 65 Acenaphthene-d10	164	7.638	7.641	(1.000)	910077	40.0000	
76 Acenaphthene	153	7.686	7.703	(1.006)	36138	1.37589	9561(a)
84 Fluorene	166	8.714	8.727	(1.141)	41834	1.48917	10350(a)
* 97 Phenanthrene-d10	188	10.920	10.923	(1.000)	1219549	40.0000	
106 Phenanthrene	178	10.968	10.986	(1.004)	370610	10.6583	74060
107 Anthracene	178	11.078	11.096	(1.015)	55130	1.60592	11160(a)
110 Fluoranthene	202	14.180	14.195	(1.299)	376879	10.9476	76080
* 124 Chrysene-d12	240	18.323	18.333	(1.000)	928463	40.0000	
126 Pyrene	202	14.757	14.770	(0.805)	326338	8.80102	61160
130 Benzo(a)anthracene	228	18.268	18.291	(0.997)	145674	4.86957	33840(a)
131 Chrysene	228	18.379	18.409	(1.003)	156222	5.71759	39730

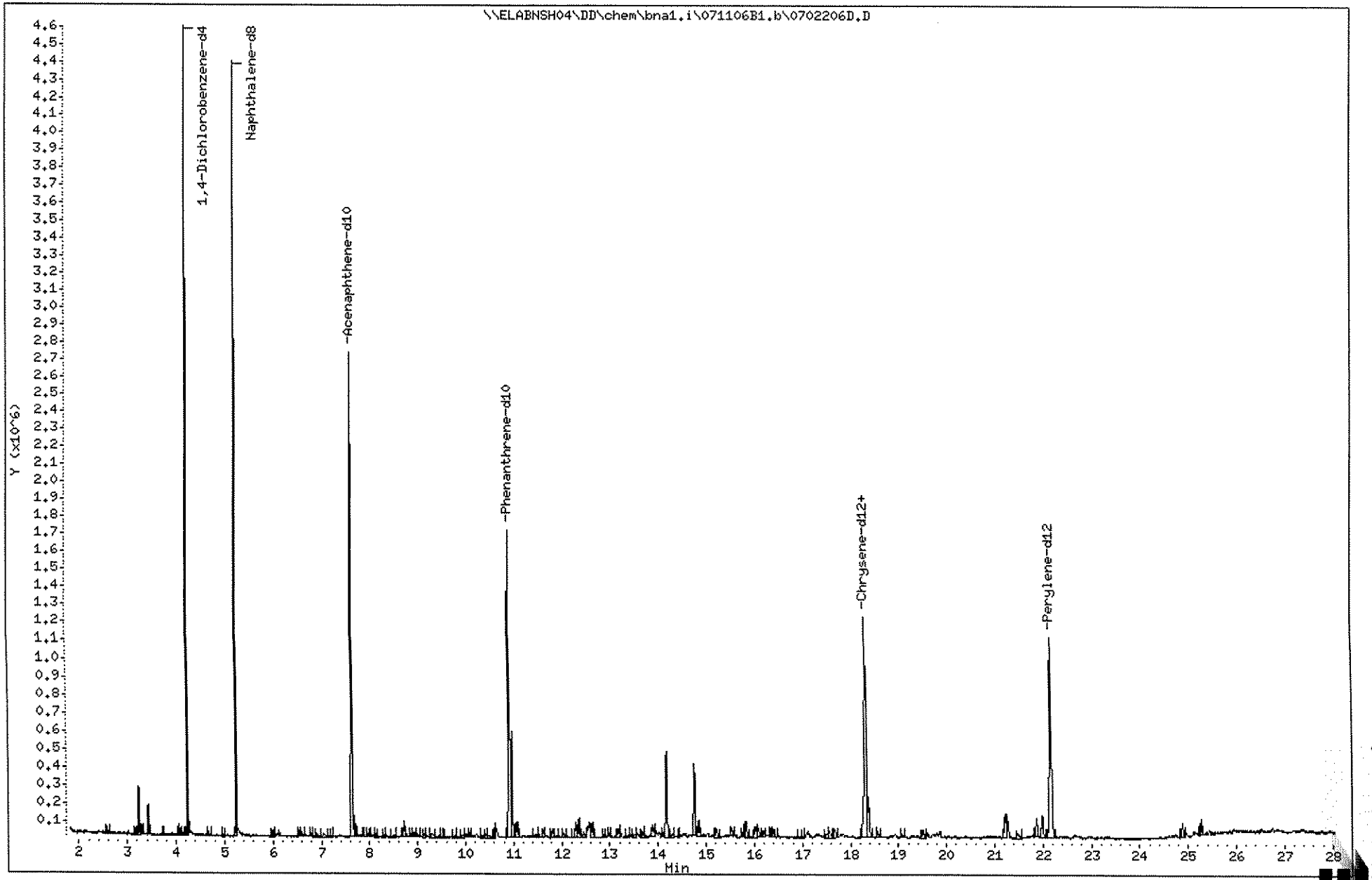
Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Report Date: 12-Jul-2006 12:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.166	22.175	(1.000)	954726	40.0000	
147 Benzo(b)fluoranthene	252	21.215	21.248	(0.957)	120219	4.08773	28410(aM)
148 Benzo(k)fluoranthene	252	21.250	21.317	(0.959)	94357	3.09238	21490(aM)
149 Benzo(a)pyrene	252	21.986	22.017	(0.992)	110520	4.35803	30280(a)
150 Indeno(1,2,3-cd)pyrene	276	24.880	24.921	(1.122)	54962	2.54021	17650(a)
152 Benzo(g,h,i)perylene	276	25.267	25.301	(1.140)	51253	2.28263	15860(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Date : 11-JUL-2006 13:17
Client ID: 51CFM04S060706
Instrument: bna1.i
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

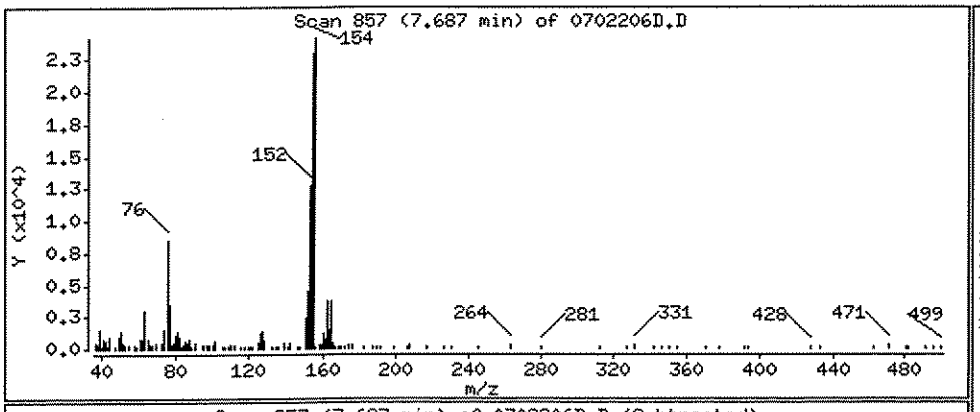
Client ID: 51CFM04S060706 Instrument: bna1.i

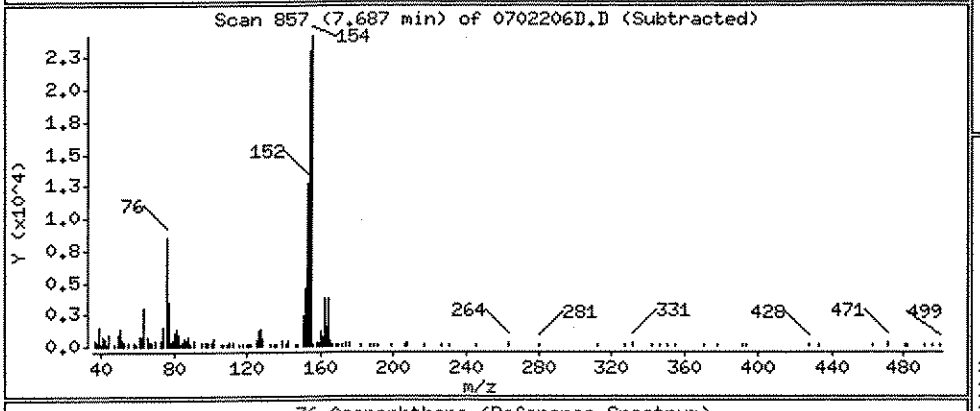
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

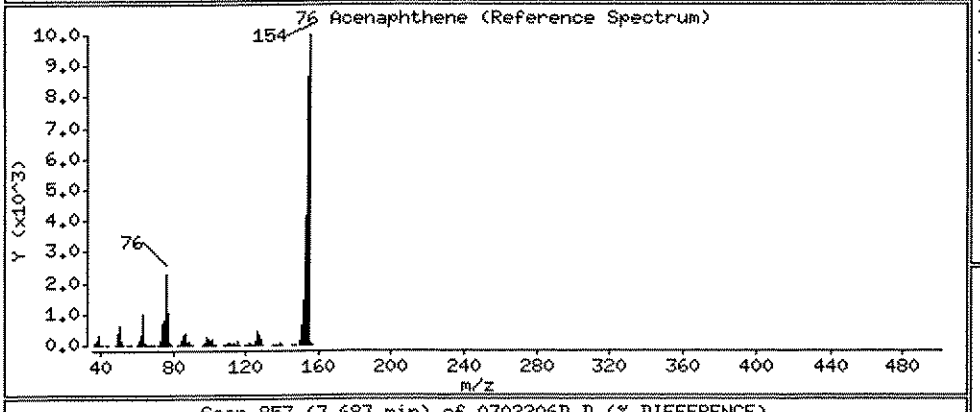
Volume Injected (uL): 0.5 Operator: SDB

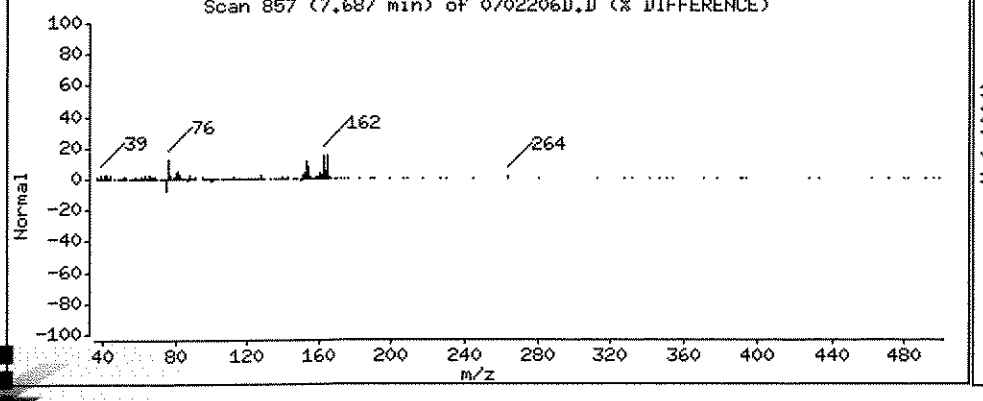
Column phase: fused silica Column diameter: 0.25

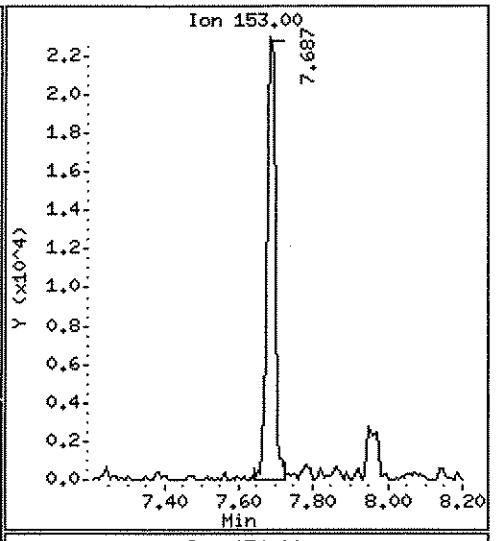
76 Acenaphthene Concentration: 9561 UG/KG

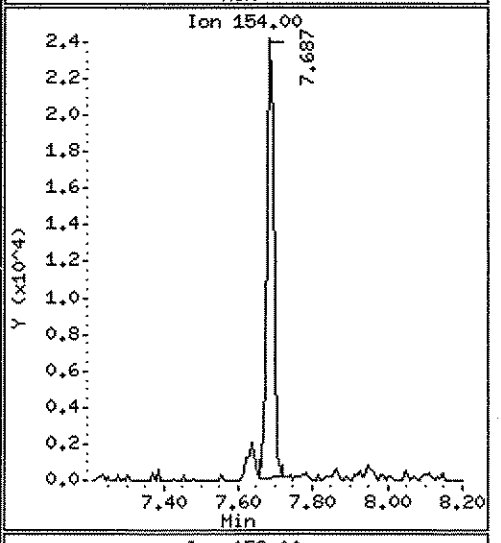


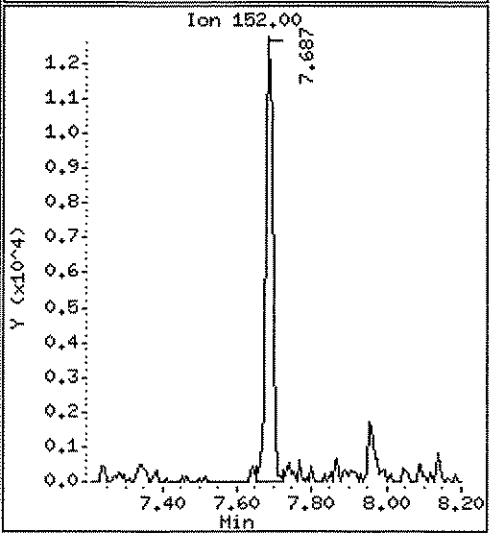












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Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

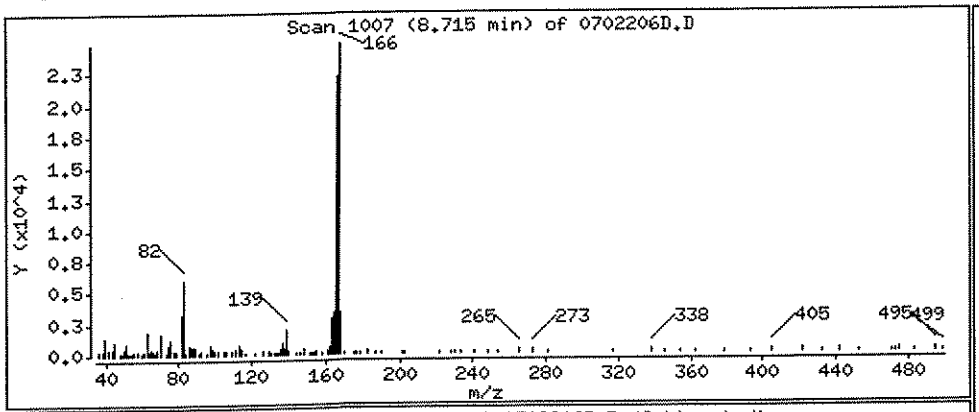
Operator: SDB

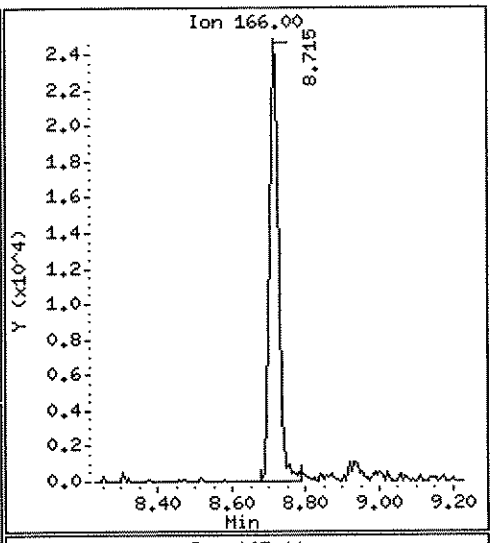
Column phase: fused silica

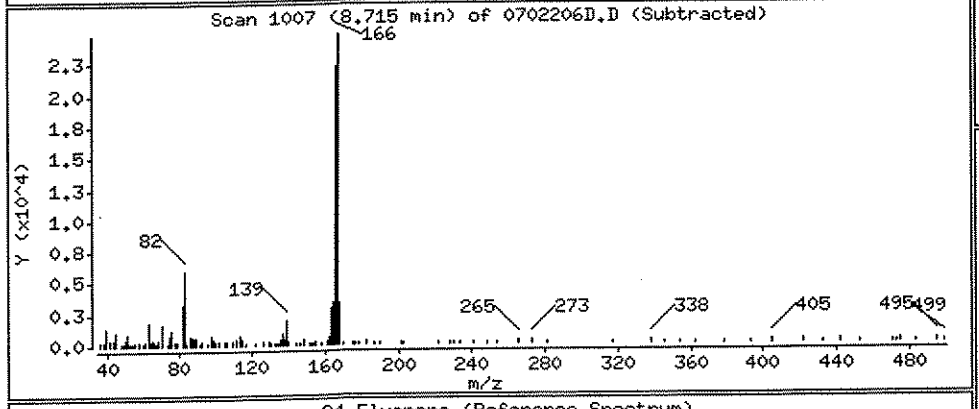
Column diameter: 0.25

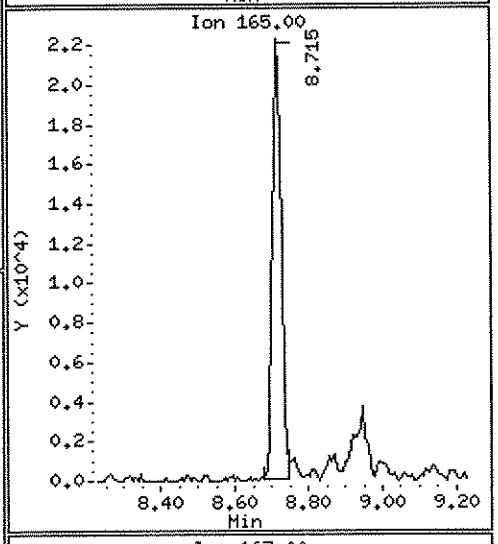
84 Fluorene

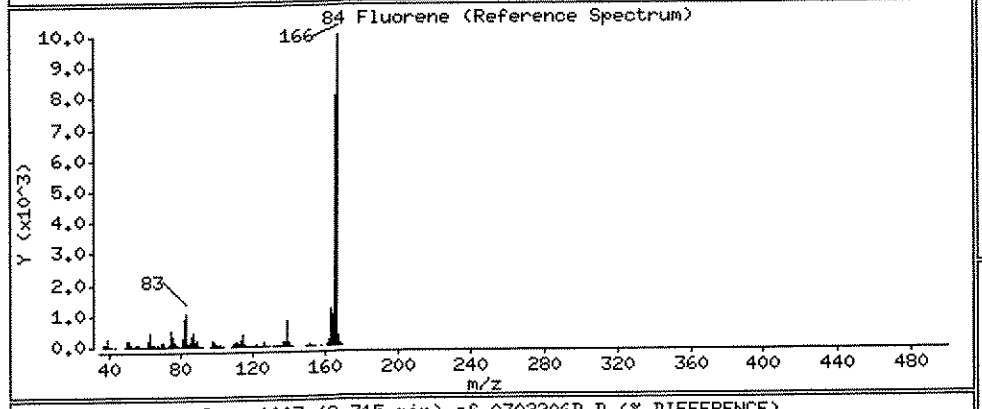
Concentration: 10350 UG/KG

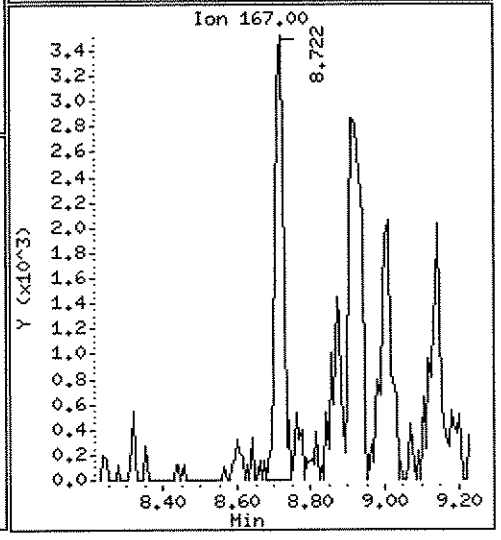


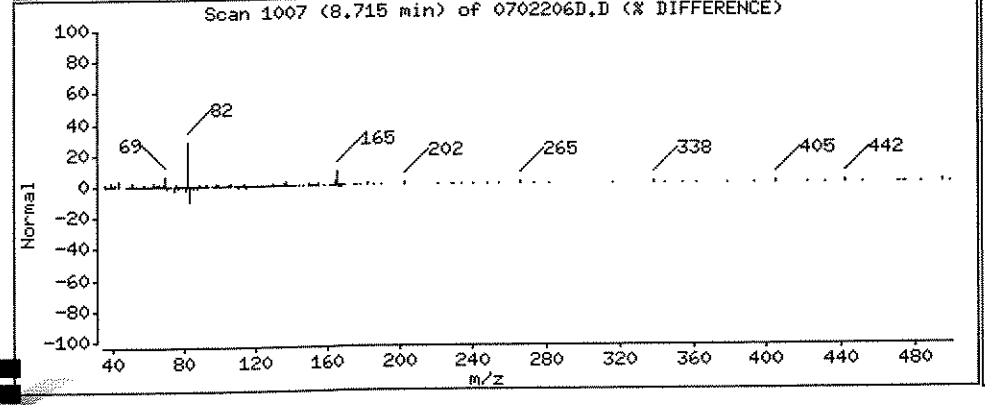












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Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

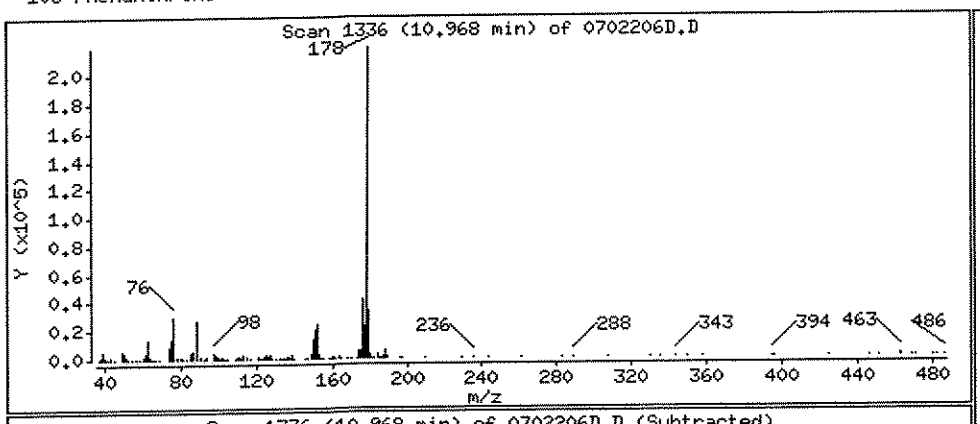
Operator: SDB

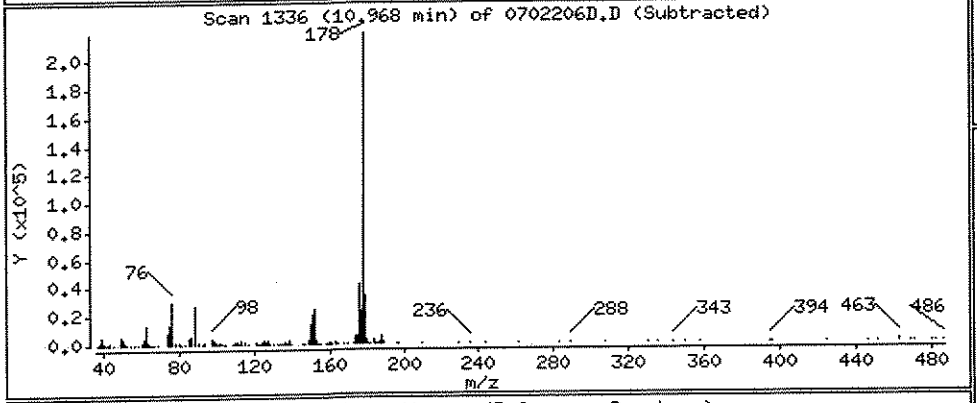
Column phase: fused silica

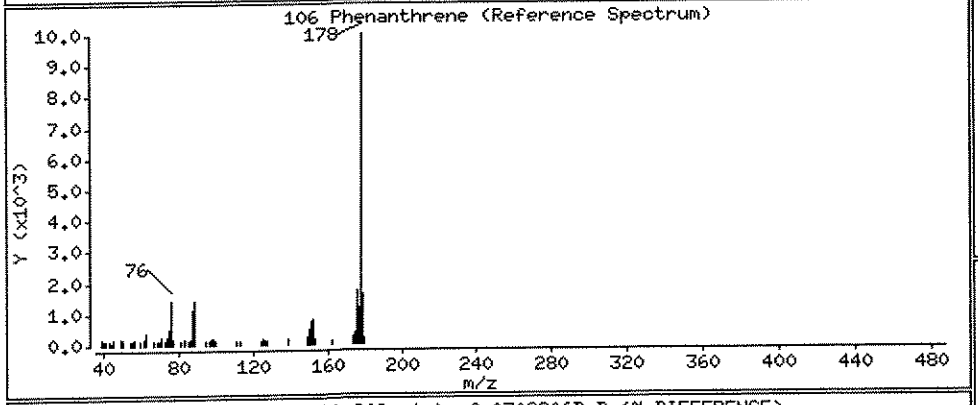
Column diameter: 0.25

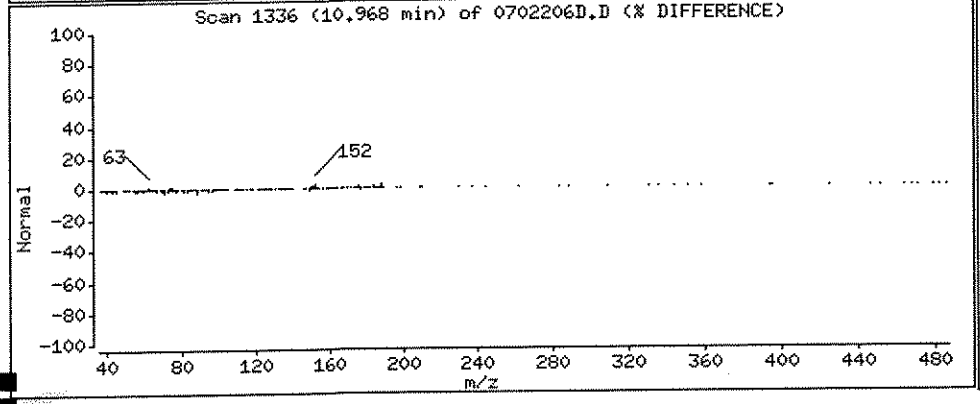
106 Phenanthrene

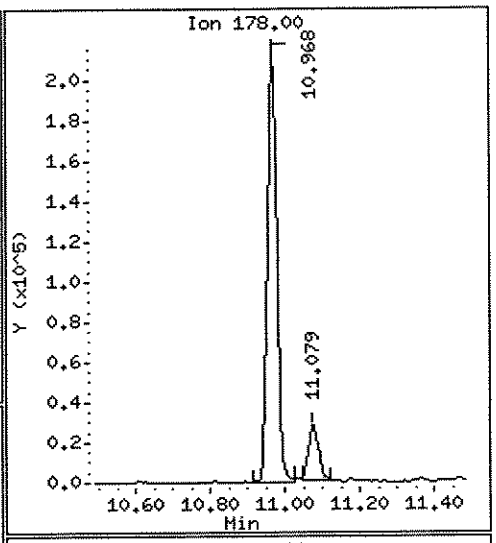
Concentration: 74060 UG/KG

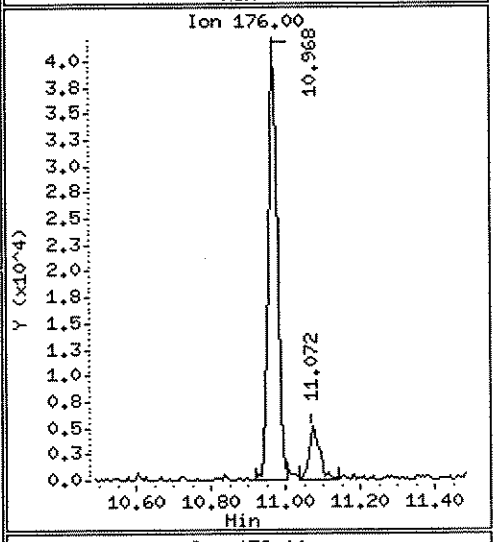


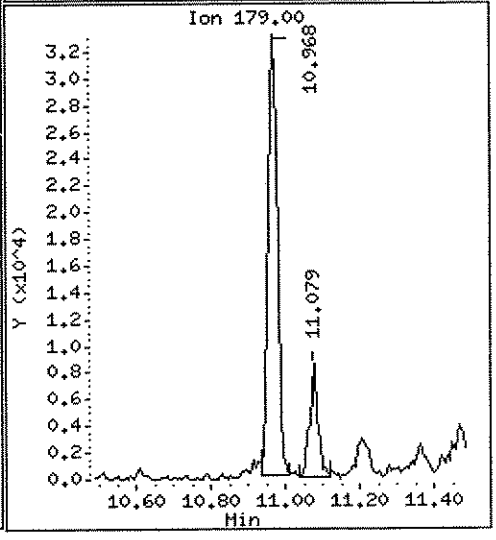












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

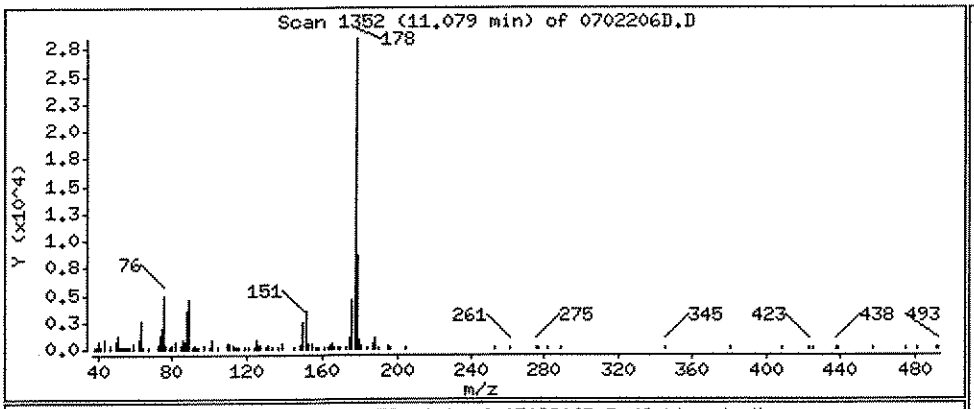
Client ID: 51CFM04S060706 Instrument: bna1.i

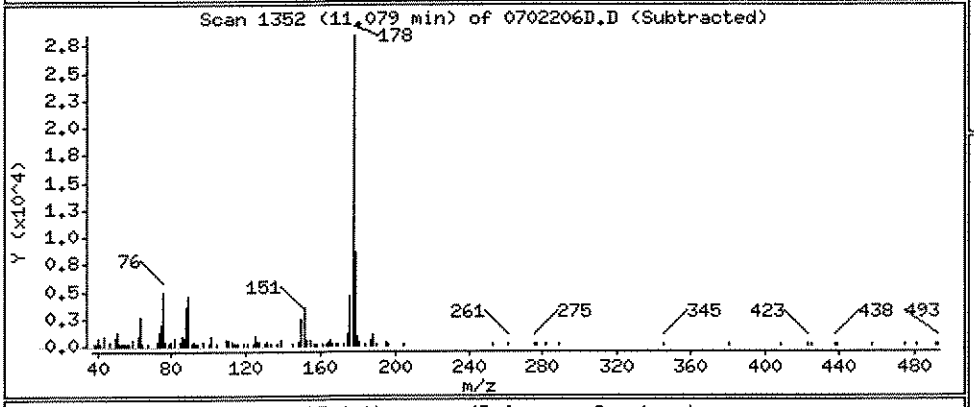
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

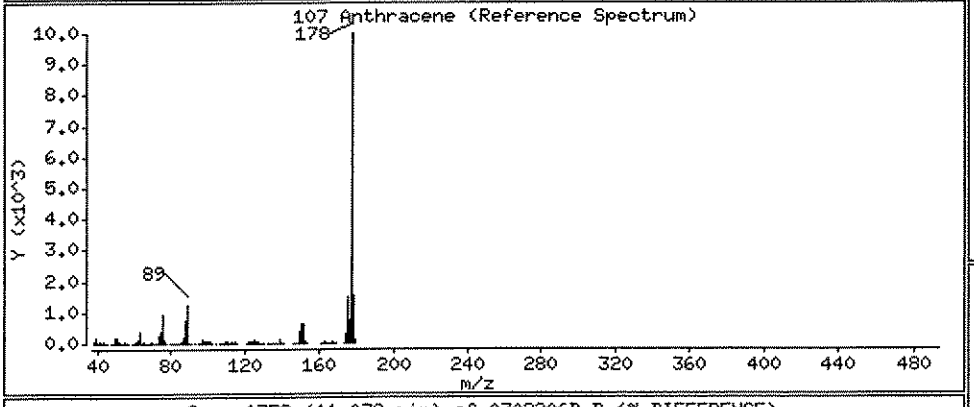
Volume Injected (uL): 0.5 Operator: SDB

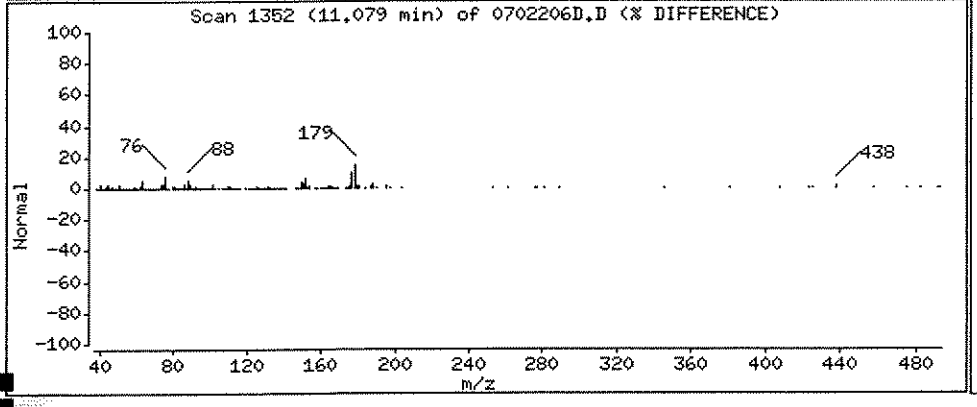
Column phase: fused silica Column diameter: 0.25

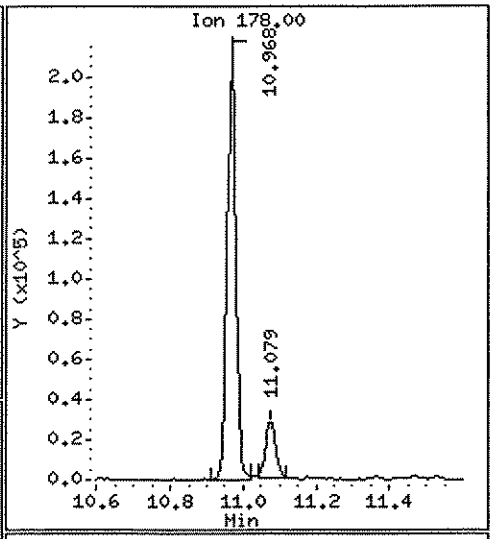
107 Anthracene Concentration: 11160 UG/KG

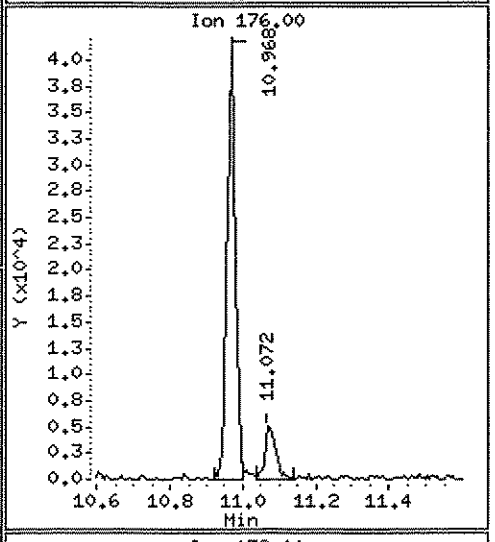


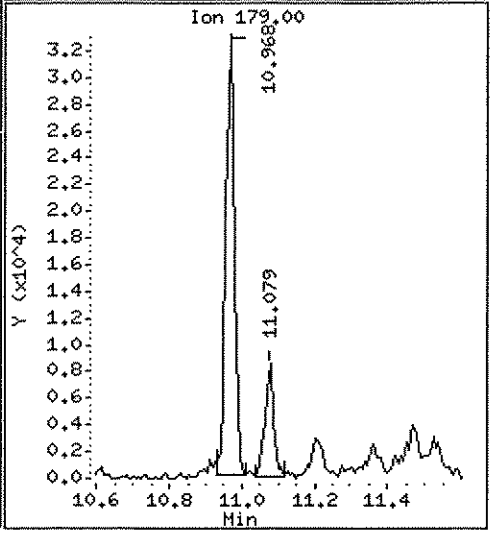












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000173

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

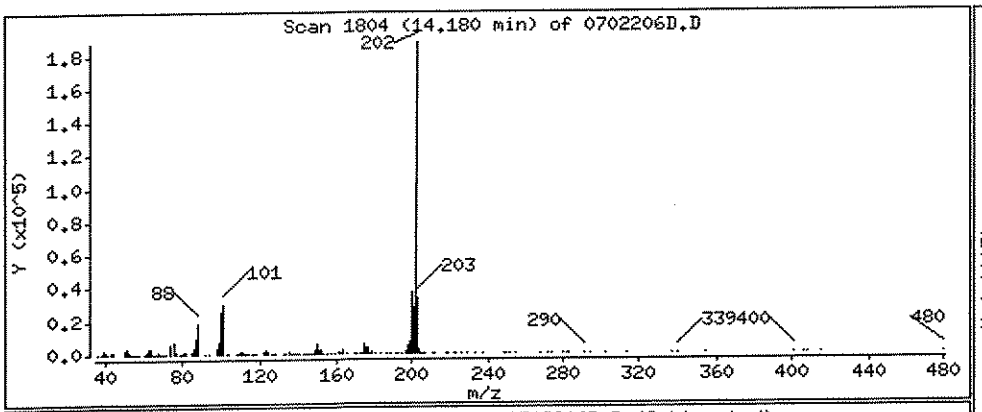
Operator: SDB

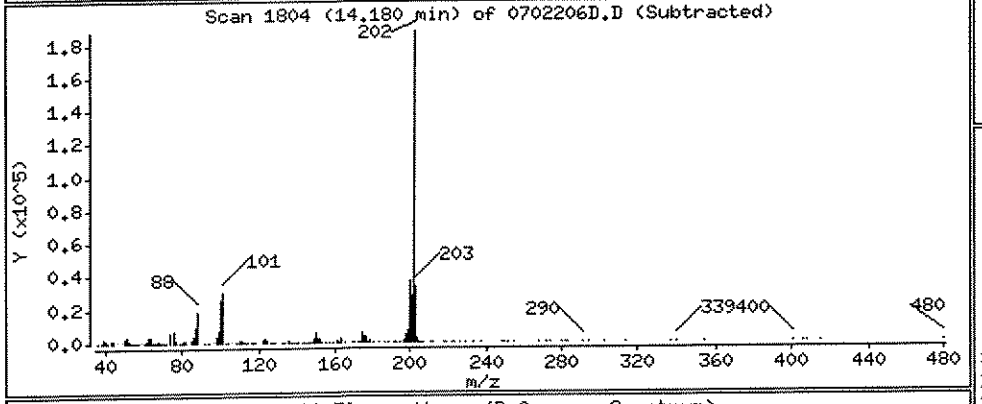
Column phase: fused silica

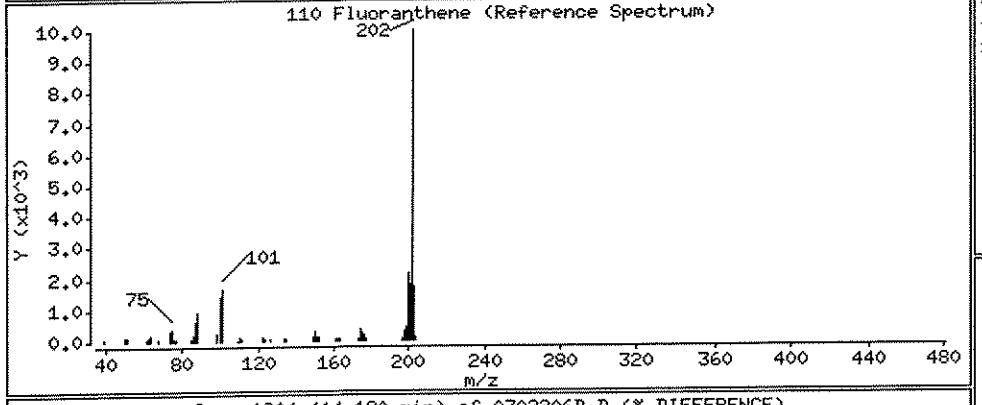
Column diameter: 0.25

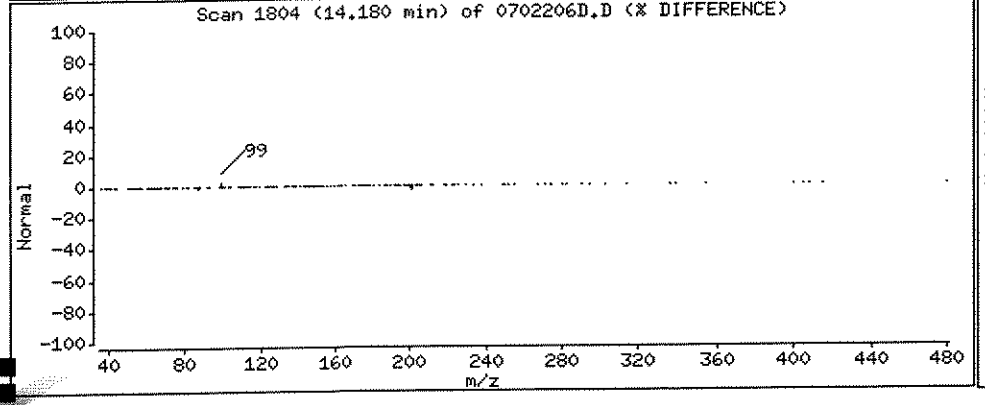
110 Fluoranthene

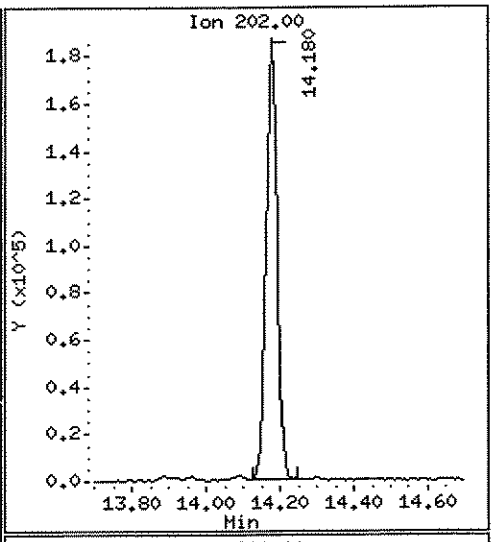
Concentration: 76080 UG/KG

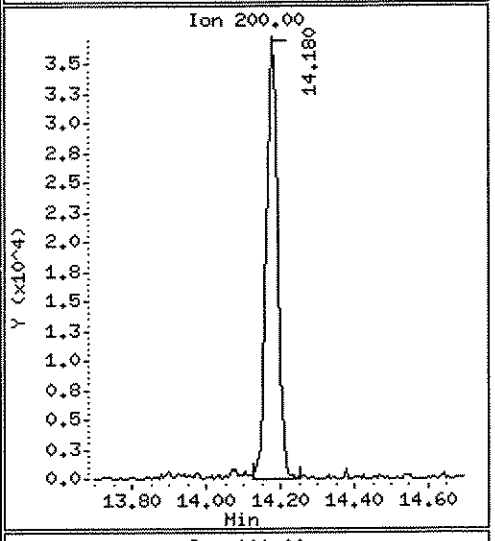


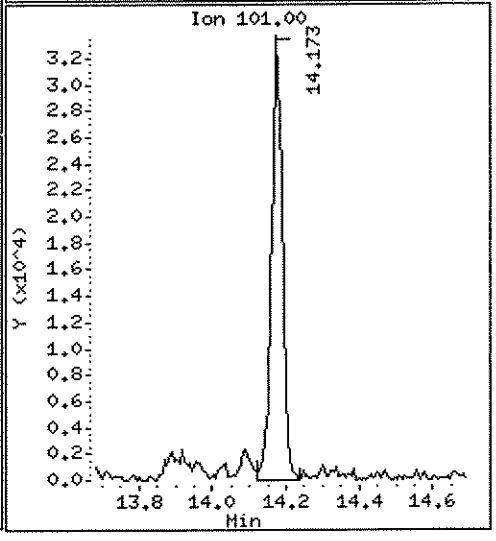












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

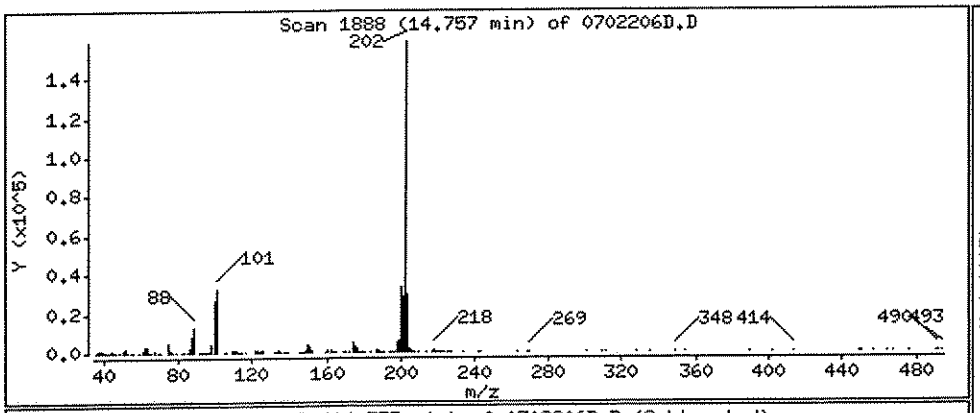
Operator: SDB

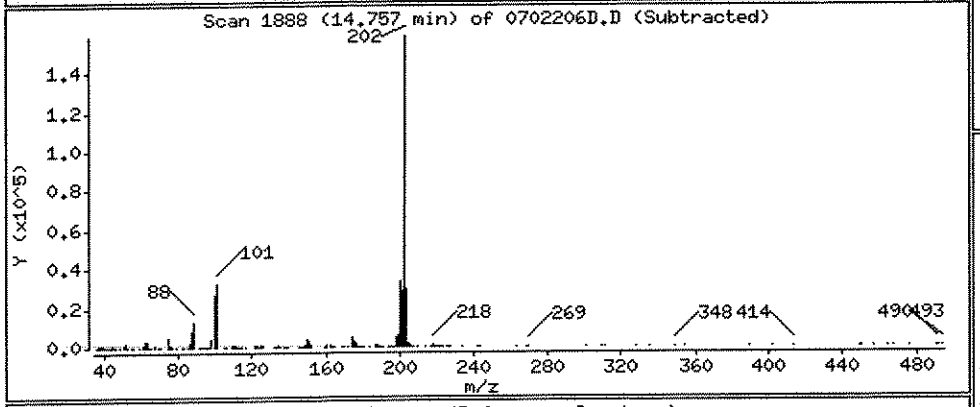
Column phase: fused silica

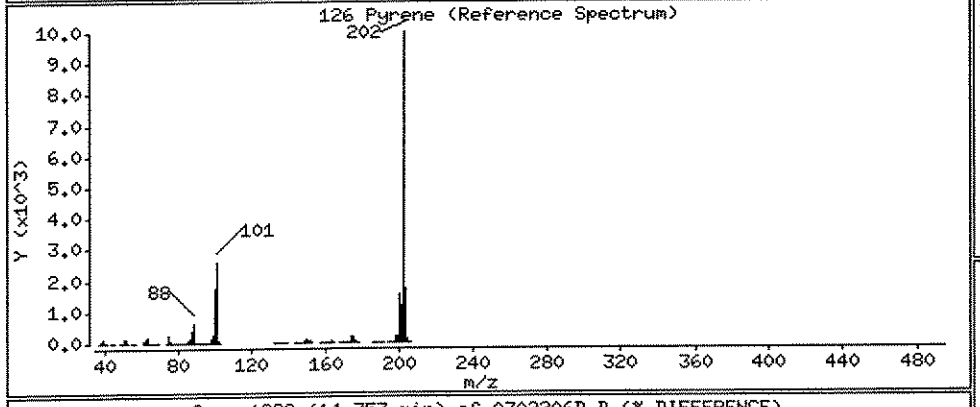
Column diameter: 0.25

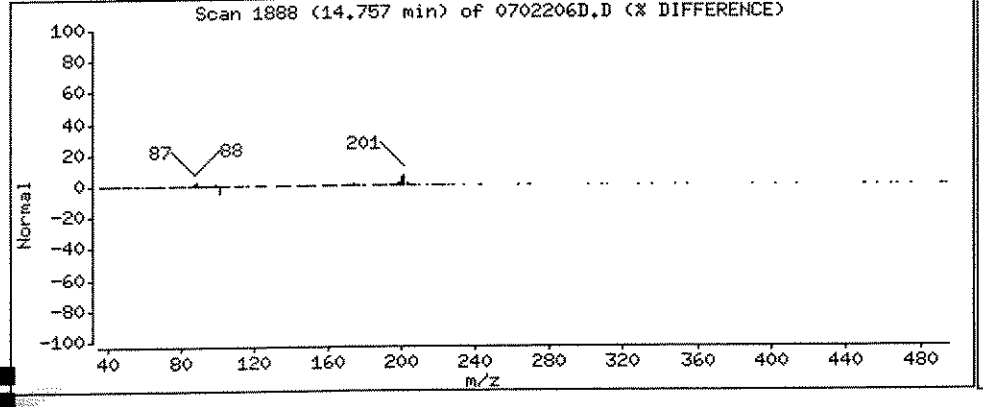
126 Pyrene

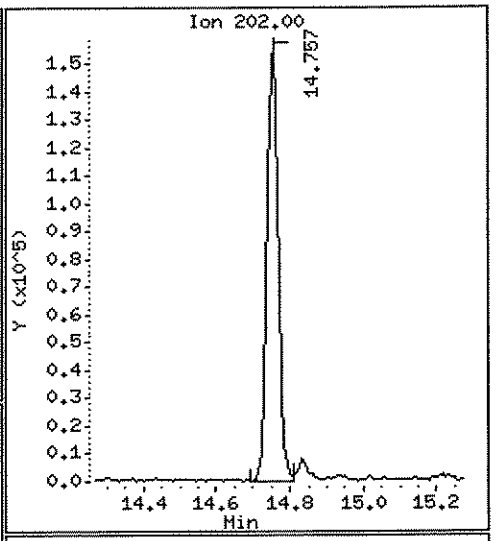
Concentration: 61160 UG/KG

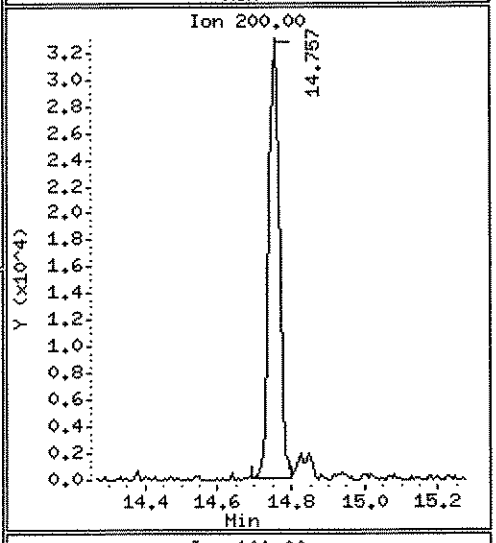


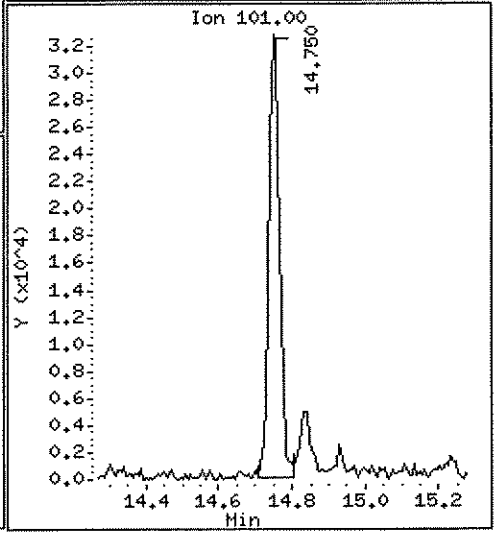












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

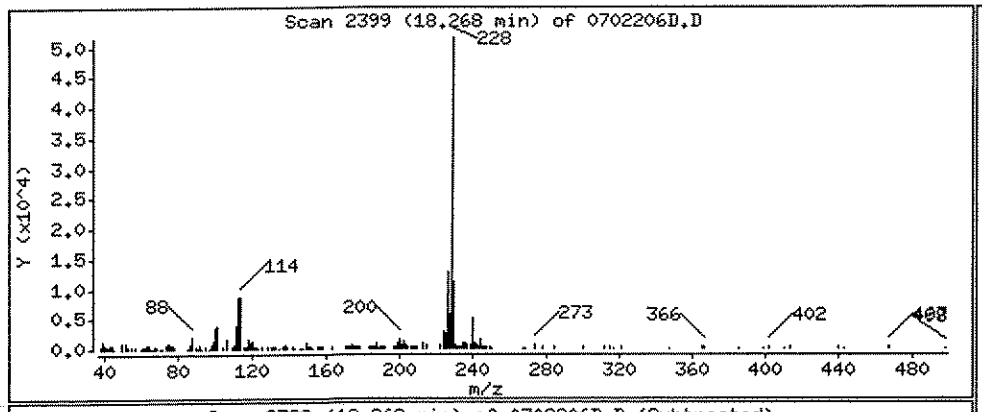
Client ID: 51CFM04S060706 Instrument: bna1.i

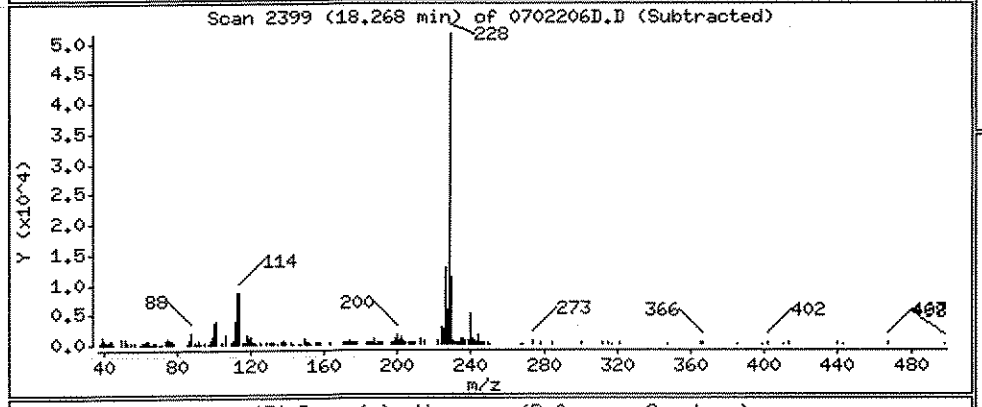
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

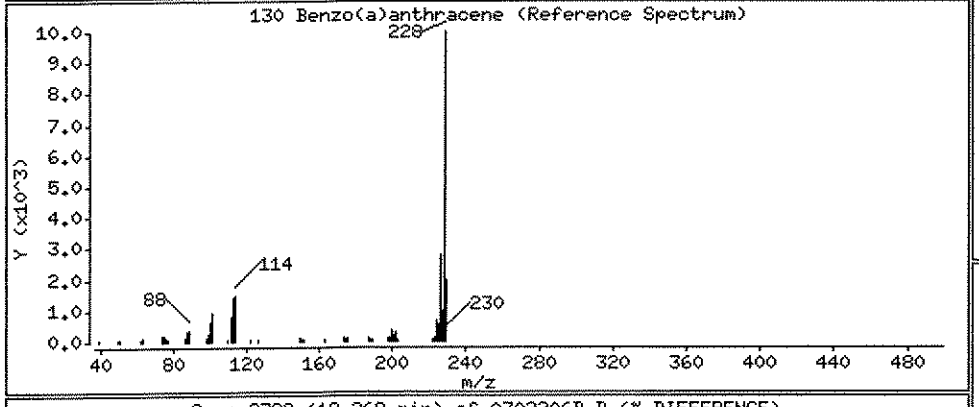
Volume Injected (uL): 0.5 Operator: SDB

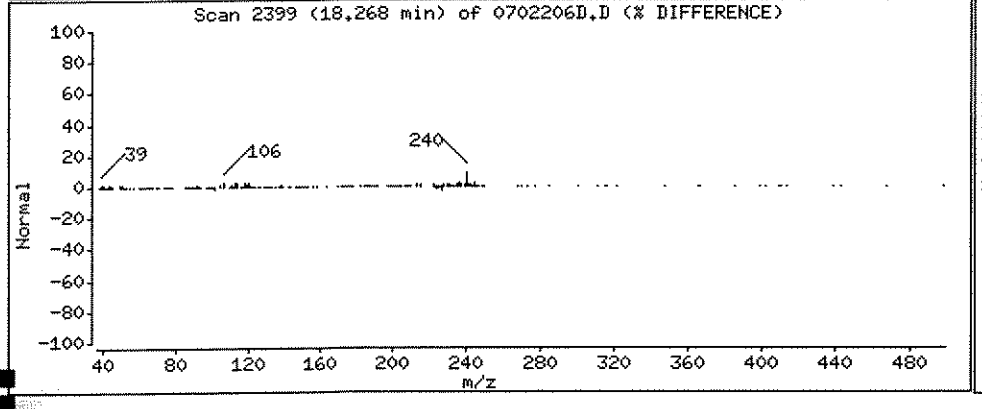
Column phase: fused silica Column diameter: 0.25

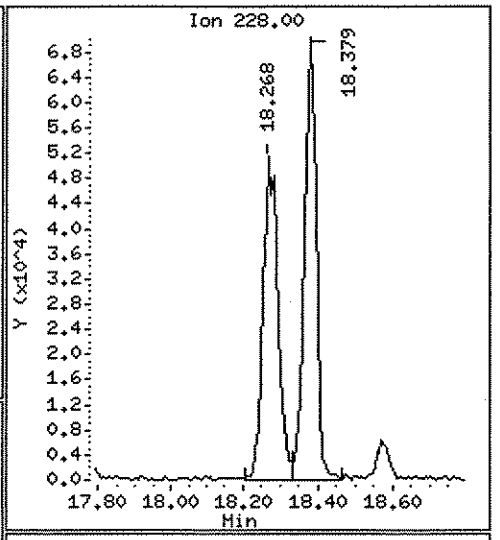
130 Benzo(a)anthracene Concentration: 33840 UG/KG

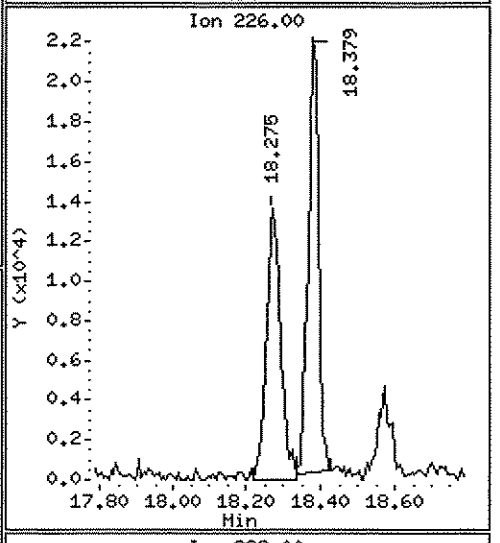


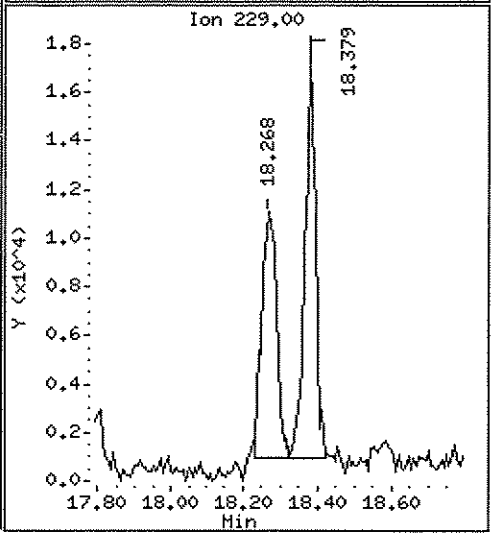












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

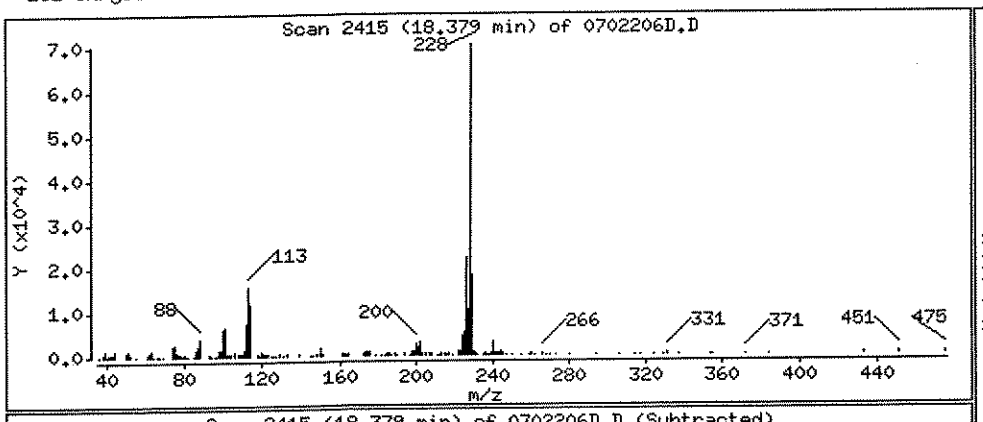
Operator: SDB

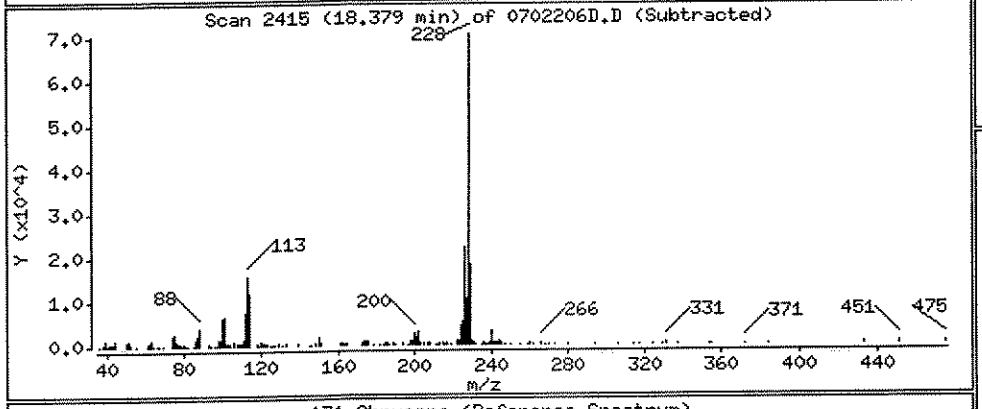
Column phase: fused silica

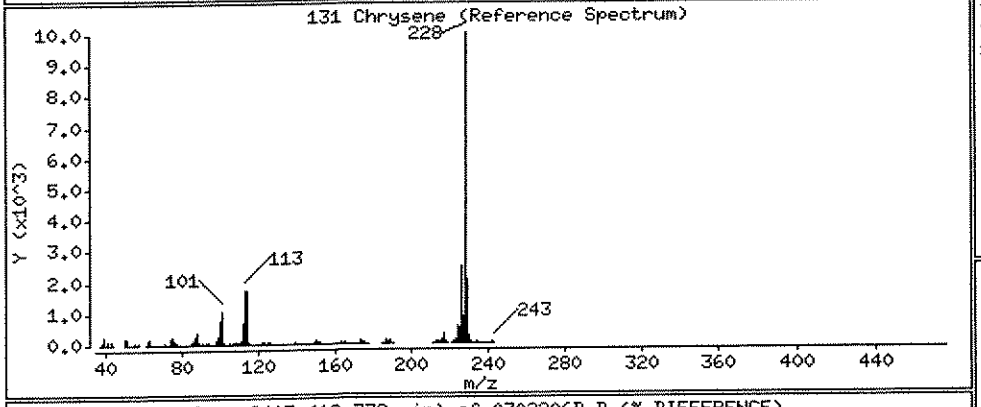
Column diameter: 0.25

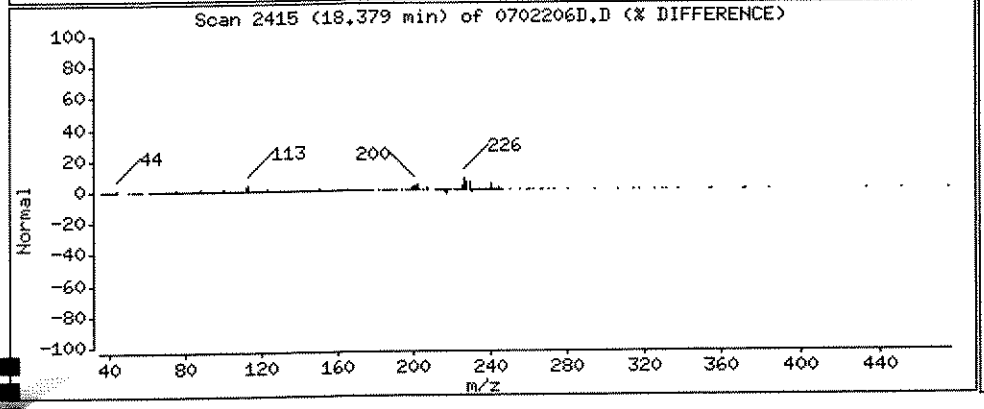
131 Chrysene

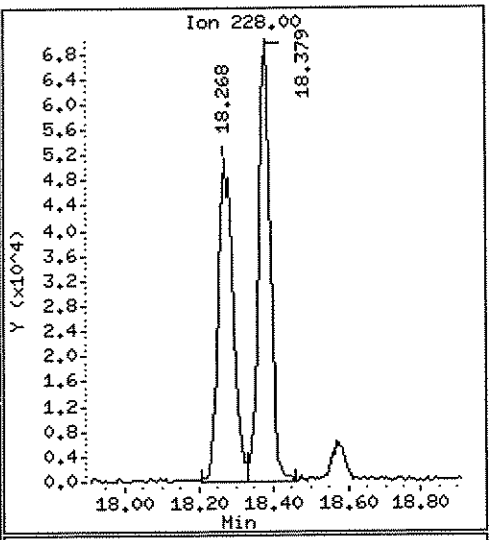
Concentration: 39730 UG/KG

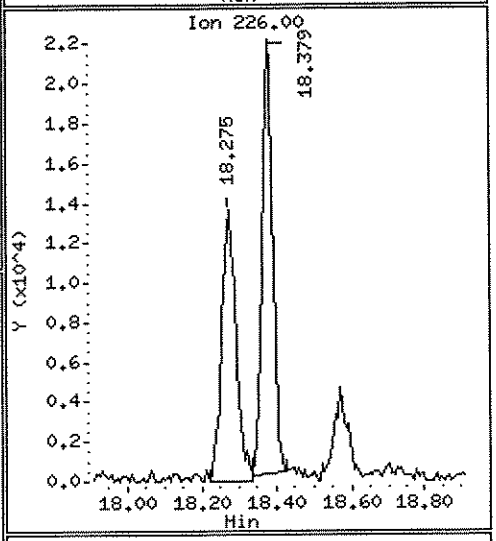


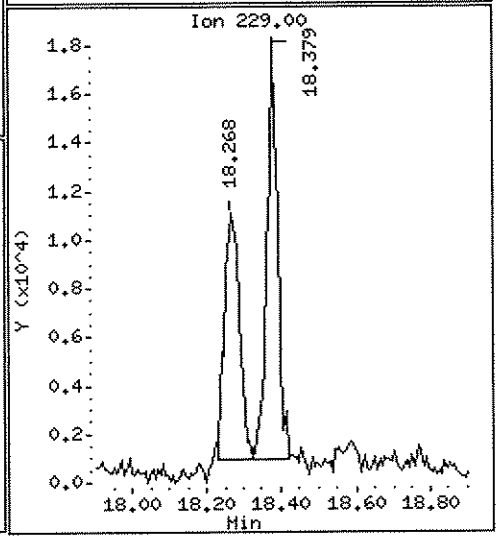












Empirical Laboratories

000177

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

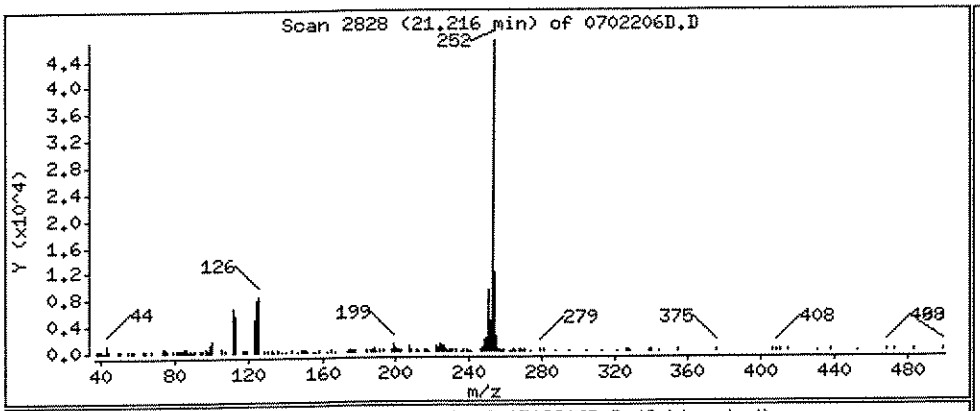
Operator: SDB

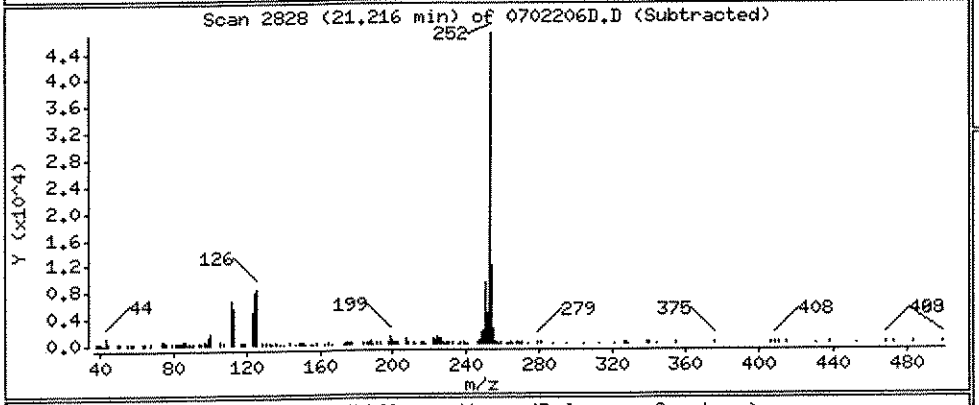
Column phase: fused silica

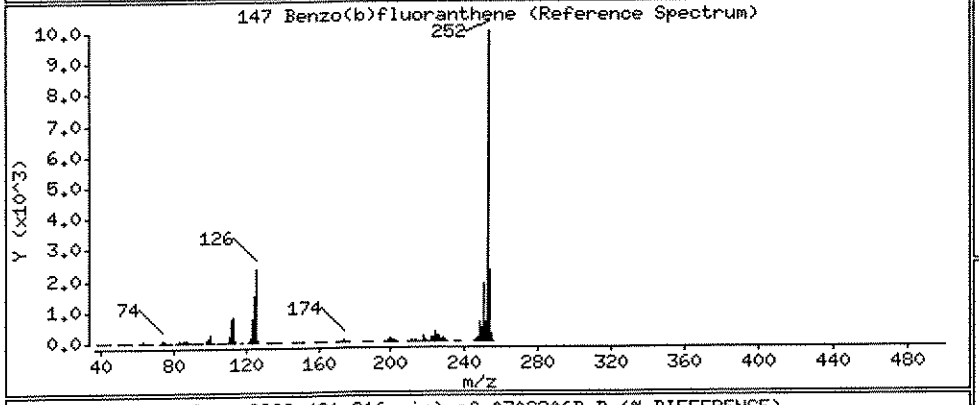
Column diameter: 0.25

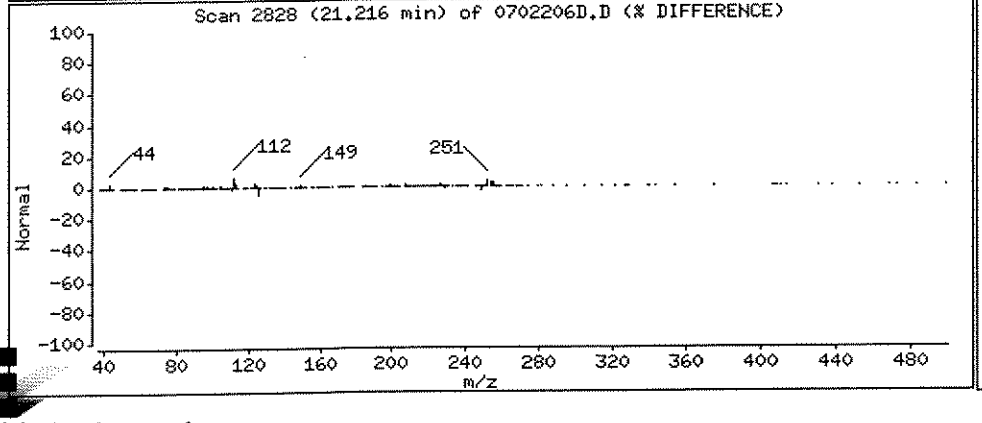
147 Benzo(b)fluoranthene

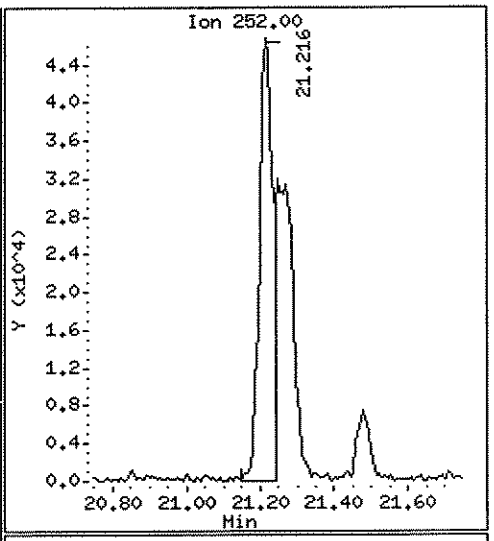
Concentration: 28410 UG/KG

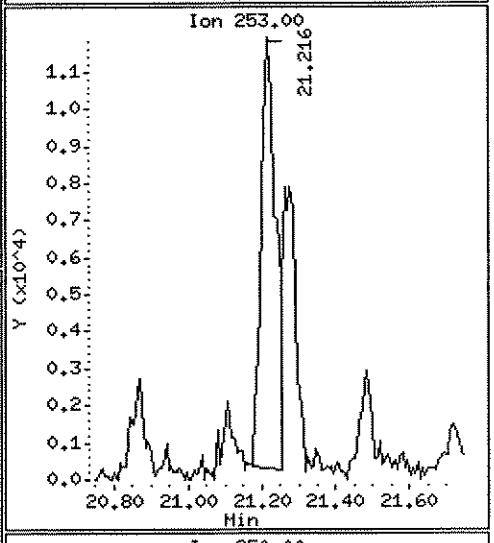


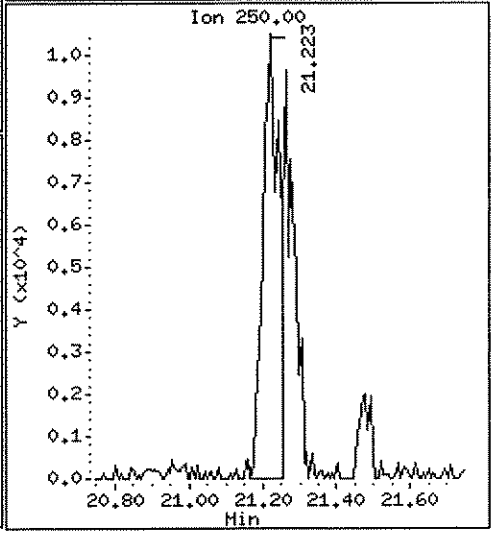












Empirical Laboratories

000178

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

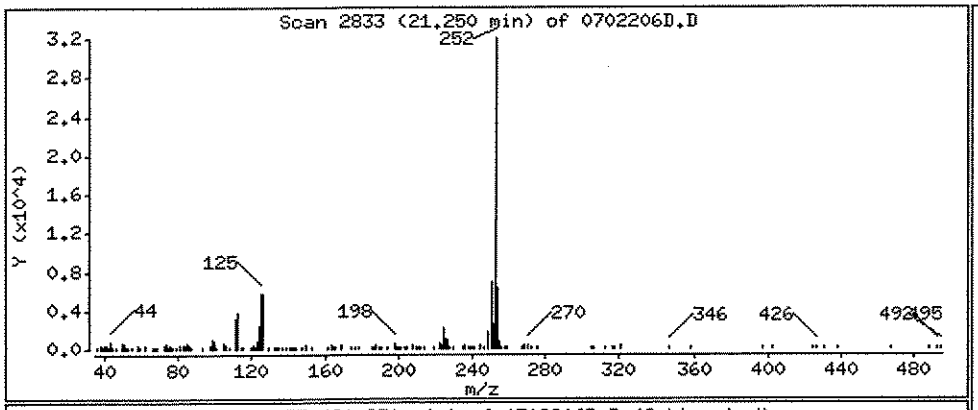
Client ID: 51CFM04S060706 Instrument: bna1.i

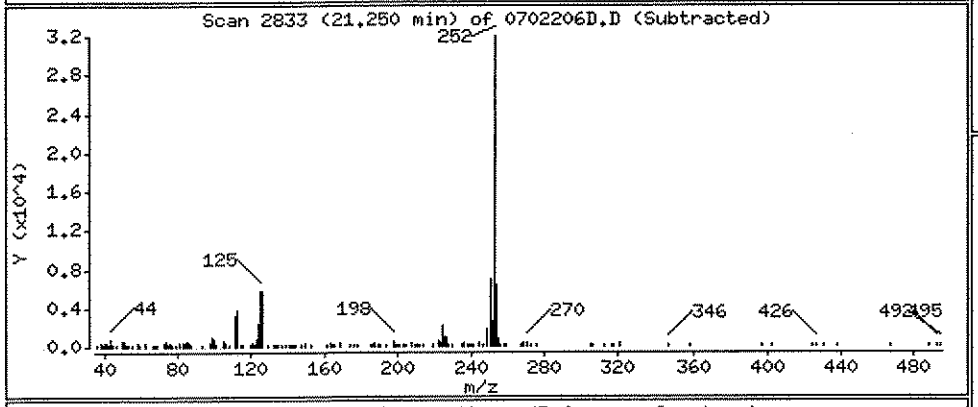
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

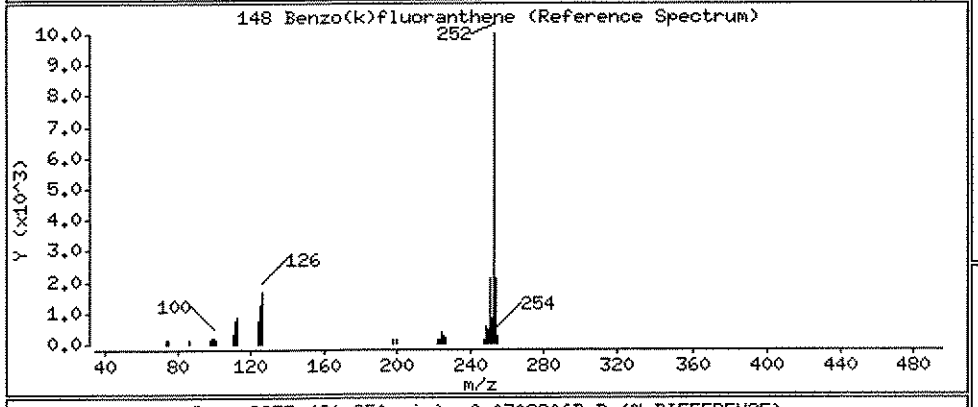
Volume Injected (uL): 0.5 Operator: SDB

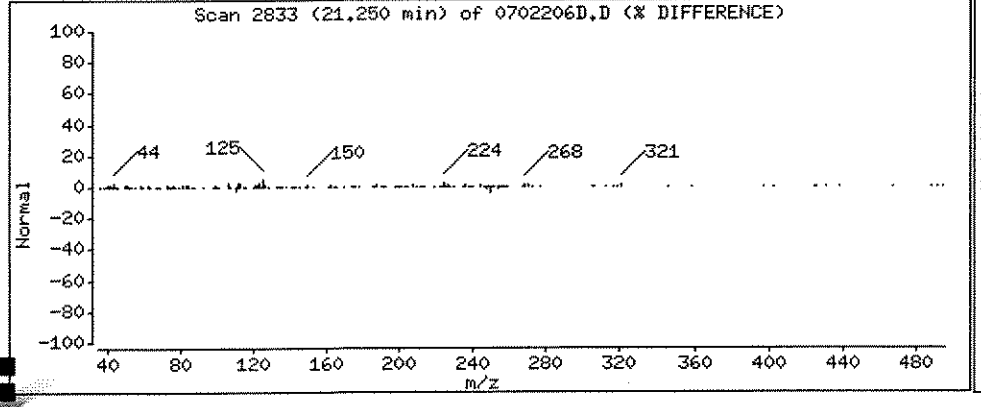
Column phase: fused silica Column diameter: 0.25

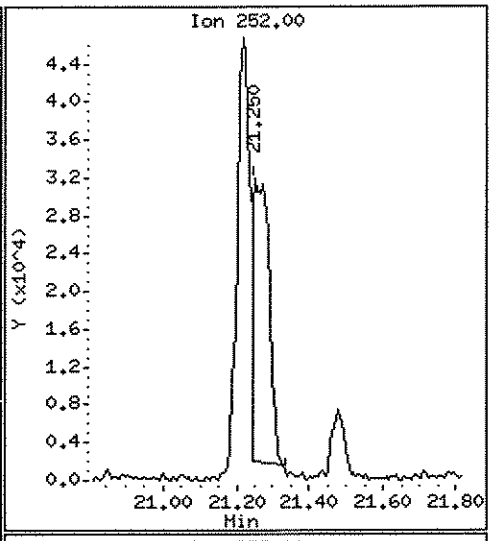
148 Benzo(k)fluoranthene Concentration: 21490 UG/KG

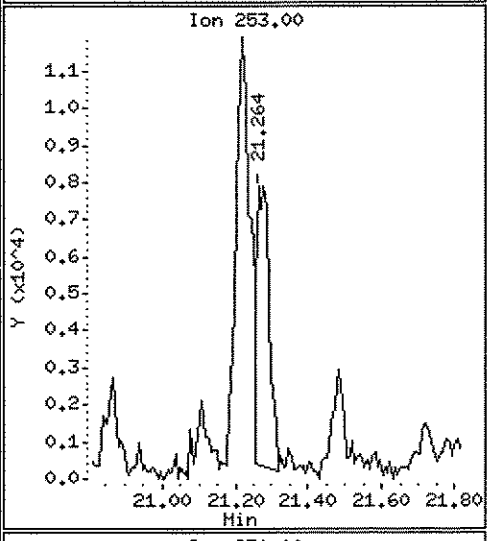


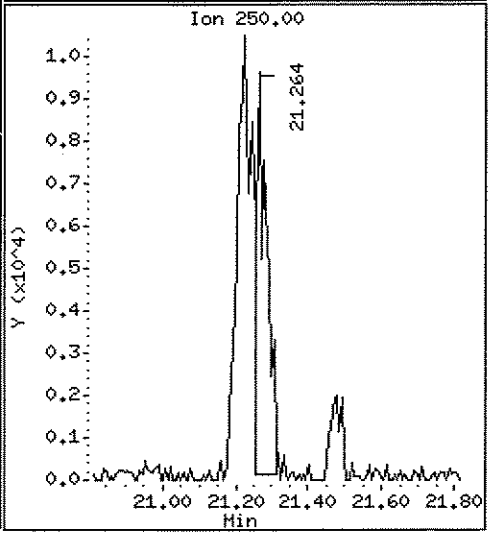












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

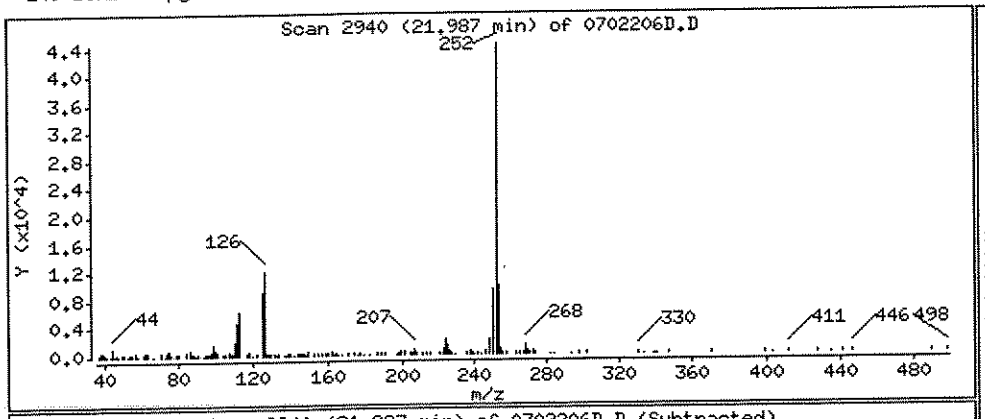
Operator: SDB

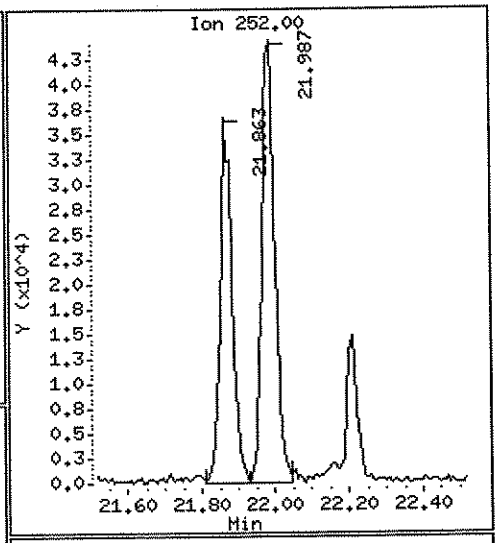
Column phase: fused silica

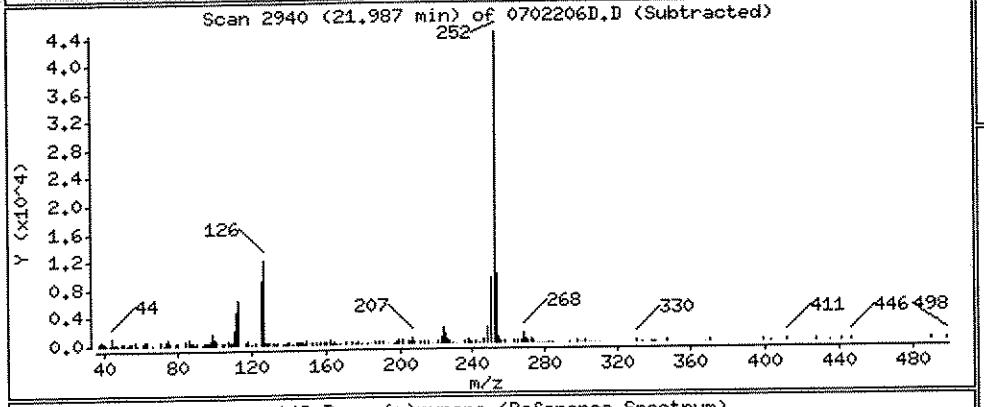
Column diameter: 0.25

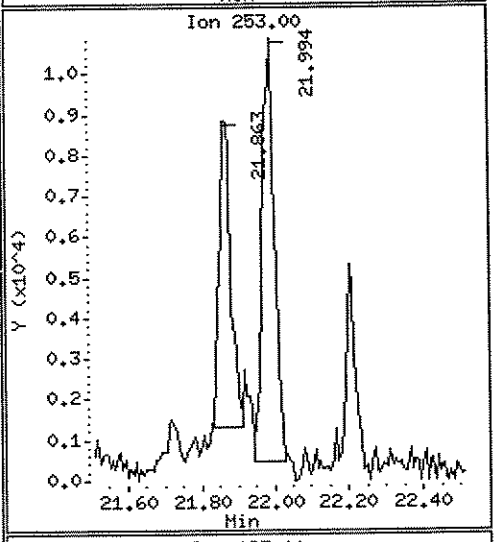
149 Benzo(a)pyrene

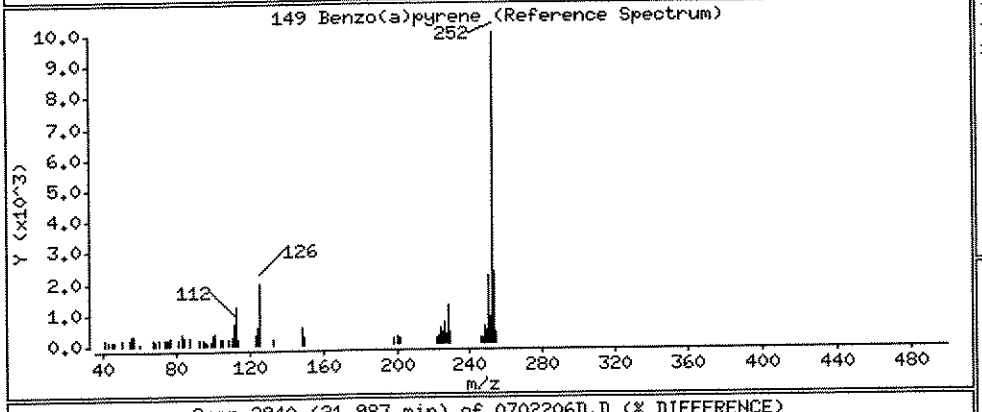
Concentration: 30280 UG/KG

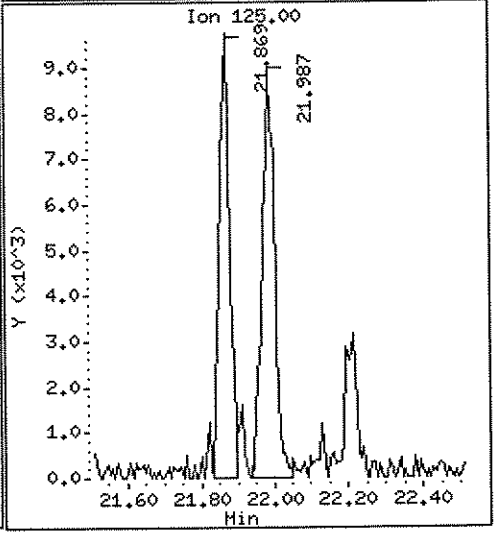


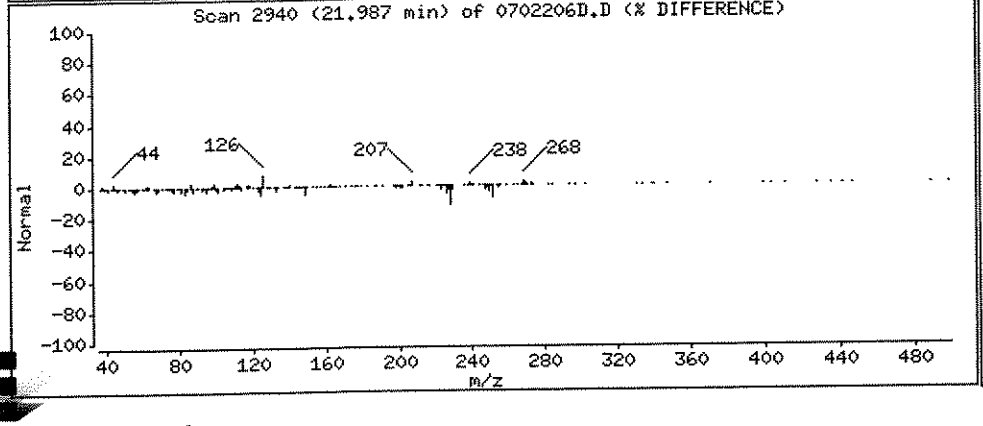












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Date : 11-JUL-2006 13:17

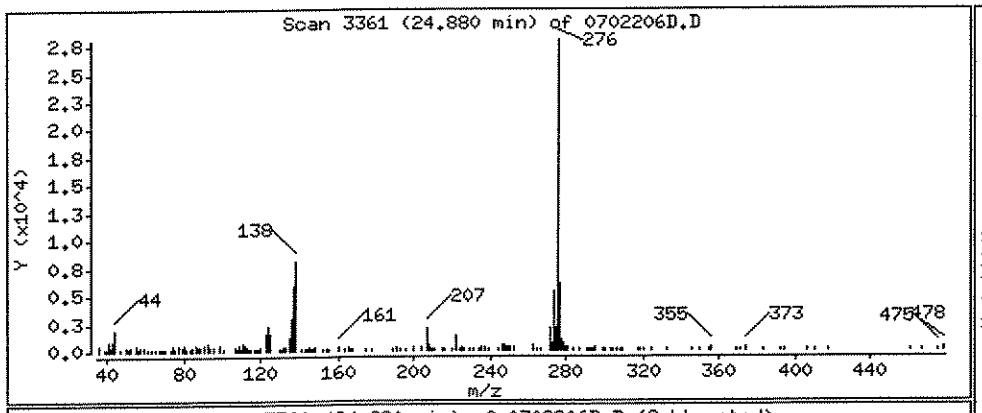
Client ID: 51CFM04S060706 Instrument: bna1.i

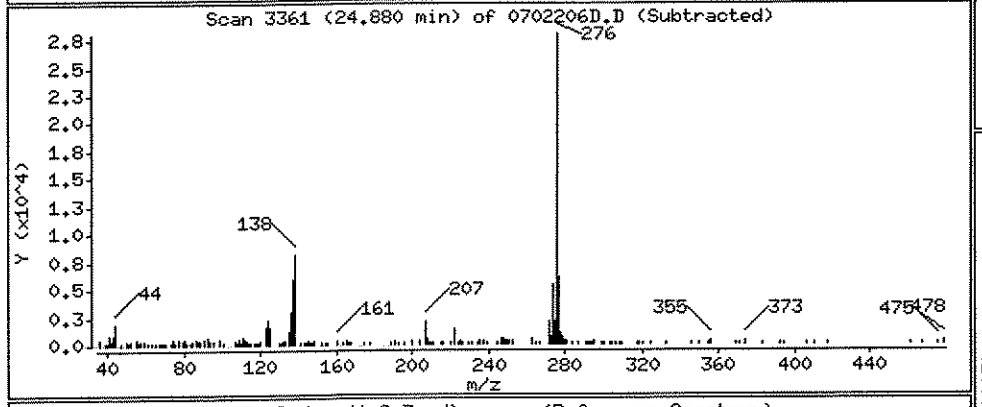
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

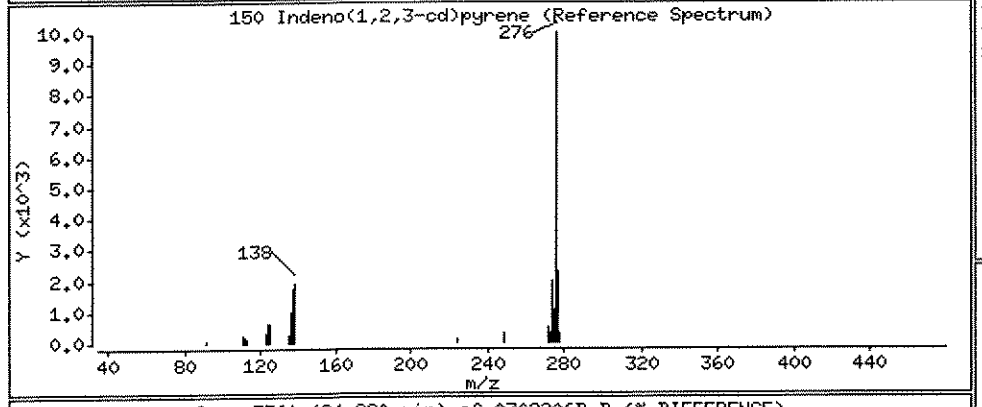
Volume Injected (uL): 0.5 Operator: SDB

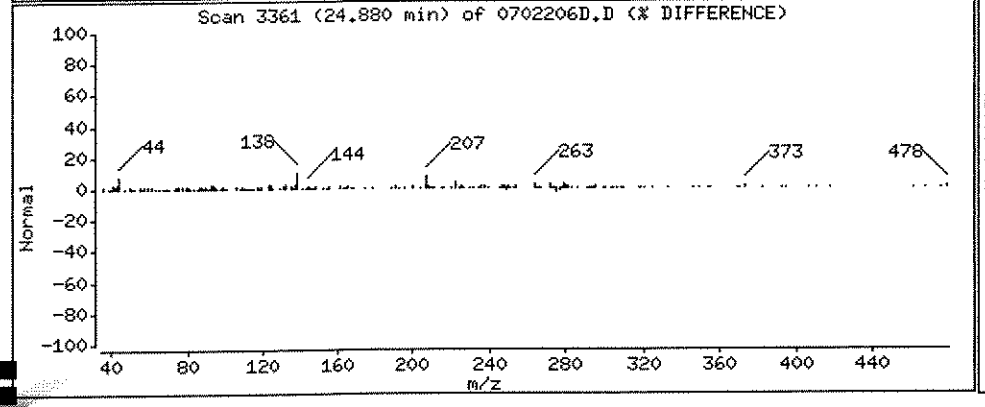
Column phase: fused silica Column diameter: 0.25

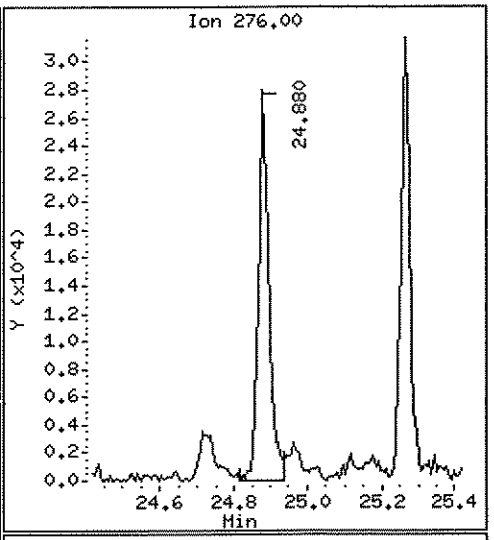
150 Indeno(1,2,3-cd)pyrene Concentration: 17650 UG/KG

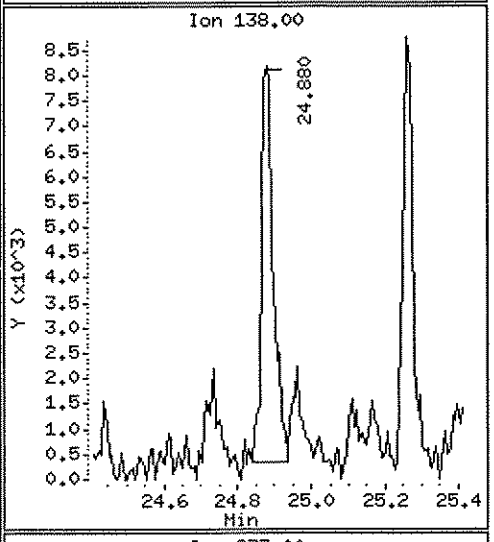


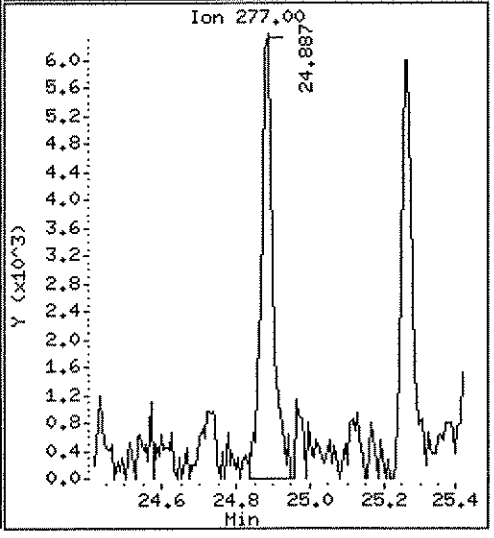












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Date : 11-JUL-2006 13:17

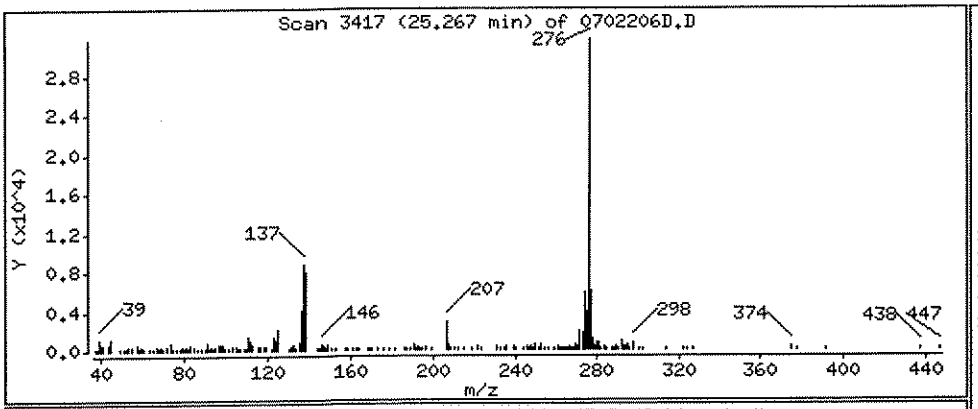
Client ID: 51CFM04S060706 Instrument: bna1.i

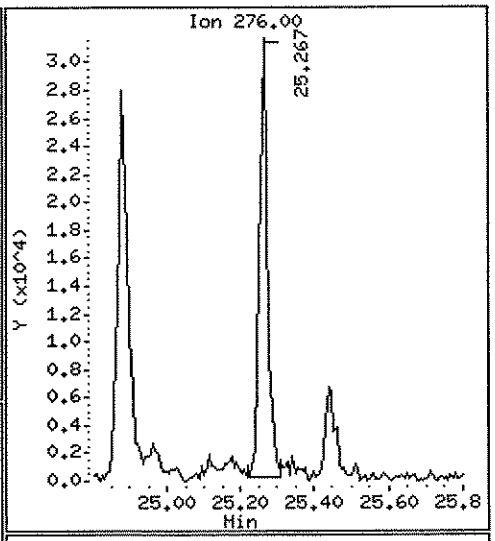
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

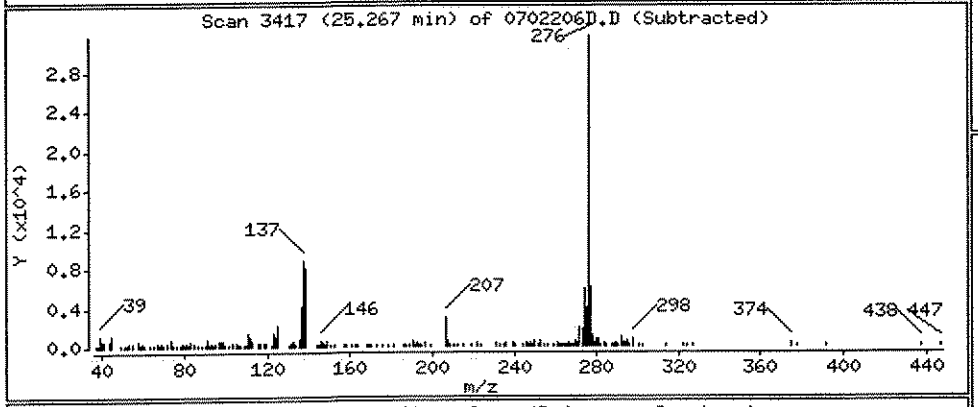
Volume Injected (uL): 0.5 Operator: SDB

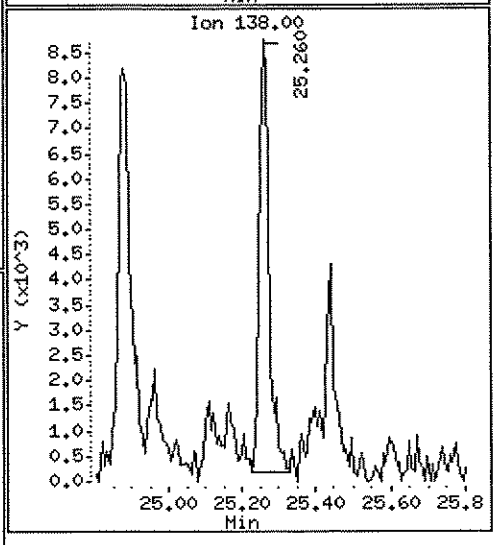
Column phase: fused silica Column diameter: 0.25

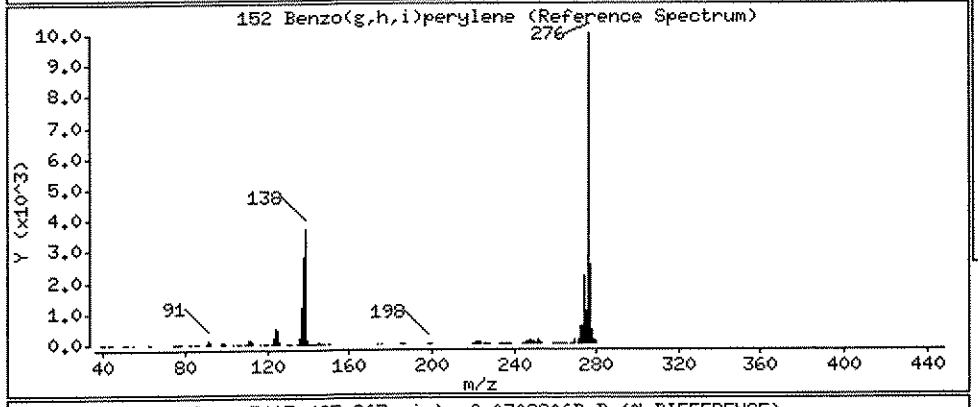
152 Benzo(g,h,i)perylene Concentration: 15860 UG/KG

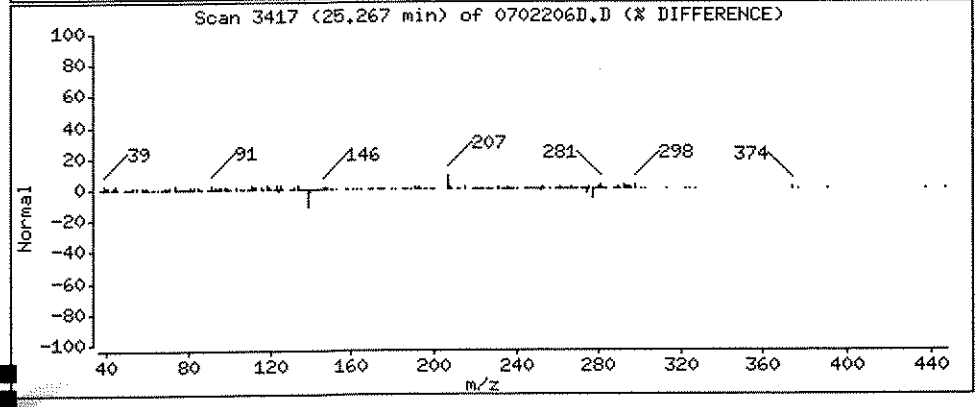












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	4700	E
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	4800	E
56-55-3	Benzo(a)anthracene	20	170	22000	E
205-99-2	Benzo(b)fluoranthene	20	170	31000	E
207-08-9	Benzo(k)fluoranthene	20	170	11000	E
191-24-2	Benzo(g,h,i)perylene	20	170	6200	E
50-32-8	Benzo(a)pyrene	20	100	20000	E
218-01-9	Chrysene	20	170	25000	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	24000	E
86-73-7	Fluorene	20	170	3800	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	7100	E
91-57-6	2-Methylnaphthalene	20	170	960	
90-12-0	1-Methylnaphthalene	51	170	590	
91-20-3	Naphthalene	20	170	400	
85-01-8	Phenanthrene	20	170	24000	E
129-00-0	Pyrene	20	170	63000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 10-JUL-2006 17:28
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

7/11/06

7/11/06

RK10X

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)	
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	569244	40.0000		
* 31 Naphthalene-d8	136	5.280	5.287	(1.000)	2035797	40.0000		
$ 32 Nitrobenzene-d5	82	4.708	4.709	(0.892)	984944	44.3203	1504	
47 Naphthalene	128	5.301	5.307	(1.004)	590758	11.6713	396.0	
51 2-Methylnaphthalene	141	6.056	6.062	(1.147)	819570	28.1789	956.0	
52 1-Methylnaphthalene	141	6.194	6.203	(1.173)	485594	17.4898	593.4	
* 65 Acenaphthene-d10	164	7.720	7.719	(1.000)	892557	40.0000		
$ 70 2-Fluorobiphenyl	172	6.617	6.617	(0.857)	1459474	51.3828	1743	
76 Acenaphthene	153	7.803	7.781	(1.011)	3586070	139.213	4723 (A)	ou
84 Fluorene	166	8.844	8.814	(1.146)	3064946	111.245	3774 (A)	ou
* 97 Phenanthrene-d10	188	11.084	11.020	(1.000)	945614	40.0000	(M)	
106 Phenanthrene	178	11.223	11.082	(1.013)	19136160	709.759	24080 (A)	ou
107 Anthracene	178	11.293	11.192	(1.019)	3751134	140.924	4781 (AH)	ou

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Report Date: 11-Jul-2006 13:57

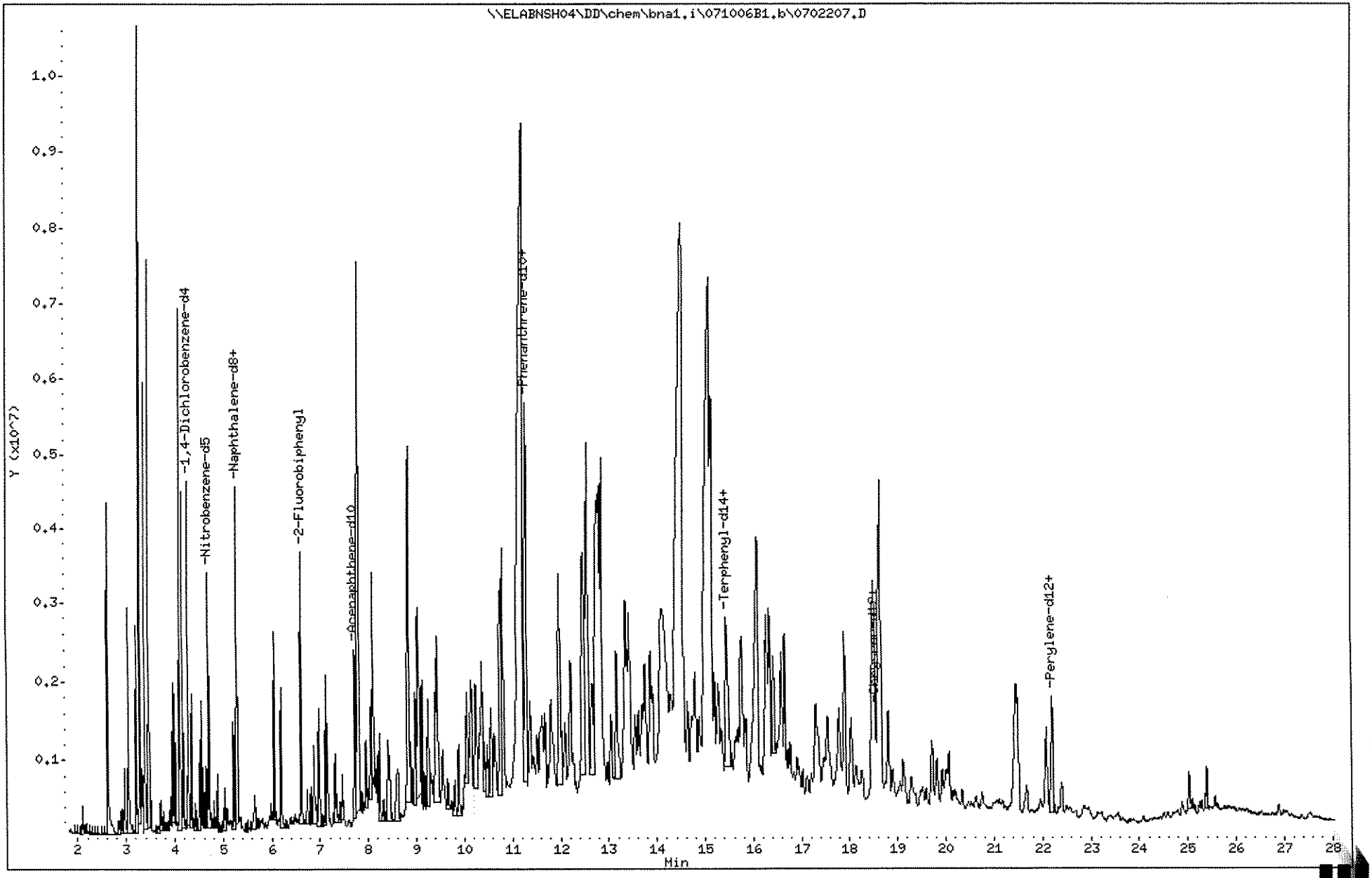
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.526	14.296	(1.310)	19082423	714.886	24250(A) DW
* 124 Chrysene-d12	240	18.551	18.441	(1.000)	215513	40.0000	
126 Pyrene	202	15.085	14.878	(0.813)	16025002	1861.89	63170(A) DW
$ 127 Terphenyl-d14	244	15.743	15.647	(0.849)	628220	115.439	3916(AR) DW
130 Benzo(a)anthracene	228	18.523	18.400	(0.998)	4491725	646.864	21950(A) DW
131 Chrysene	228	18.657	18.510	(1.006)	4763776	751.126	25480(AH) DW
* 145 Perylene-d12	264	22.341	22.273	(1.000)	92065	40.0000	
147 Benzo(b)fluoranthene	252	21.459	21.352	(0.961)	2620849	924.135	31350(AM) DW
148 Benzo(k)fluoranthene	252	21.501	21.421	(0.962)	969082	329.355	11170(AM) DW
149 Benzo(a)pyrene	252	22.213	22.121	(0.994)	1448790	592.432	20100(AH) DW
150 Indeno(1,2,3-cd)pyrene	276	25.036	24.990	(1.121)	438680	210.251	7133(A) DW
151 Dibenz(a,h)anthracene	278	25.100	25.065	(1.123)	154731	73.6646	2499
152 Benzo(g,h,i)perylene	276	25.398	25.361	(1.137)	393427	181.704	6165(A) DW

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Date : 10-JUL-2006 17:28
Client ID: 51CFM05S060706
Instrument: bna1.i
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000186



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Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

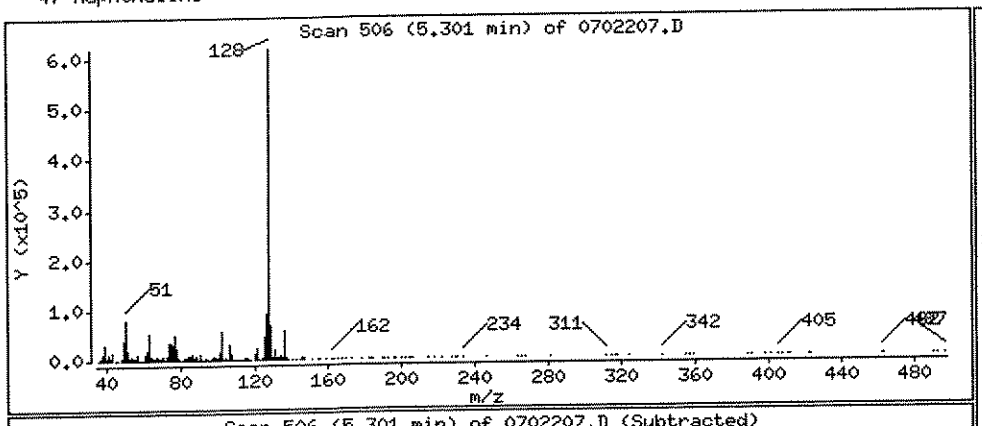
Operator: SDB

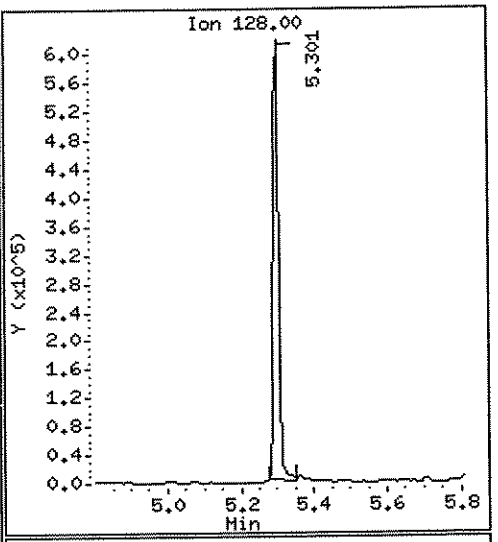
Column phase: fused silica

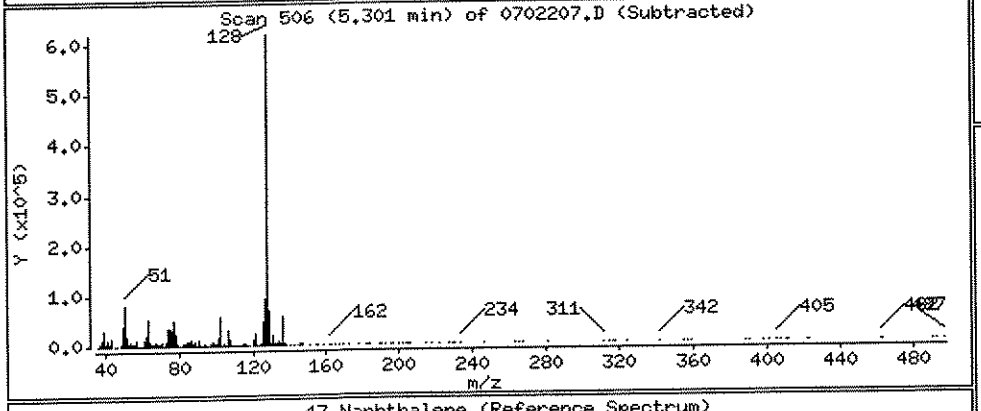
Column diameter: 0.25

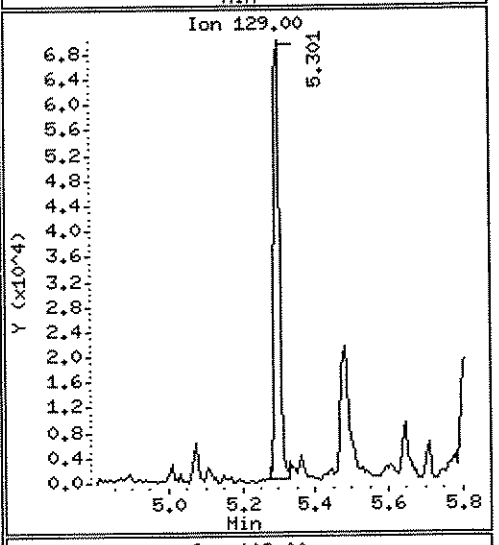
47 Naphthalene

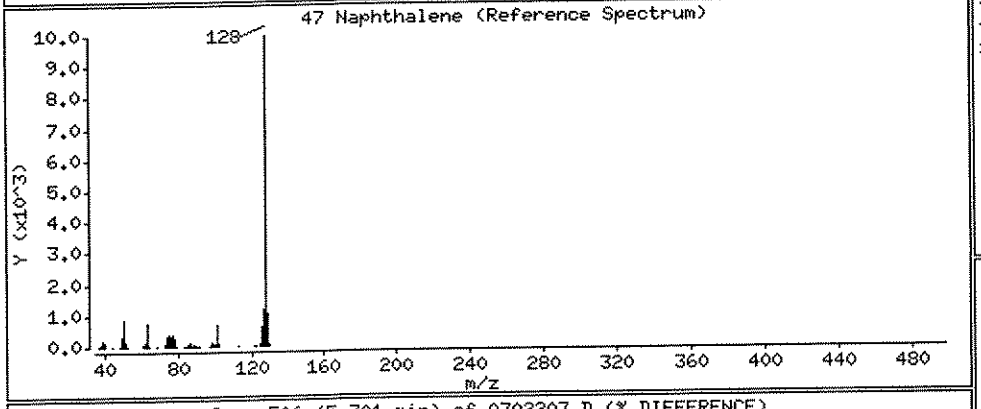
Concentration: 396.0 UG/KG

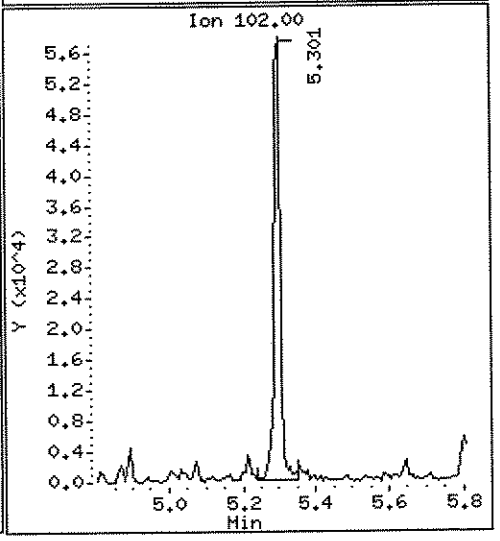


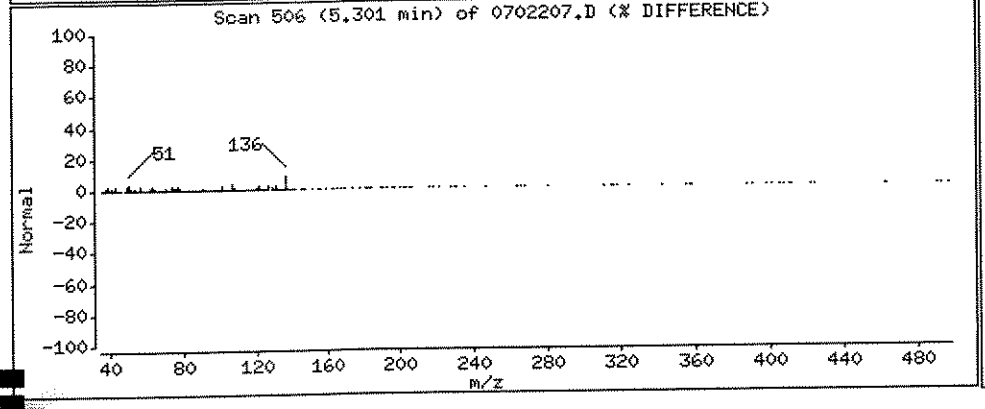












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000187

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

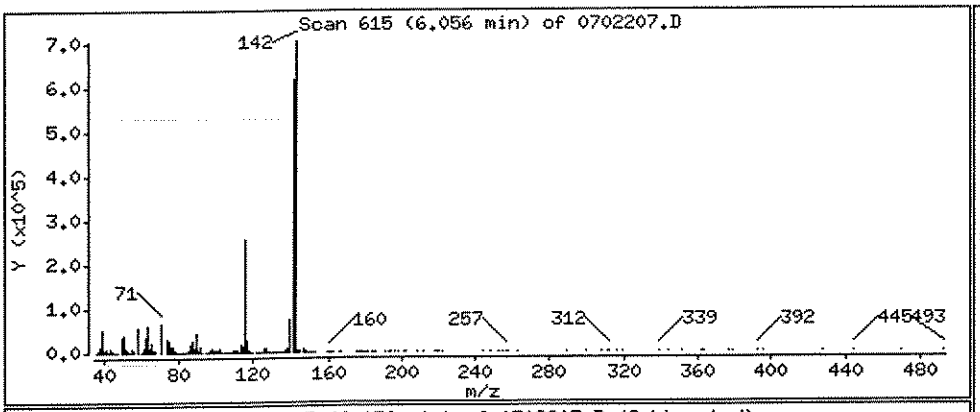
Client ID: 51CFM05S060706 Instrument: bna1.i

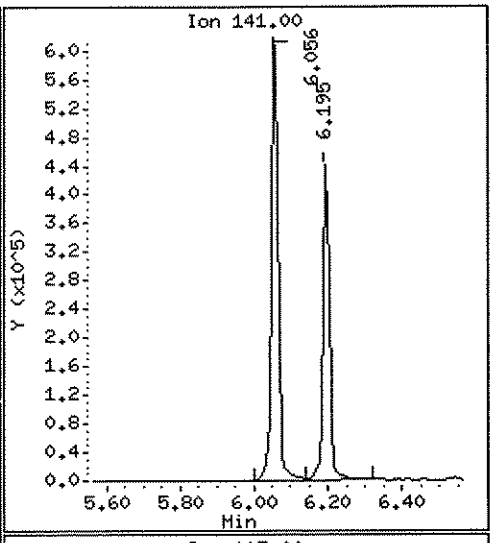
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

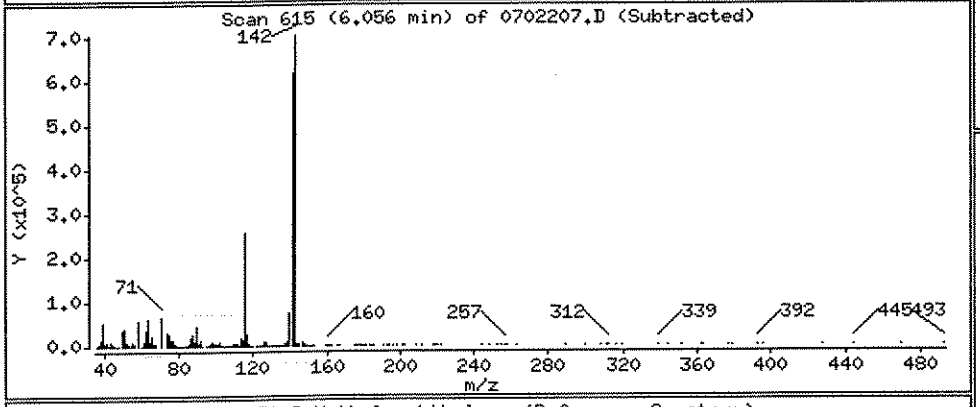
Volume Injected (uL): 0.5 Operator: SDB

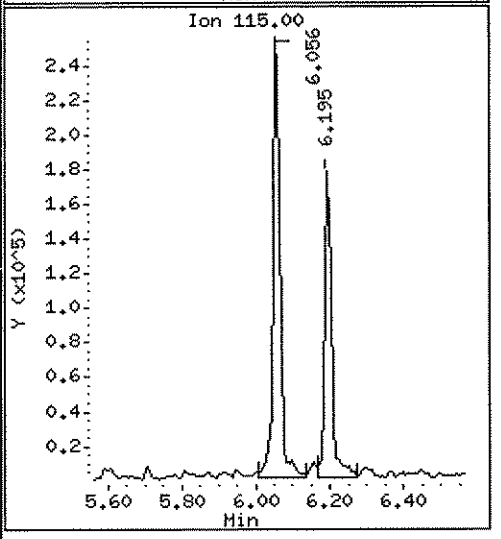
Column phase: fused silica Column diameter: 0.25

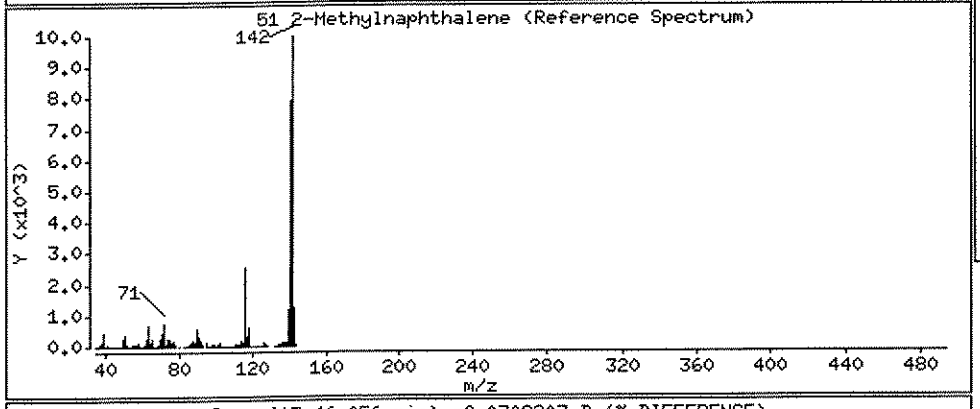
51 2-Methylnaphthalene Concentration: 956.0 UG/KG

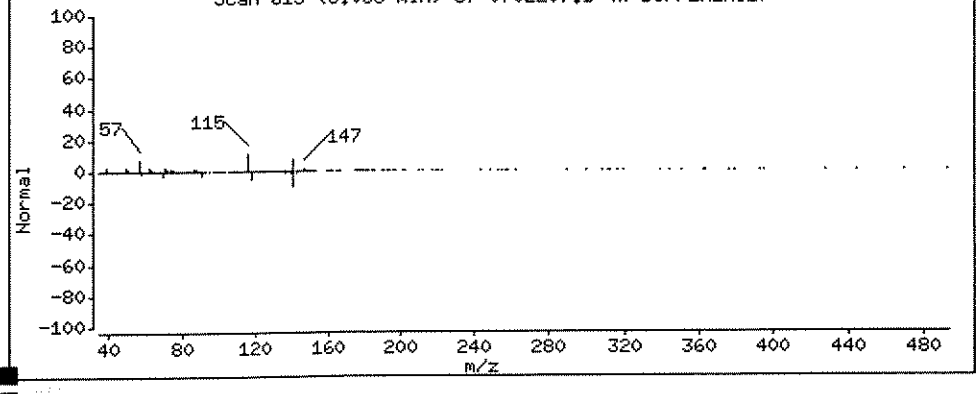












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

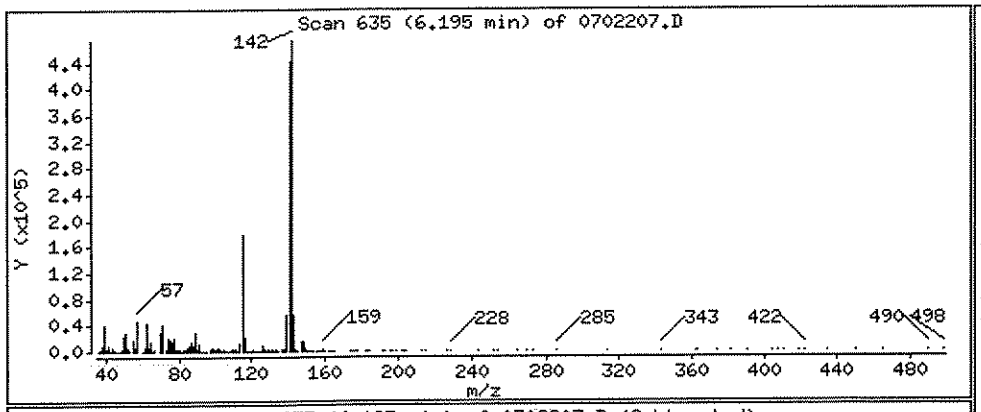
Client ID: 51CFM05S060706 Instrument: bna1.i

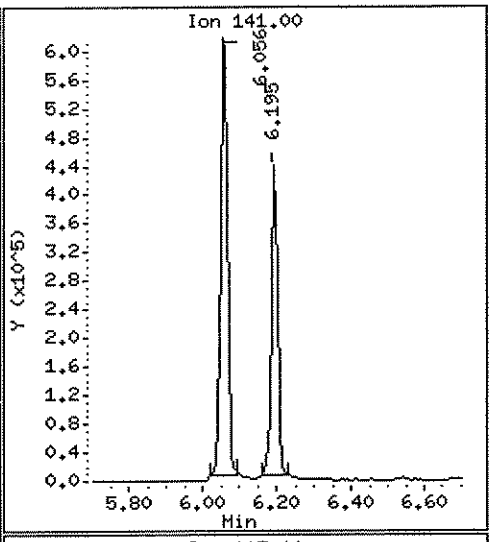
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

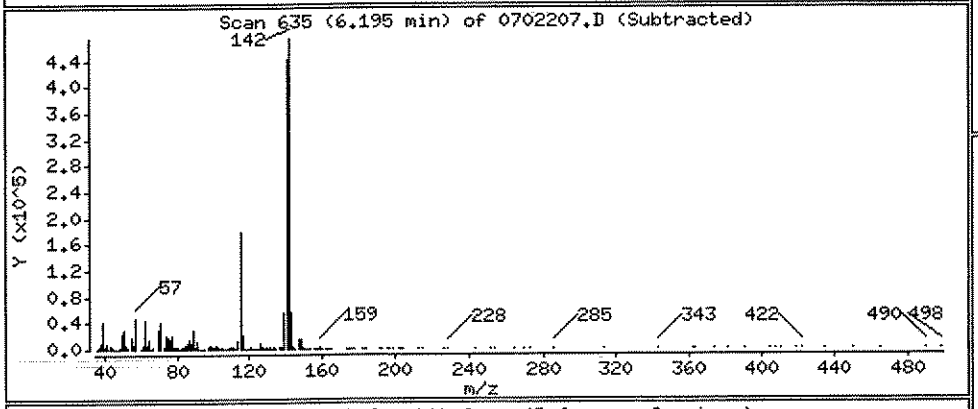
Volume Injected (uL): 0.5 Operator: SDB

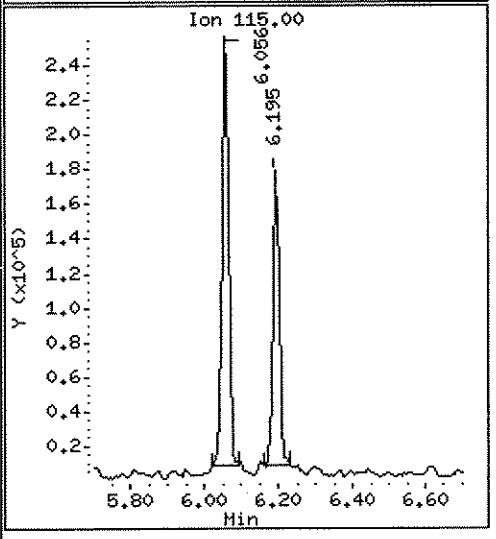
Column phase: fused silica Column diameter: 0.25

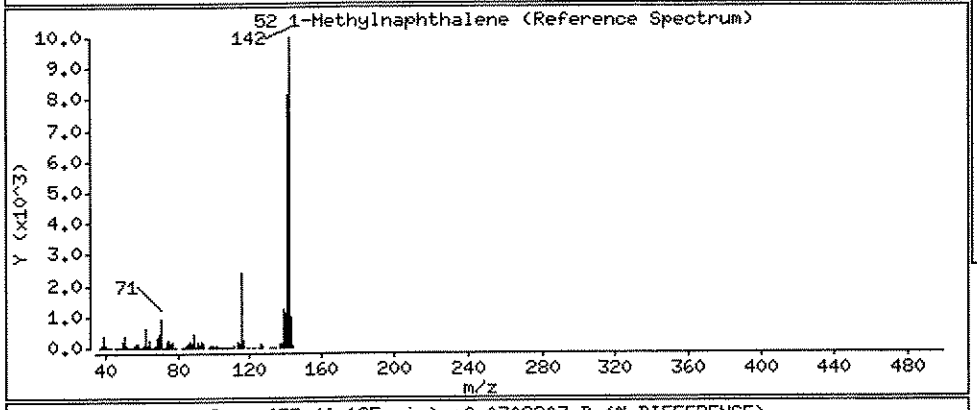
52 1-Methylnaphthalene Concentration: 593.4 UG/KG

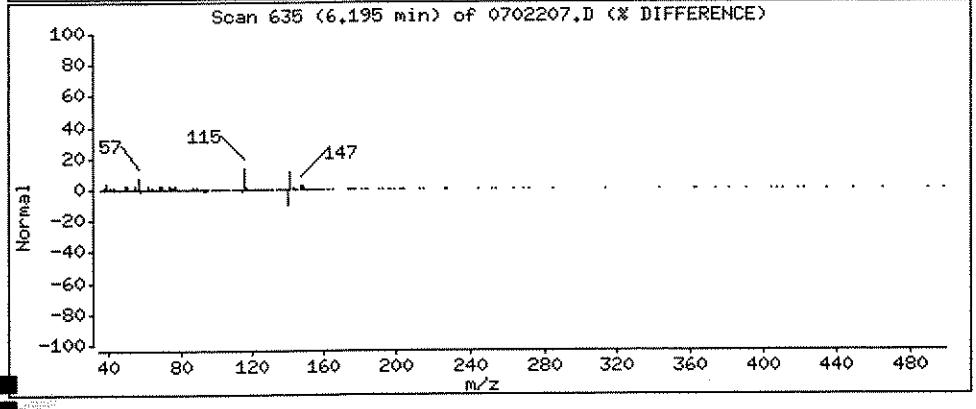












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

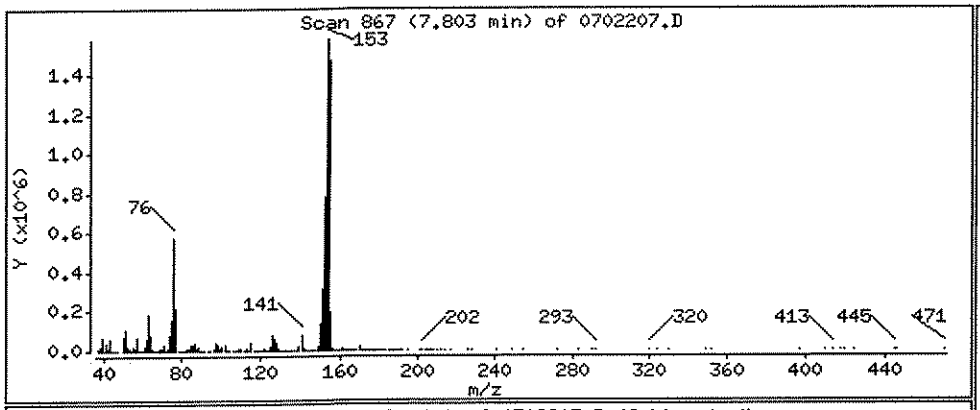
Client ID: 51CFM05S060706 Instrument: bna1.i

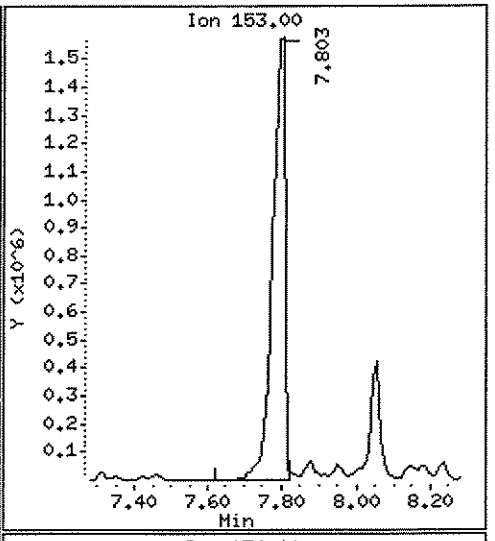
Sample Info: 0607022-07;15,1;500;1;UG/KG;10-JUL-2006

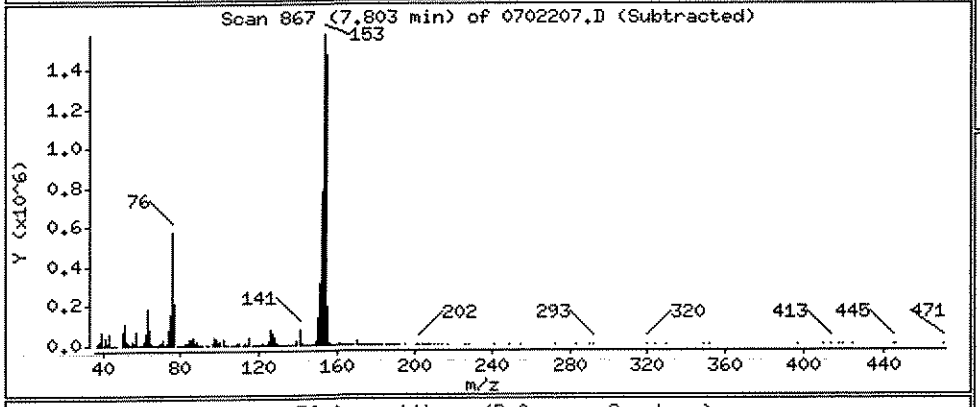
Volume Injected (uL): 0.5 Operator: SDB

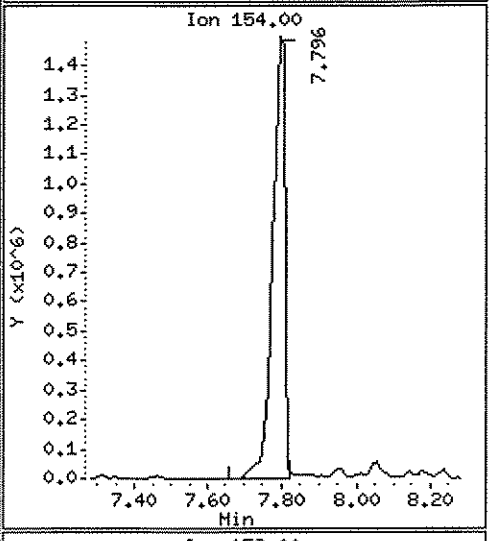
Column phase: fused silica Column diameter: 0.25

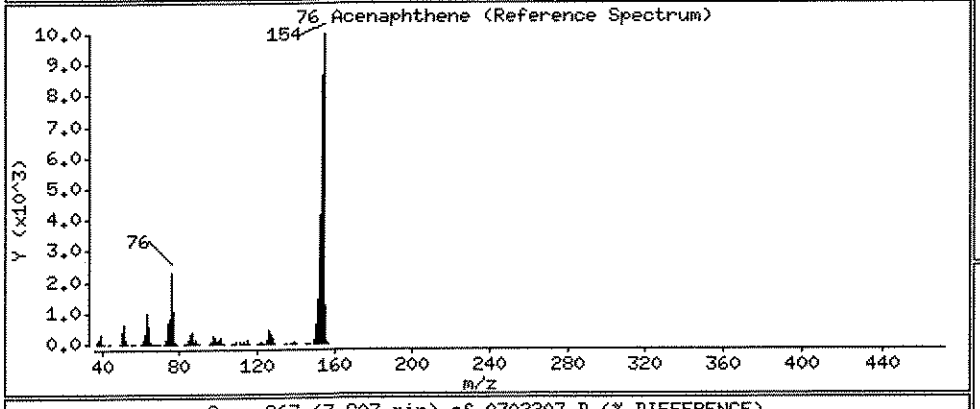
76 Acenaphthene Concentration: 4723 UG/KG

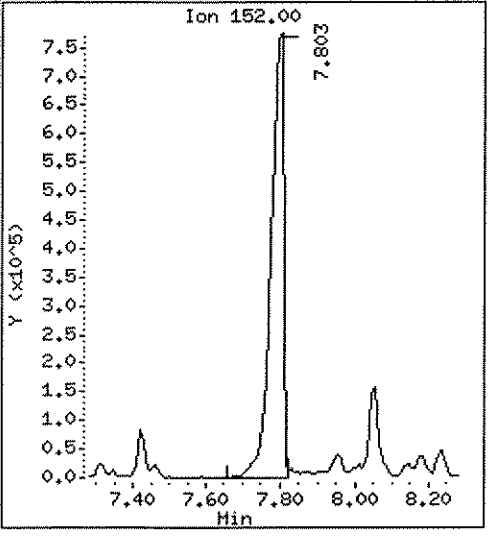


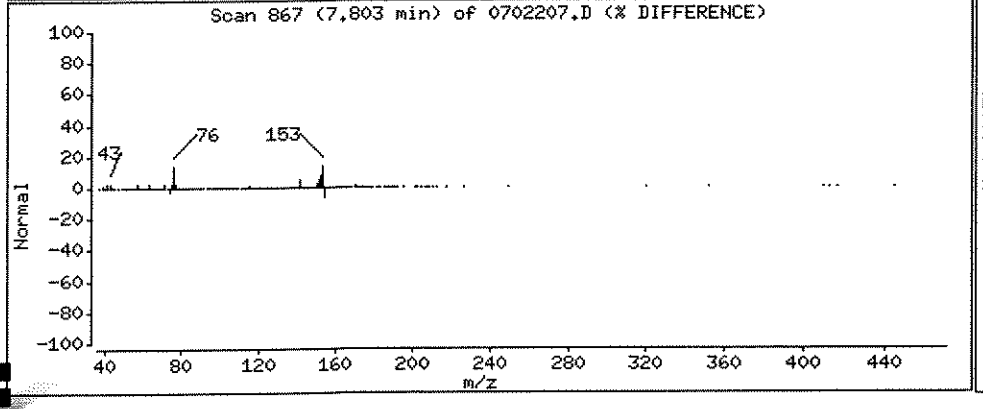












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

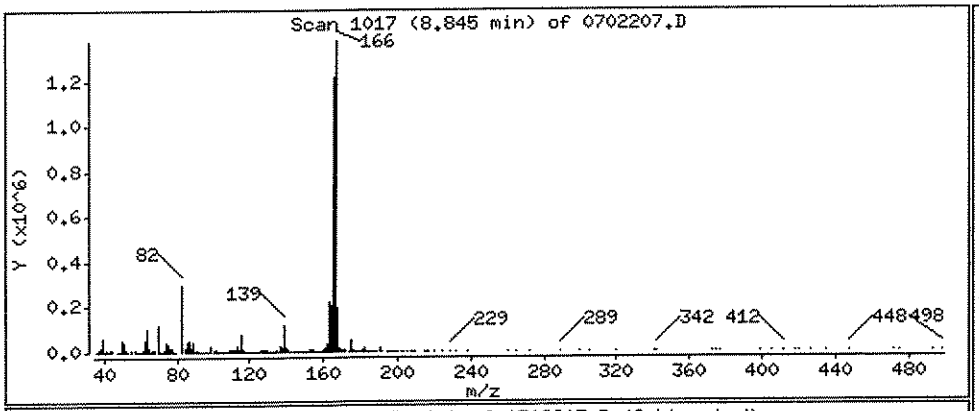
Operator: SDB

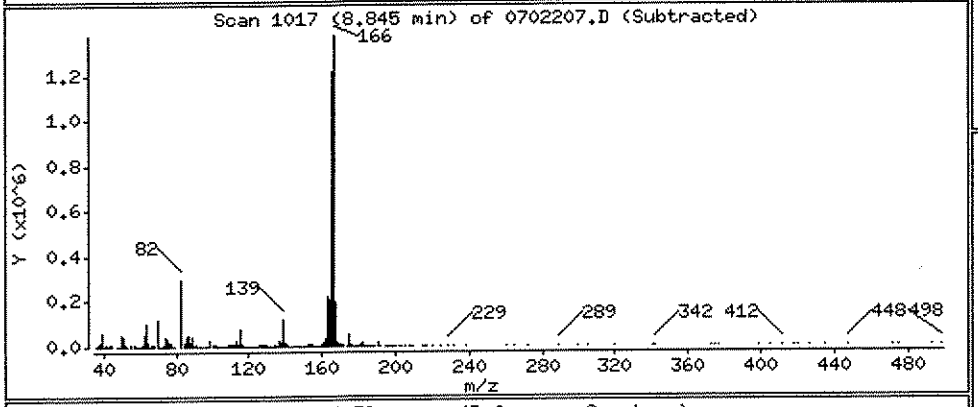
Column phase: fused silica

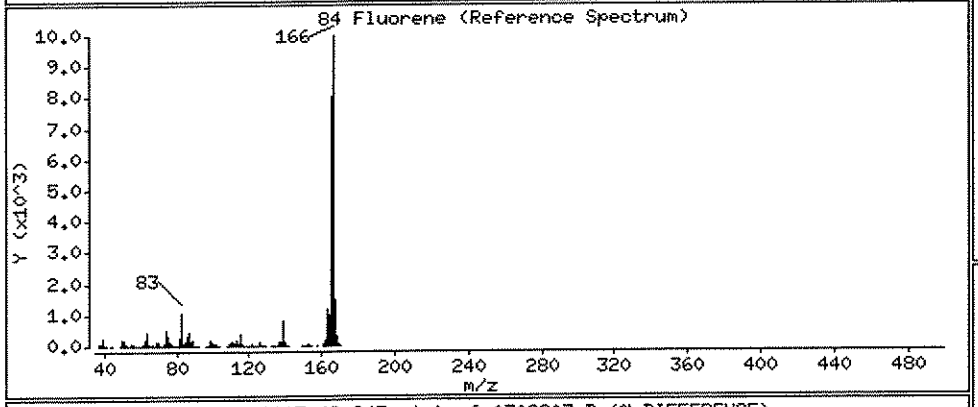
Column diameter: 0.25

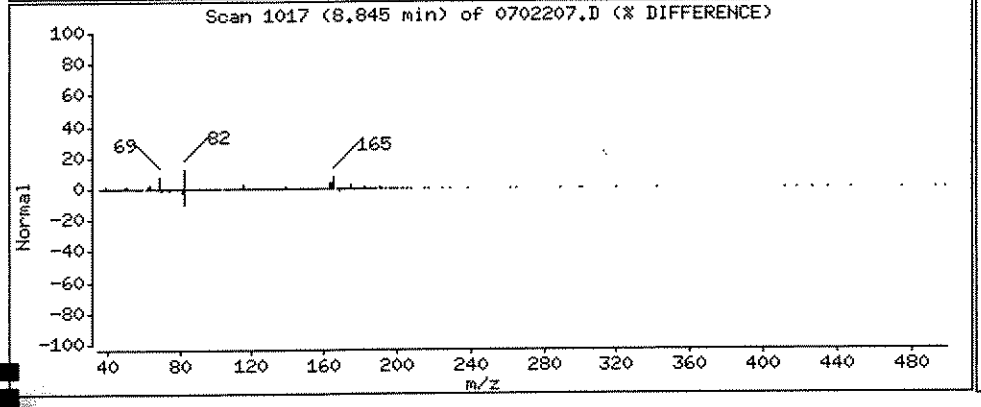
84 Fluorene

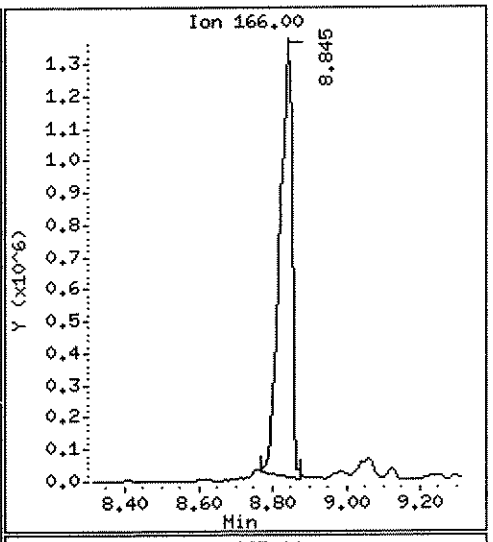
Concentration: 3774 UG/KG

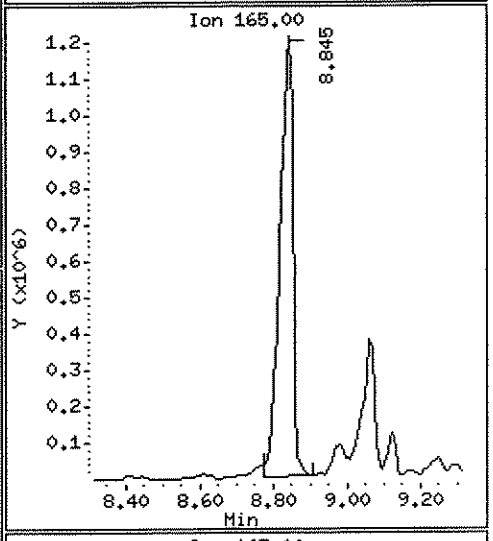


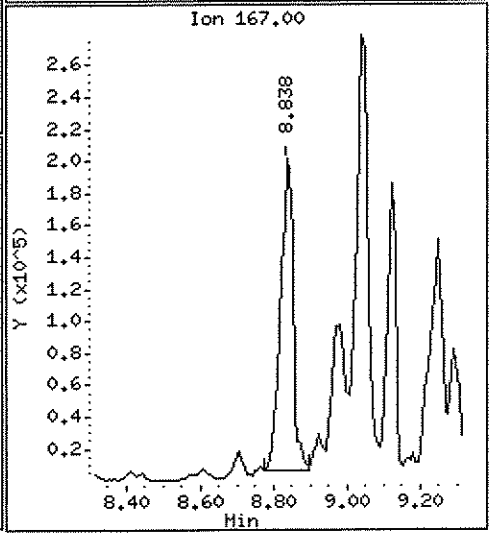












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

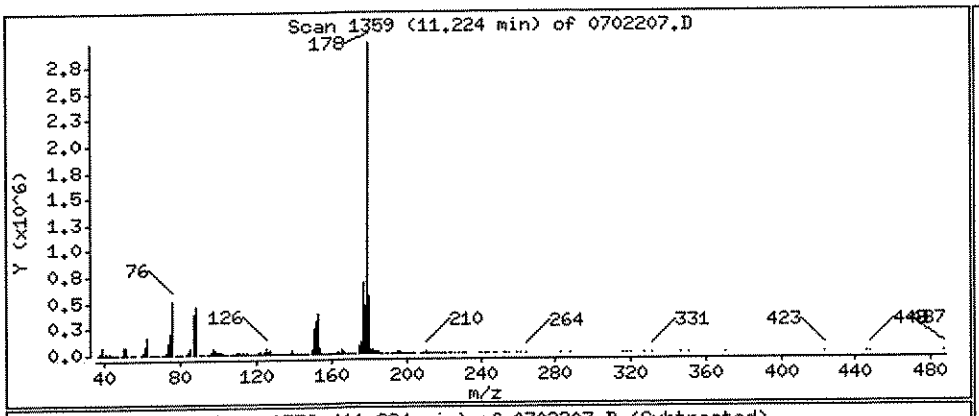
Operator: SDB

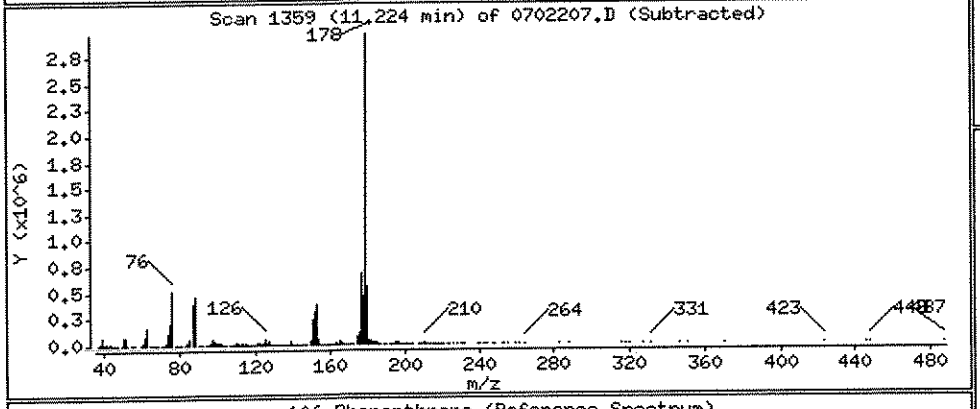
Column phase: fused silica

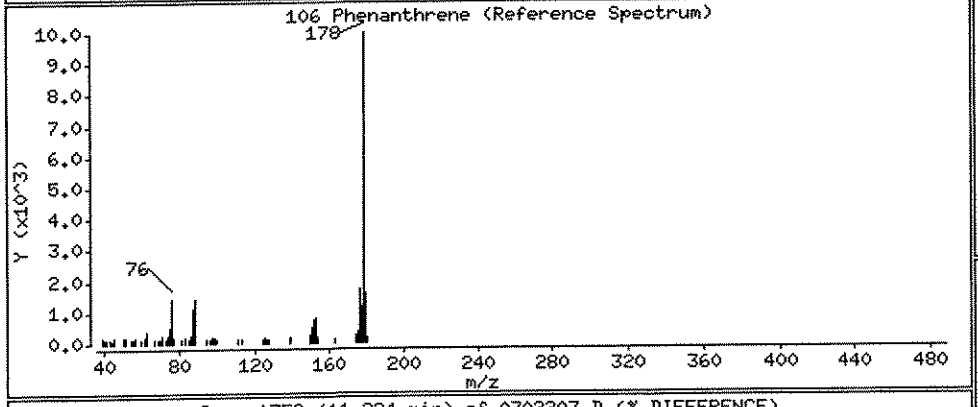
Column diameter: 0.25

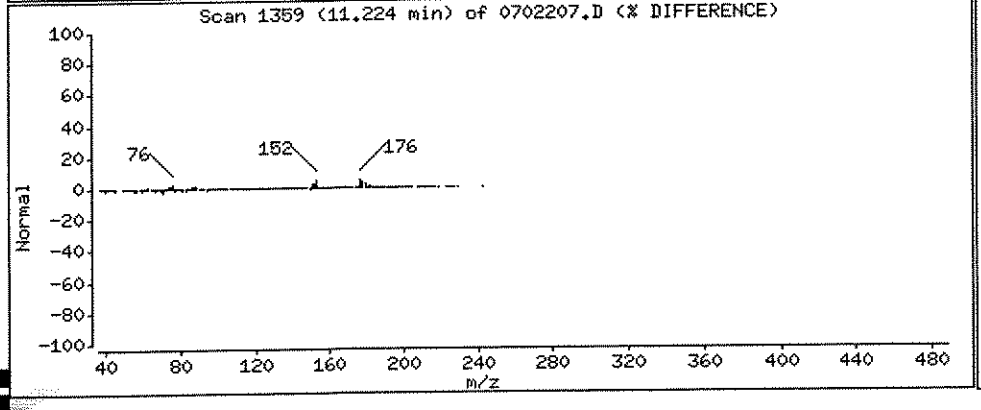
106 Phenanthrene

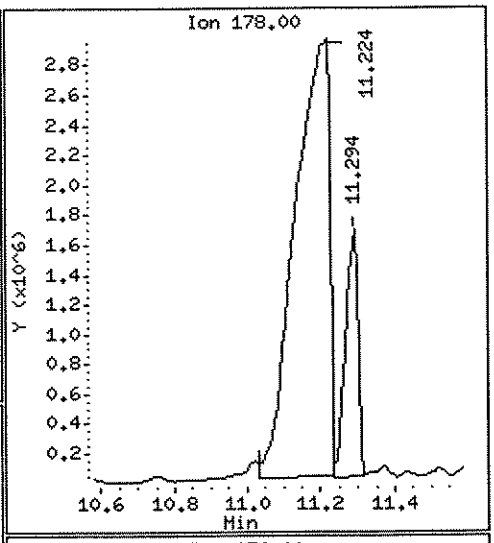
Concentration: 24080 UG/KG

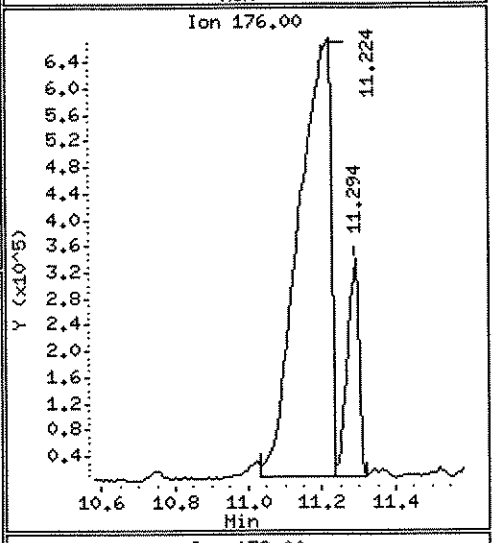


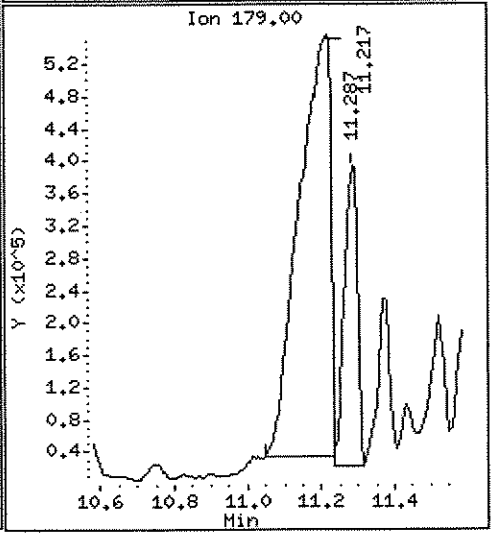












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000192

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

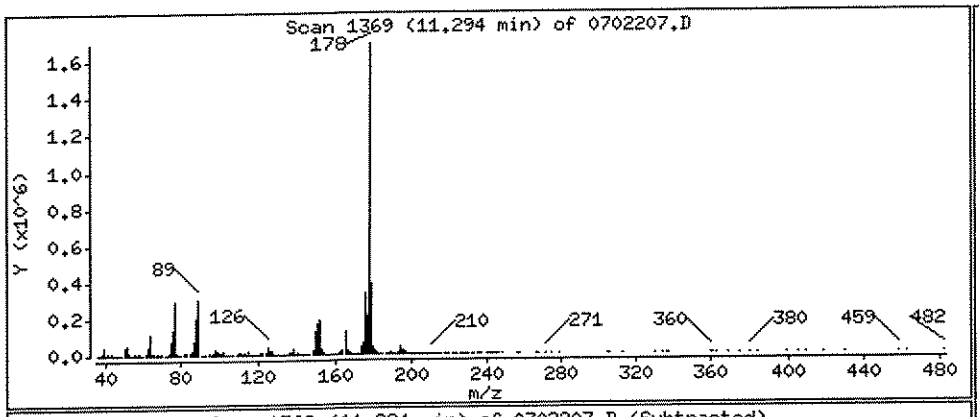
Operator: SDB

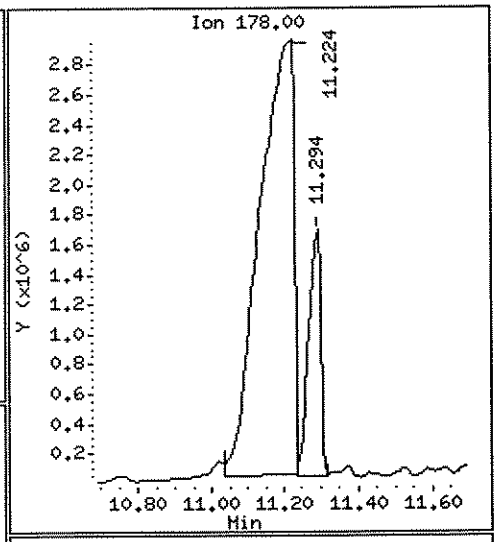
Column phase: fused silica

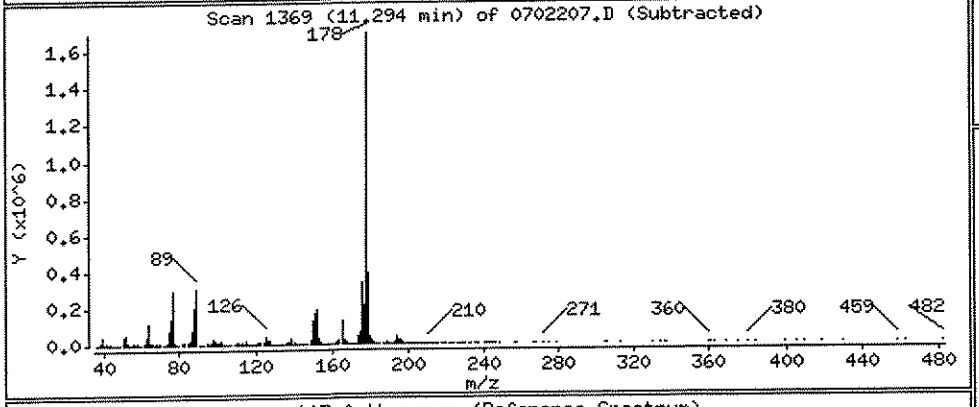
Column diameter: 0.25

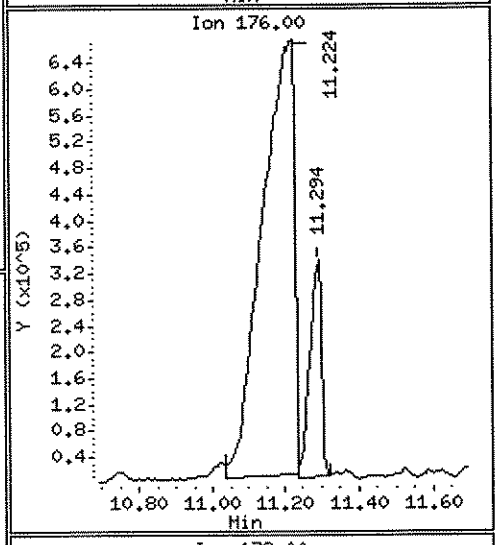
107 Anthracene

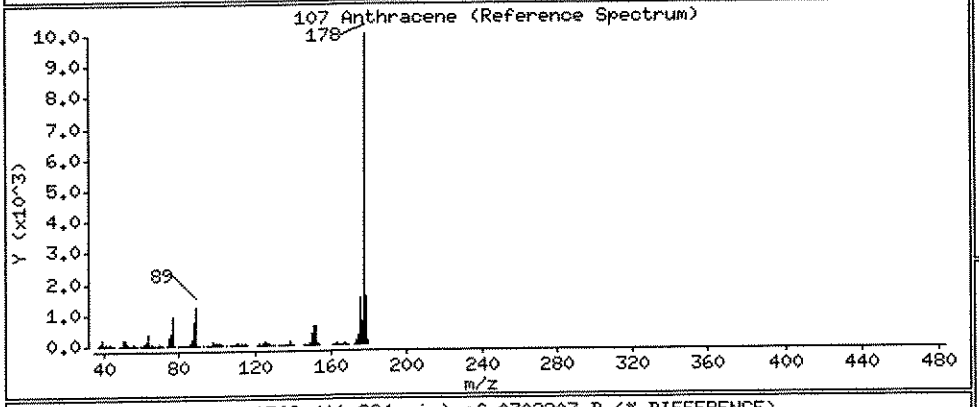
Concentration: 4781 UG/KG

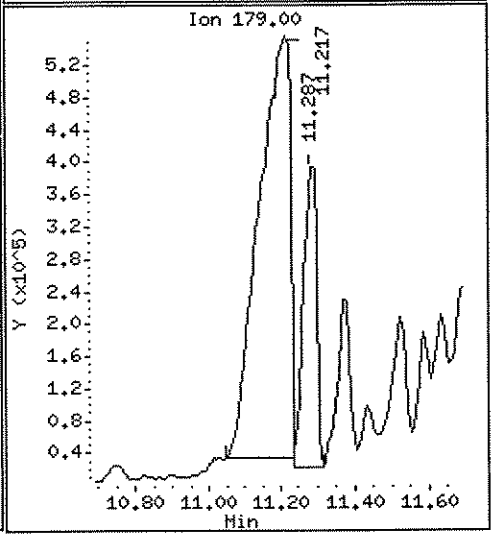


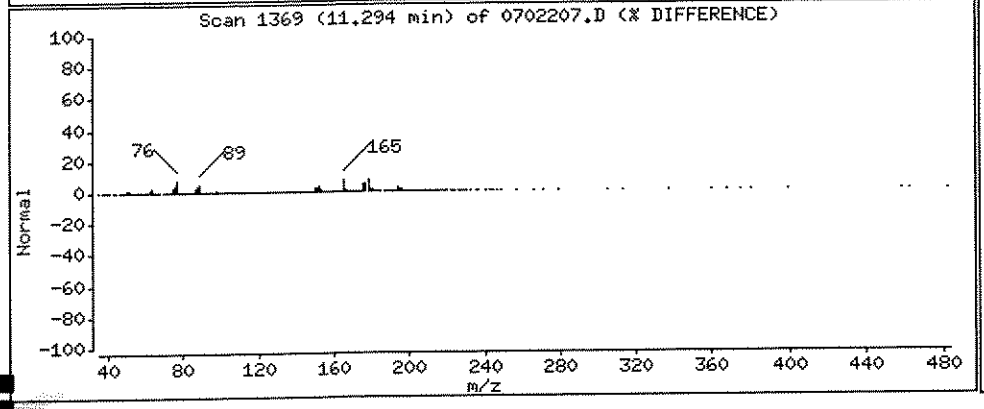












Empirical Laboratories

Data File: \\ELABNSH04\DB\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

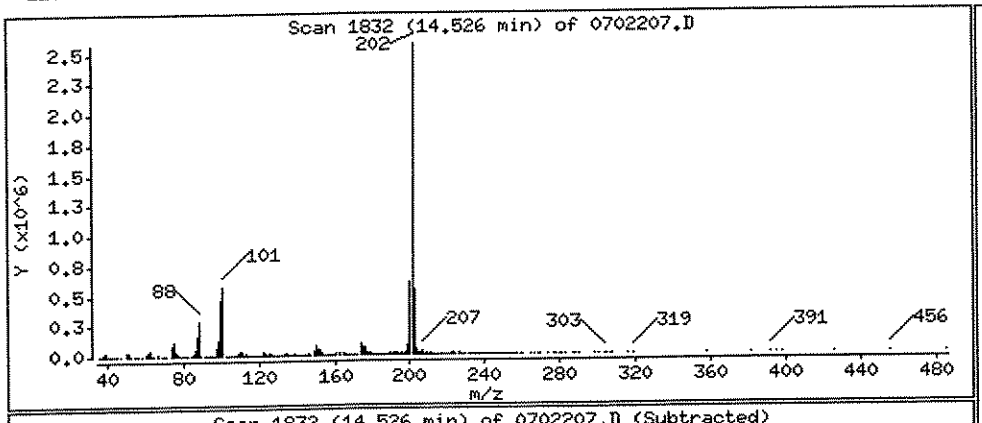
Operator: SDB

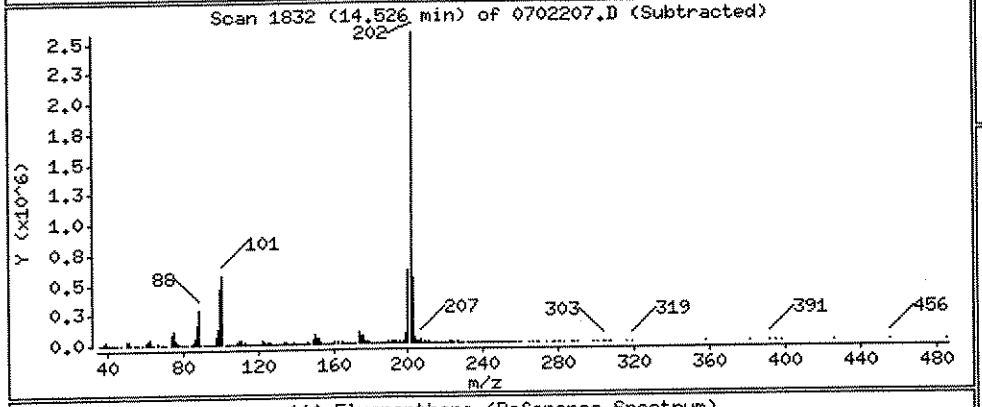
Column phase: fused silica

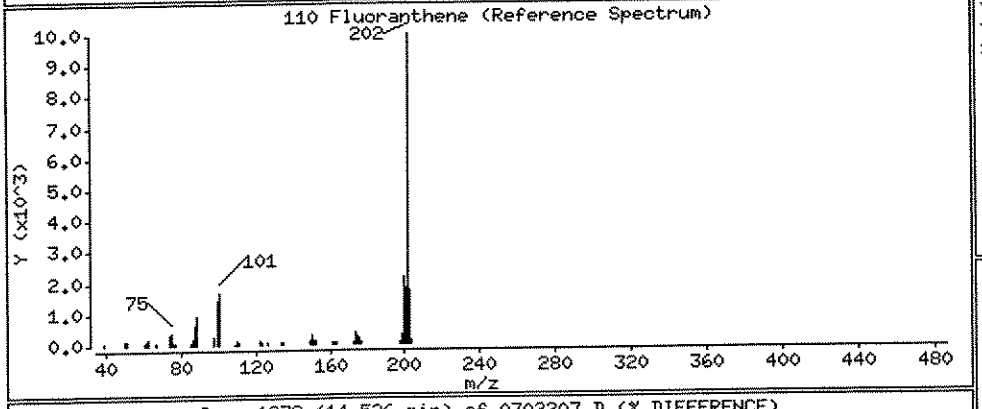
Column diameter: 0.25

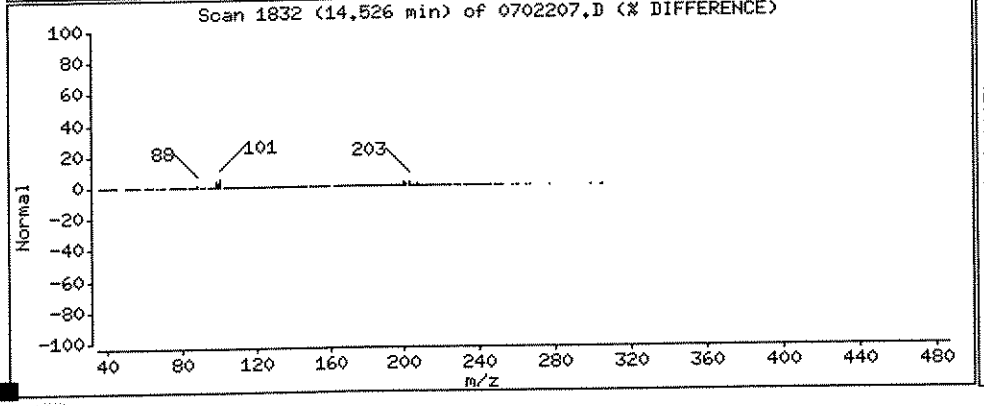
110 Fluoranthene

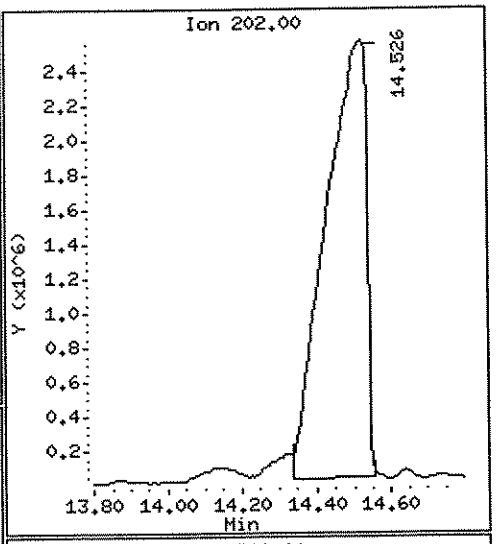
Concentration: 24250 UG/KG

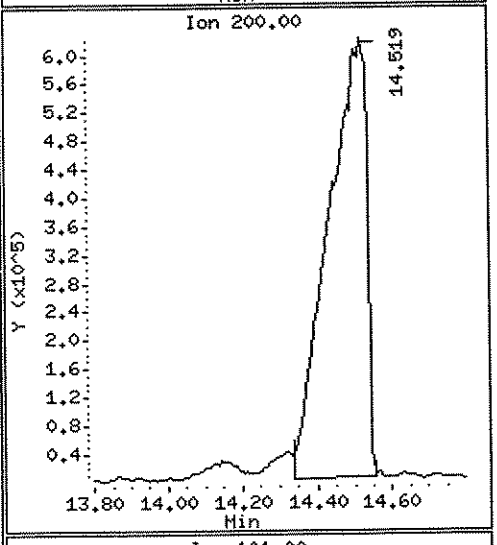


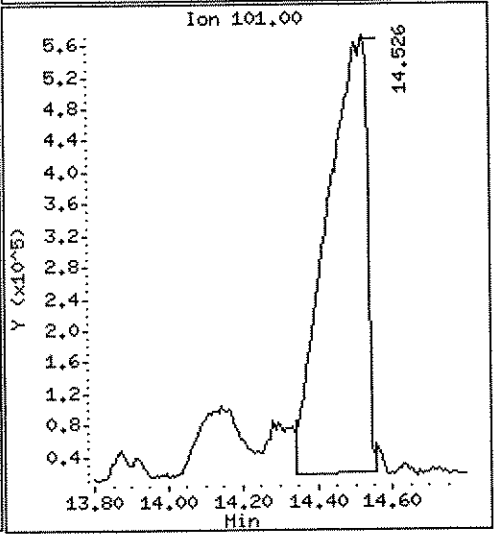












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

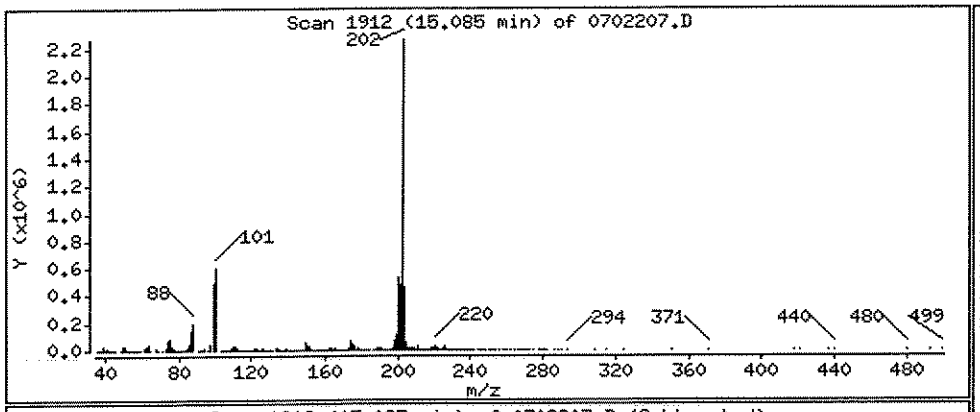
Client ID: 51CFM05S060706 Instrument: bna1.i

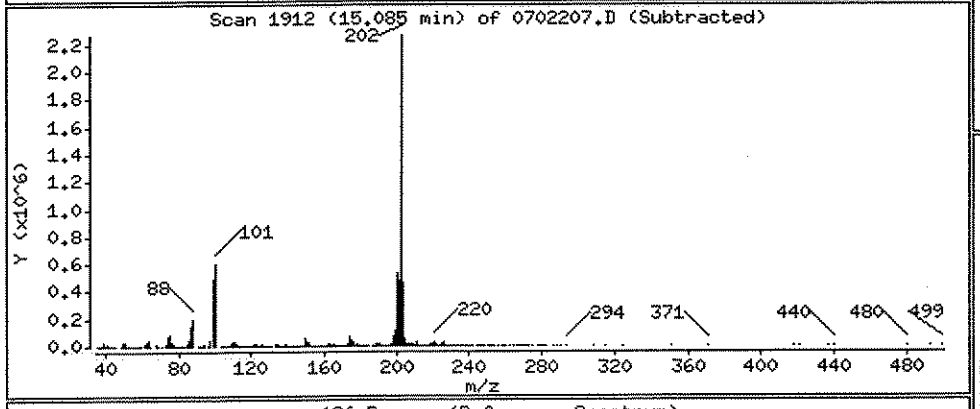
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

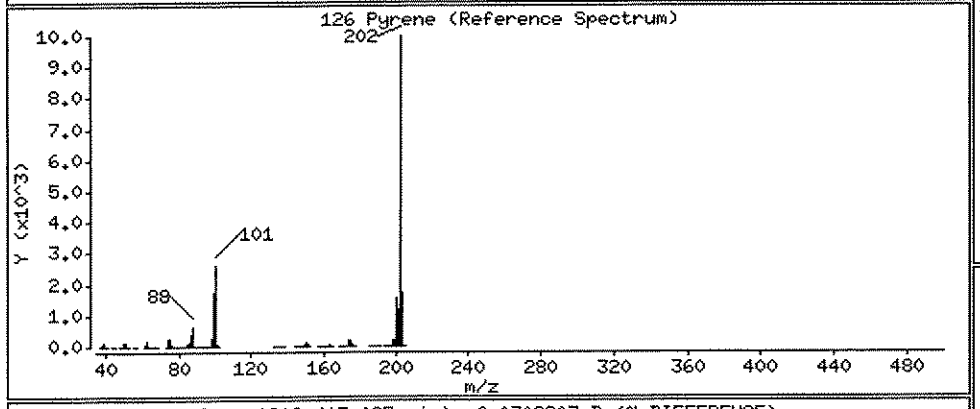
Volume Injected (uL): 0.5 Operator: SDB

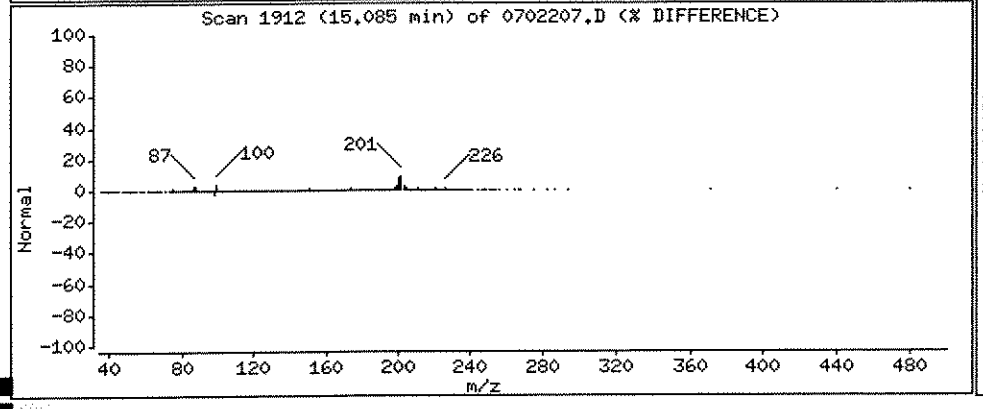
Column phase: fused silica Column diameter: 0.25

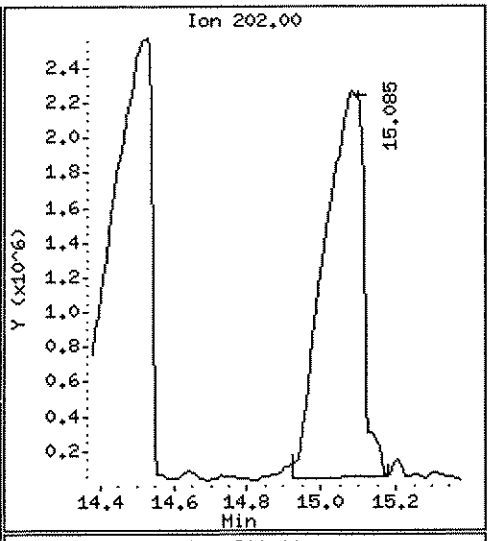
126 Pyrene Concentration: 63170 UG/KG

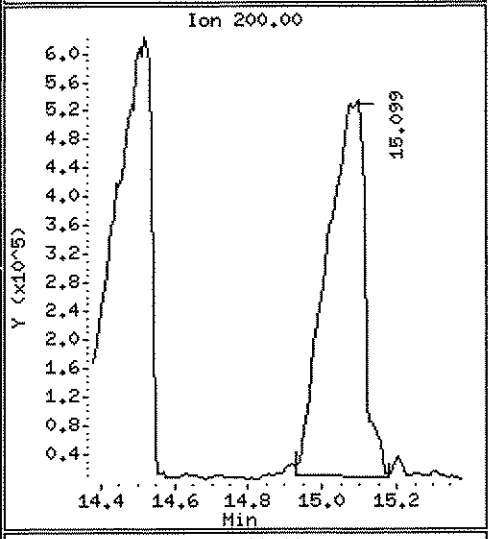


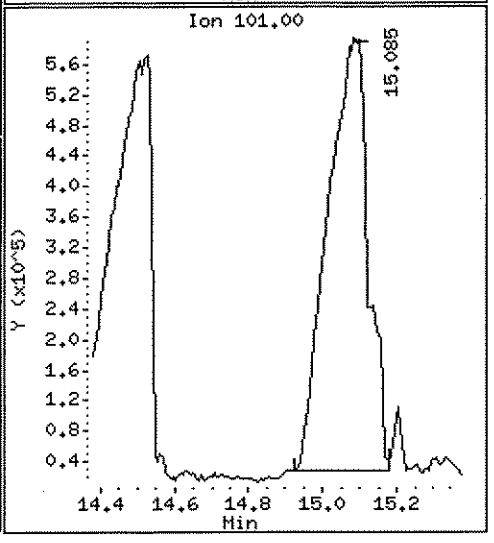












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

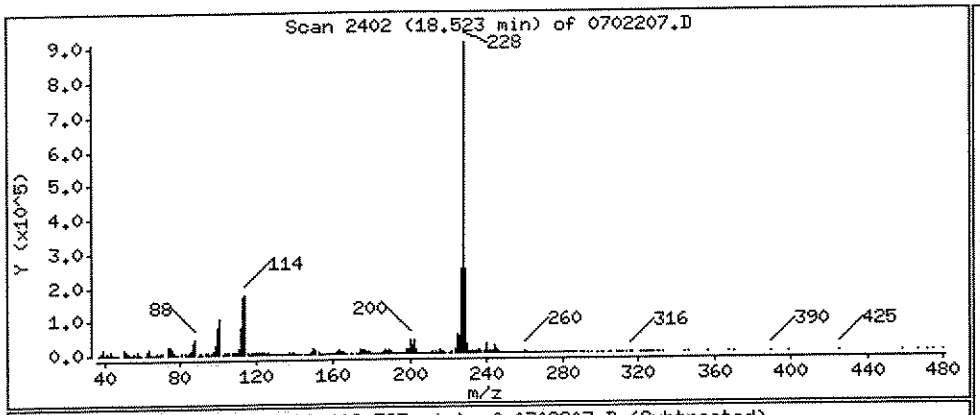
Operator: SDB

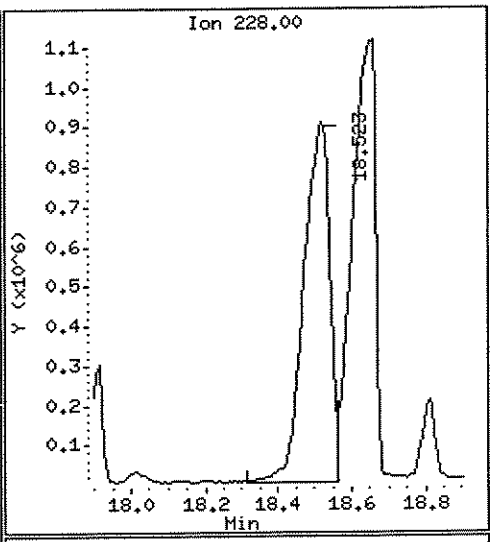
Column phase: fused silica

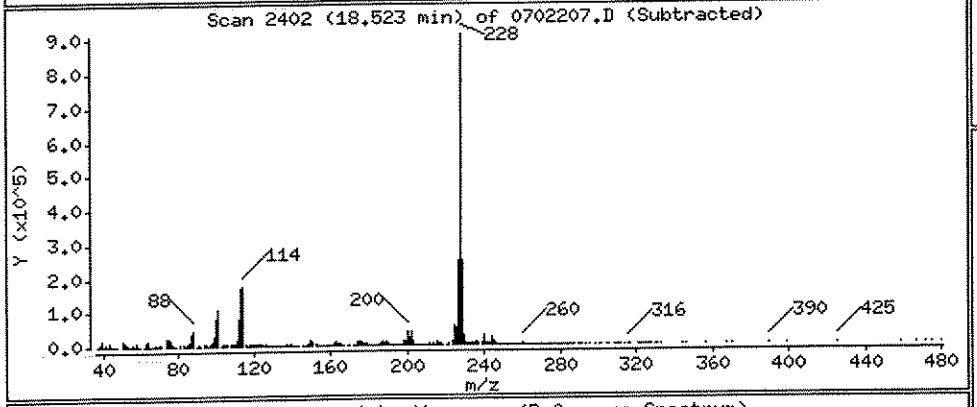
Column diameter: 0.25

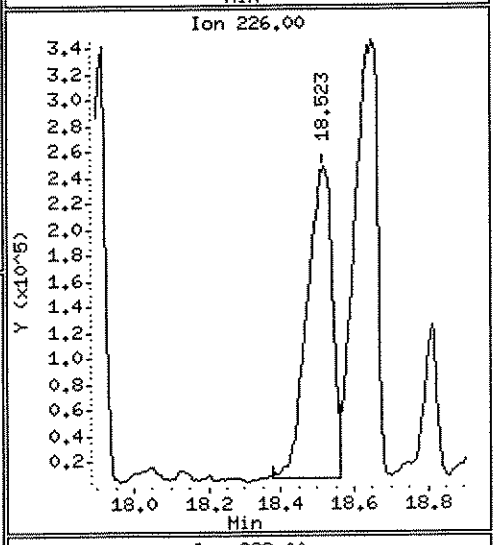
130 Benzo(a)anthracene

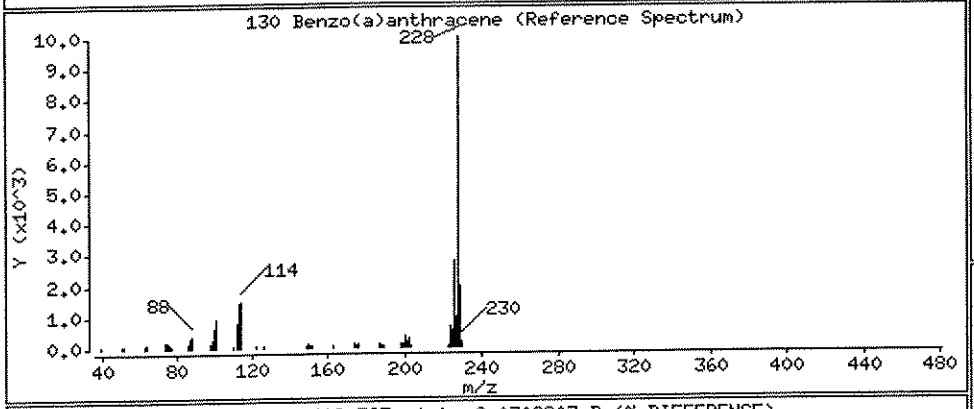
Concentration: 21950 UG/KG

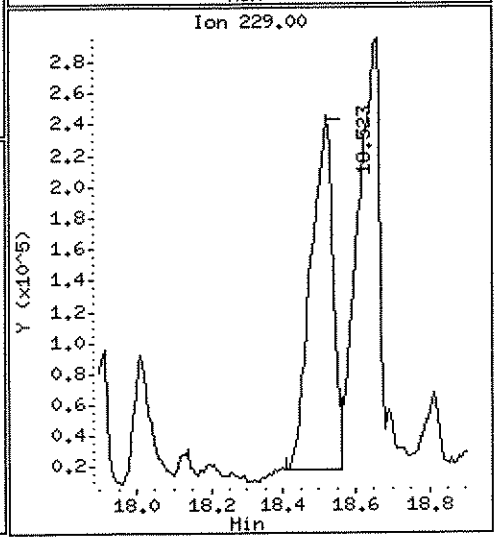


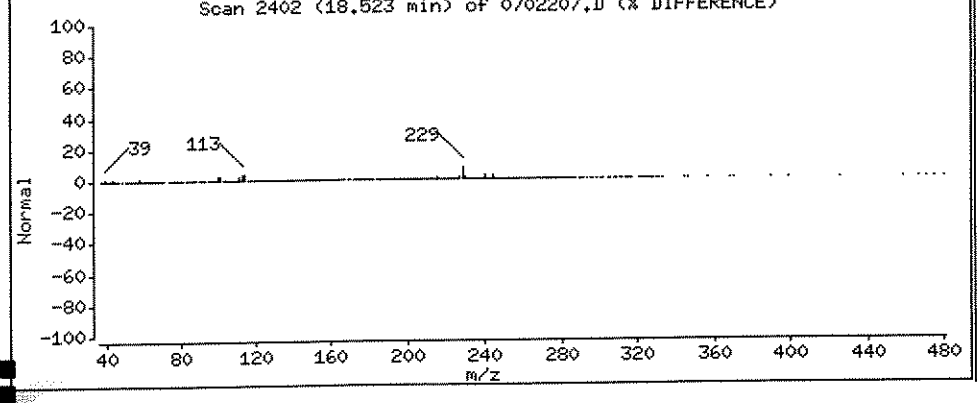












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

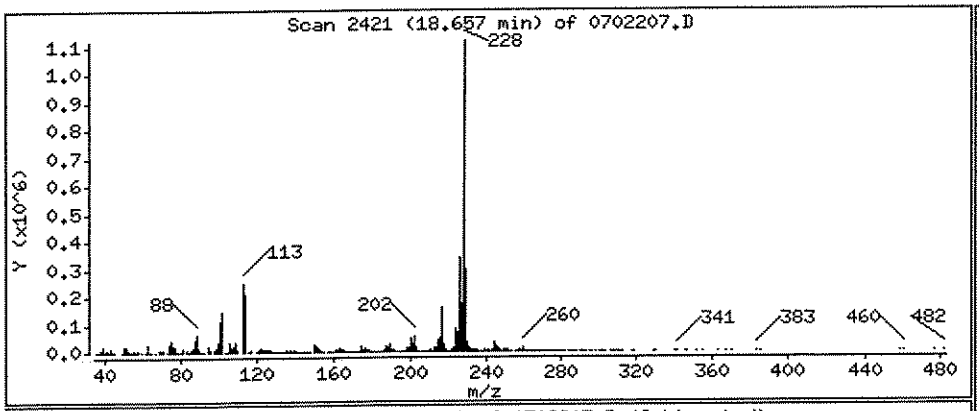
Client ID: 51CFH05S060706 Instrument: bna1.i

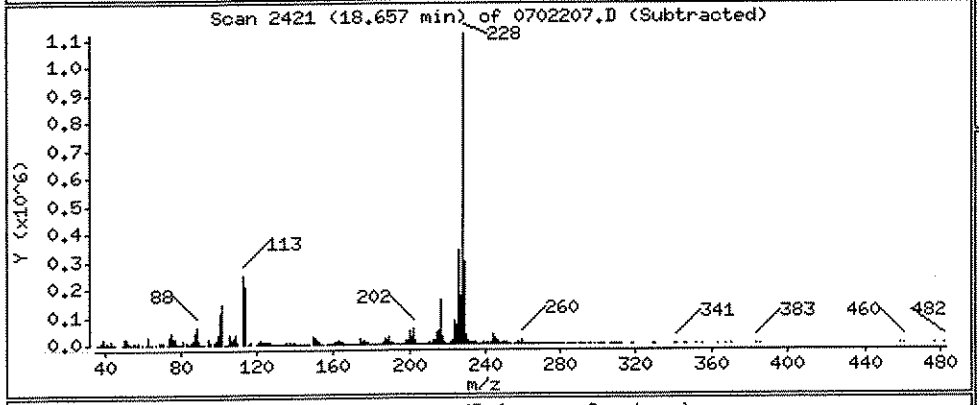
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

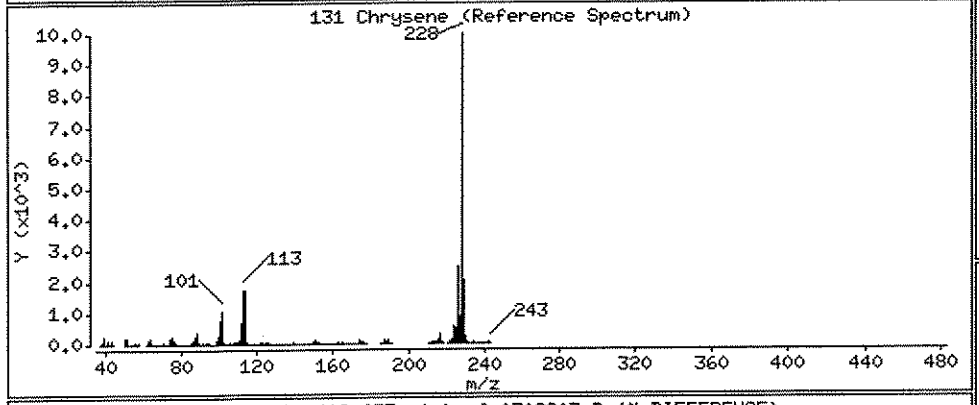
Volume Injected (uL): 0.5 Operator: SDB

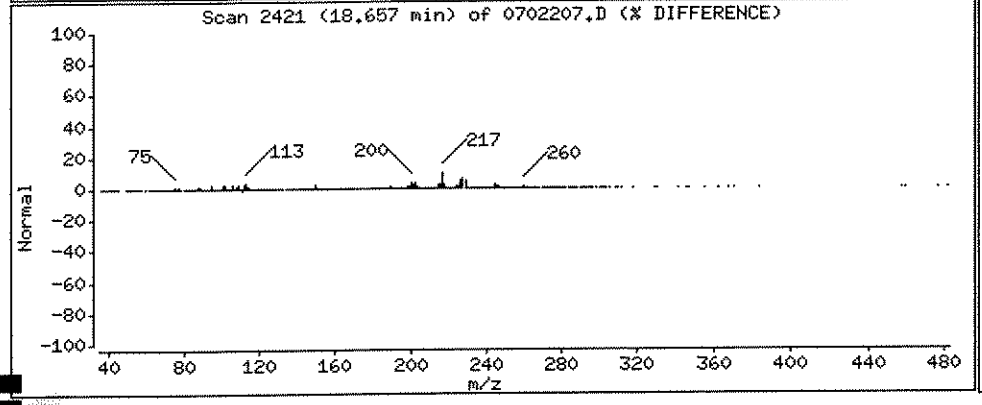
Column phase: fused silica Column diameter: 0.25

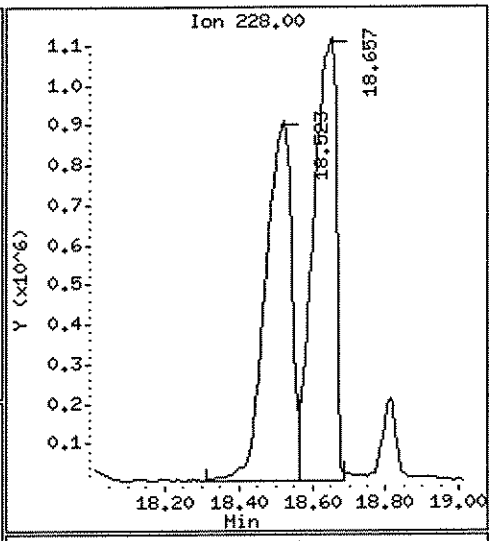
131 Chrysene Concentration: 25480 UG/KG

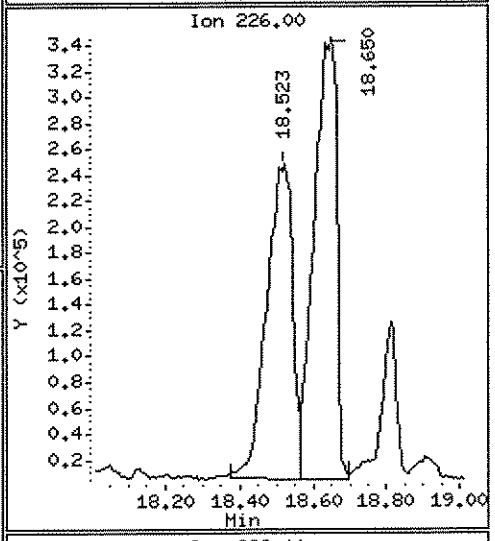


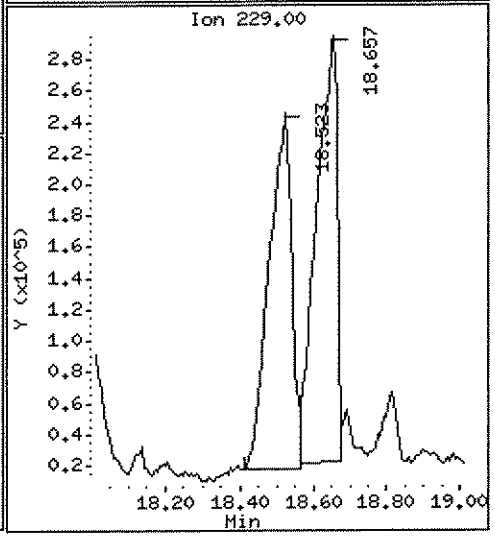












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

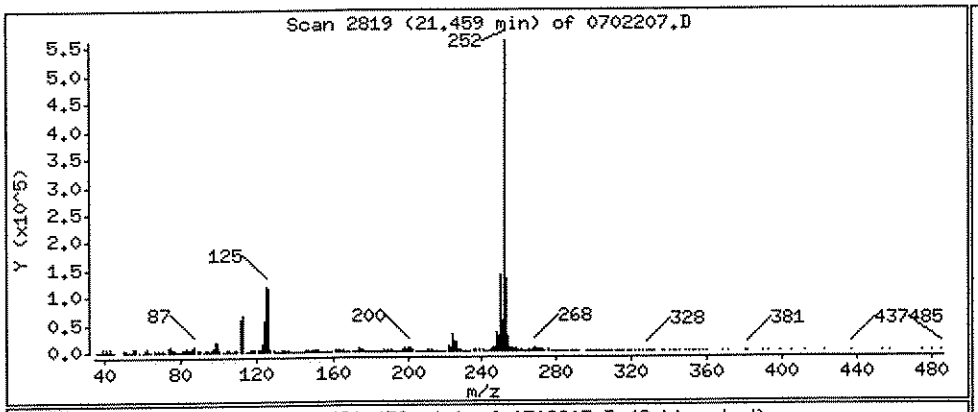
Operator: SDB

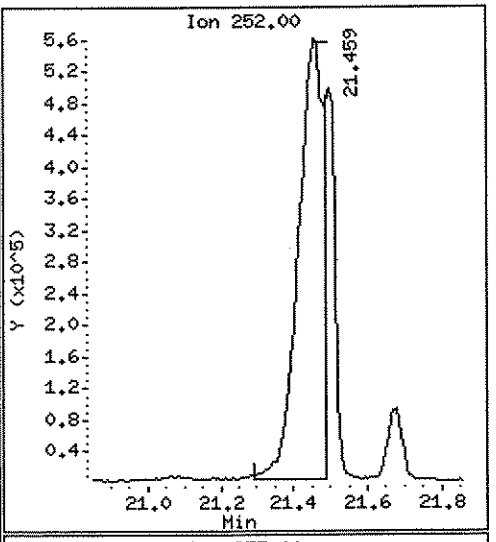
Column phase: fused silica

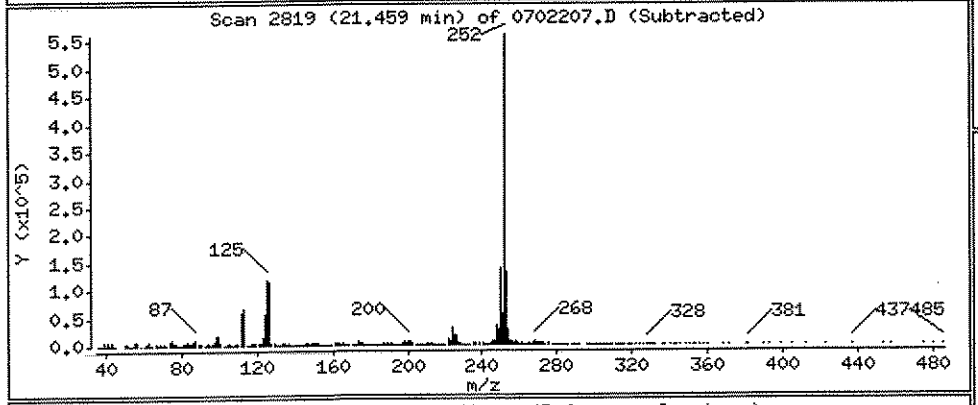
Column diameter: 0.25

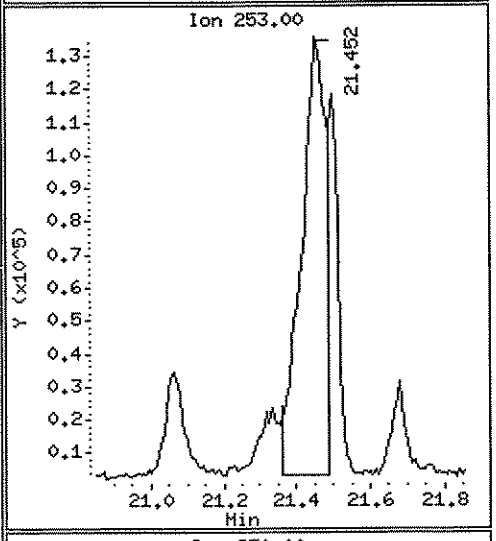
147 Benzo(b)fluoranthene

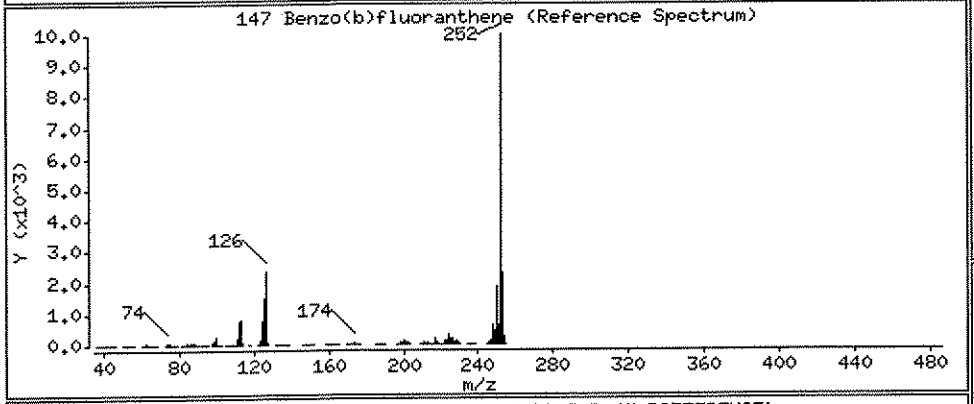
Concentration: 31350 UG/KG

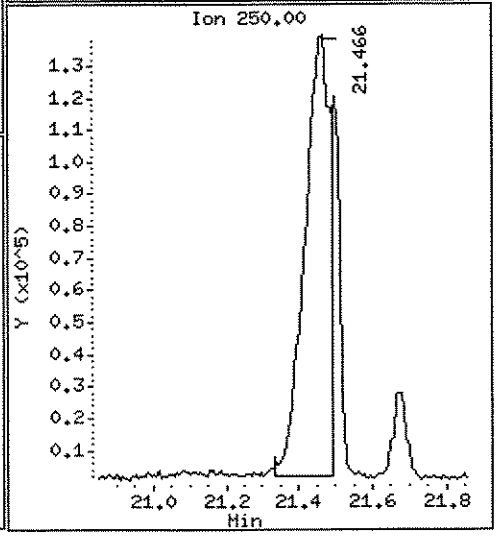


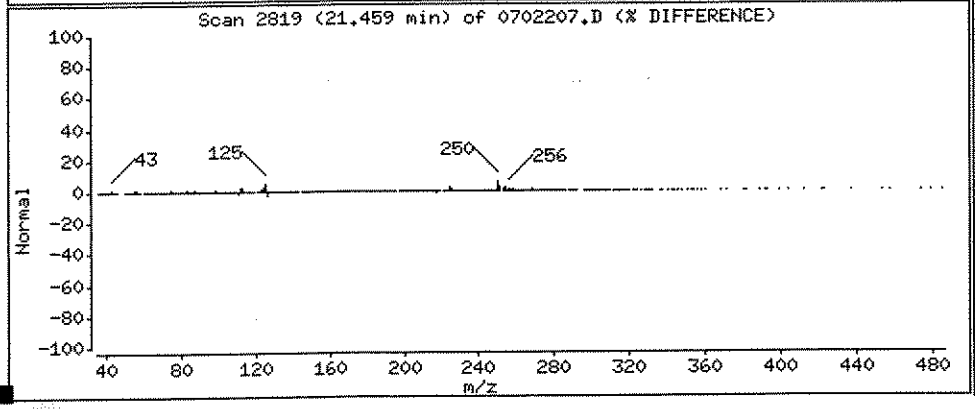












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

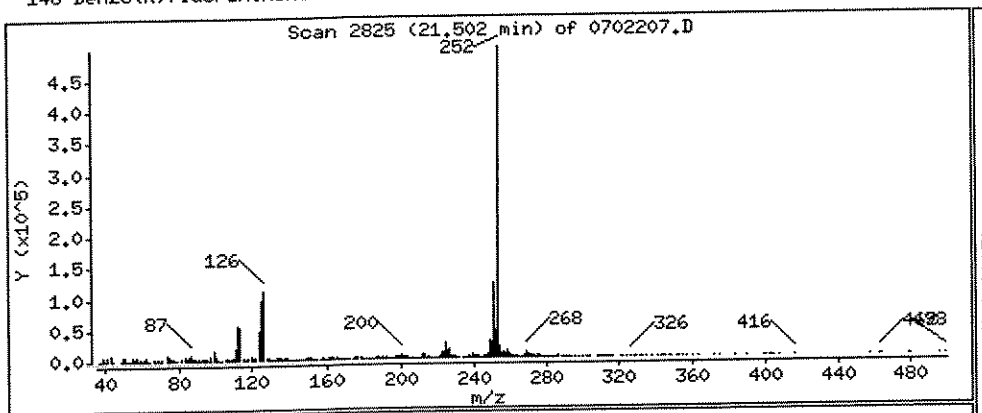
Operator: SDB

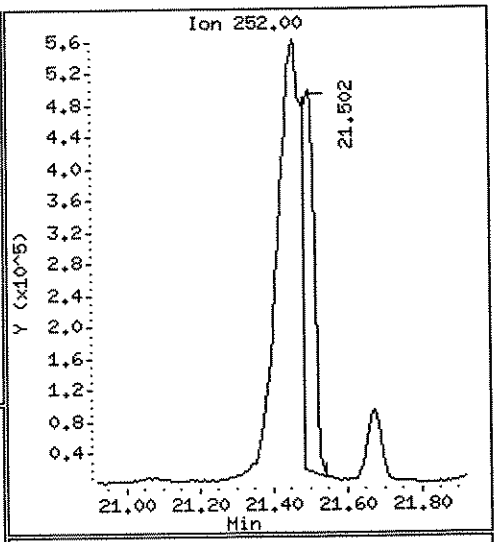
Column phase: fused silica

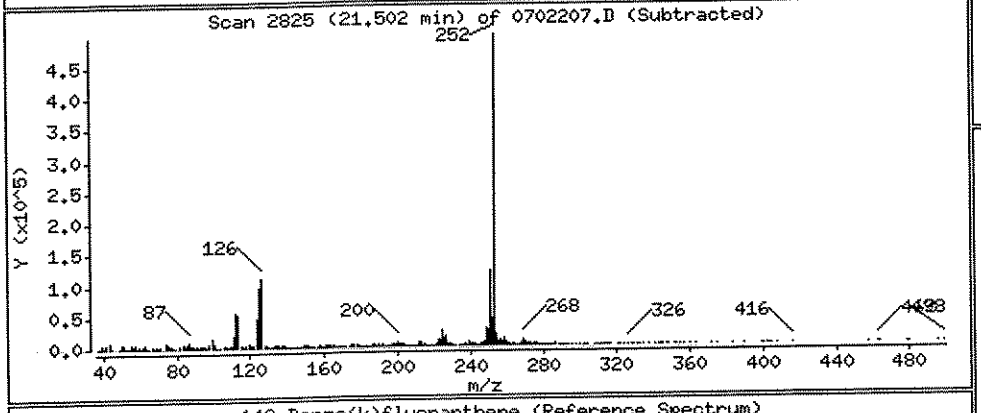
Column diameter: 0.25

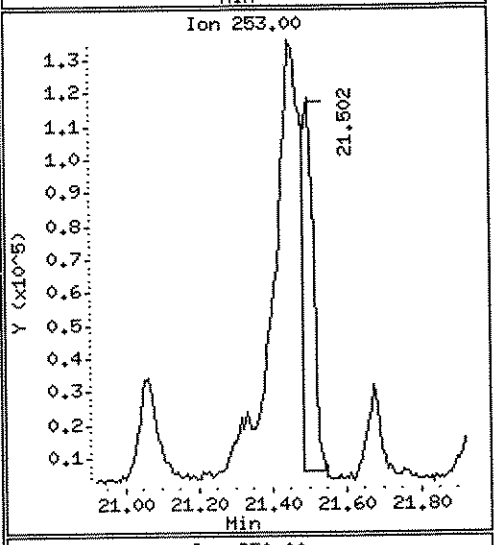
148 Benzo(k)fluoranthene

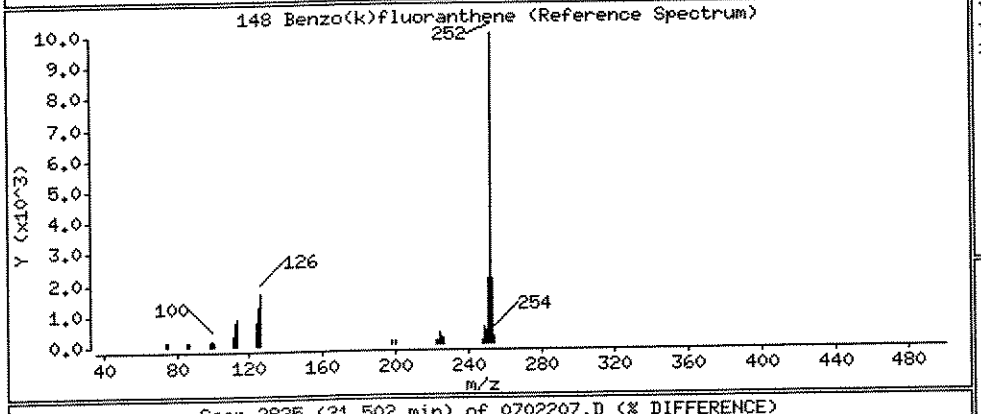
Concentration: 11170 UG/KG

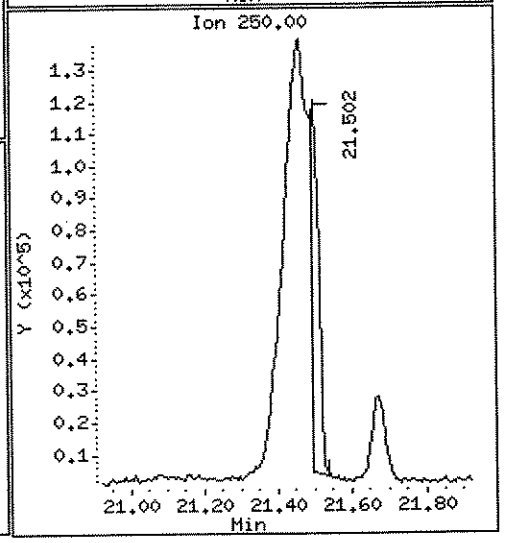


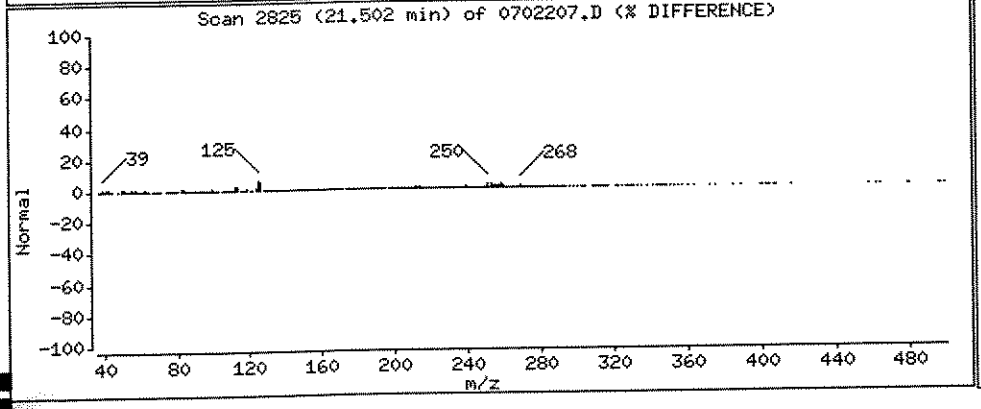












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

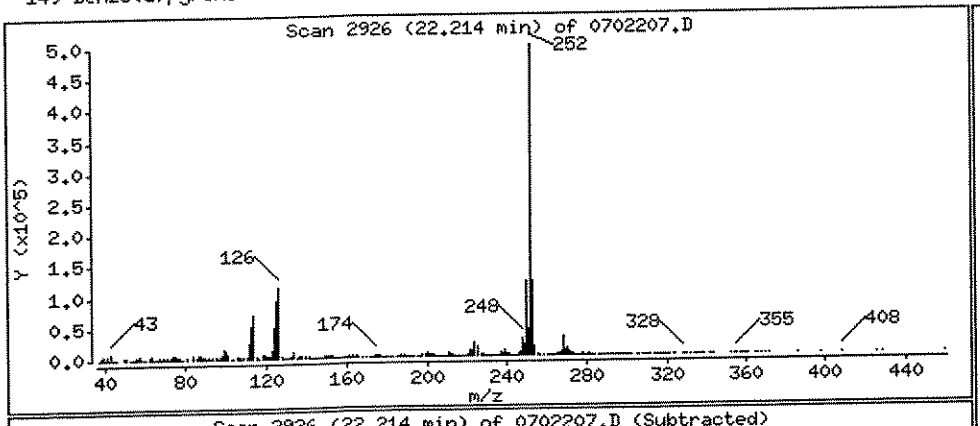
Operator: SDB

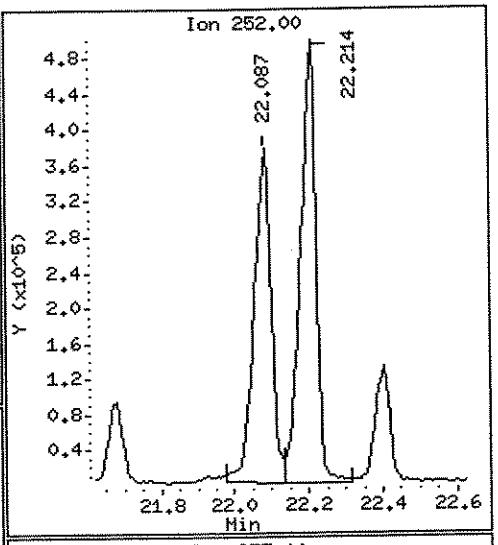
Column phase: fused silica

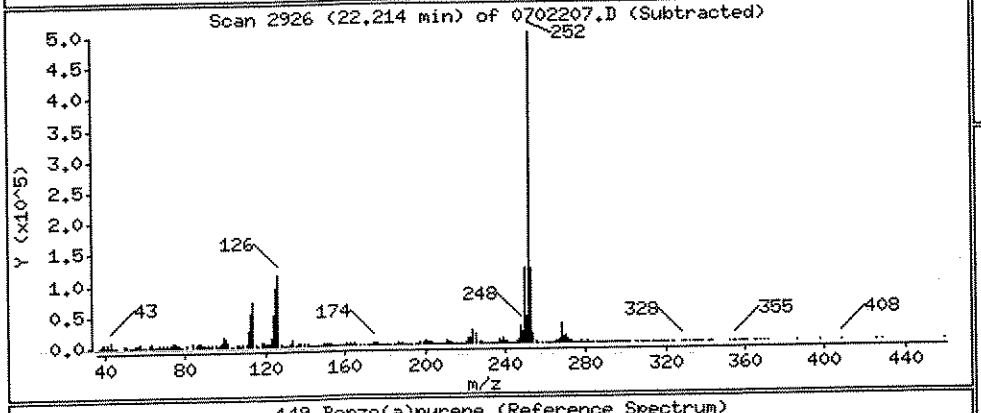
Column diameter: 0.25

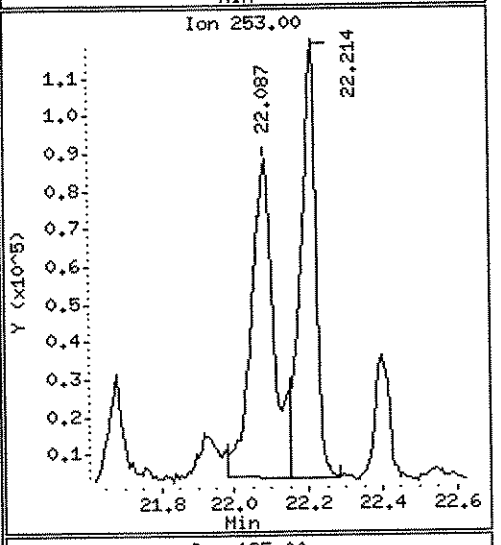
149 Benzo(a)pyrene

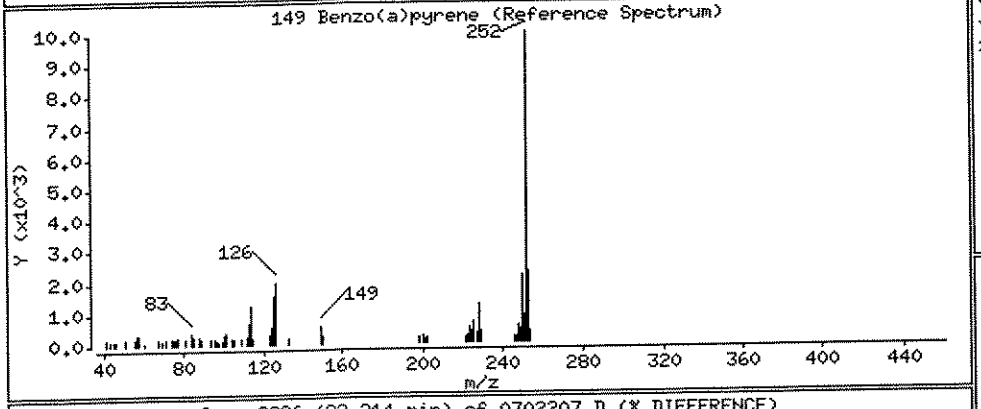
Concentration: 20100 UG/KG

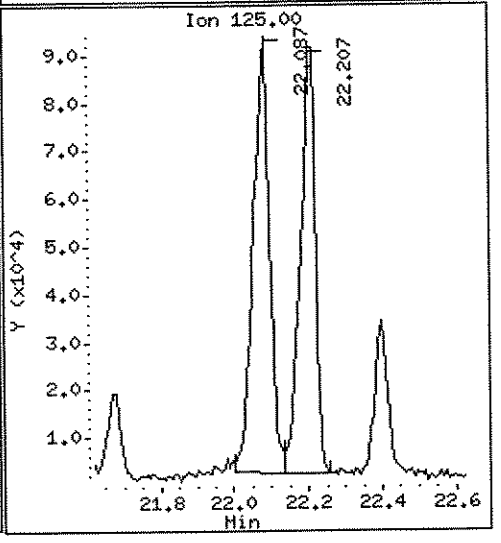


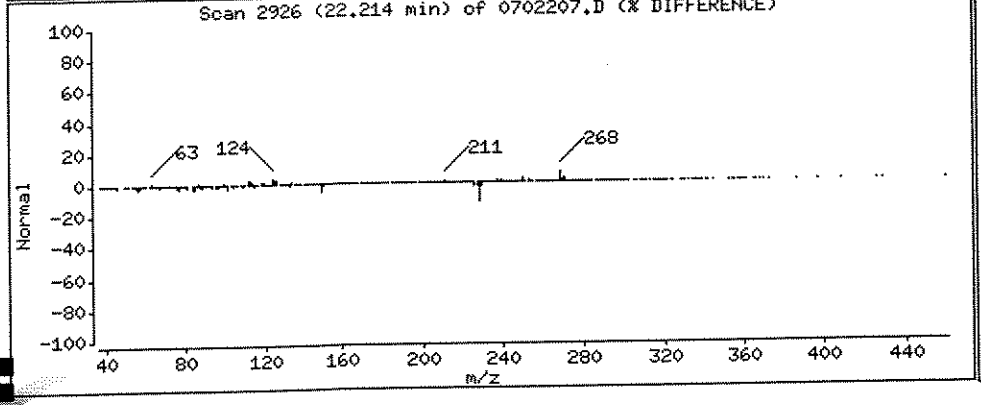












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

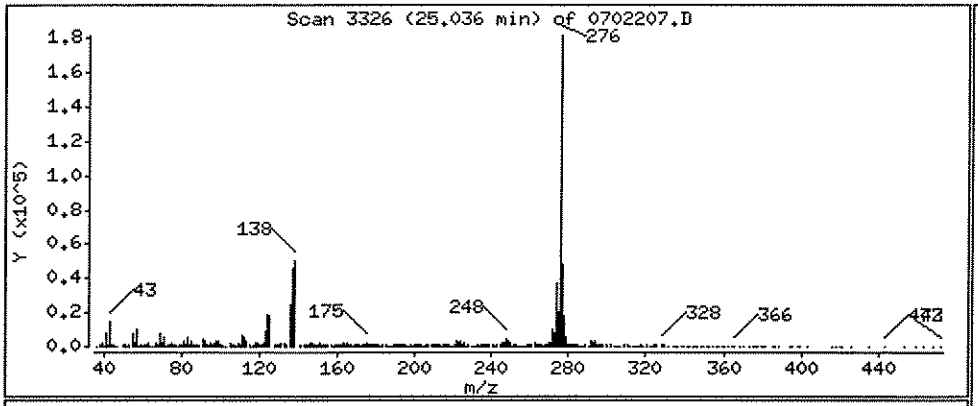
Client ID: 51CFM05S060706 Instrument: bna1.i

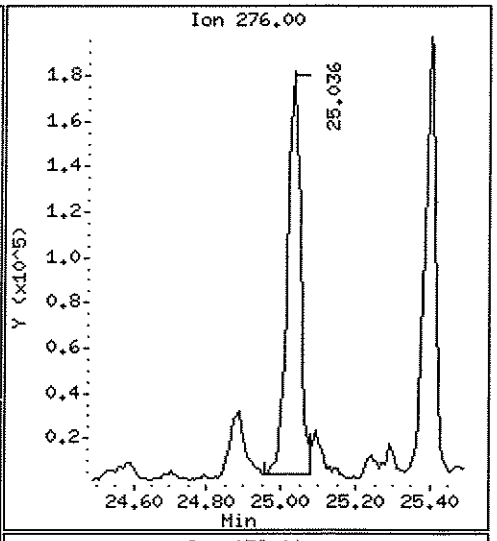
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

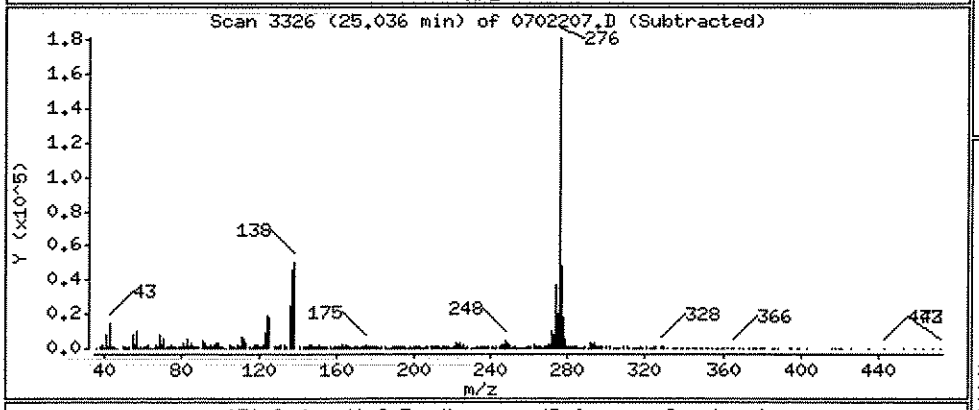
Volume Injected (uL): 0.5 Operator: SDB

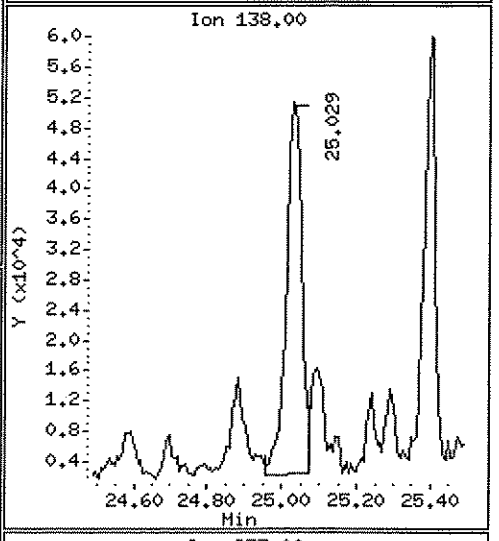
Column phase: fused silica Column diameter: 0.25

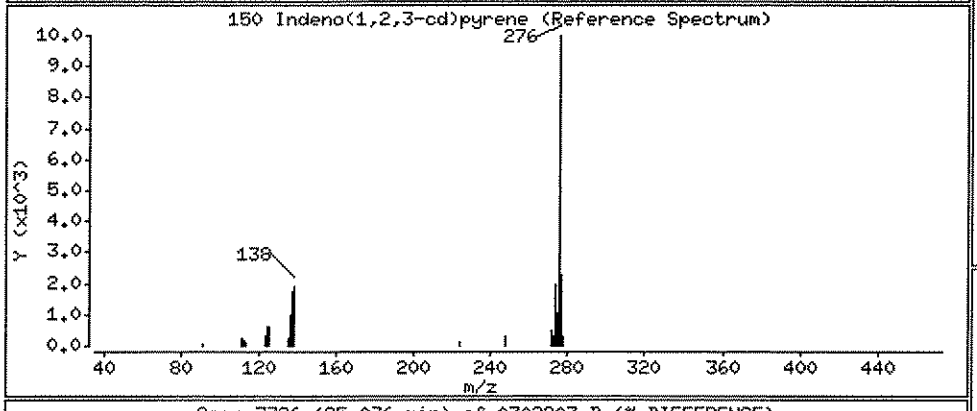
150 Indeno(1,2,3-cd)pyrene Concentration: 7133 UG/KG

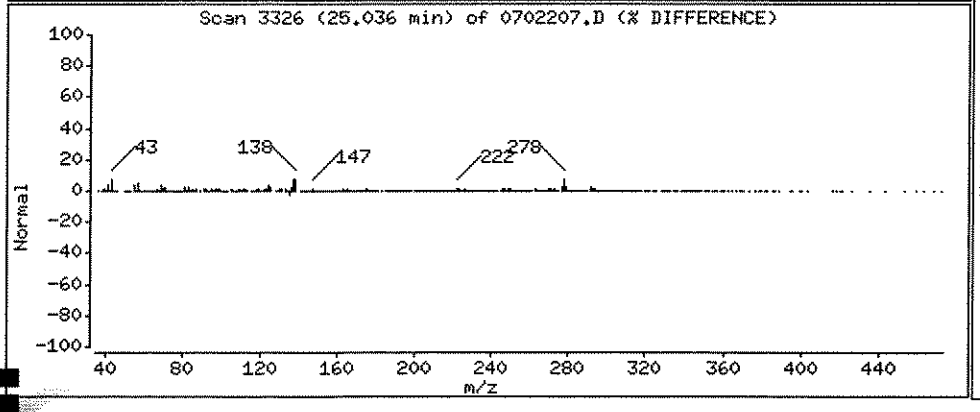


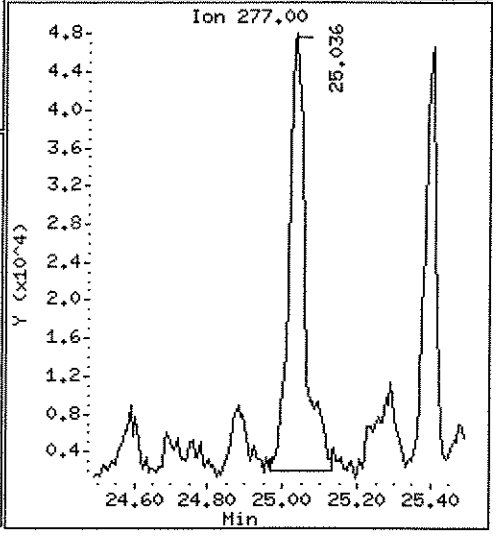












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

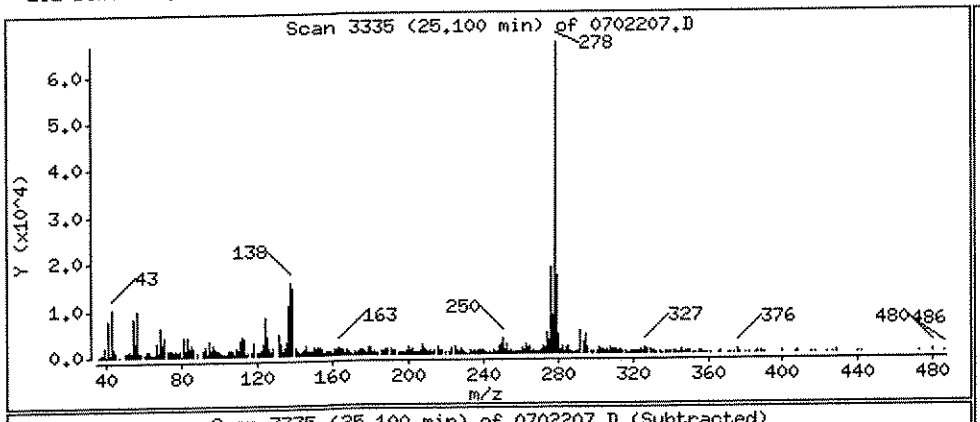
Operator: SDB

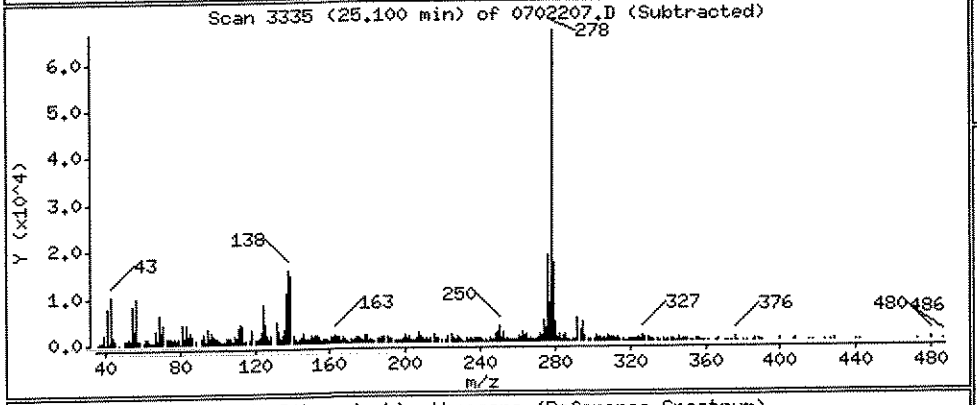
Column phase: fused silica

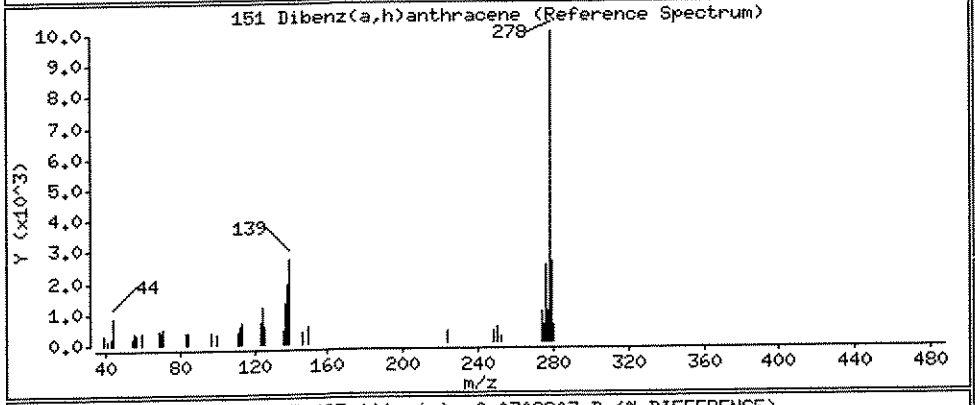
Column diameter: 0.25

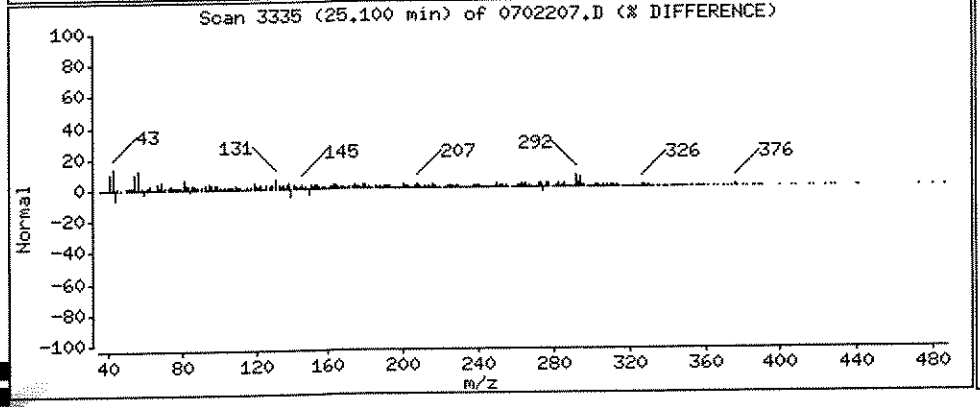
151 Dibenz(a,h)anthracene

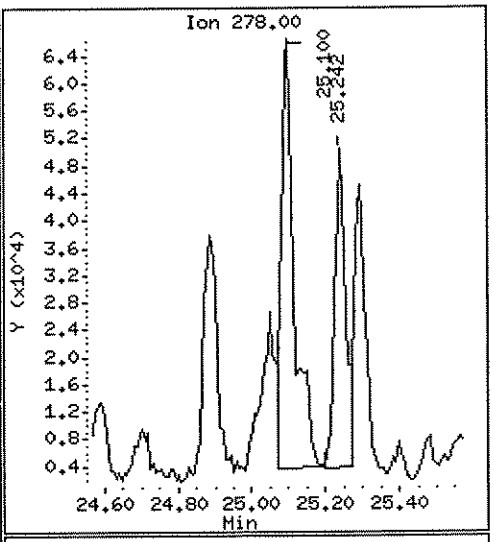
Concentration: 2499 UG/KG

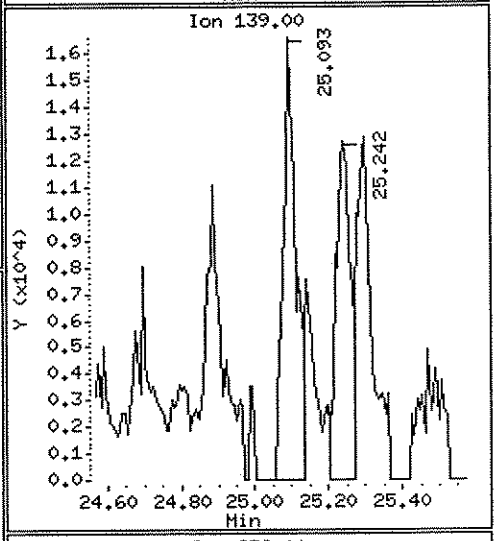


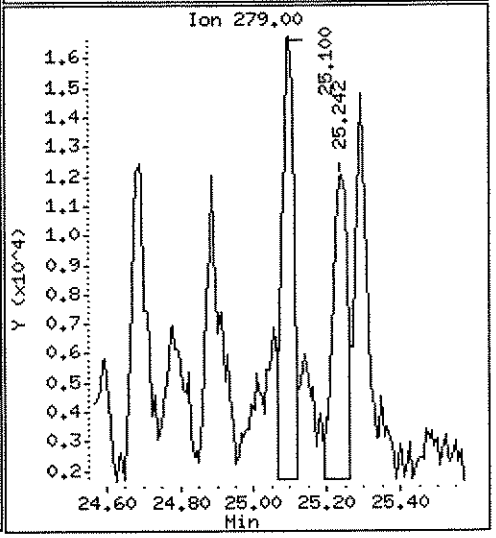












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

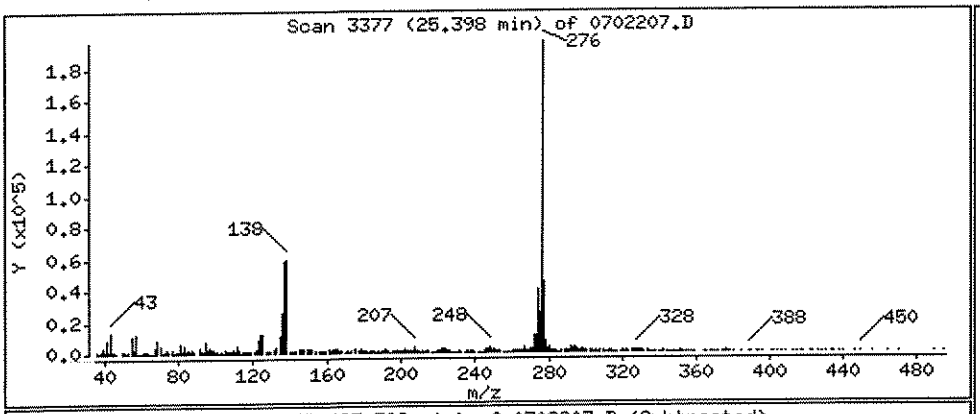
Operator: SDB

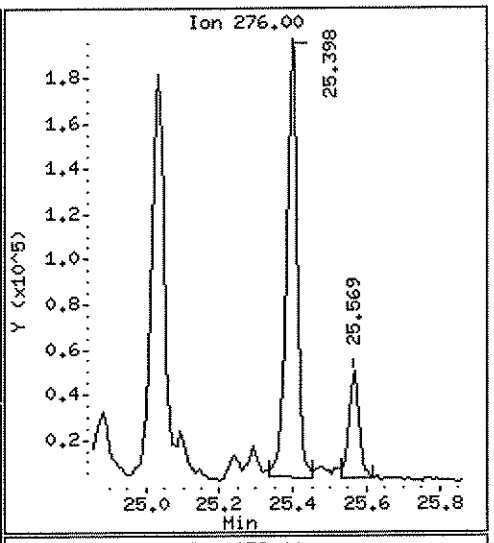
Column phase: fused silica

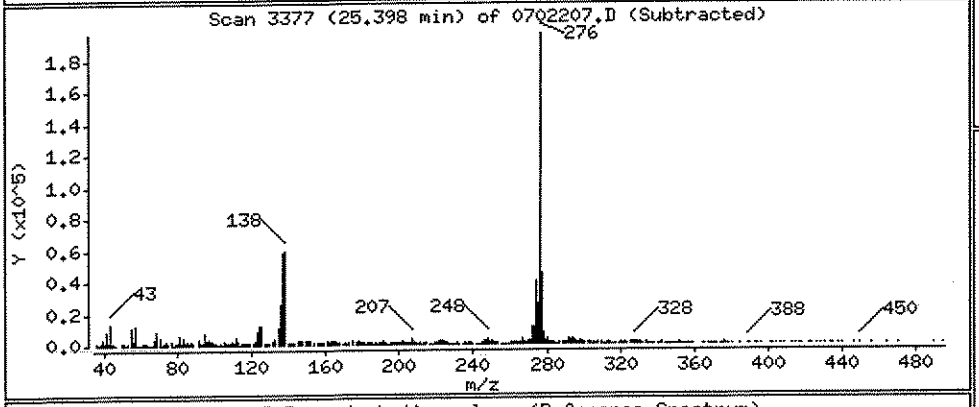
Column diameter: 0.25

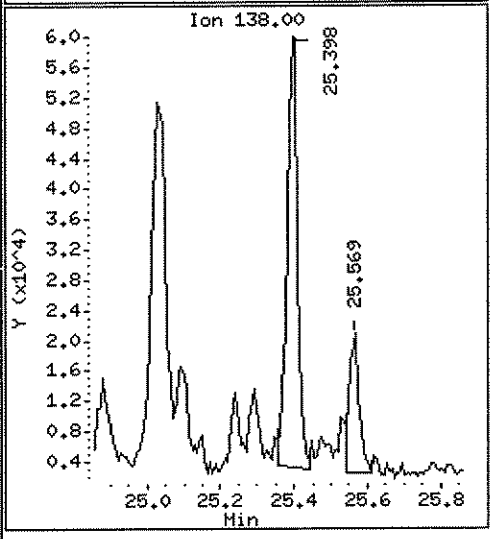
152 Benzo(g,h,i)perylene

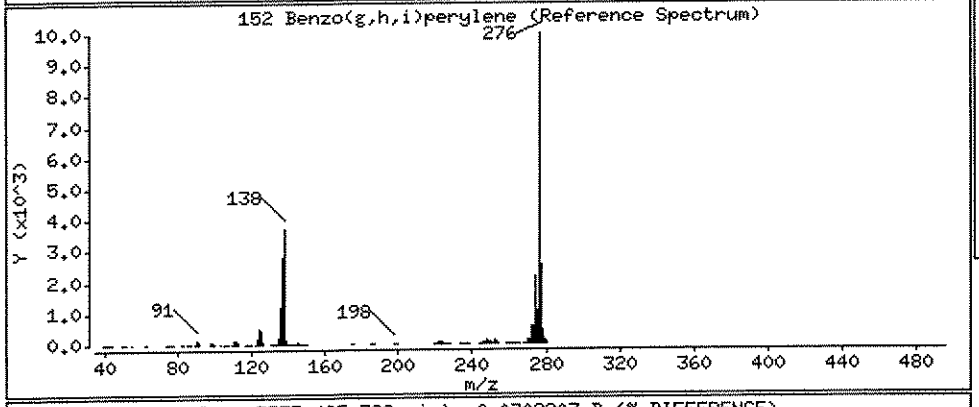
Concentration: 6165 UG/KG

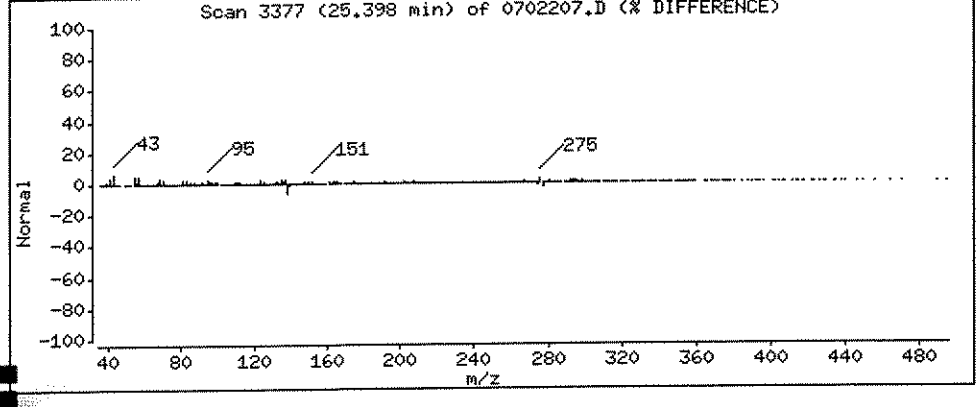












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM05S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	2000	17000	6900	JD
208-96-8	Acenaphthylene	2000	17000		UD
120-12-7	Anthracene	2000	17000	7300	JD
56-55-3	Benzo(a)anthracene	2000	17000	27000	D
205-99-2	Benzo(b)fluoranthene	2000	17000	31000	D
207-08-9	Benzo(k)fluoranthene	2000	17000	14000	JD
191-24-2	Benzo(g,h,i)perylene	2000	17000	14000	JD
50-32-8	Benzo(a)pyrene	2000	10000	24000	D
218-01-9	Chrysene	2000	17000	34000	D
53-70-3	Dibenz(a,h)anthracene	2000	10000	4400	JD
206-44-0	Fluoranthene	2000	17000	71000	D
86-73-7	Fluorene	2000	17000	6200	JD
193-39-5	Indeno(1,2,3-cd)pyrene	2000	17000	15000	JD
91-57-6	2-Methylnaphthalene	2000	17000		UD
90-12-0	1-Methylnaphthalene	5100	17000		UD
91-20-3	Naphthalene	2000	17000		UD
85-01-8	Phenanthrene	2000	17000	42000	D
129-00-0	Pyrene	2000	17000	54000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 11-JUL-2006 13:53
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	522989	40.0000	
* 31 Naphthalene-d8	136	5.231	5.240	(1.000)	1812935	40.0000	
* 65 Acenaphthene-d10	164	7.639	7.641	(1.000)	891228	40.0000	
76 Acenaphthene	153	7.688	7.703	(1.006)	52041	2.02327	6864(a)
84 Fluorene	166	8.721	8.727	(1.142)	50465	1.83440	6224(a)
* 97 Phenanthrene-d10	188	10.922	10.923	(1.000)	1162136	40.0000	
106 Phenanthrene	178	10.971	10.986	(1.004)	414746	12.5169	42460
107 Anthracene	178	11.080	11.096	(1.014)	70372	2.15119	7298(a)
110 Fluoranthene	202	14.186	14.195	(1.299)	683632	20.8393	70700
* 124 Chrysene-d12	240	18.328	18.333	(1.000)	943983	40.0000	
126 Pyrene	202	14.763	14.770	(0.805)	596367	15.8190	53670
130 Benzo(a)anthracene	228	18.279	18.291	(0.997)	243549	8.00747	27170
131 Chrysene	228	18.390	18.409	(1.003)	278211	10.0149	33980

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Report Date: 12-Jul-2006 12:13

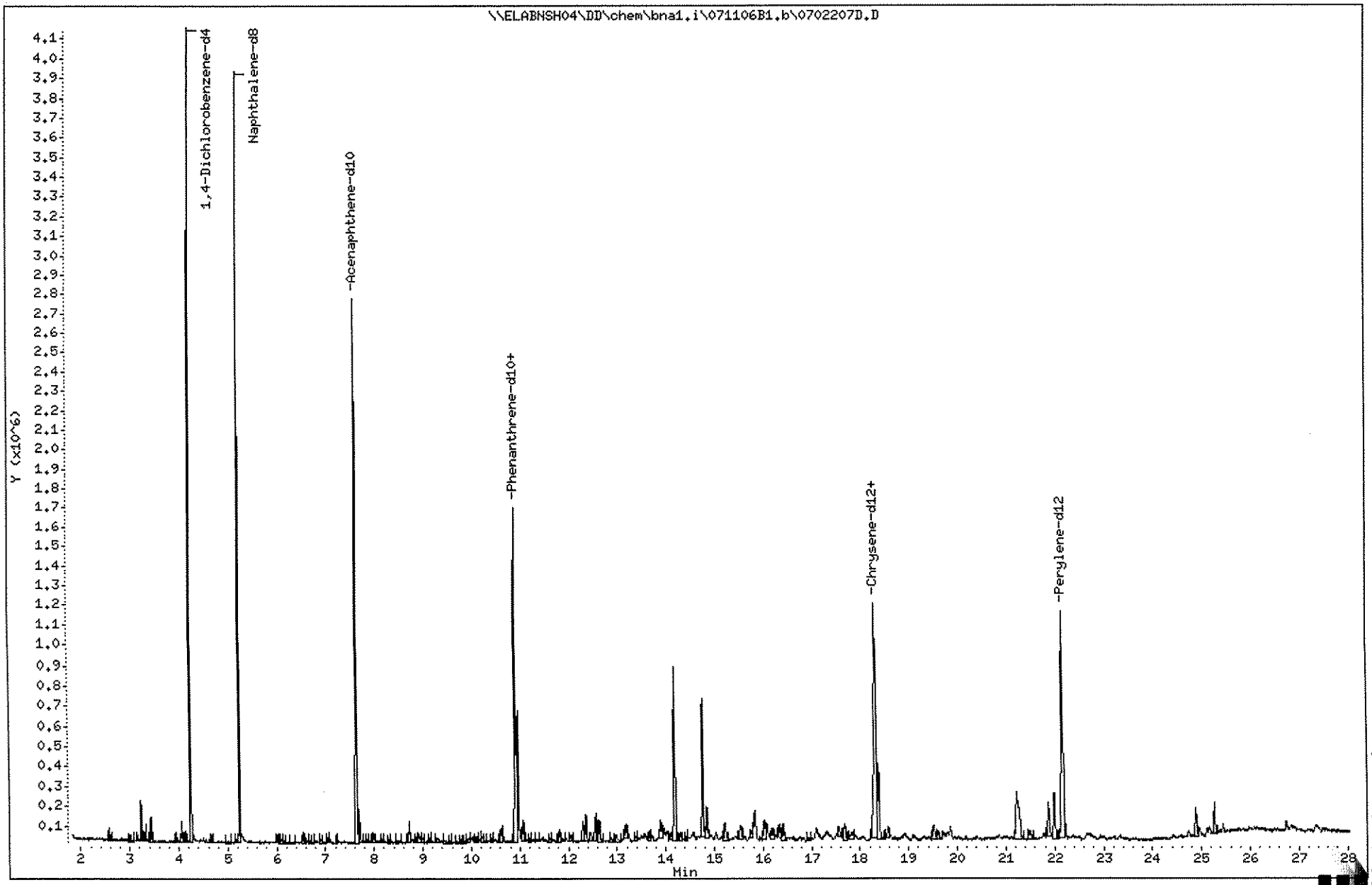
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.170	22.175	(1.000)	967641	40.0000	
147 Benzo(b)fluoranthene	252	21.230	21.248	(0.958)	273219	9.16610	31100(M)
148 Benzo(k)fluoranthene	252	21.279	21.317	(0.960)	128536	4.15632	14100(aM)
149 Benzo(a)pyrene	252	21.990	22.017	(0.992)	184296	7.17017	24330
150 Indeno(1,2,3-cd)pyrene	276	24.888	24.921	(1.123)	98699	4.50074	15270(a)
151 Dibenz(a,h)anthracene	278	24.971	24.998	(1.126)	28524	1.29203	4383(a)
152 Benzo(g,h,i)perylene	276	25.270	25.301	(1.140)	91771	4.03261	13680(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Date : 11-JUL-2006 13:53
Client ID: 51CFM05S060706
Instrument: bna1.i
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000207



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Data File: \\ELABNSHO4\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

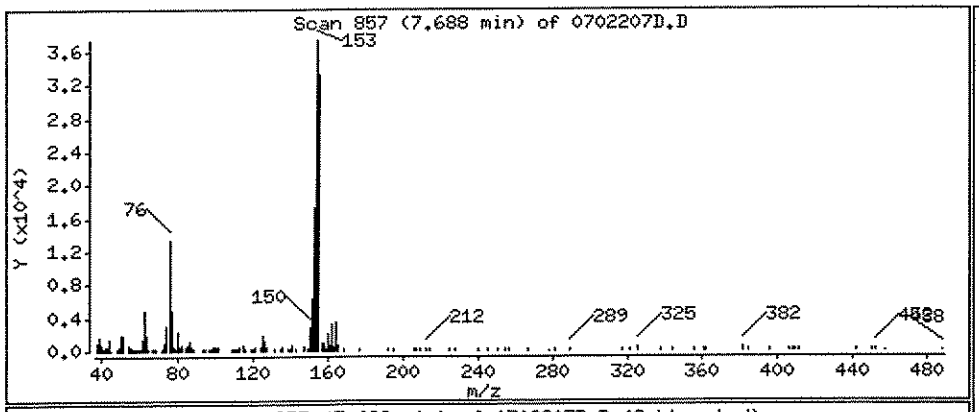
Client ID: 51CFM05S060706 Instrument: bna1.i

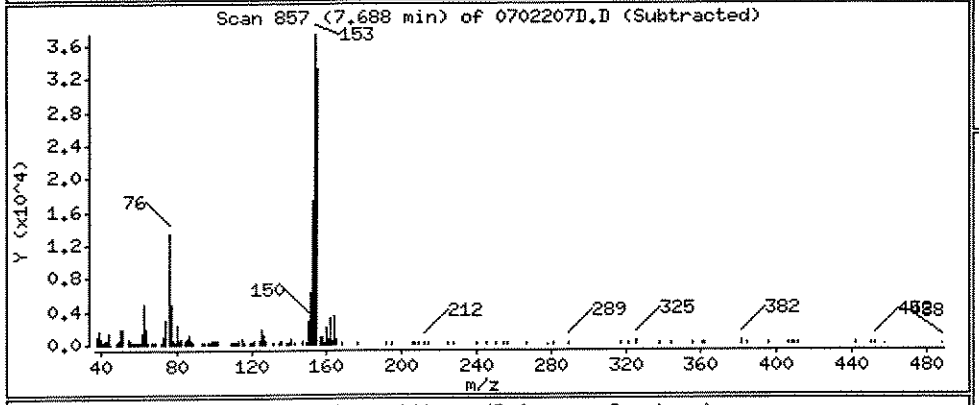
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

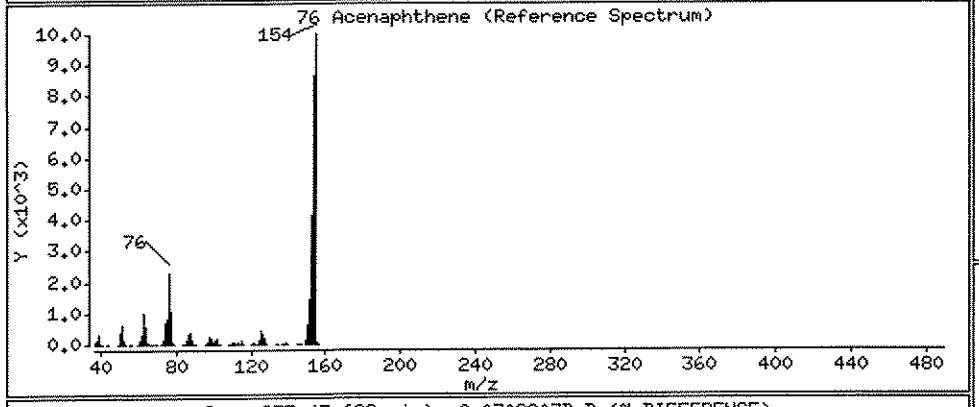
Volume Injected (uL): 0.5 Operator: SDB

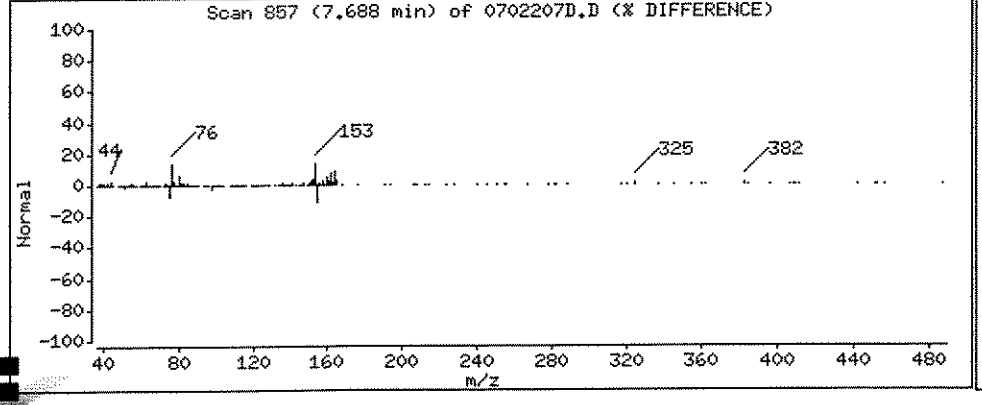
Column phase: fused silica Column diameter: 0.25

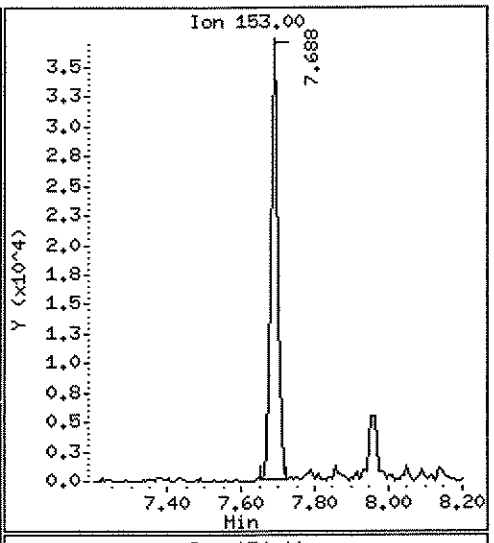
76 Acenaphthene Concentration: 6864 UG/KG

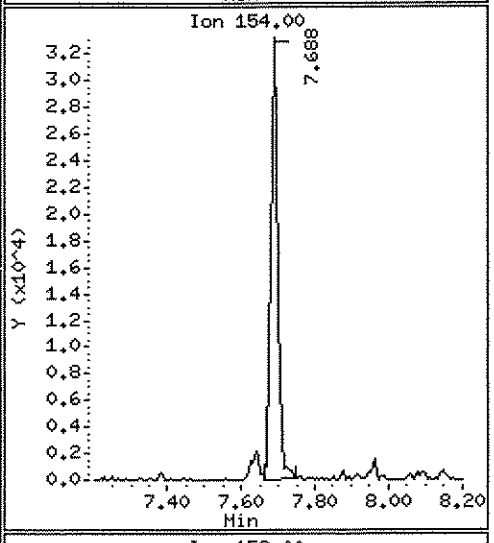


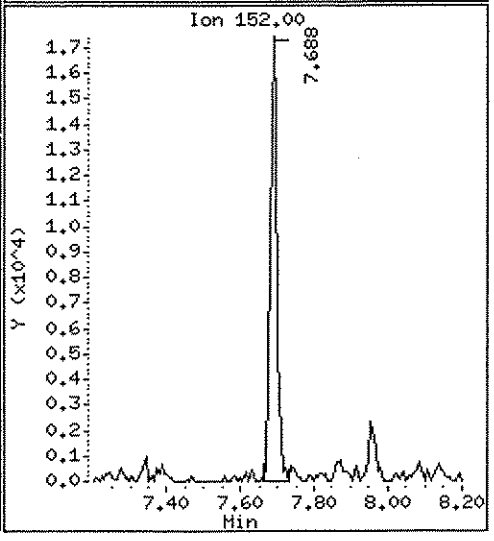












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

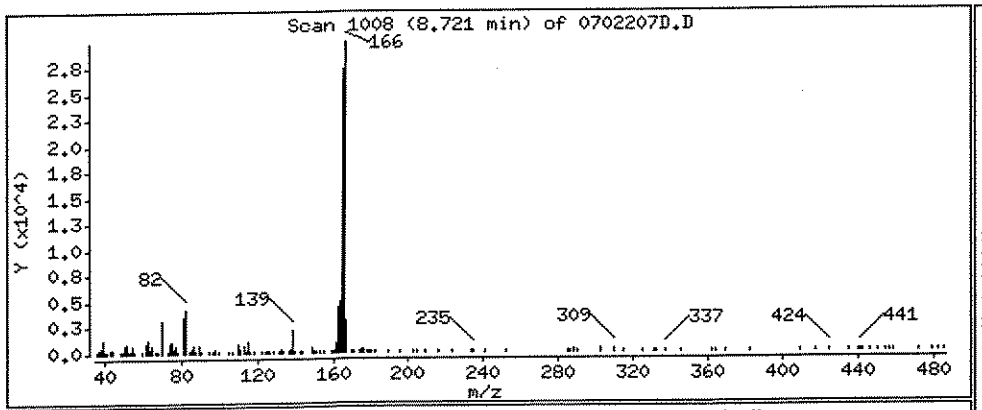
Operator: SDB

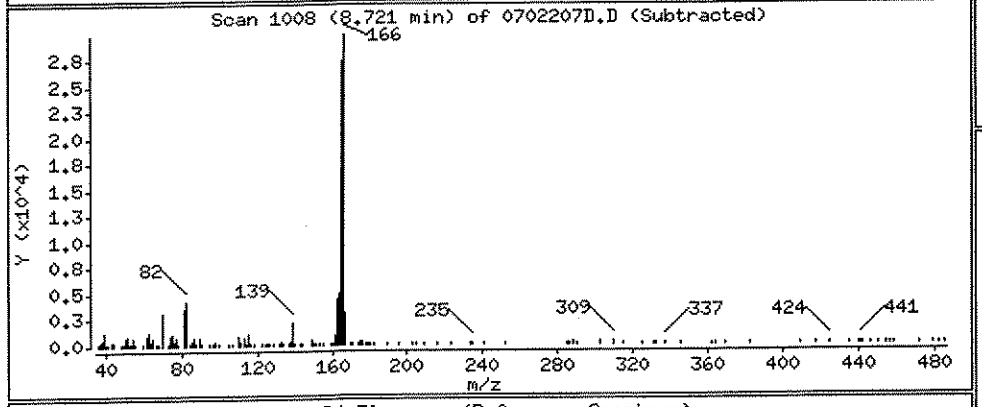
Column phase: fused silica

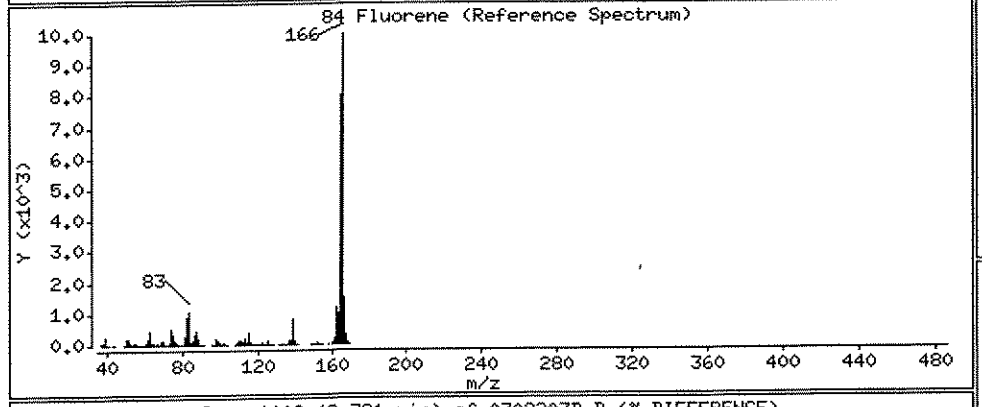
Column diameter: 0.25

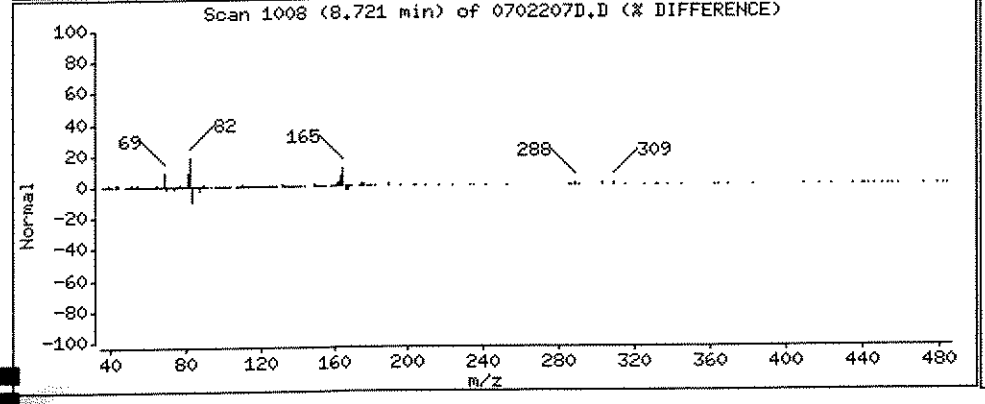
84 Fluorene

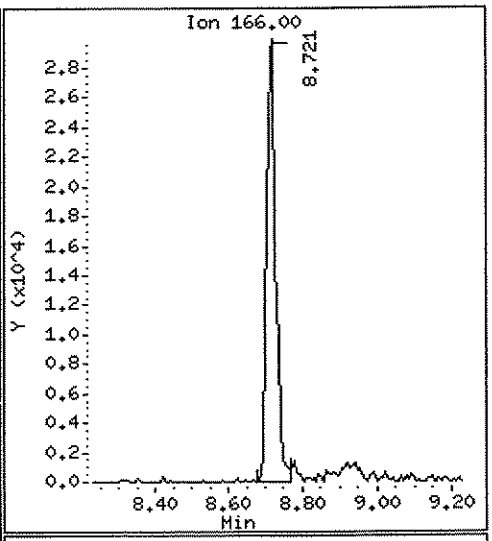
Concentration: 6224 UG/KG

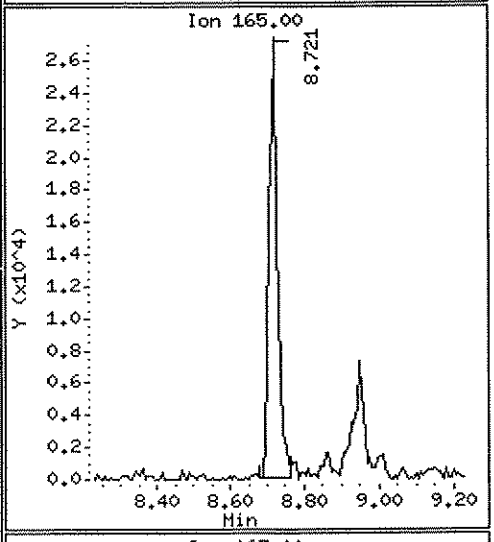


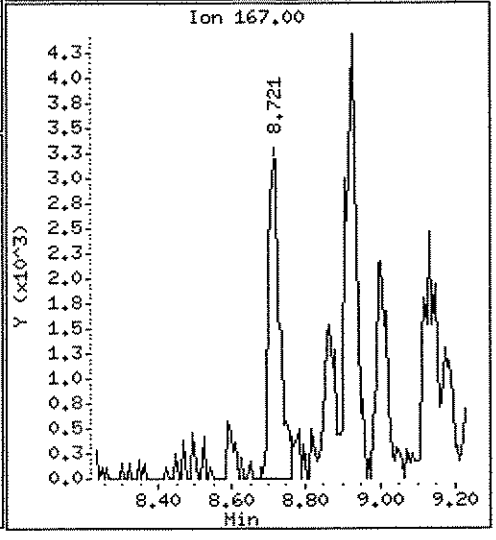












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000209

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Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

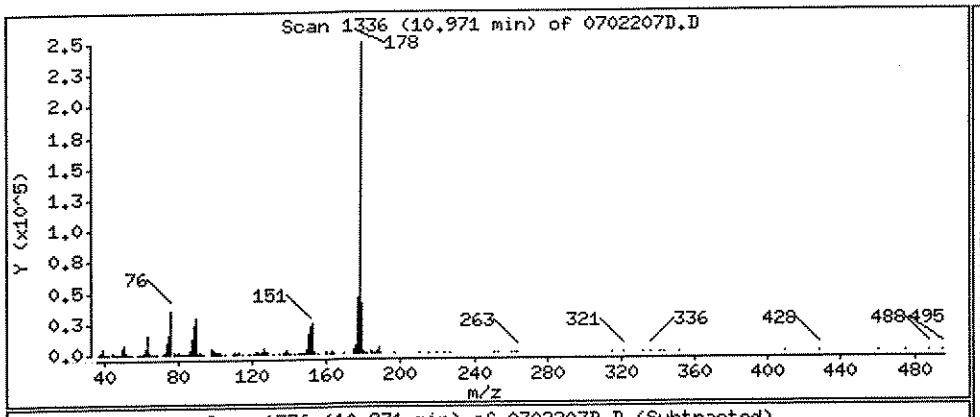
Operator: SDB

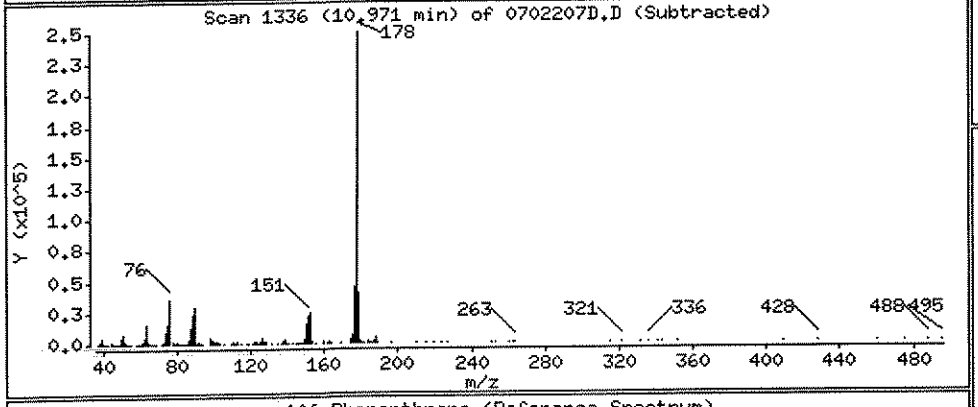
Column phase: fused silica

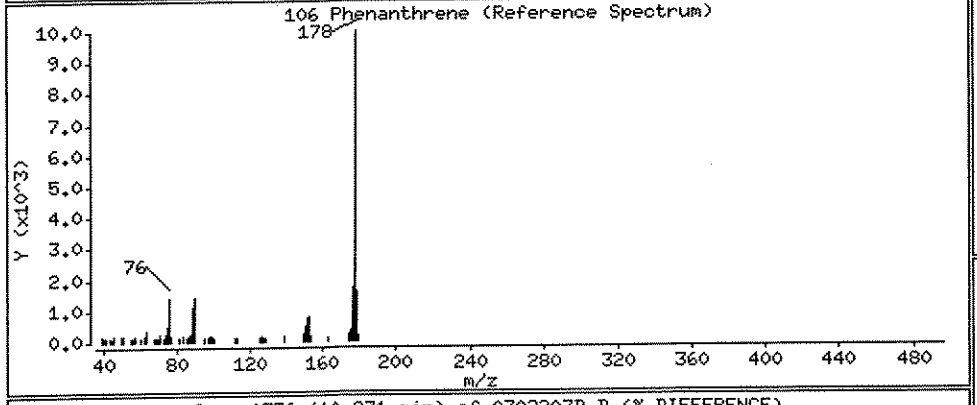
Column diameter: 0.25

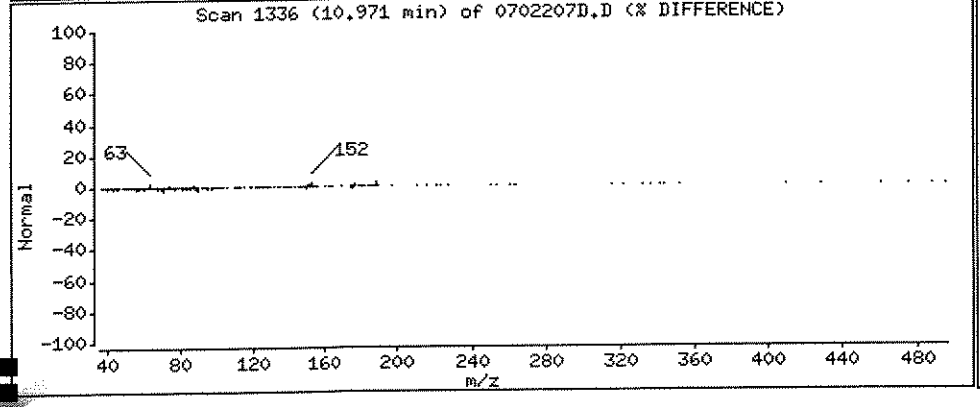
106 Phenanthrene

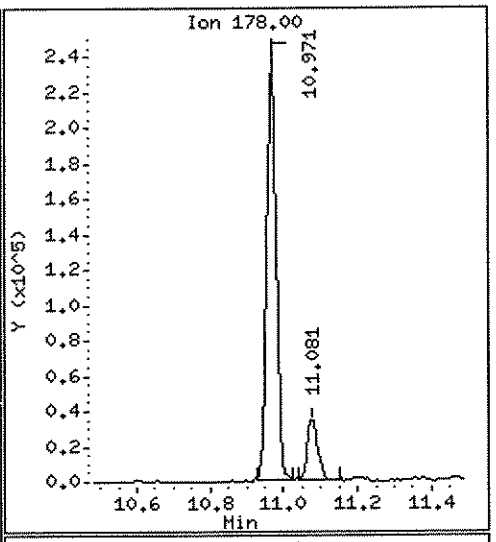
Concentration: 42460 UG/KG

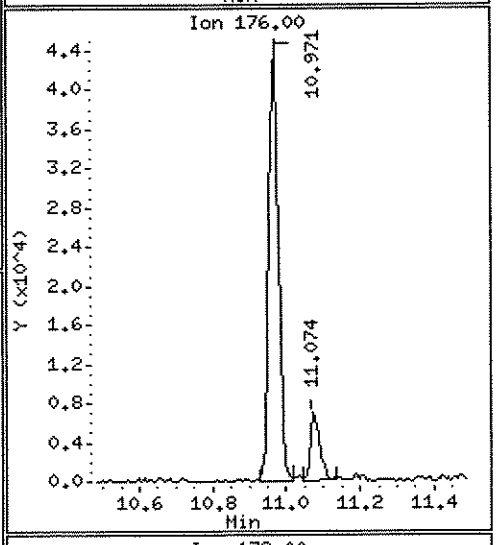


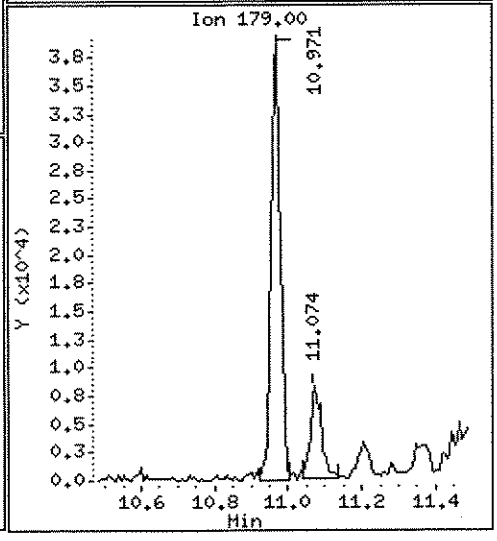












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

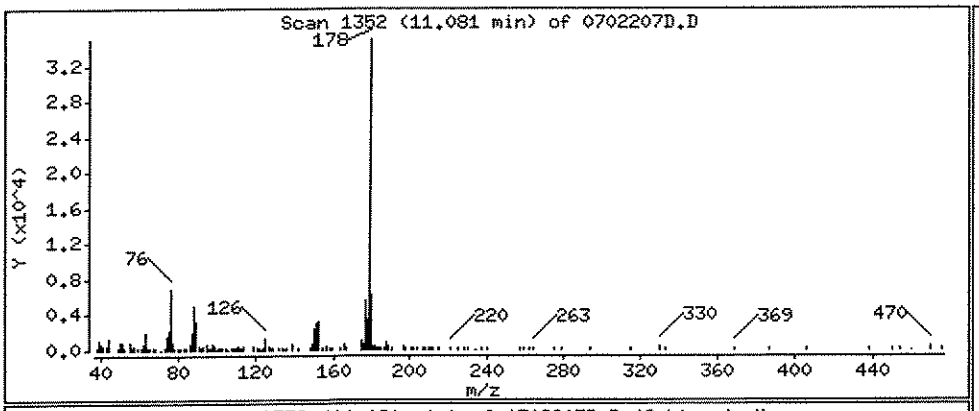
Client ID: 51CFM05S060706 Instrument: bna1.i

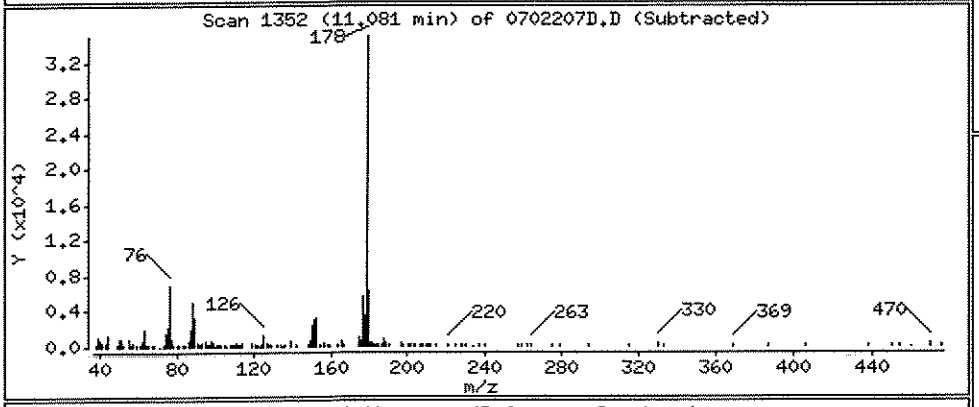
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

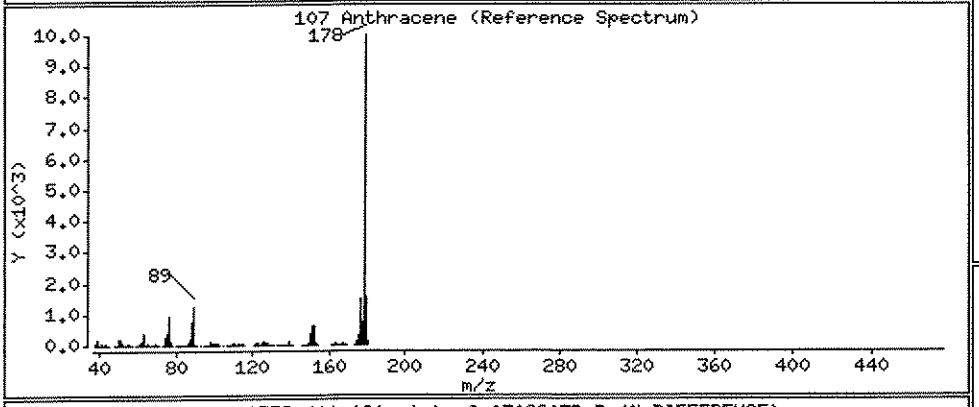
Volume Injected (uL): 0.5 Operator: SDB

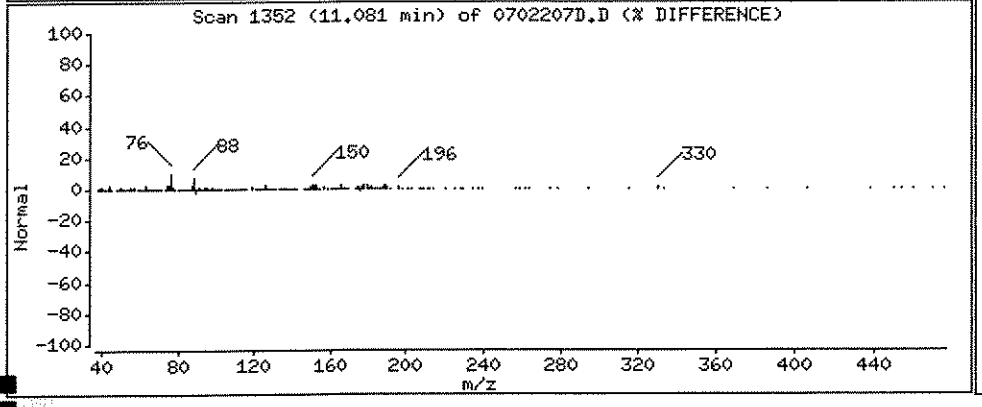
Column phase: fused silica Column diameter: 0.25

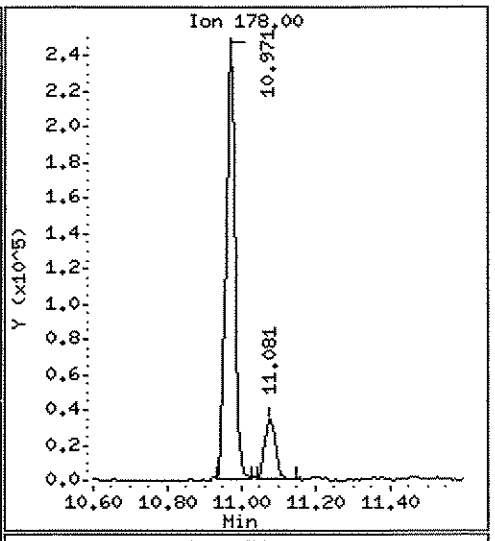
107 Anthracene Concentration: 7298 UG/KG

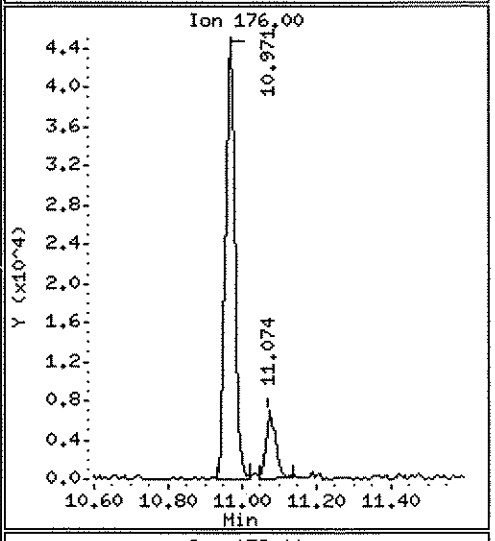


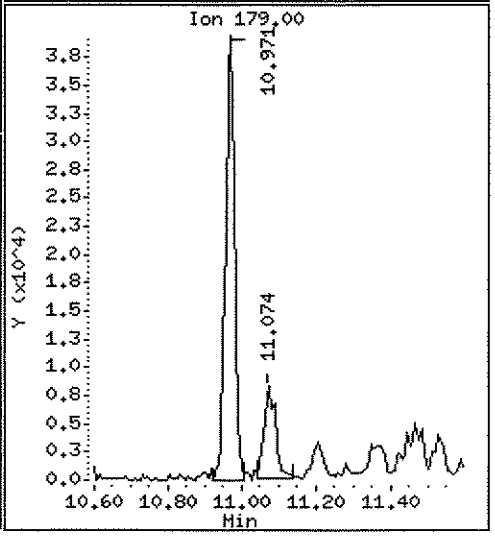












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

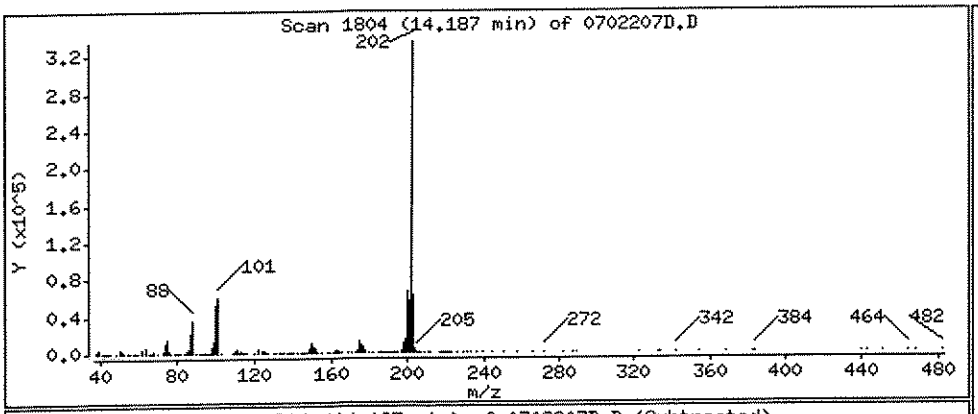
Operator: SDB

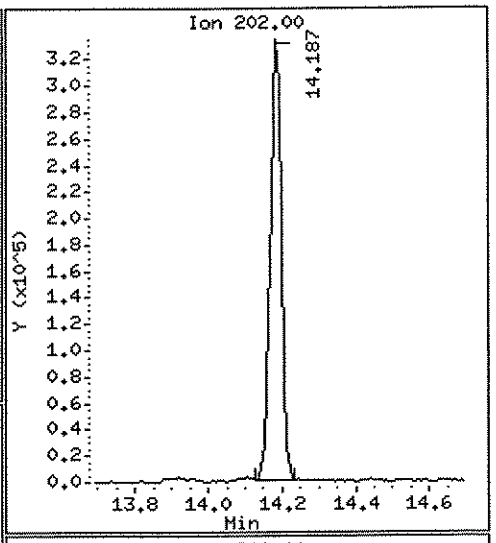
Column phase: fused silica

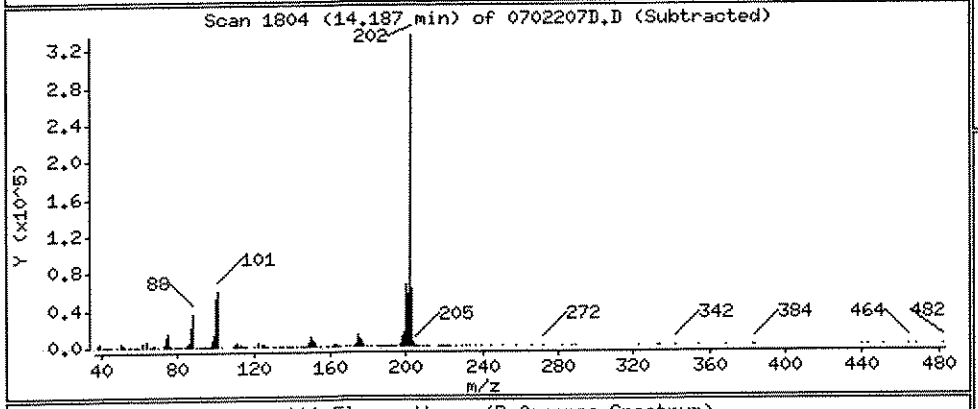
Column diameter: 0.25

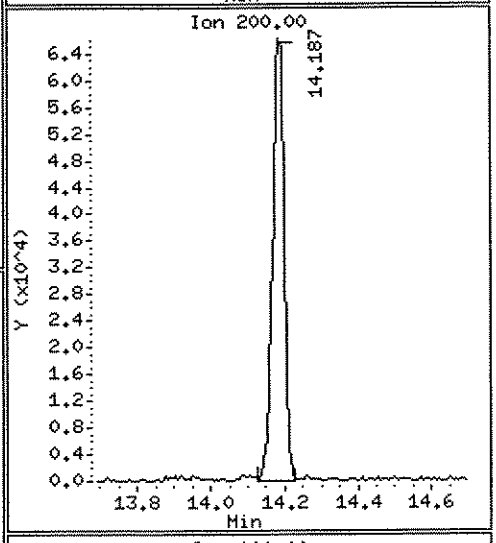
110 Fluoranthene

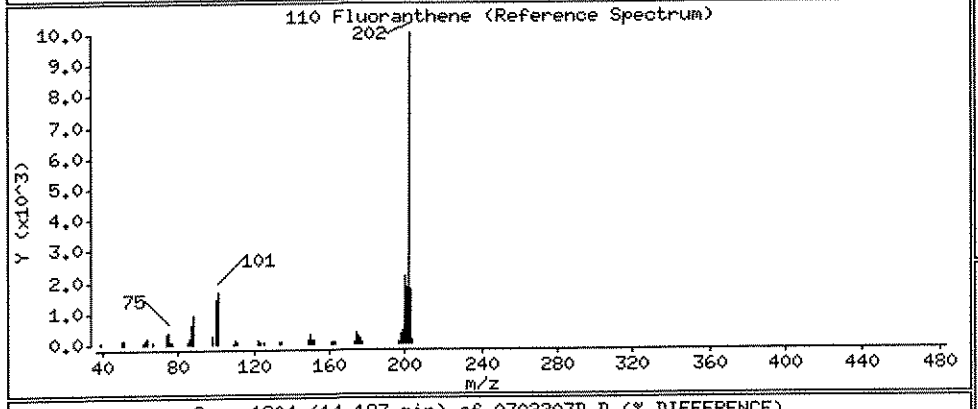
Concentration: 70700 UG/KG

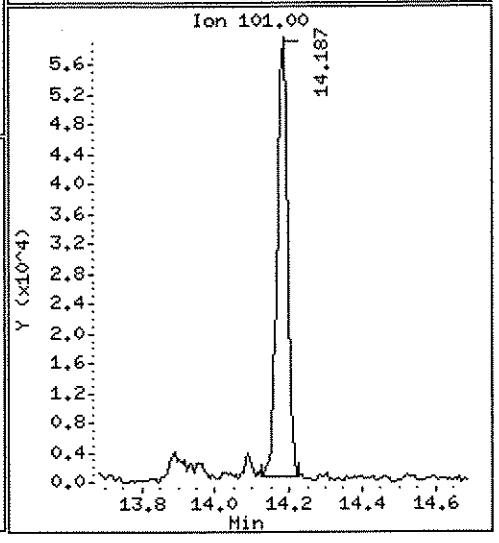


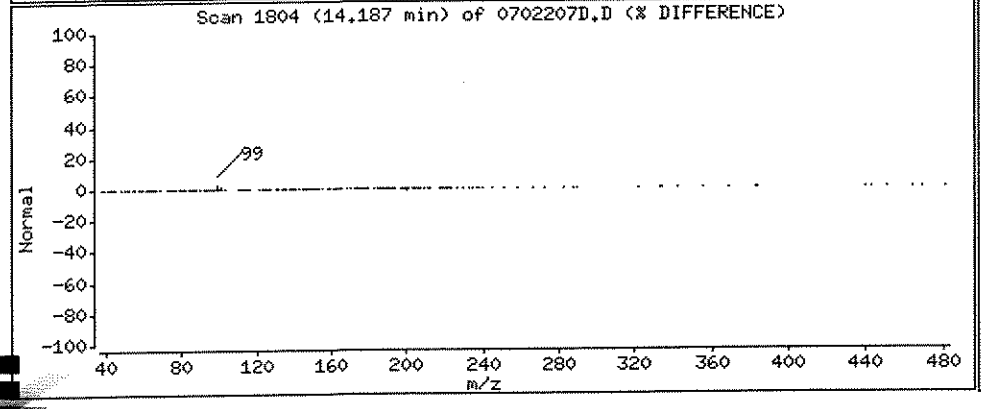












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

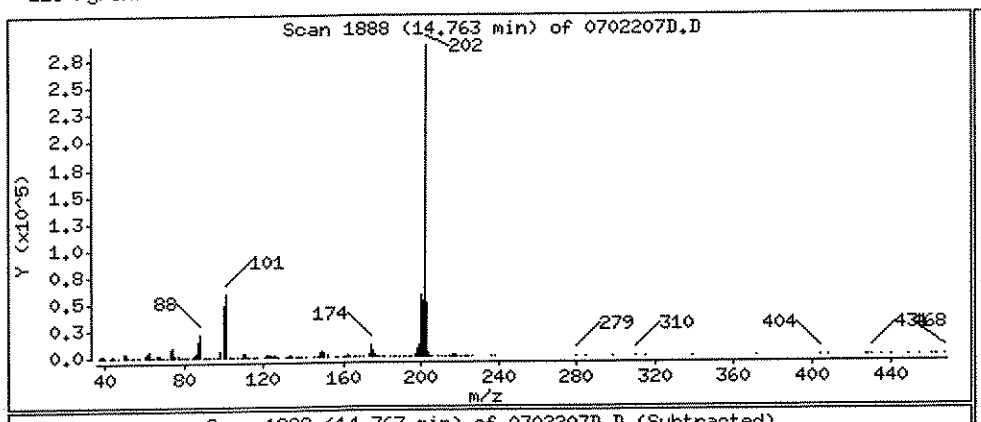
Operator: SDB

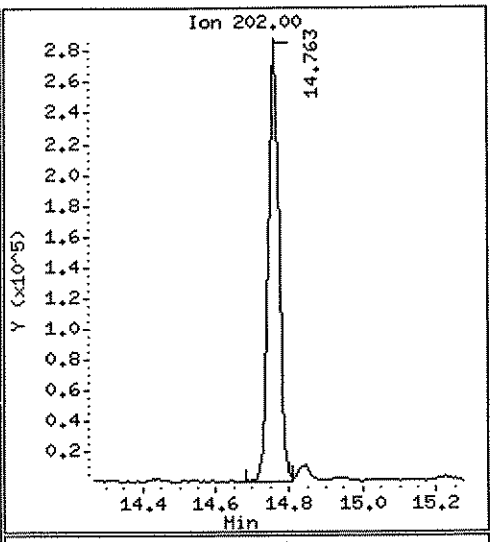
Column phase: fused silica

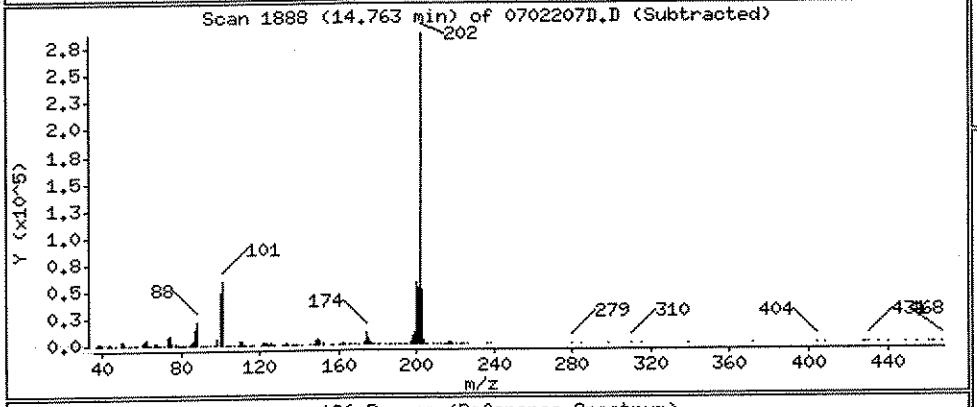
Column diameter: 0.25

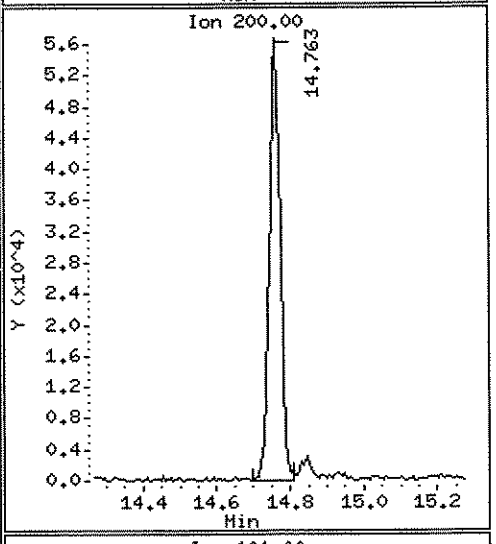
126 Pyrene

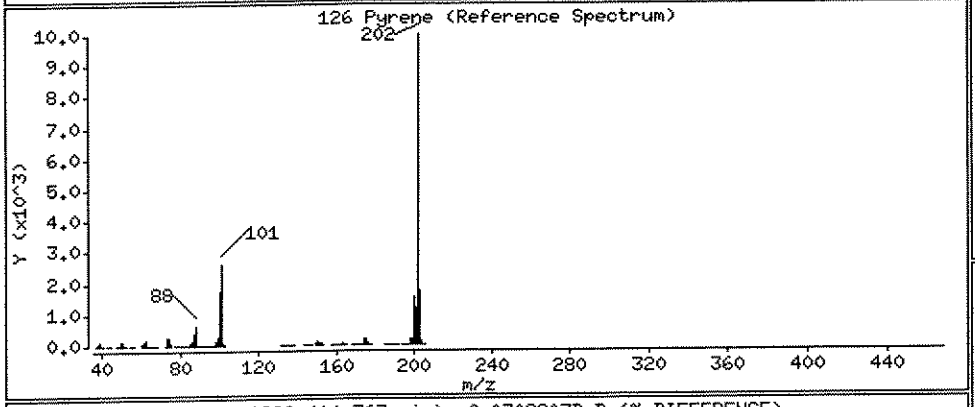
Concentration: 53670 UG/KG

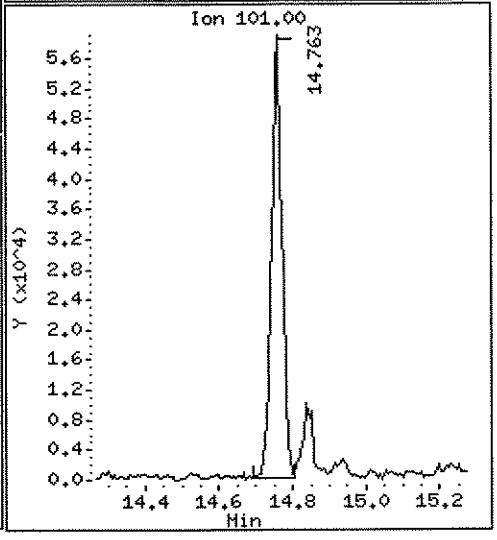


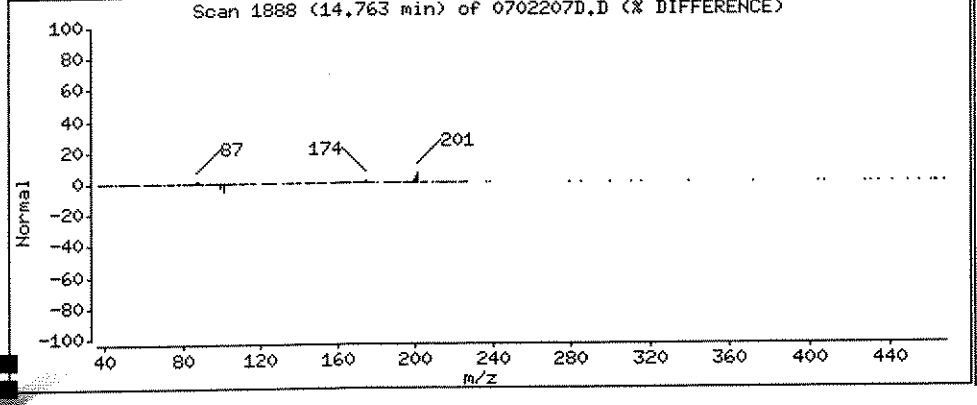












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

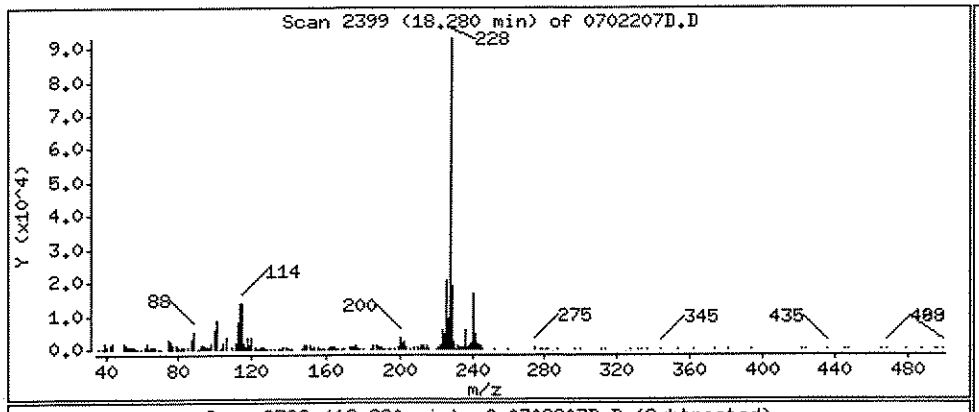
Client ID: 51CFM05S060706 Instrument: bna1.i

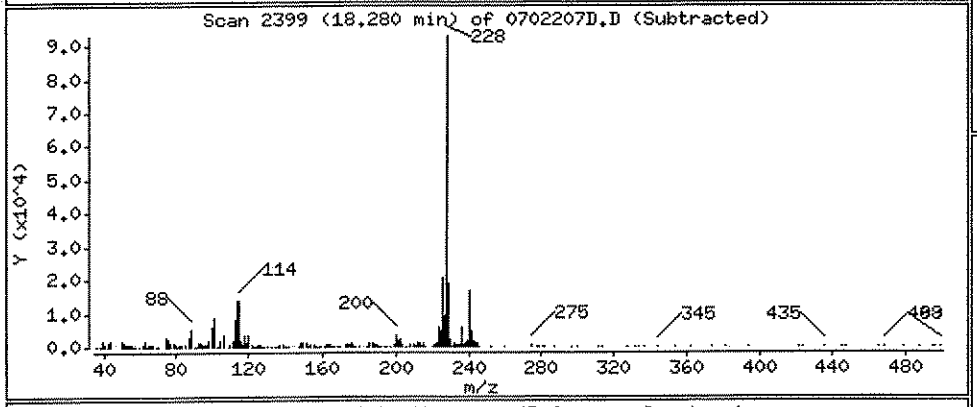
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

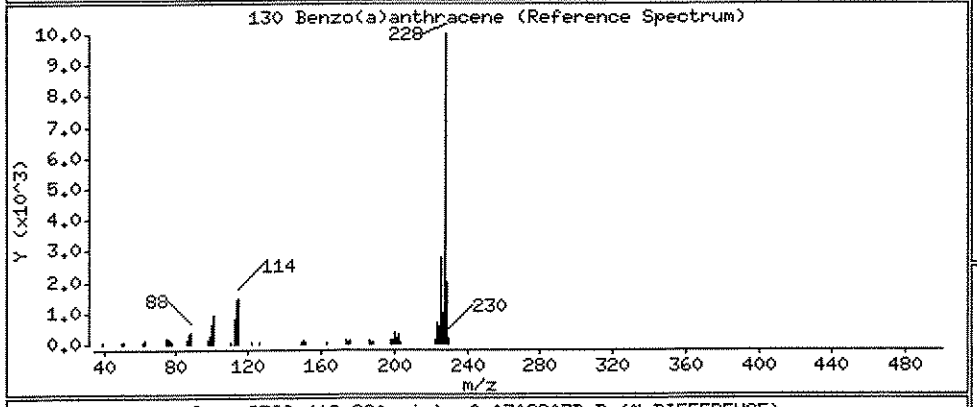
Volume Injected (uL): 0.5 Operator: SDB

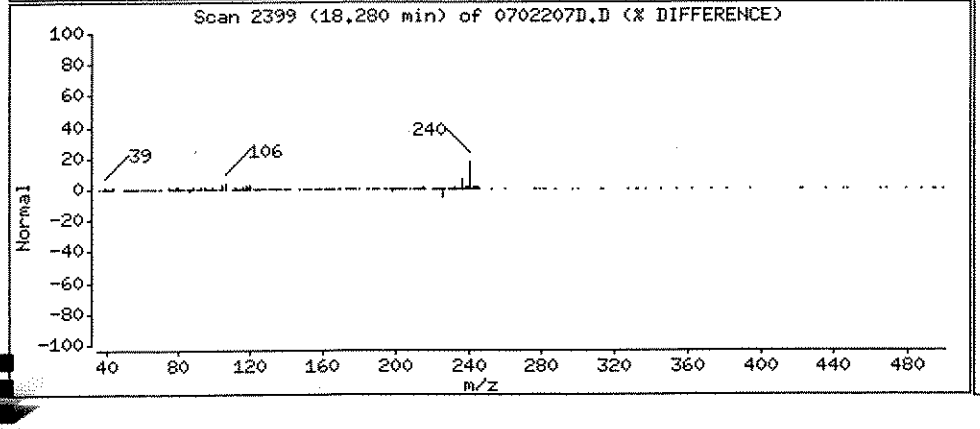
Column phase: fused silica Column diameter: 0.25

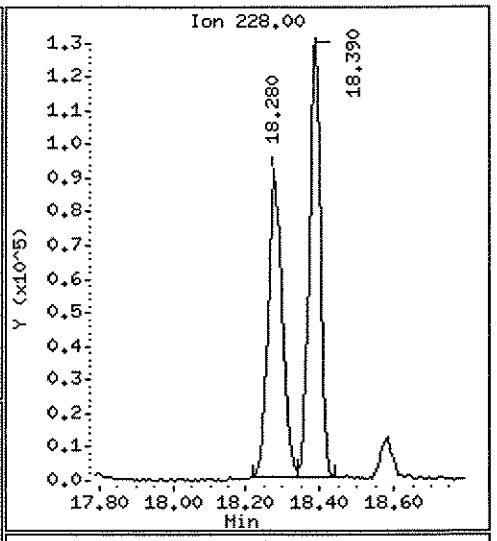
130 Benzo(a)anthracene Concentration: 27170 UG/KG

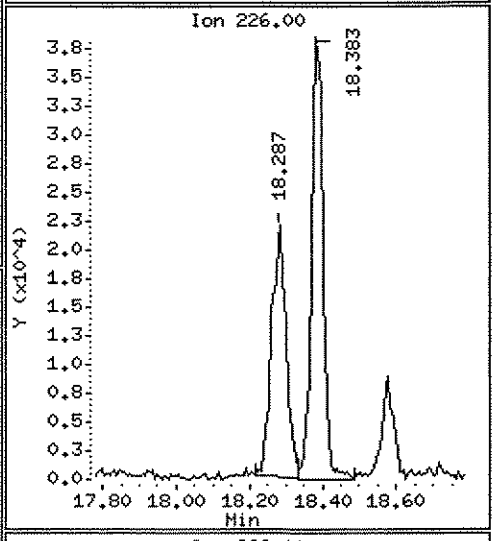


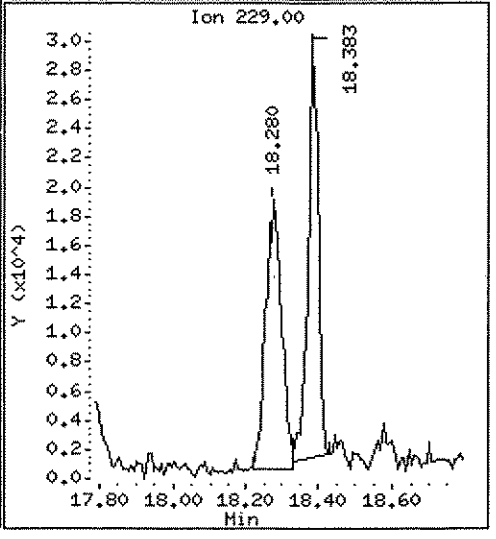












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

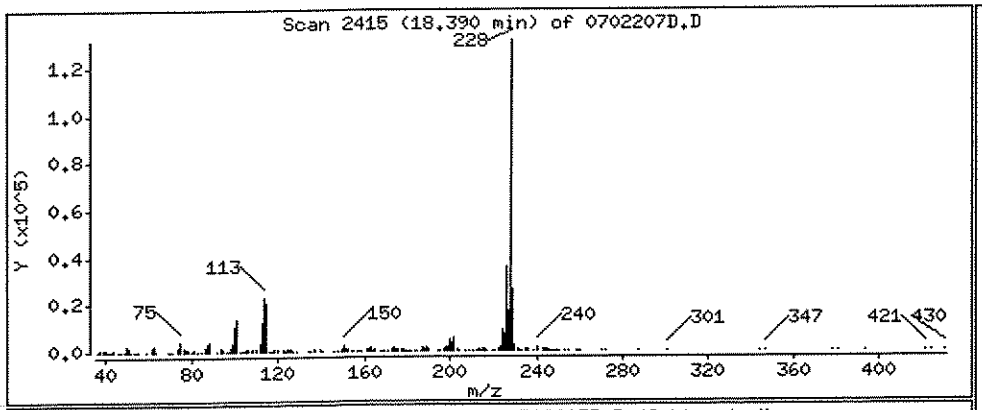
Operator: SDB

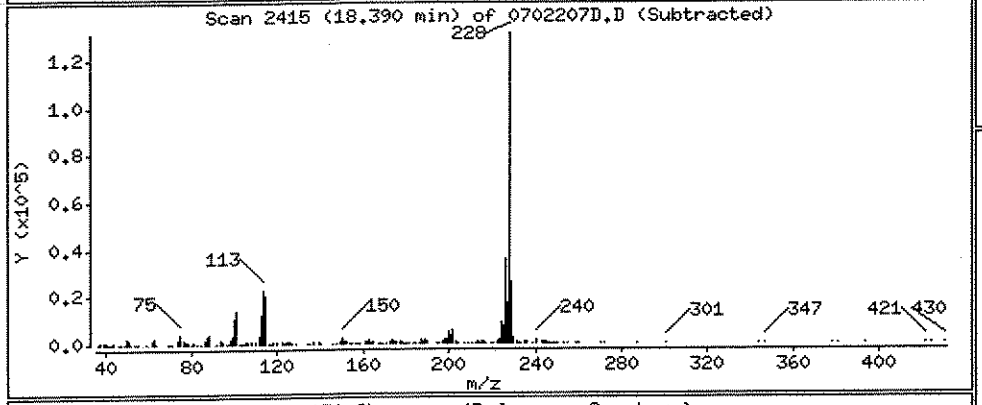
Column phase: fused silica

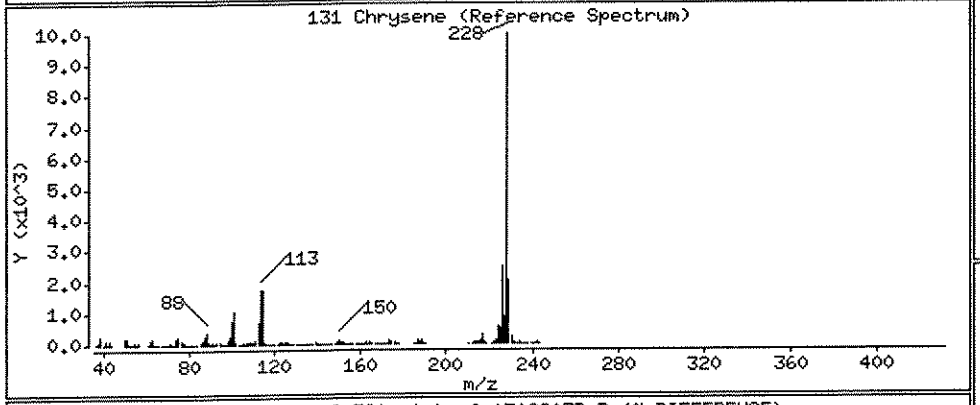
Column diameter: 0.25

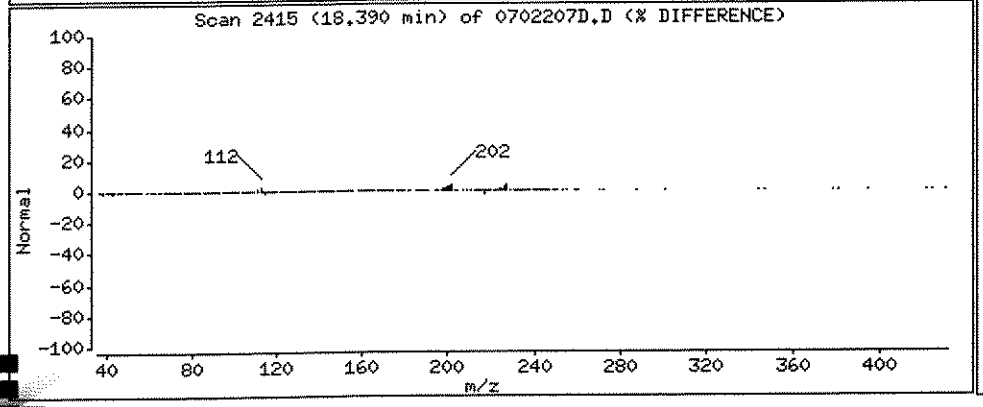
131 Chrysene

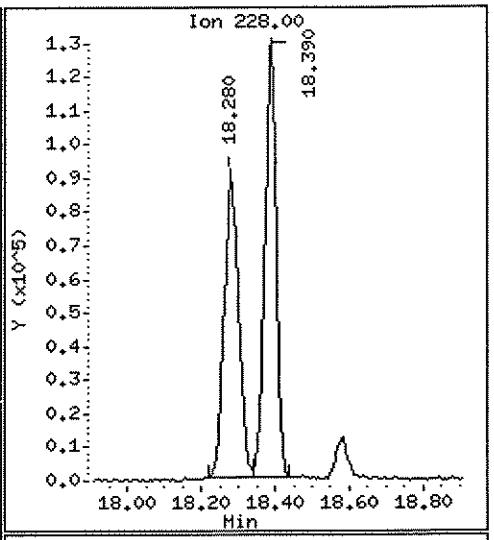
Concentration: 33980 UG/KG

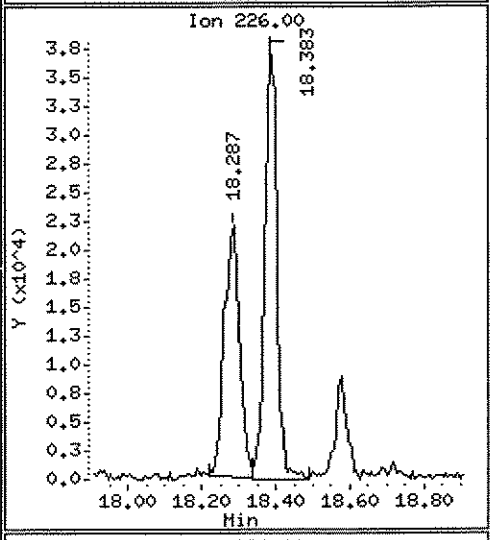


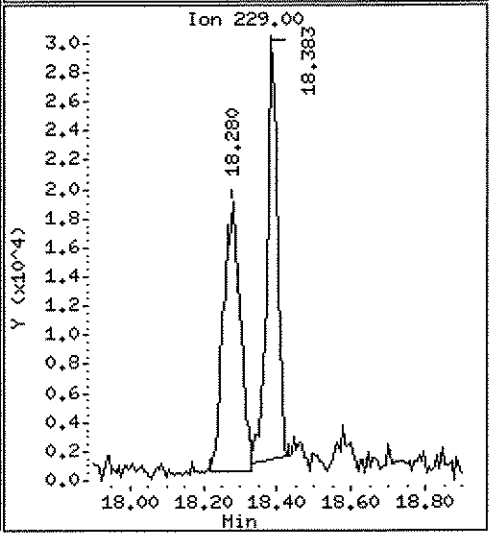












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

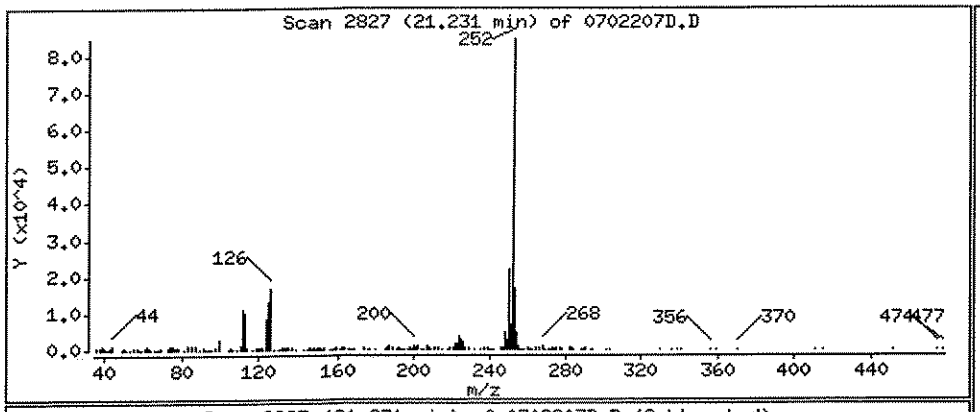
Client ID: 51CFM05S060706 Instrument: bna1.i

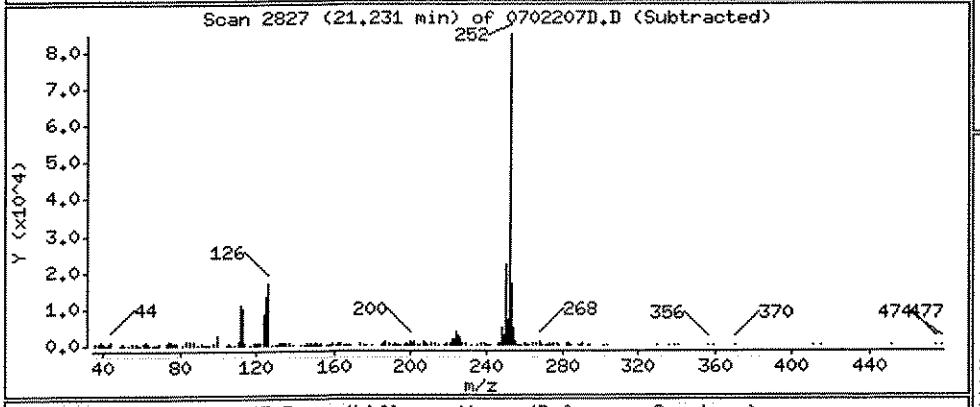
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

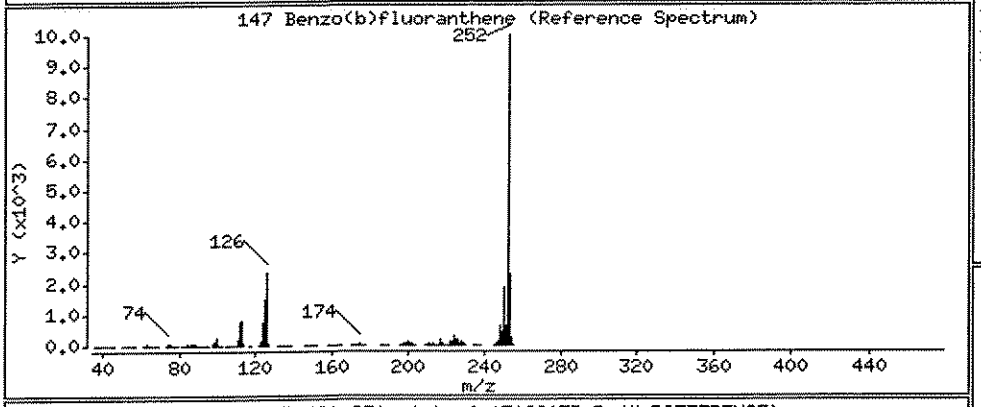
Volume Injected (uL): 0.5 Operator: SDB

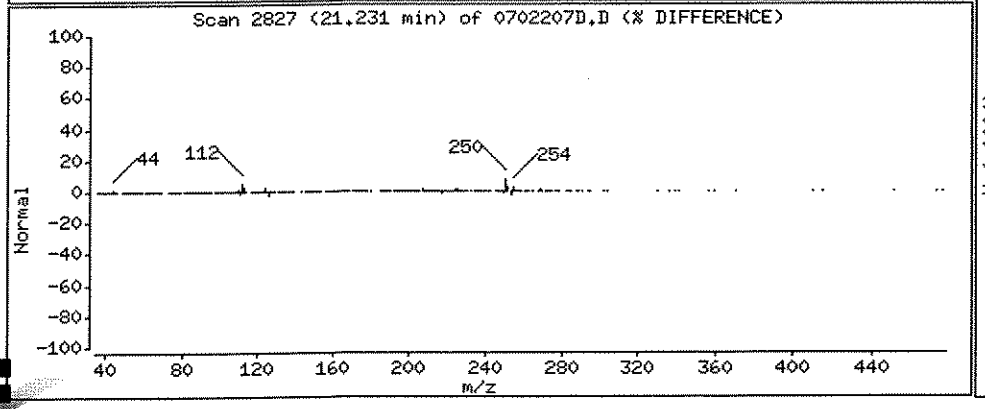
Column phase: fused silica Column diameter: 0.25

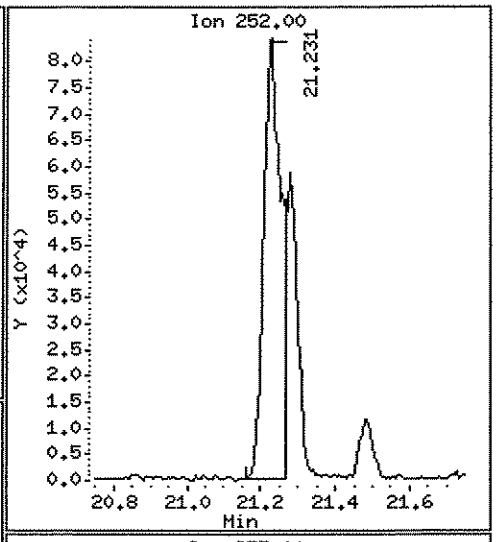
147 Benzo(b)fluoranthene Concentration: 31100 UG/KG

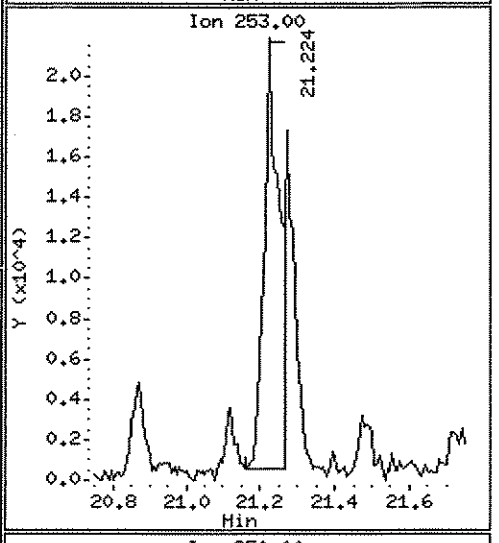


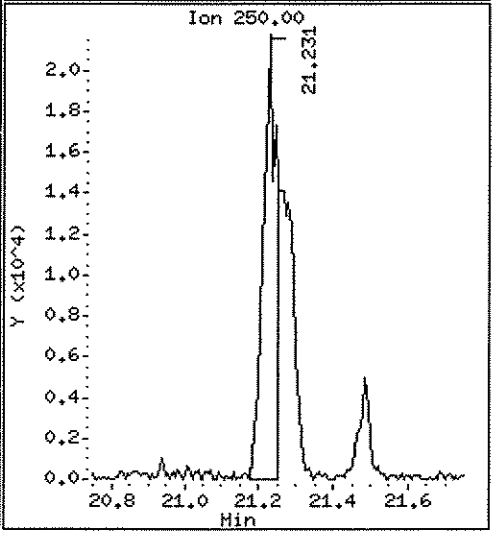












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

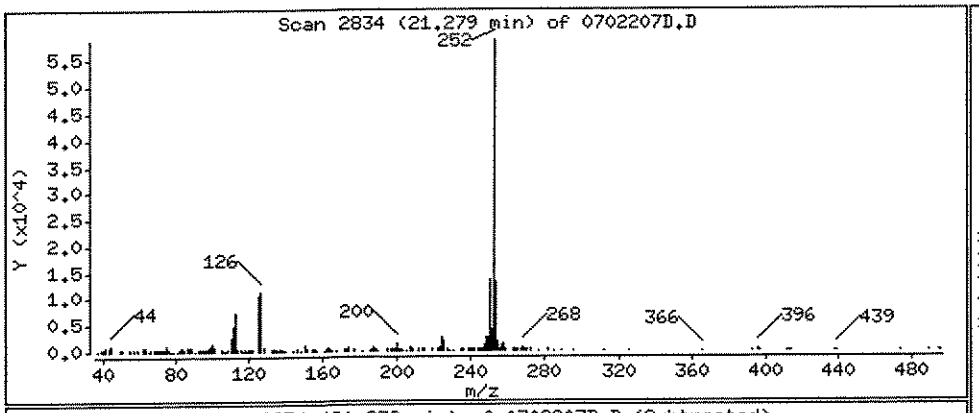
Client ID: 51CFM05S060706 Instrument: bna1.i

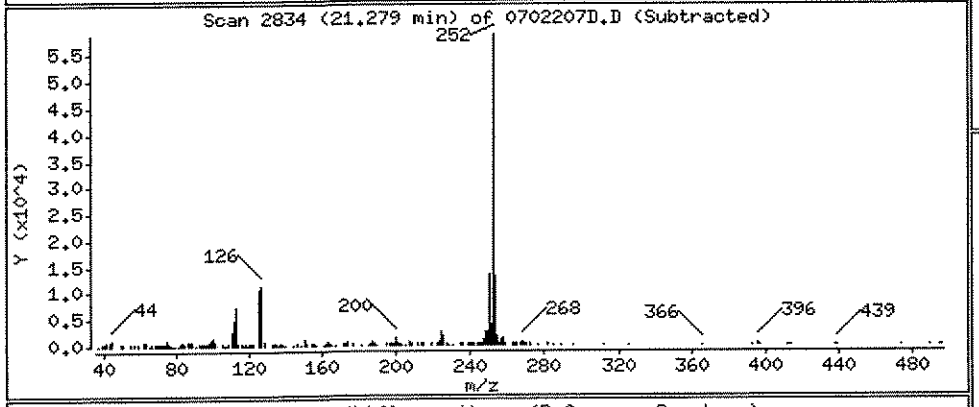
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

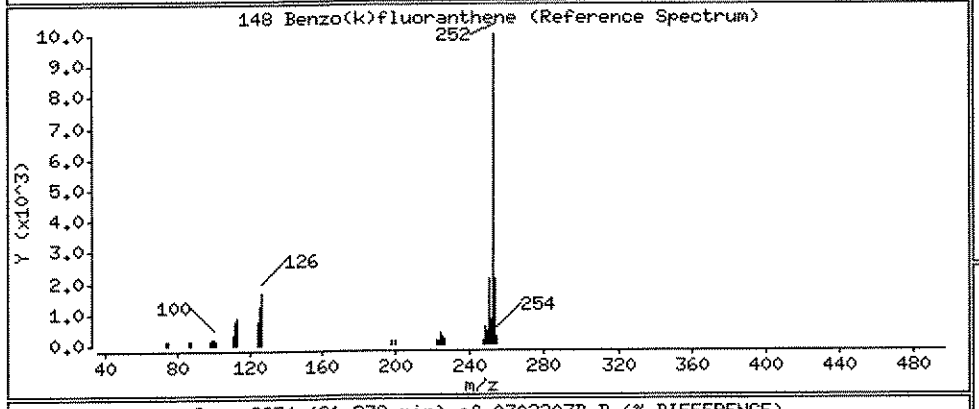
Volume Injected (uL): 0.5 Operator: SDB

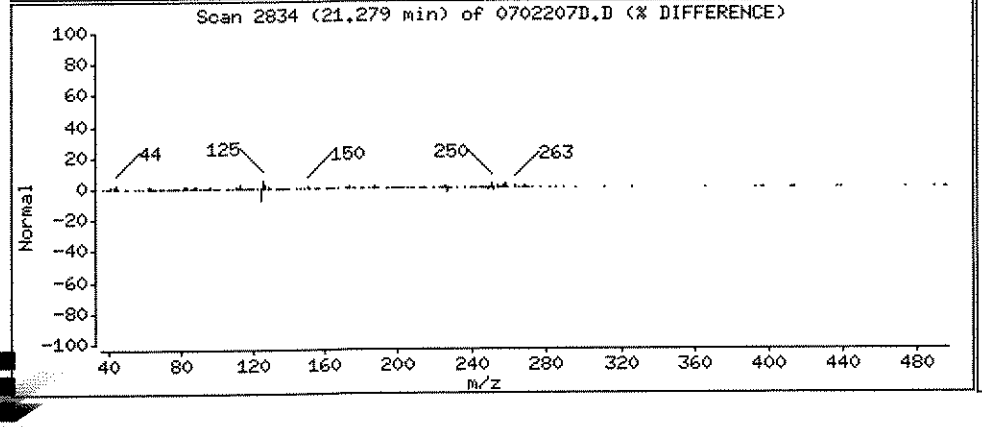
Column phase: fused silica Column diameter: 0.25

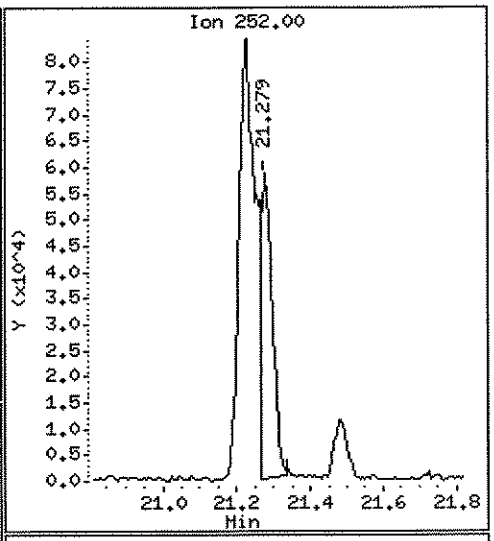
148 Benzo(k)fluoranthene Concentration: 14100 UG/KG

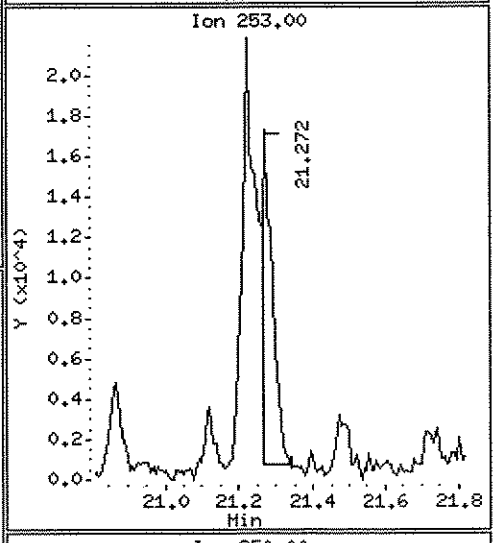


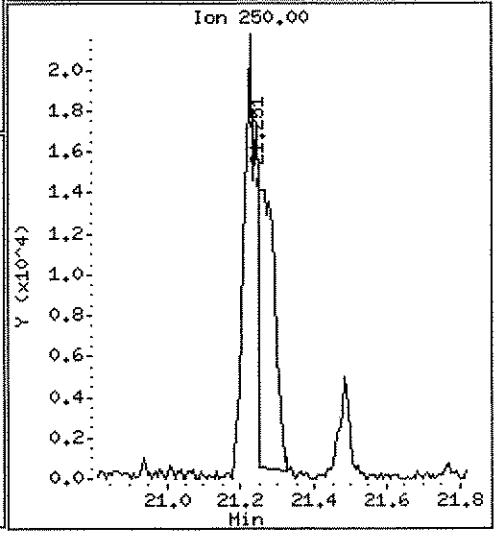












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

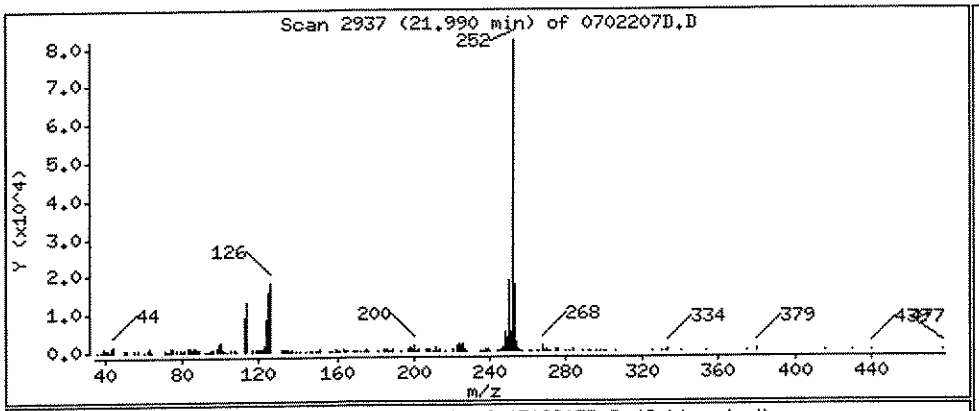
Operator: SDB

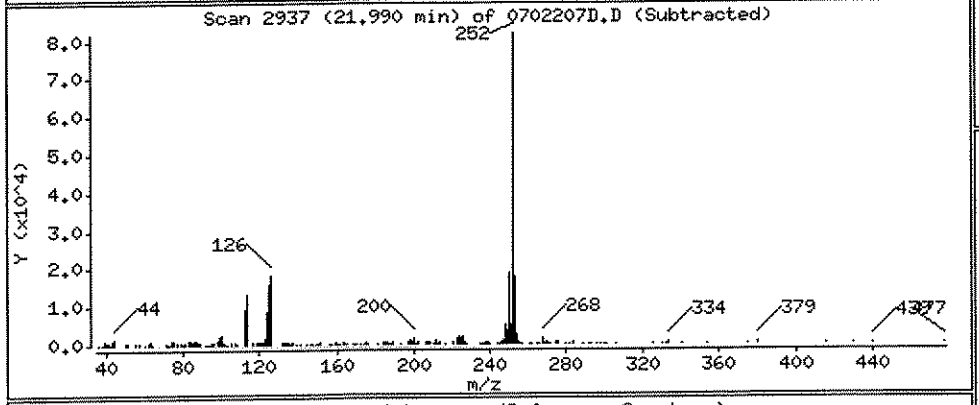
Column phase: fused silica

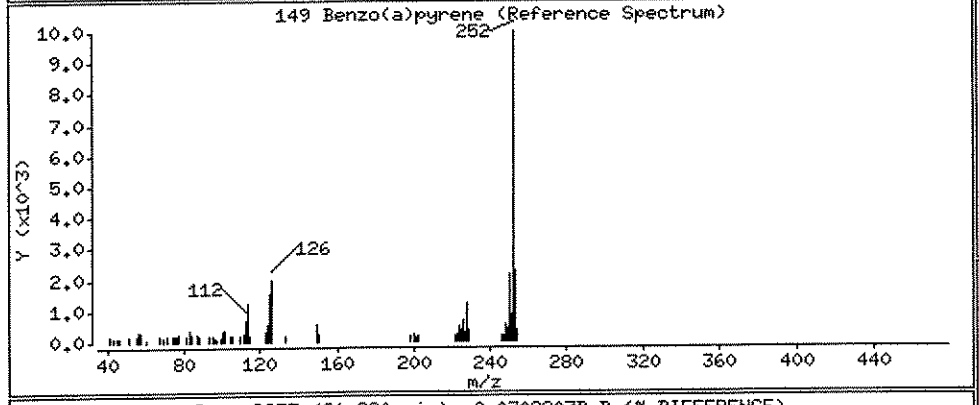
Column diameter: 0.25

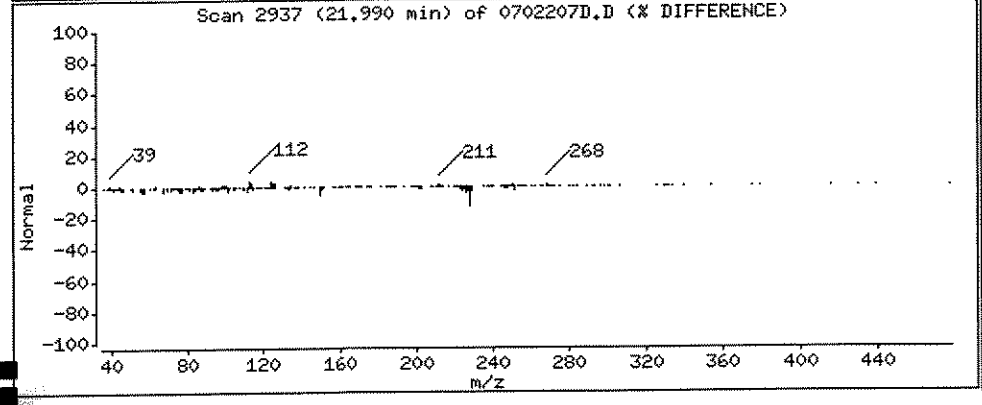
149 Benzo(a)pyrene

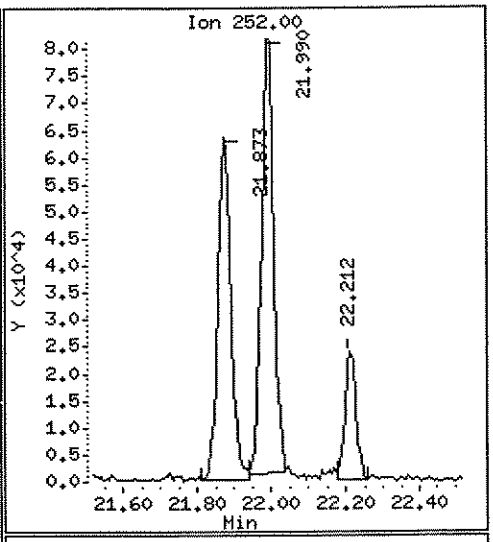
Concentration: 24330 UG/KG

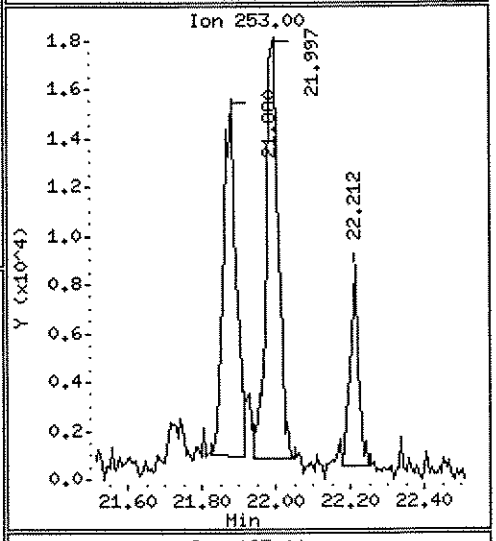


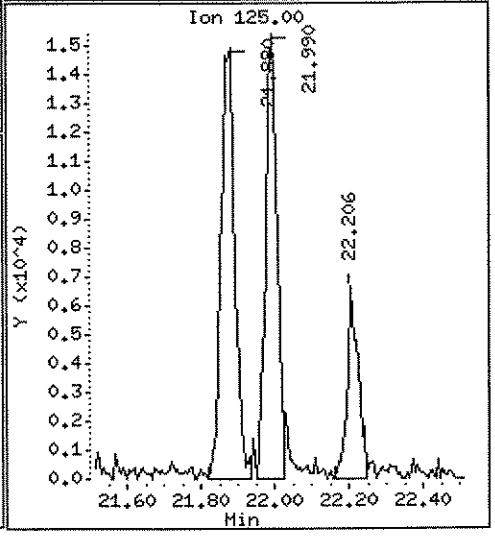












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

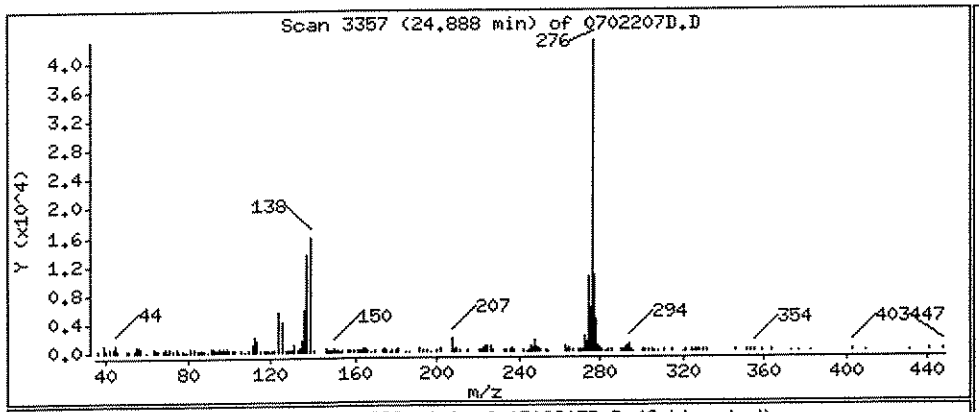
Client ID: 51CFM05S060706 Instrument: bna1.i

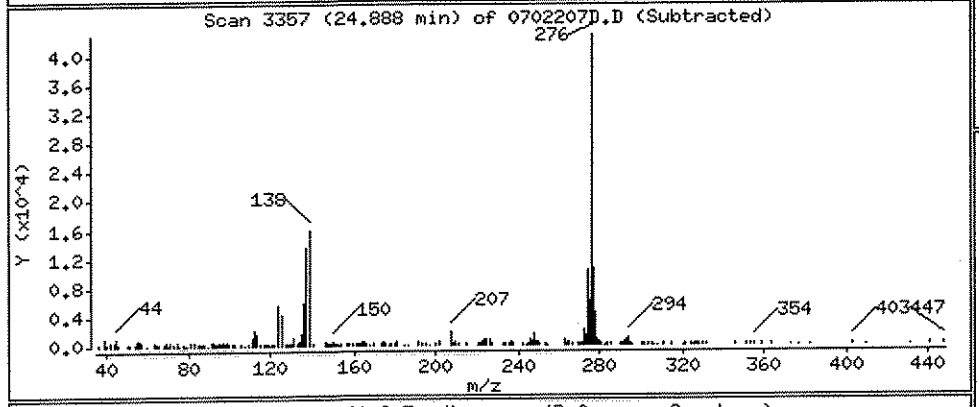
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

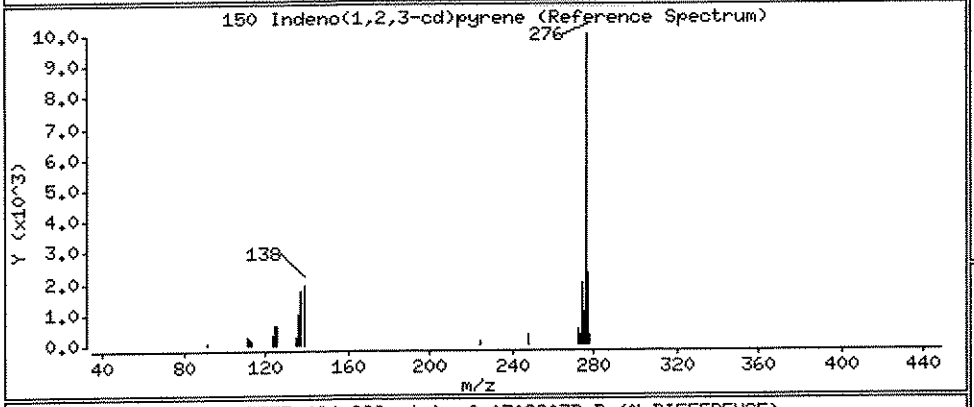
Volume Injected (uL): 0.5 Operator: SDB

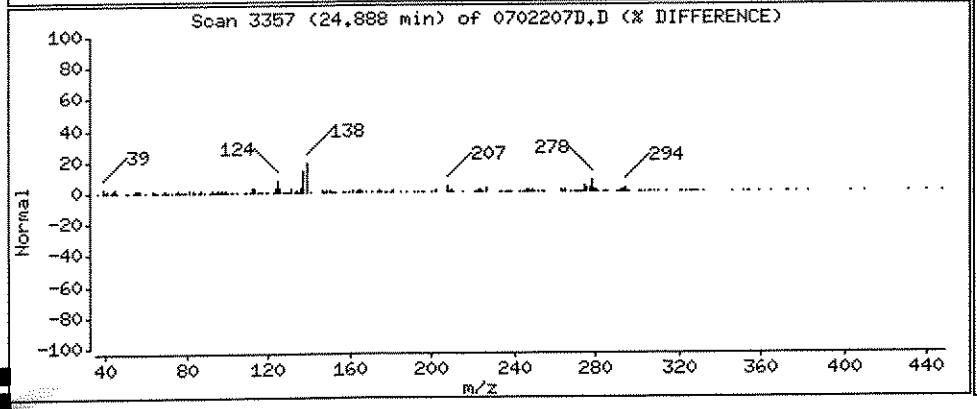
Column phase: fused silica Column diameter: 0.25

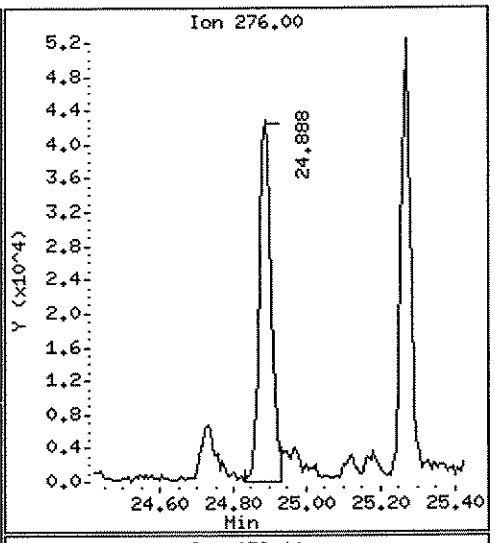
150 Indeno(1,2,3-cd)pyrene Concentration: 15270 UG/KG

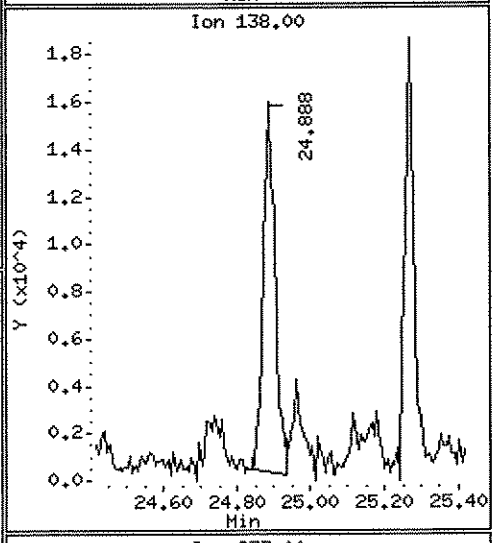


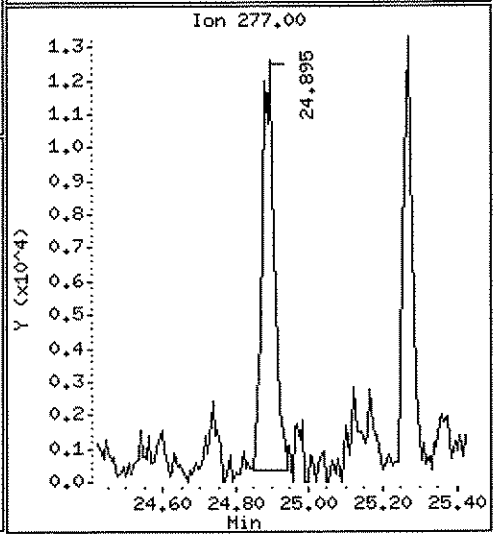












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07:15.1:500:1:UG/KG:10-JUL-2006

Volume Injected (uL): 0.5

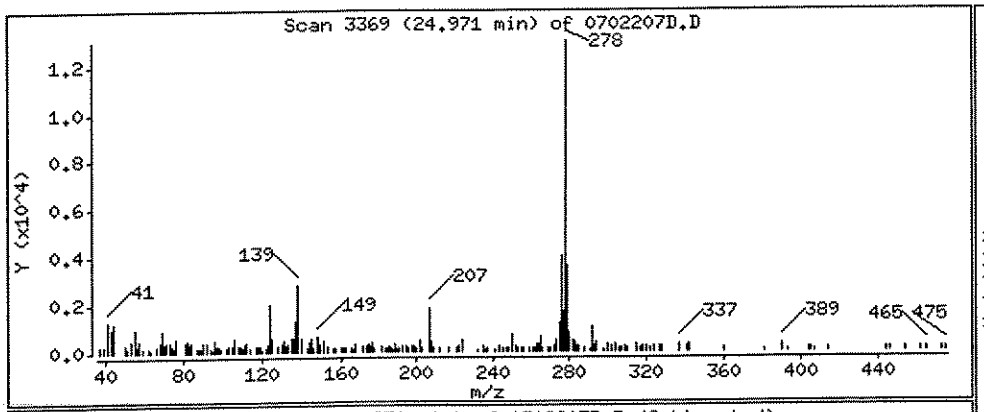
Operator: SDB

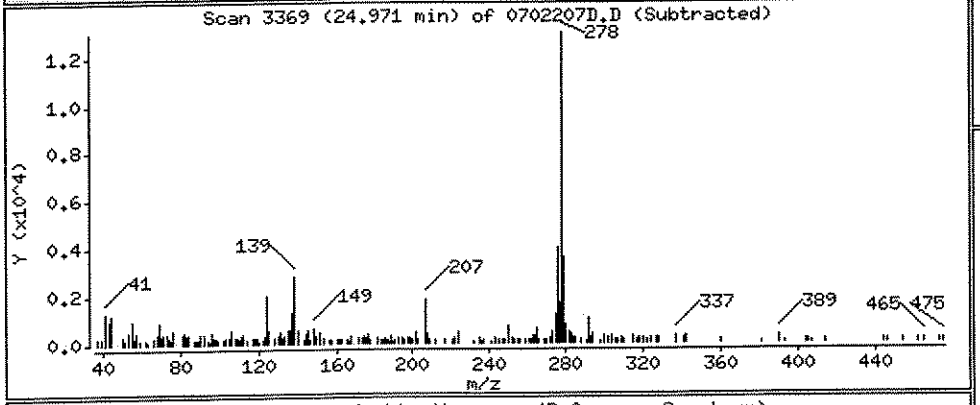
Column phase: fused silica

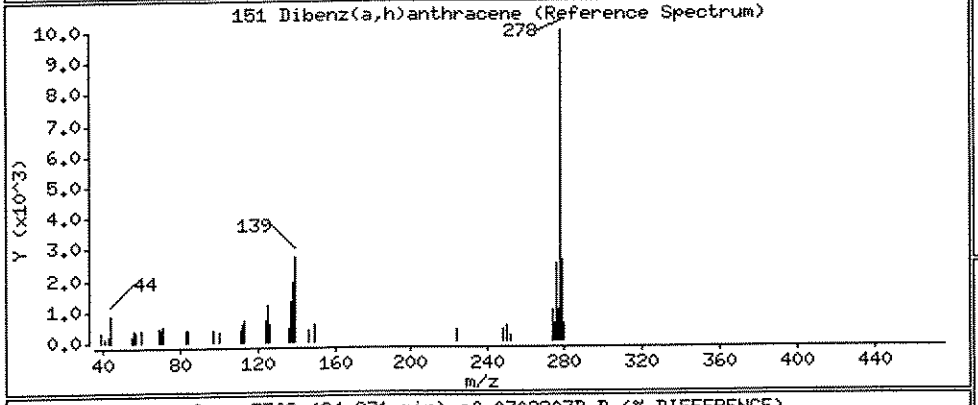
Column diameter: 0.25

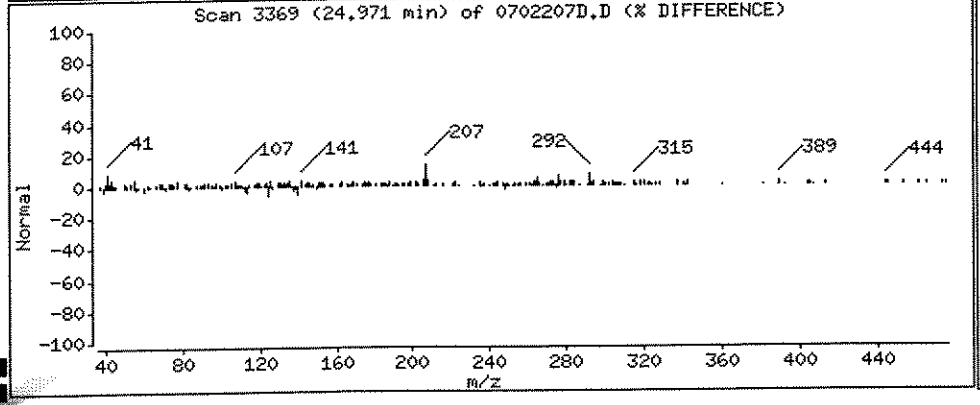
151 Dibenz(a,h)anthracene

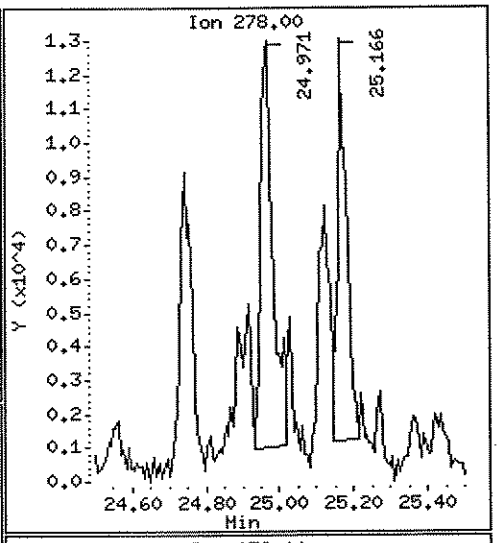
Concentration: 4383 UG/KG

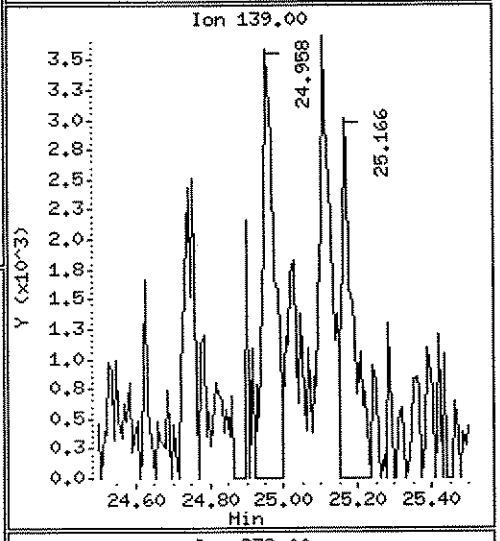


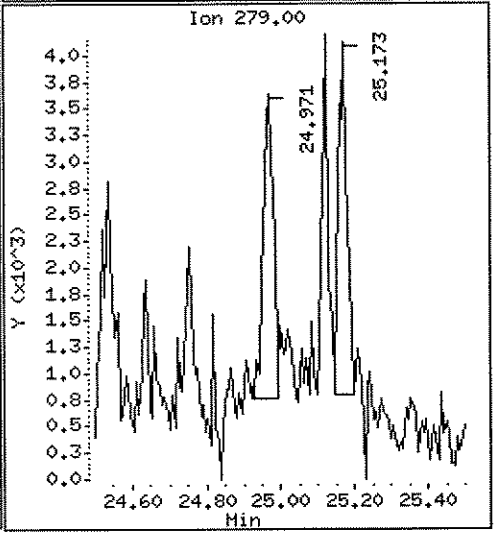












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

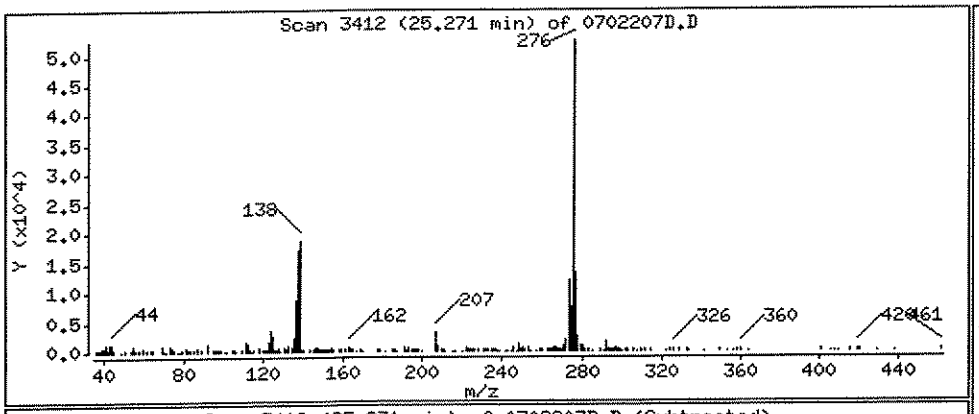
Client ID: 51CFM05S060706 Instrument: bna1.i

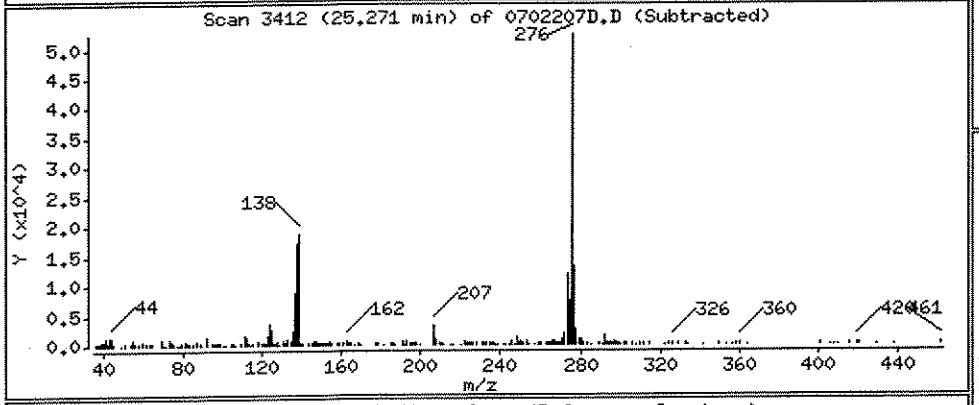
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

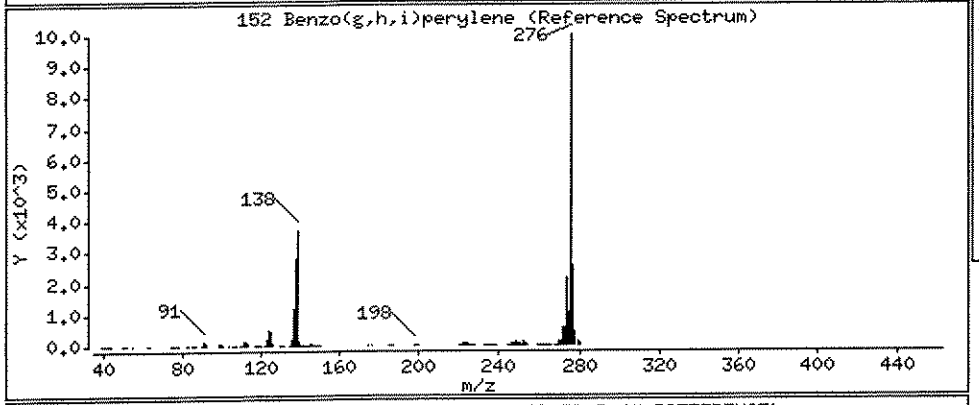
Volume Injected (uL): 0.5 Operator: SDB

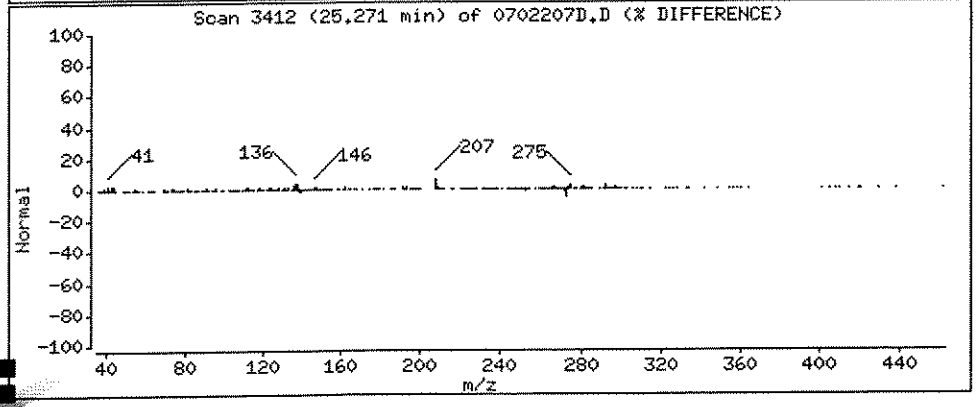
Column phase: fused silica Column diameter: 0.25

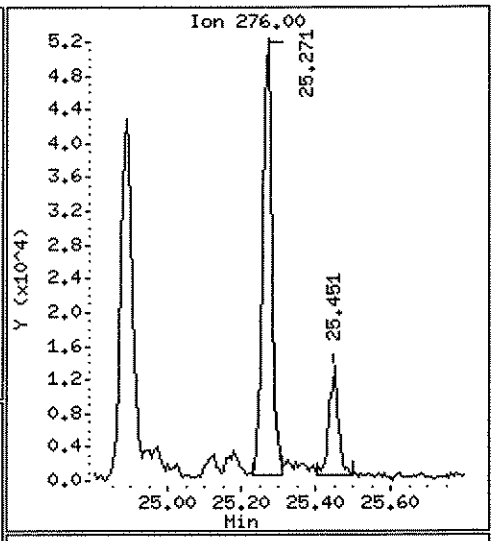
152 Benzo(g,h,i)perylene Concentration: 13680 UG/KG

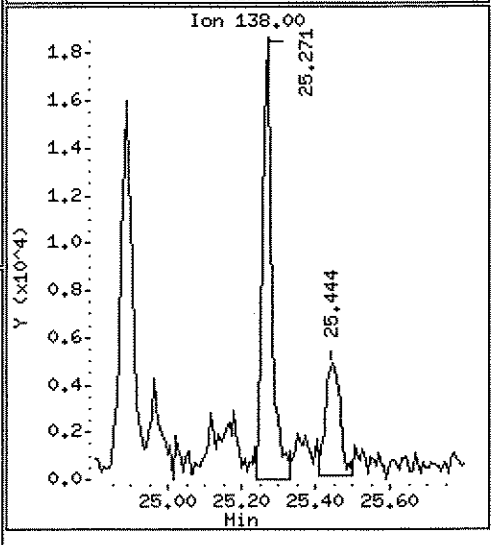












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170		U
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170		U
56-55-3	Benzo(a)anthracene	21	170		U
205-99-2	Benzo(b)fluoranthene	21	170		U
207-08-9	Benzo(k)fluoranthene	21	170		U
191-24-2	Benzo(g,h,i)perylene	21	170		U
50-32-8	Benzo(a)pyrene	21	100		U
218-01-9	Chrysene	21	170		U
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	170		U
86-73-7	Fluorene	21	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	170		U
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170		U
129-00-0	Pyrene	21	170		U

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Lab Smp Id: 0607022-08 Client Smp ID: 51CFM06S060706
Inj Date : 10-JUL-2006 18:03
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

7/11/06 (1000 low, 2

7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.277	4.276	(1.000)	498939	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	1742860	40.0000	
$ 32 Nitrobenzene-d5	82	4.702	4.709	(0.891)	1169183	61.4534	2135
* 65 Acenaphthene-d10	164	7.714	7.719	(1.000)	860611	40.0000	
$ 70 2-Fluorobiphenyl	172	6.614	6.617	(0.857)	1541865	56.2984	1956
* 97 Phenanthrene-d10	188	11.015	11.020	(1.000)	1078920	40.0000	
* 124 Chrysene-d12	240	18.432	18.441	(1.000)	369663	40.0000	
$ 127 Terphenyl-d14	244	15.656	15.647	(0.849)	999322	107.057	3720(A)
* 145 Perylene-d12	264	22.268	22.273	(1.000)	198523	40.0000	

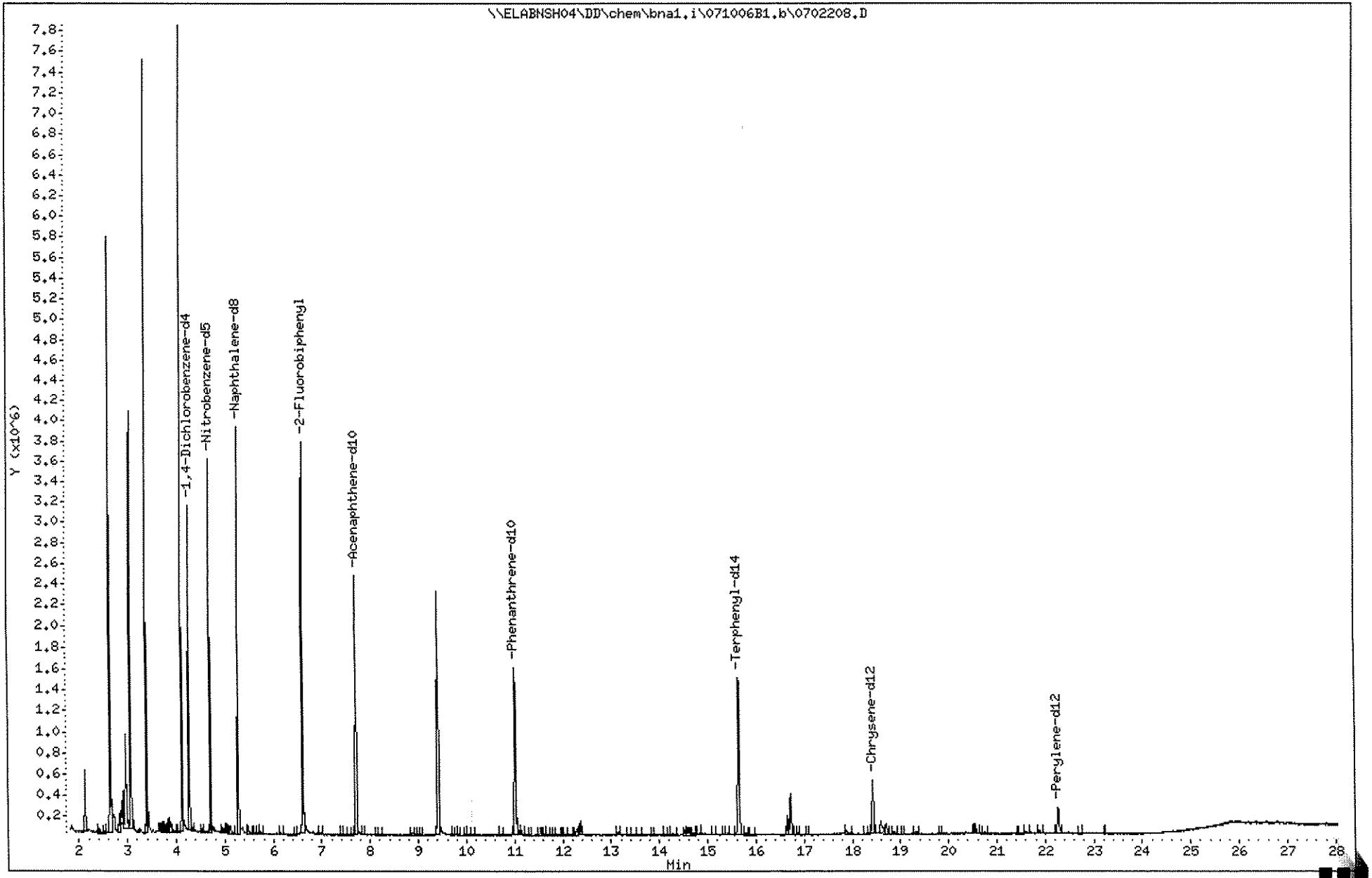
Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Report Date: 11-Jul-2006 13:57

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Date : 10-JUL-2006 18:03
Client ID: 51CFM06S060706
Instrument: bna1.i
Sample Info: 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000225



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:06

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350		UD
56-55-3	Benzo(a)anthracene	42	350		UD
205-99-2	Benzo(b)fluoranthene	42	350		UD
207-08-9	Benzo(k)fluoranthene	42	350		UD
191-24-2	Benzo(g,h,i)perylene	42	350		UD
50-32-8	Benzo(a)pyrene	42	210		UD
218-01-9	Chrysene	42	350		UD
53-70-3	Dibenz(a,h)anthracene	42	210		UD
206-44-0	Fluoranthene	42	350		UD
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350		UD
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	100	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350		UD
129-00-0	Pyrene	42	350		UD

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Lab Smp Id: 0607022-08 Client Smp ID: 51CFM06S060706
Inj Date : 11-JUL-2006 12:06
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

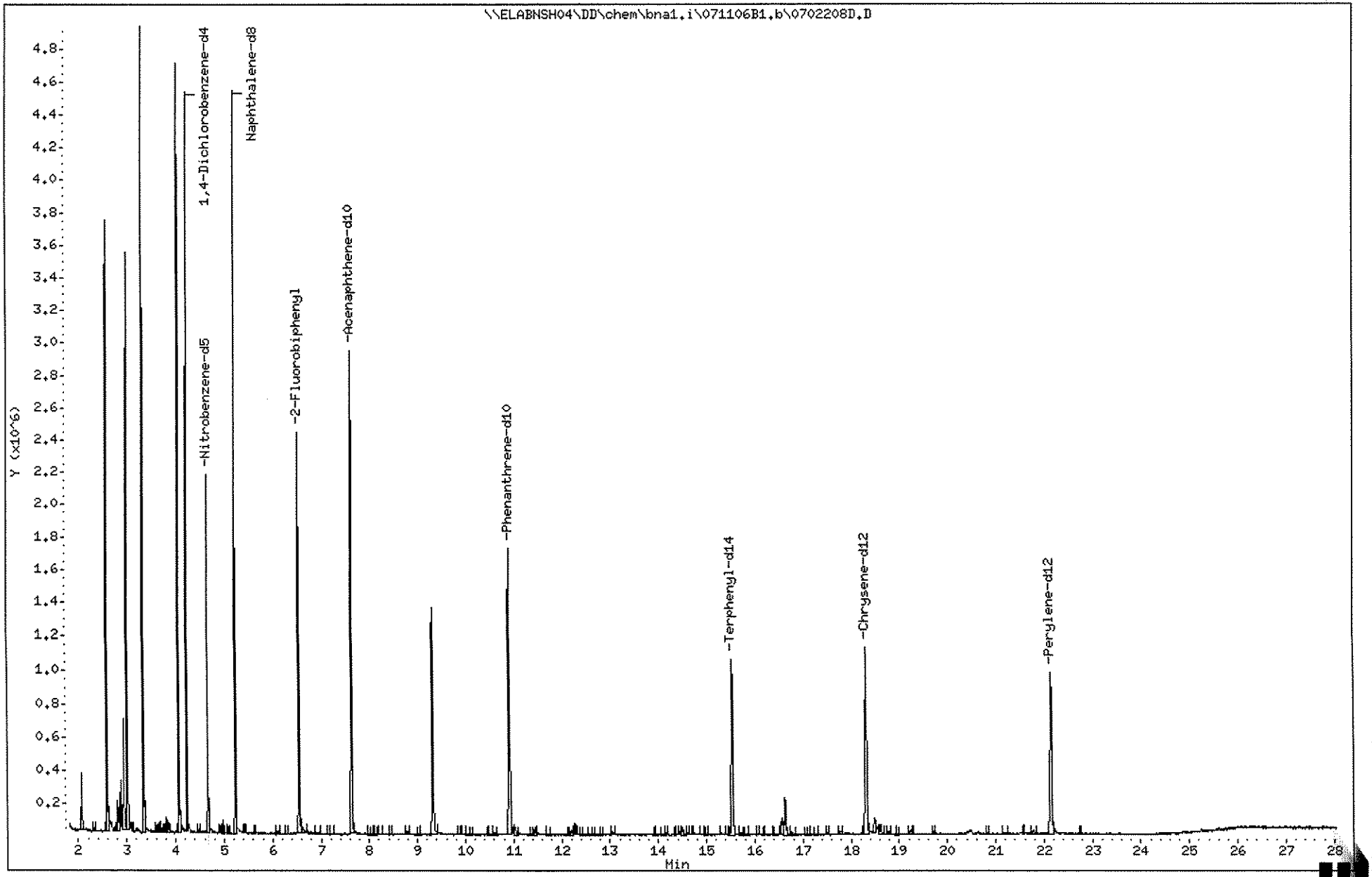
7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.236	4.235	(1.000)	561867	40.0000	
* 31 Naphthalene-d8	136	5.232	5.240	(1.000)	1957507	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.891)	691492	32.3601	2249
* 65 Acenaphthene-d10	164	7.636	7.641	(1.000)	954793	40.0000	
$ 70 2-Fluorobiphenyl	172	6.548	6.555	(0.858)	890149	29.2961	2036
* 97 Phenanthrene-d10	188	10.919	10.923	(1.000)	1198277	40.0000	
* 124 Chrysene-d12	240	18.315	18.333	(1.000)	833738	40.0000	
$ 127 Terphenyl-d14	244	15.540	15.545	(0.848)	690844	32.8146	2280
* 145 Perylene-d12	264	22.157	22.175	(1.000)	770123	40.0000	

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Date : 11-JUL-2006 12:06
Client ID: 51CFM06S060706
Instrument: bna1.i
Sample Info: 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000228



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:38

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	1100	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	1400	
56-55-3	Benzo(a)anthracene	20	170	4800	E
205-99-2	Benzo(b)fluoranthene	20	170	6000	E
207-08-9	Benzo(k)fluoranthene	20	170	3400	E
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	4700	E
218-01-9	Chrysene	20	170	6100	E
53-70-3	Dibenz(a,h)anthracene	20	100	590	
206-44-0	Fluoranthene	20	170	7100	E
86-73-7	Fluorene	20	170	950	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	300	
90-12-0	1-Methylnaphthalene	50	170	180	
91-20-3	Naphthalene	20	170	120	J
85-01-8	Phenanthrene	20	170	7400	E
129-00-0	Pyrene	20	170	13000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Report Date: 11-Jul-2006 13:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 10-JUL-2006 18:38
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.271	4.276	(1.000)	424515	40.0000	
*	31 Naphthalene-d8	136	5.282	5.287	(1.000)	1484378	40.0000	
$	32 Nitrobenzene-d5	82	4.704	4.709	(0.891)	978764	60.4031	2036
	47 Naphthalene	128	5.296	5.307	(1.003)	131253	3.55640	119.9(a)
	51 2-Methylnaphthalene	141	6.054	6.062	(1.146)	192164	9.06149	305.4
	52 1-Methylnaphthalene	141	6.192	6.203	(1.172)	107105	5.29067	178.3
*	65 Acenaphthene-d10	164	7.709	7.719	(1.000)	732415	40.0000	
$	70 2-Fluorobiphenyl	172	6.614	6.617	(0.858)	1342465	57.5974	1941
	76 Acenaphthene	153	7.771	7.781	(1.008)	665307	31.4747	1061
	84 Fluorene	166	8.806	8.814	(1.142)	638603	28.2467	952.0
*	97 Phenanthrene-d10	188	11.026	11.020	(1.000)	820238	40.0000	
	106 Phenanthrene	178	11.116	11.082	(1.008)	5137213	219.663	7403(A)
	107 Anthracene	178	11.207	11.192	(1.016)	969086	41.9719	1415

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Report Date: 11-Jul-2006 13:58

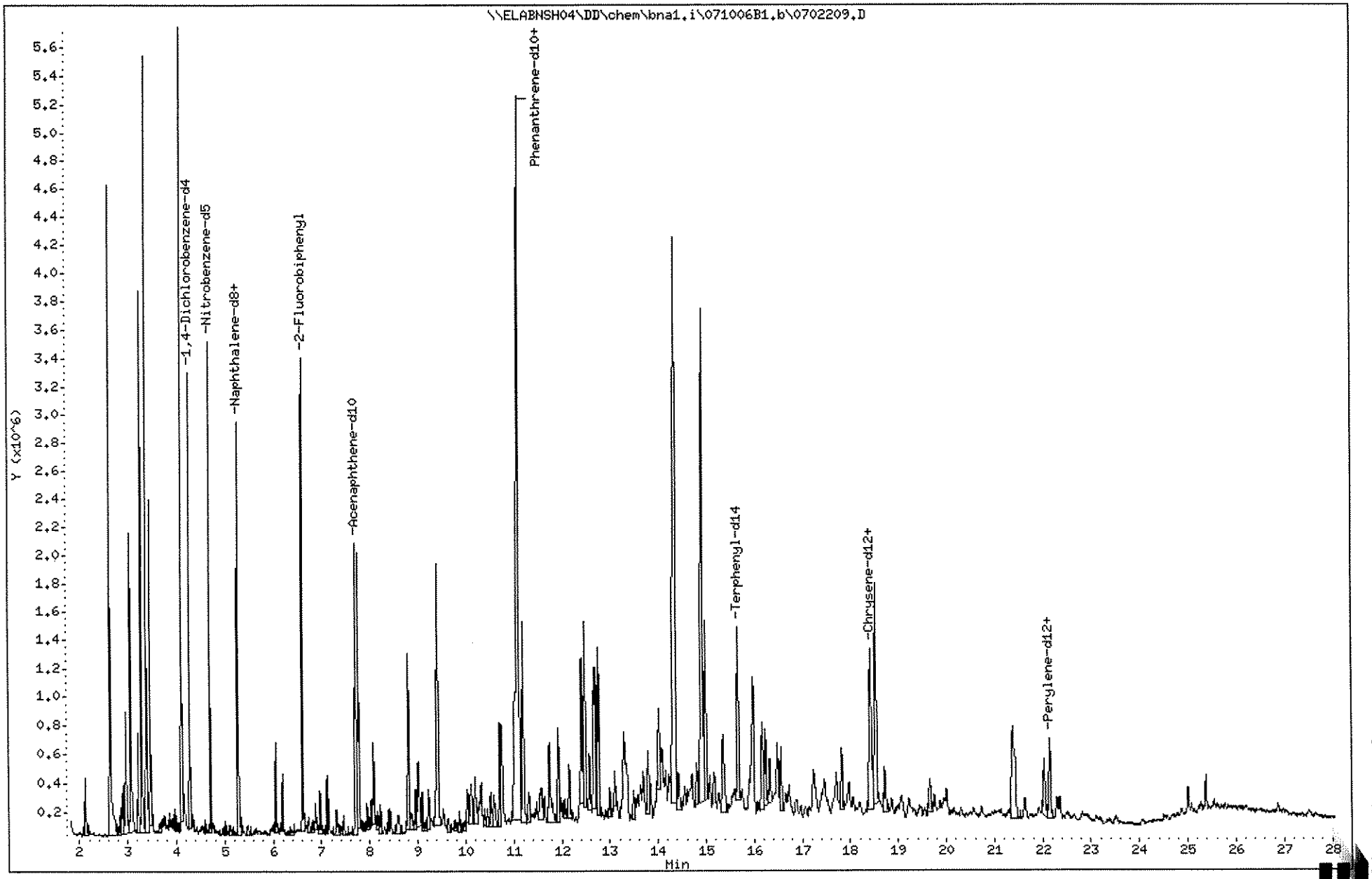
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)	
110 Fluoranthene	202	14.370	14.296	(1.303)	4882933	210.891	7108(A)	OCM
* 124 Chrysene-d12	240	18.467	18.441	(1.000)	244512	40.0000		
126 Pyrene	202	14.942	14.878	(0.809)	3865653	395.870	13340(A)	OCM
$ 127 Terphenyl-d14	244	15.668	15.647	(0.848)	637775	103.296	3481(A)	
130 Benzo(a)anthracene	228	18.432	18.400	(0.998)	1119431	142.092	4789(A)	OCM
131 Chrysene	228	18.551	18.510	(1.005)	1297117	180.266	6076(A)	OCM
* 145 Perylene-d12	264	22.298	22.273	(1.000)	129670	40.0000		
147 Benzo(b)fluoranthene	252	21.387	21.352	(0.959)	717736	179.686	6056(AM)	OCM
148 Benzo(k)fluoranthene	252	21.429	21.421	(0.961)	424495	102.431	3452(AM)	
149 Benzo(a)pyrene	252	22.158	22.121	(0.994)	482329	140.033	4720(A)	OCM
150 Indeno(1,2,3-cd)pyrene	276	25.016	24.990	(1.122)	168448	57.3207	1932	
151 Dibenz(a,h)anthracene	278	25.087	25.065	(1.125)	51814	17.5139	590.3	
152 Benzo(g,h,i)perylene	276	25.383	25.361	(1.138)	150900	49.4817	1668	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Date : 10-JUL-2006 18:38
Client ID: 51CFM07S060706
Instrument: bna1.i
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000232



Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

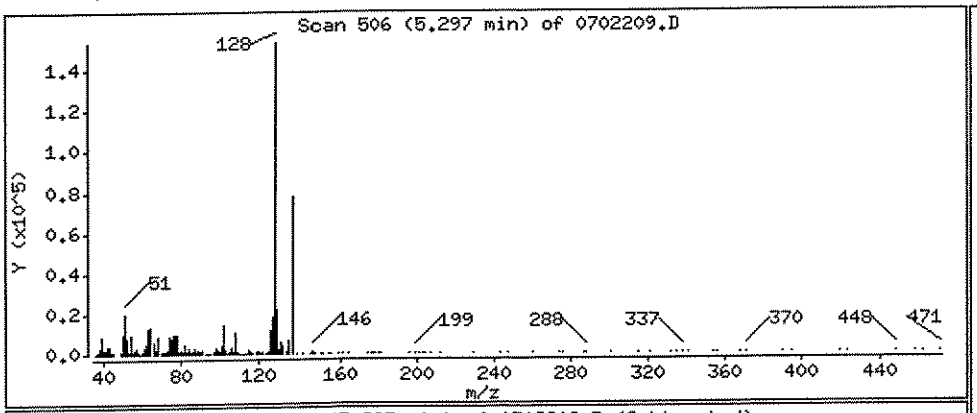
Operator: SDB

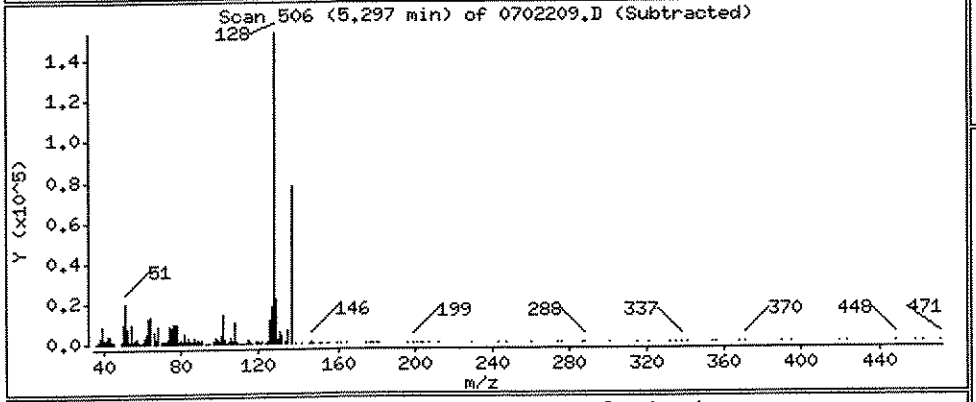
Column phase: fused silica

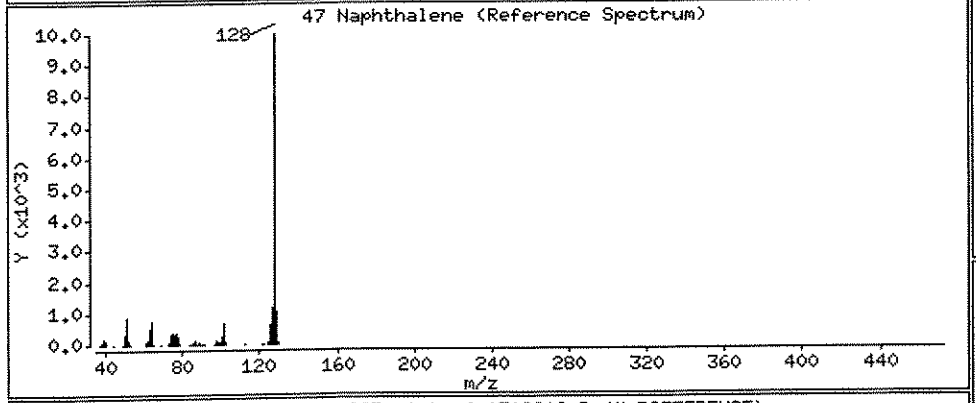
Column diameter: 0.25

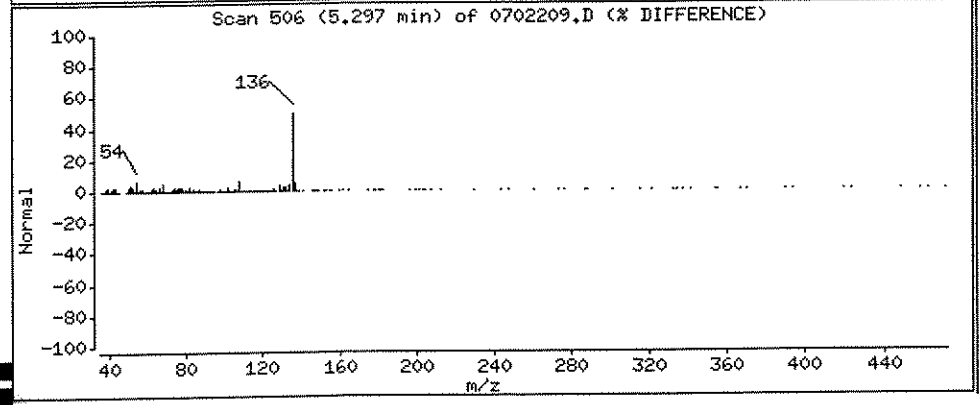
47 Naphthalene

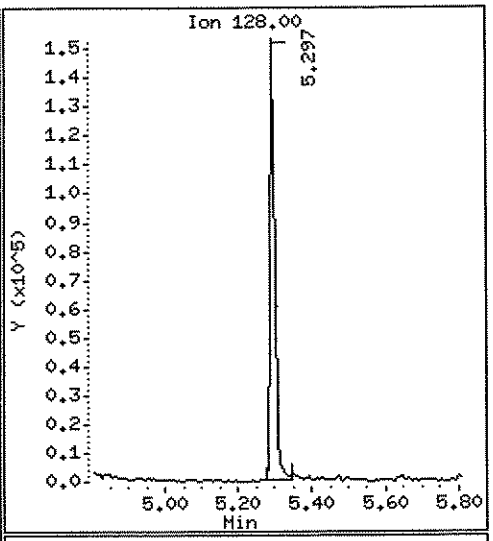
Concentration: 119.9 UG/KG

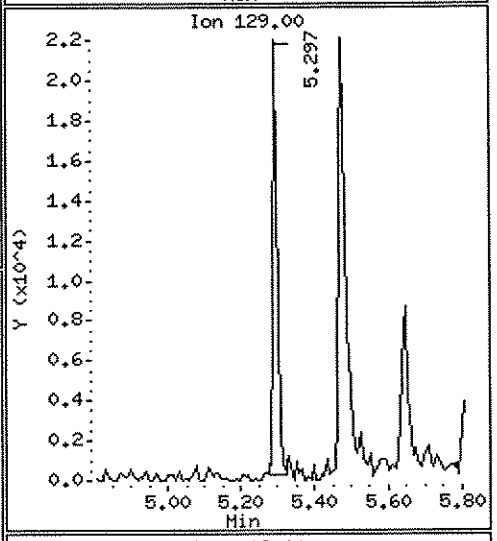


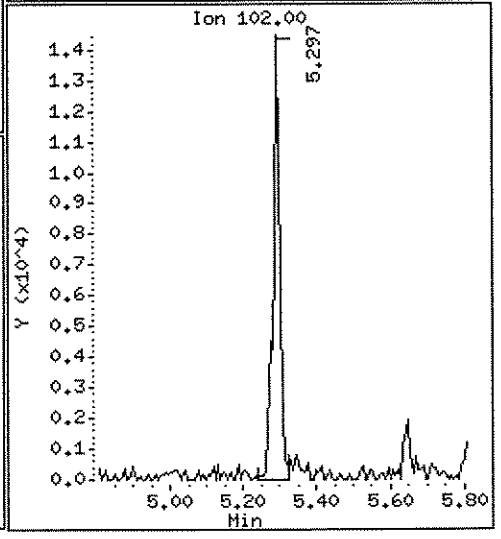












Empirical Laboratories

000233

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

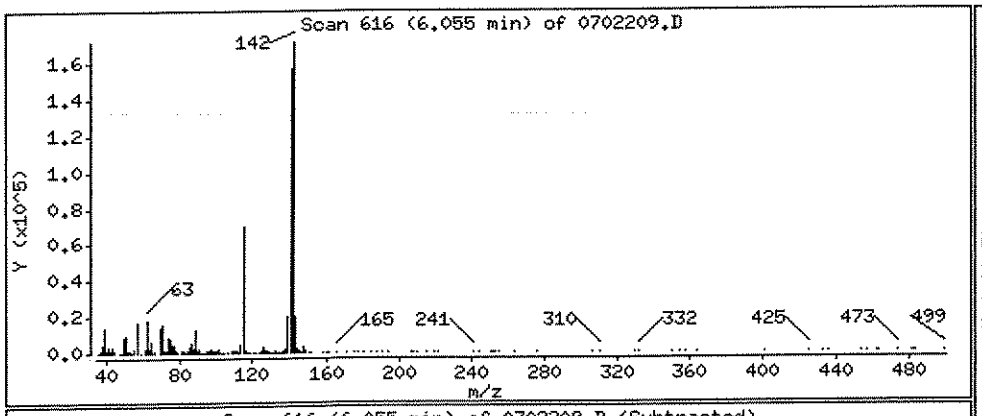
Client ID: 51CFM07S060706 Instrument: bna1.i

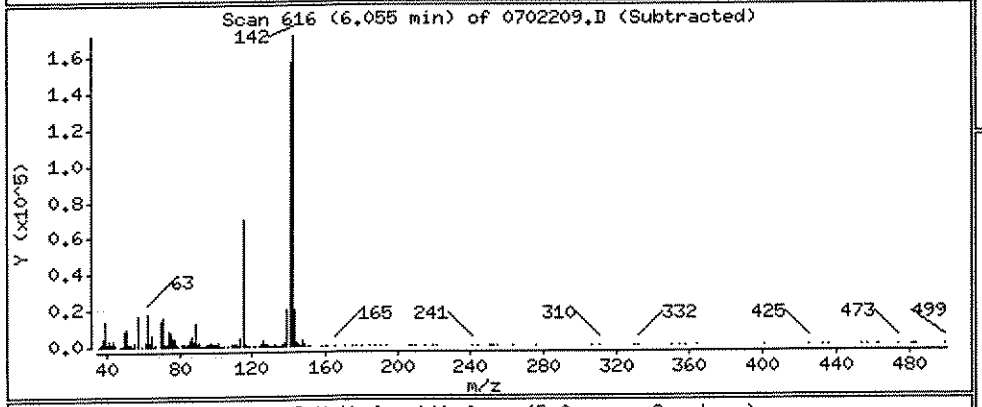
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

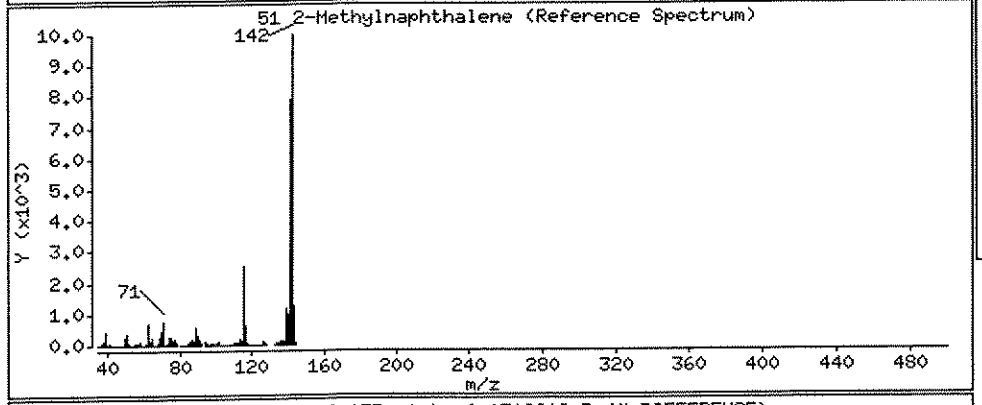
Volume Injected (uL): 0.5 Operator: SDB

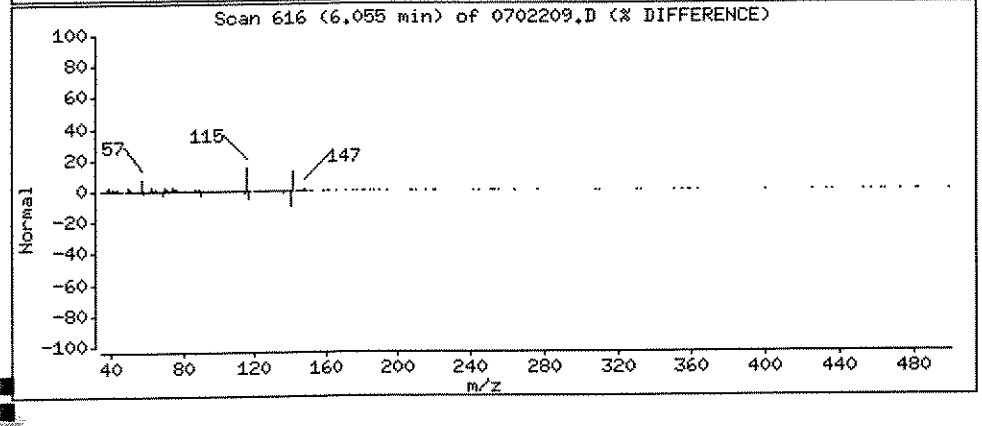
Column phase: fused silica Column diameter: 0.25

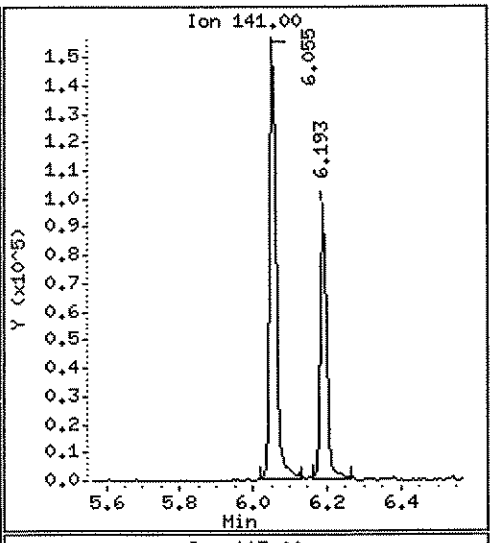
51 2-Methylnaphthalene Concentration: 305.4 UG/KG

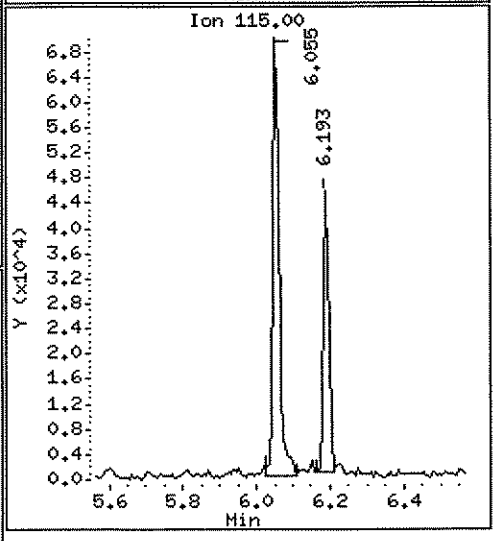












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

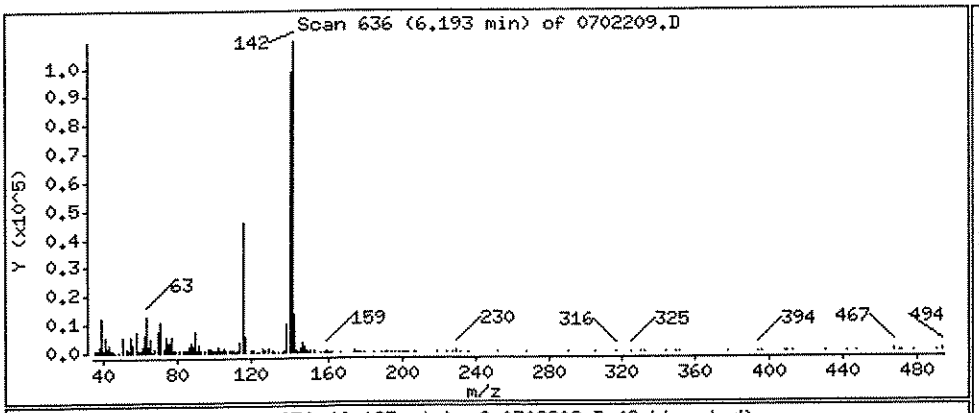
Client ID: 51CFM07S060706 Instrument: bna1.i

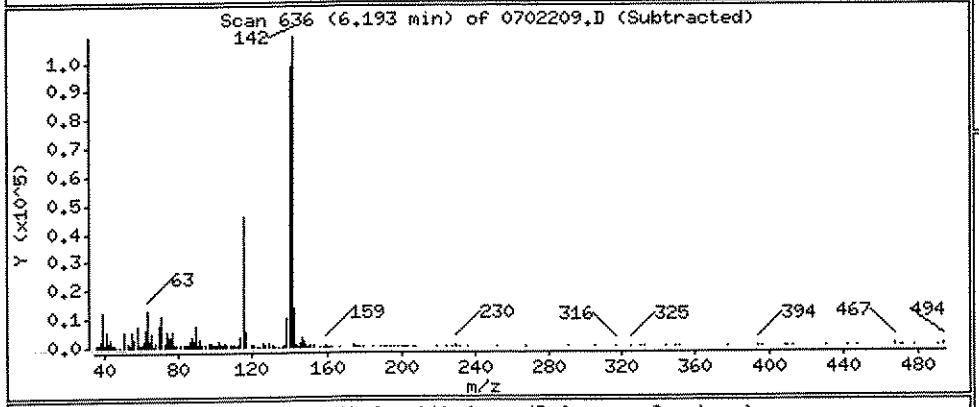
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

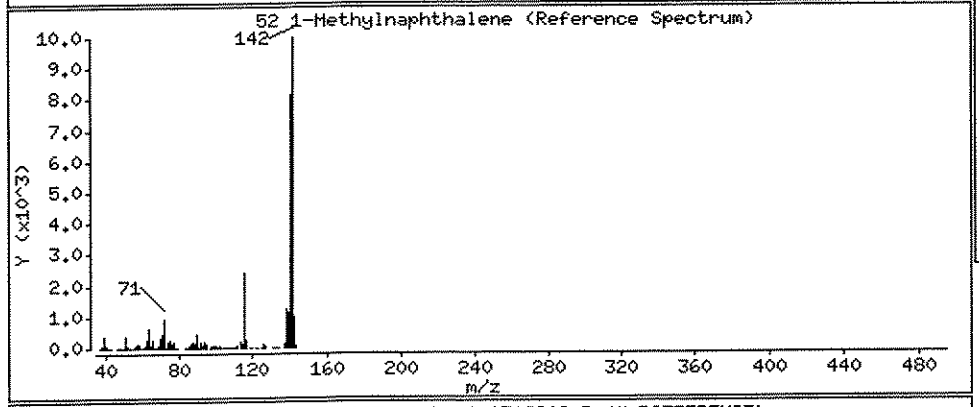
Volume Injected (uL): 0.5 Operator: SDB

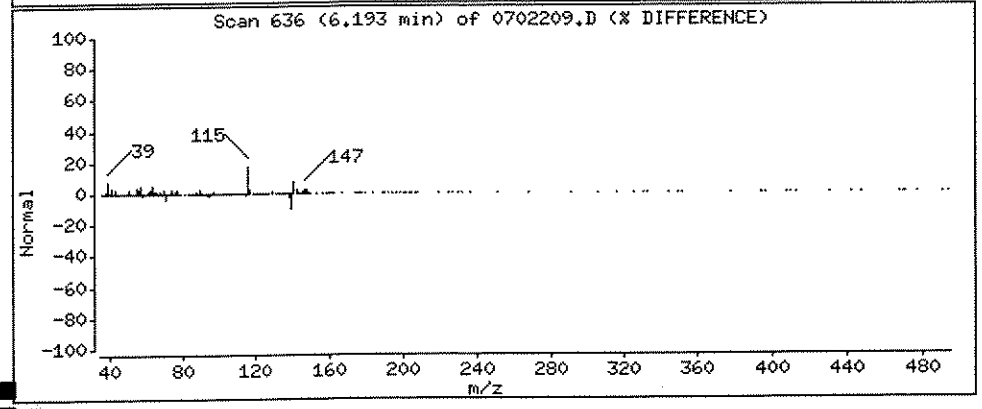
Column phase: fused silica Column diameter: 0.25

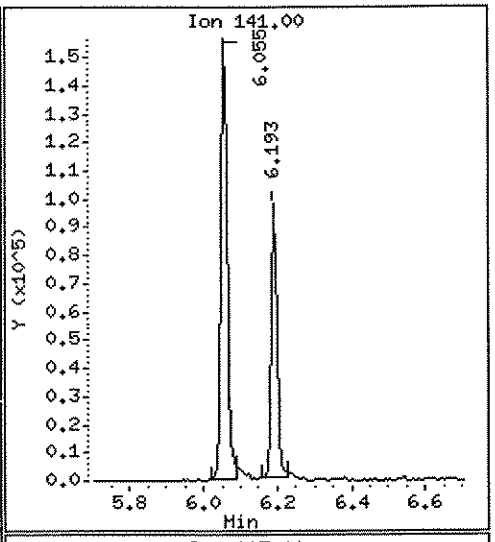
52 1-Methylnaphthalene Concentration: 178.3 UG/KG

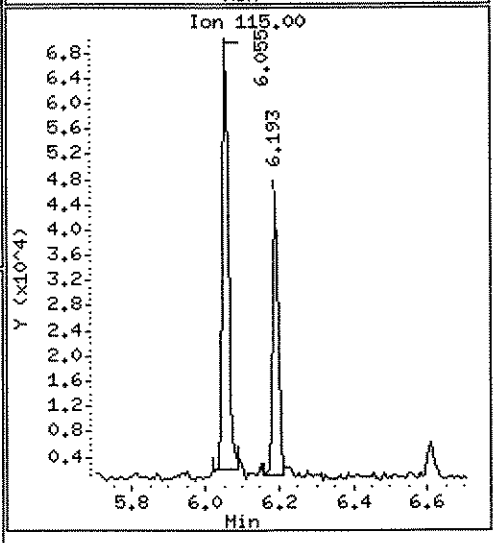












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

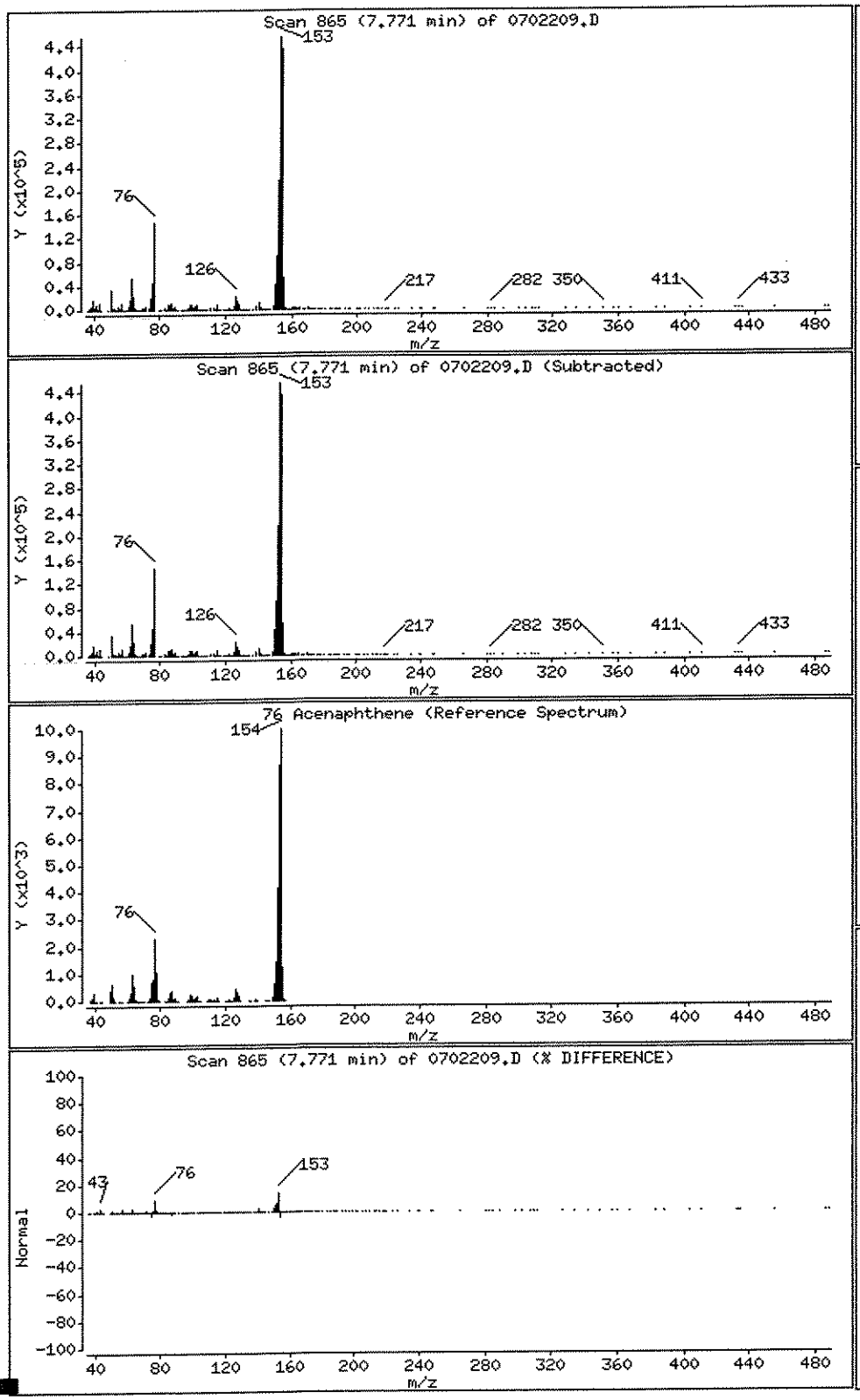
Client ID: 51CFM07S060706 Instrument: bna1.i

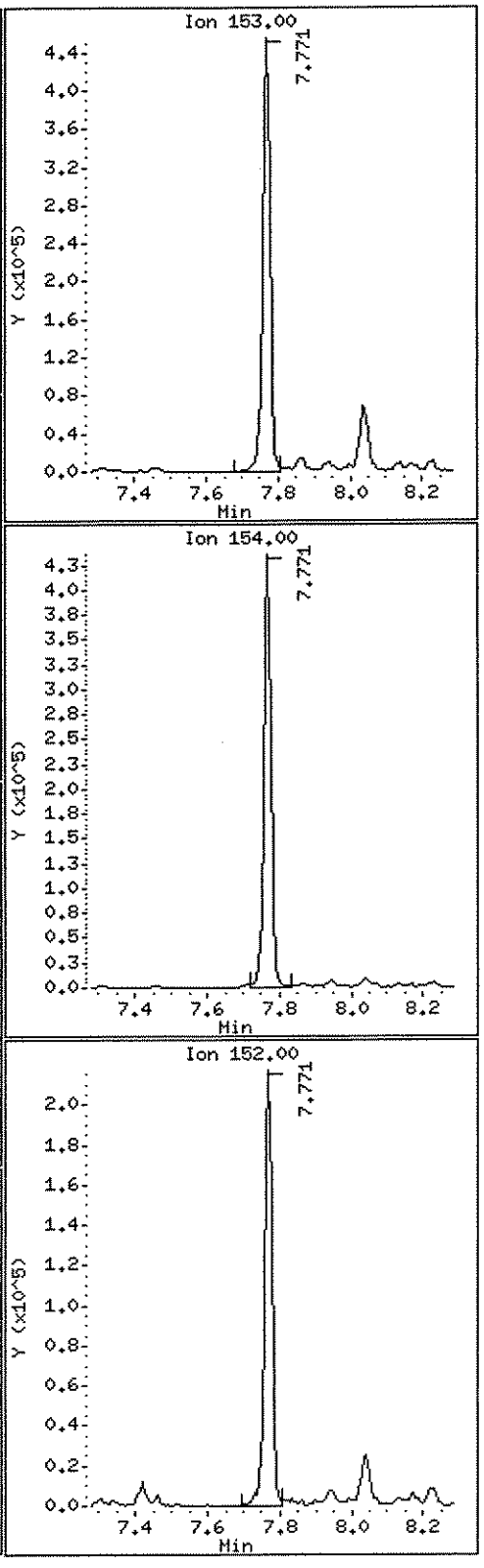
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5 Operator: SDB

Column phase: fused silica Column diameter: 0.25

76 Acenaphthene Concentration: 1061 UG/KG





Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

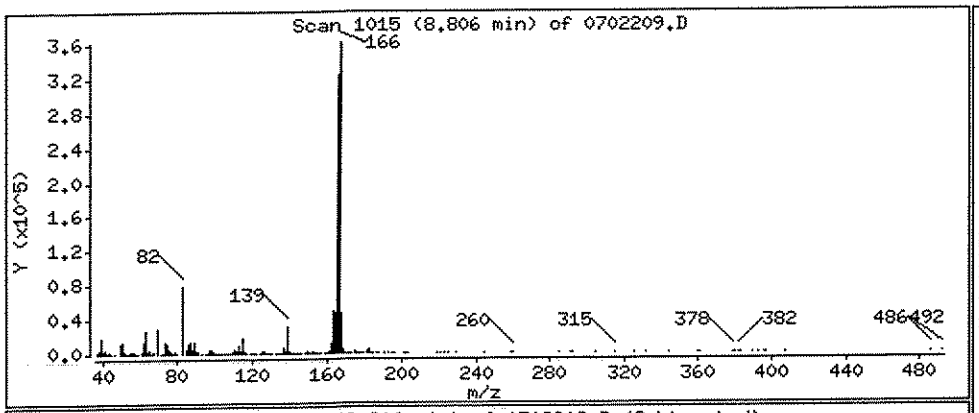
Operator: SDB

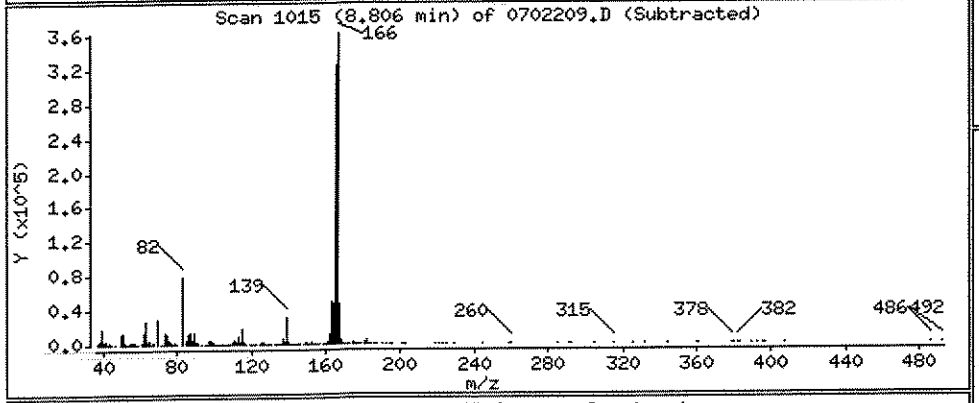
Column phase: fused silica

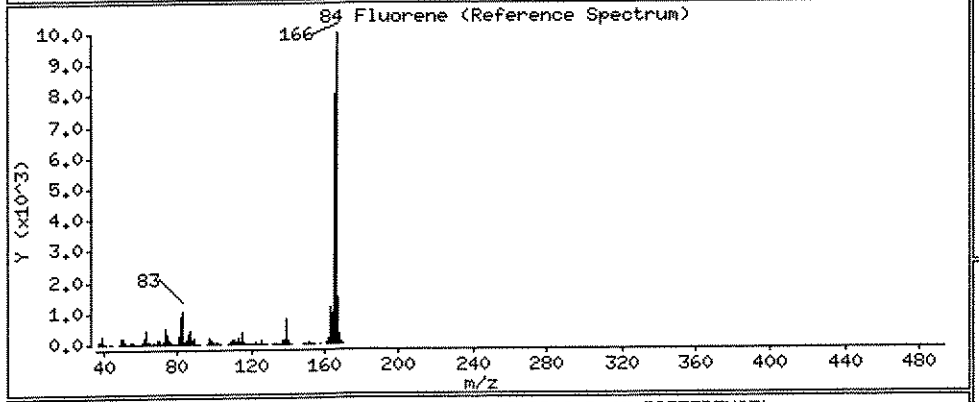
Column diameter: 0.25

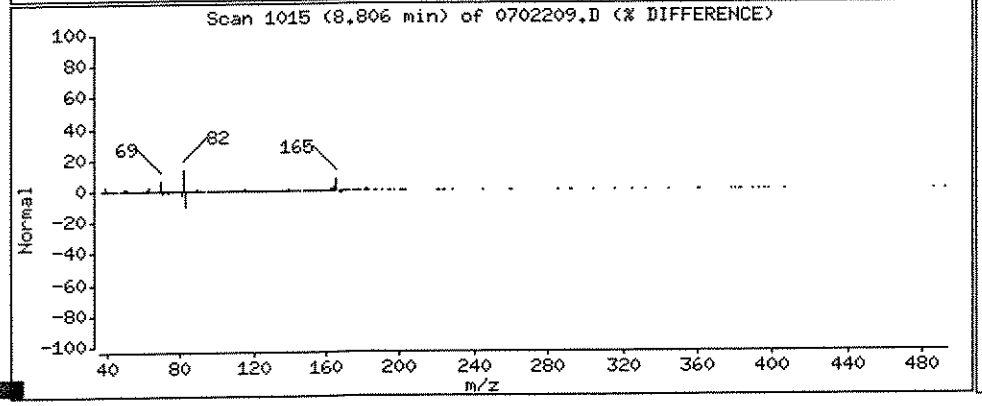
84 Fluorene

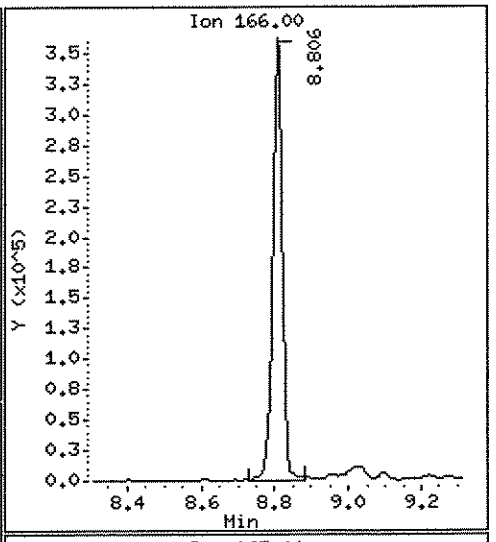
Concentration: 952.0 UG/KG

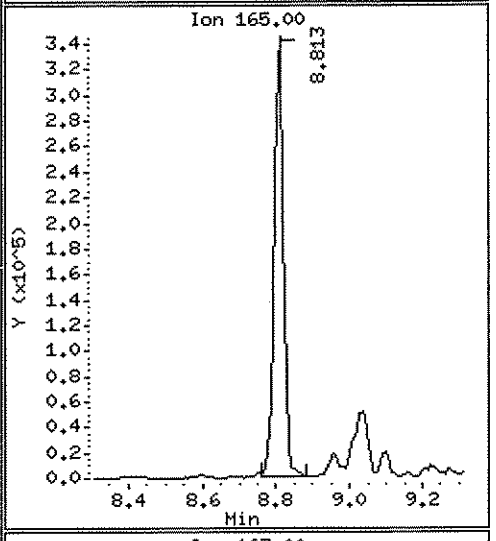


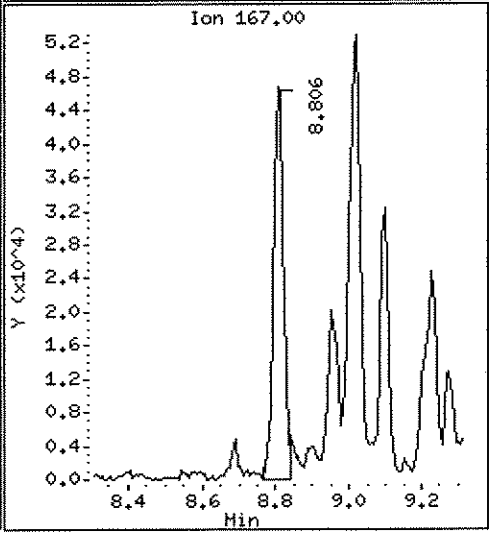












Empirical Laboratories

000237

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

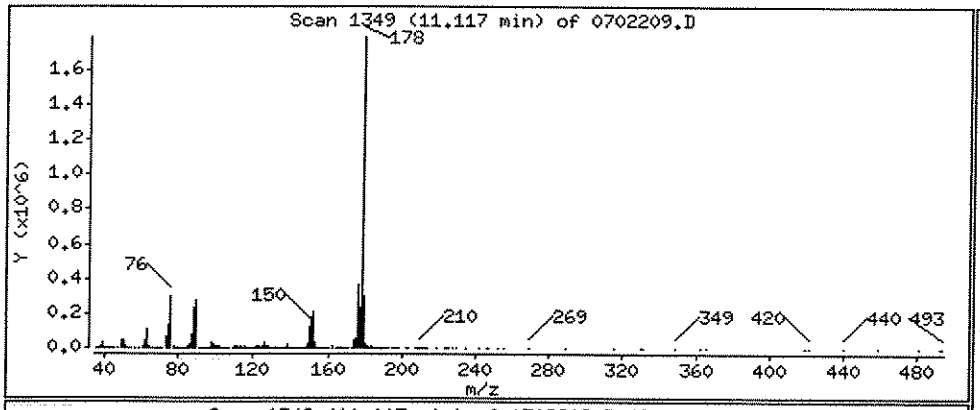
Client ID: 51CFM07S060706 Instrument: bna1.i

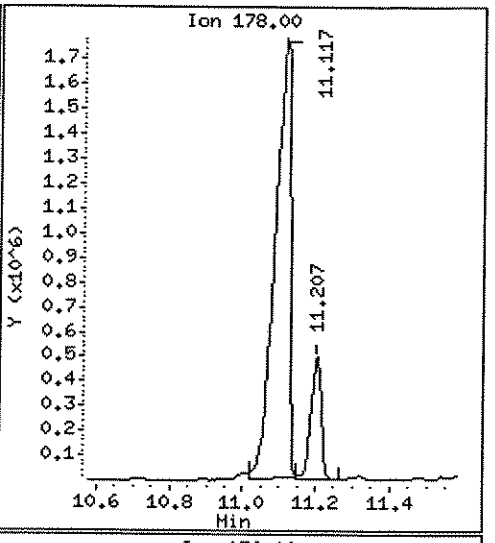
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

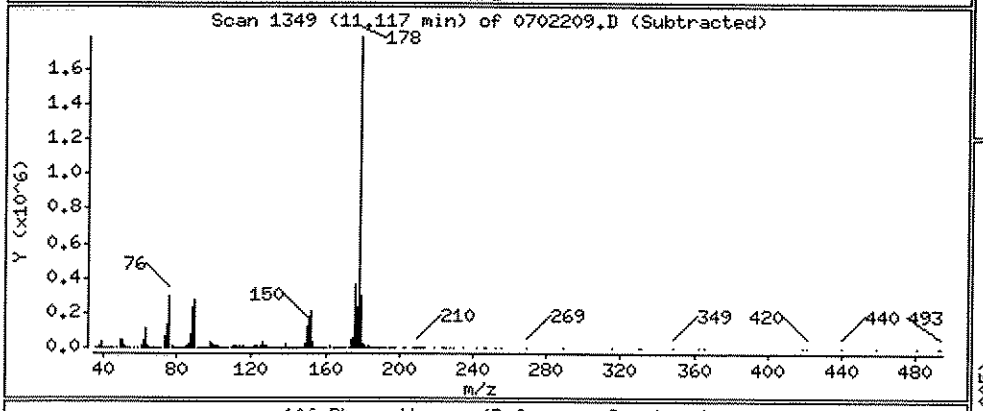
Volume Injected (uL): 0.5 Operator: SDB

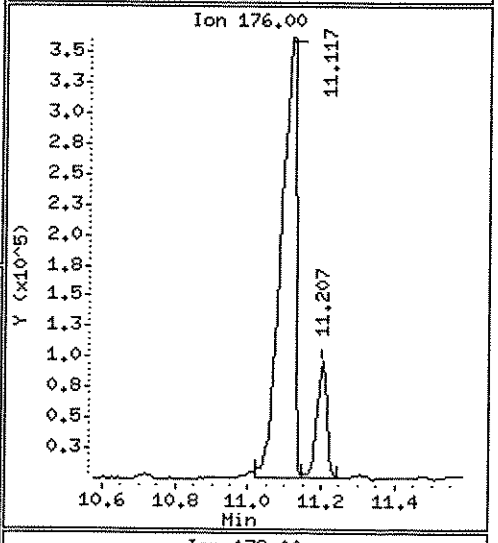
Column phase: fused silica Column diameter: 0.25

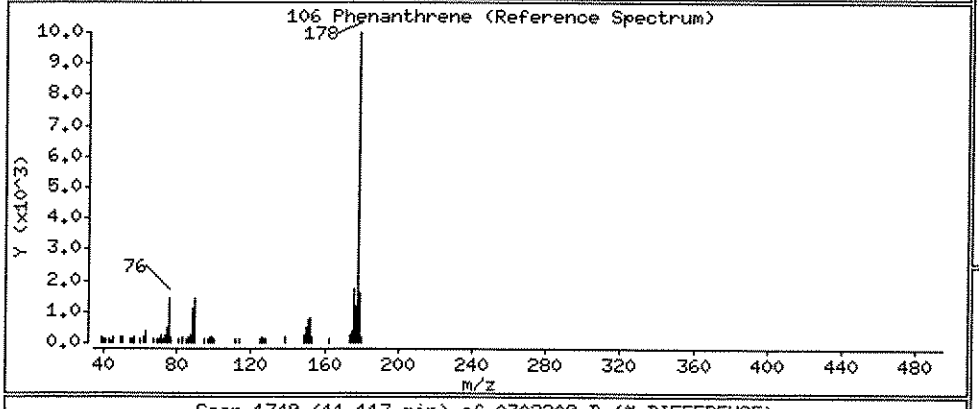
106 Phenanthrene Concentration: 7403 UG/KG

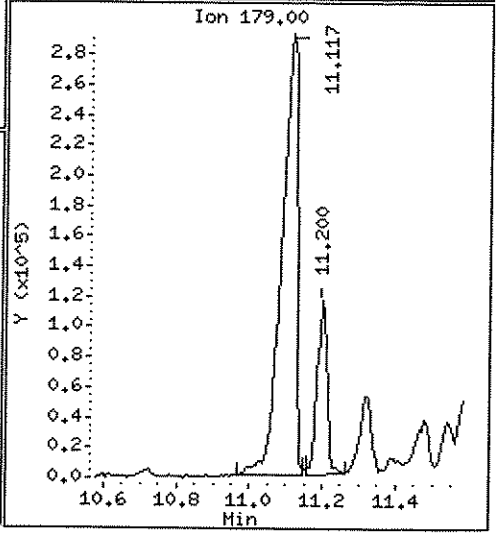


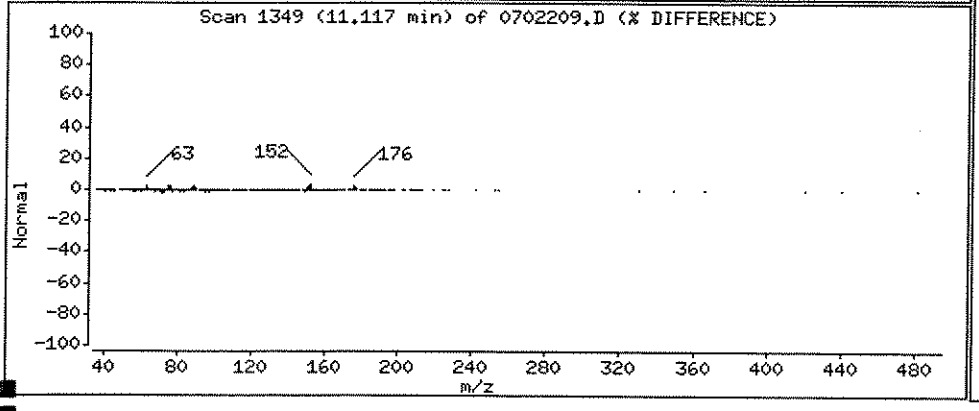












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

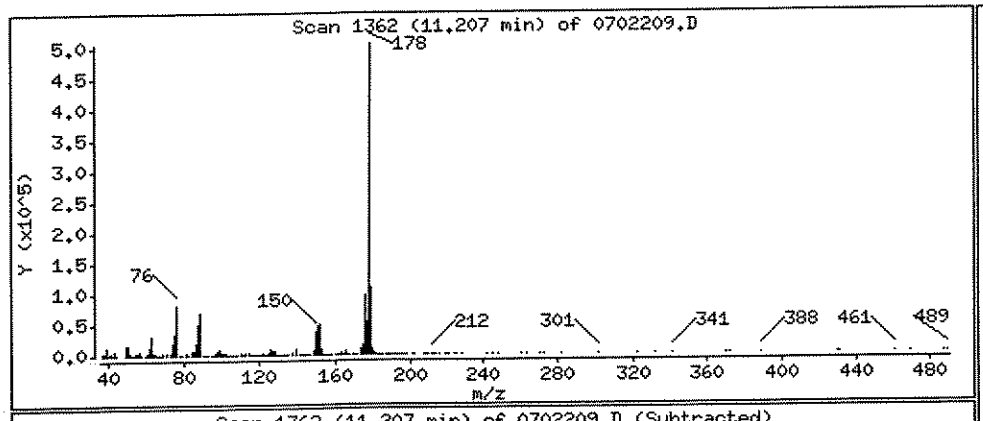
Operator: SDB

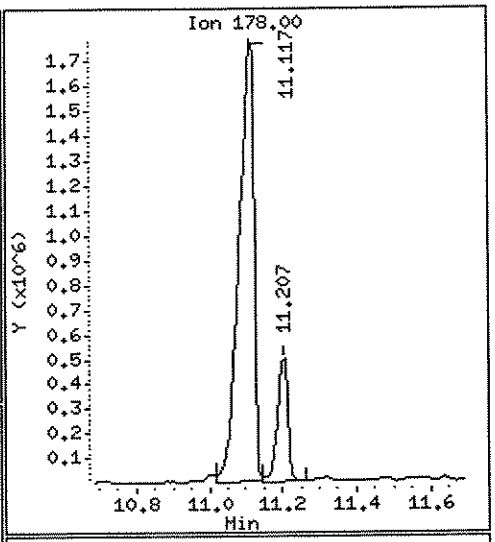
Column phase: fused silica

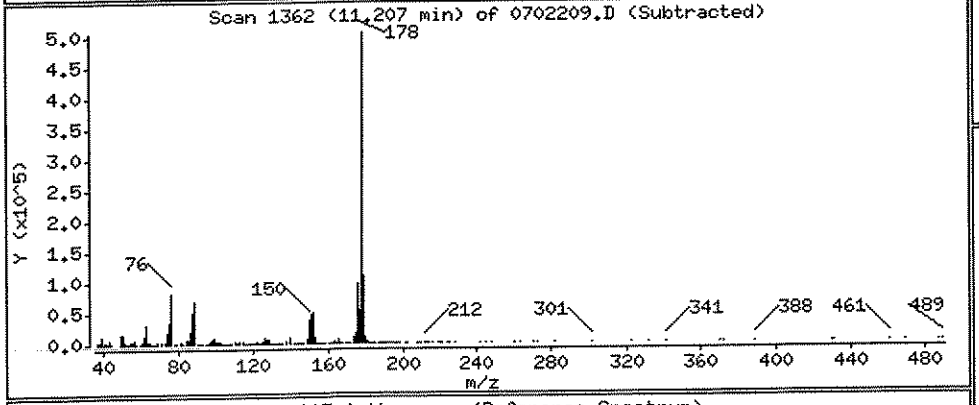
Column diameter: 0.25

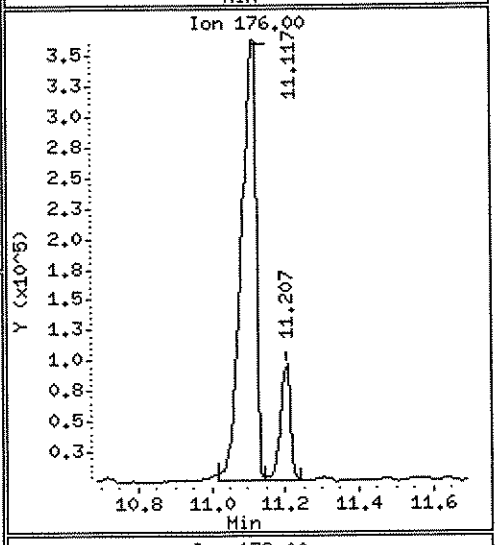
107 Anthracene

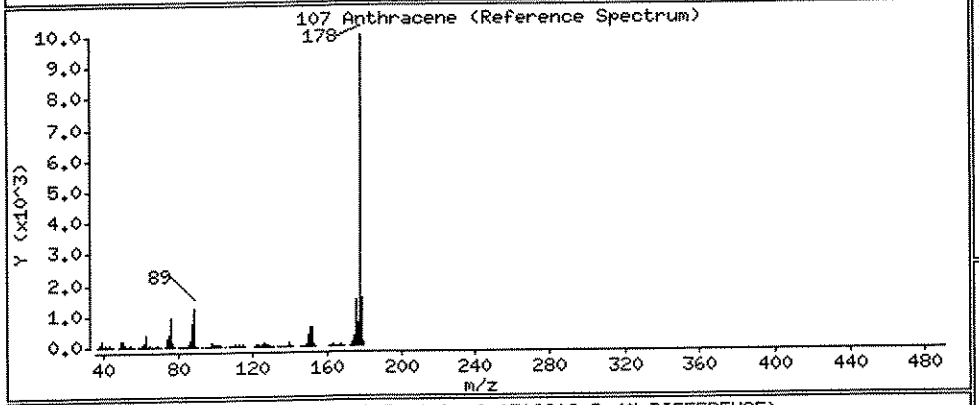
Concentration: 1415 UG/KG

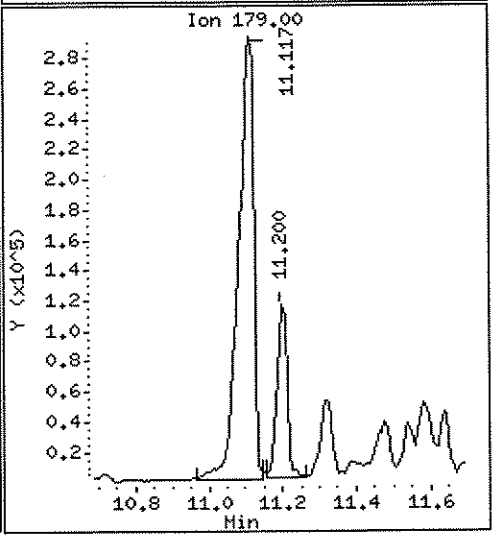


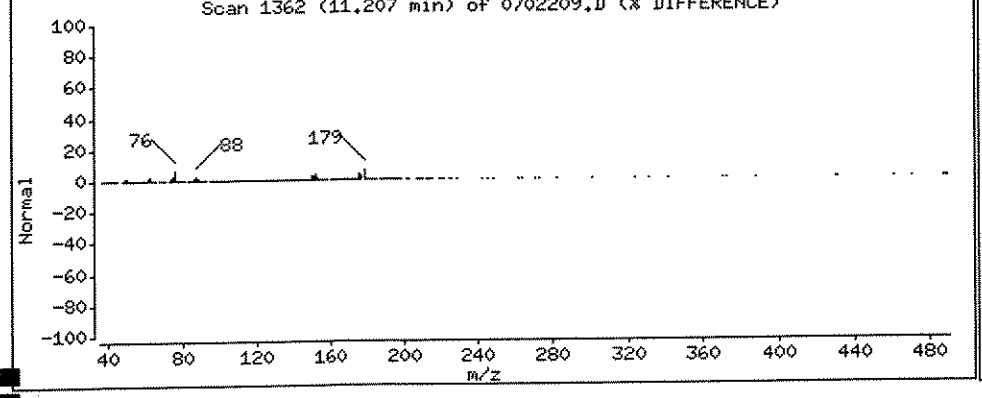












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

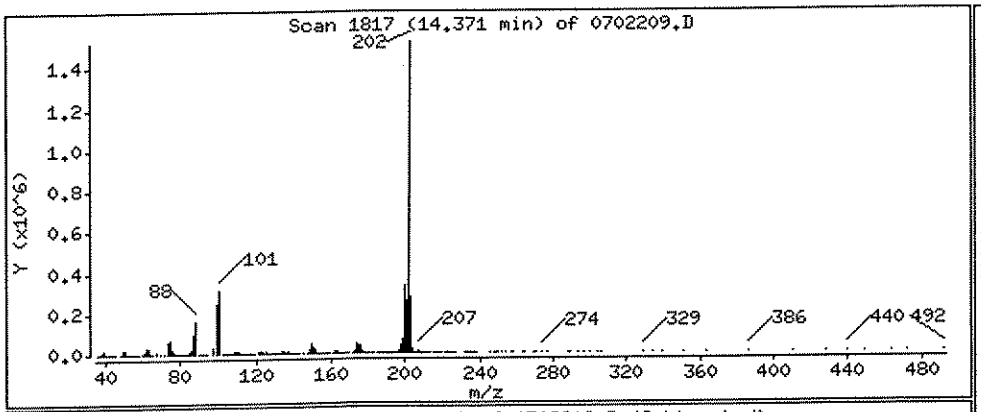
Operator: SDB

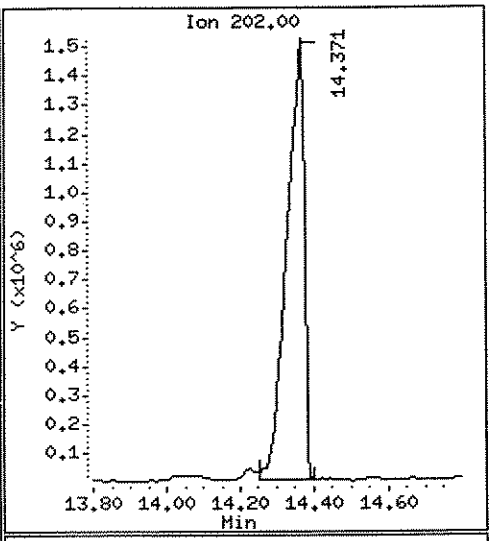
Column phase: fused silica

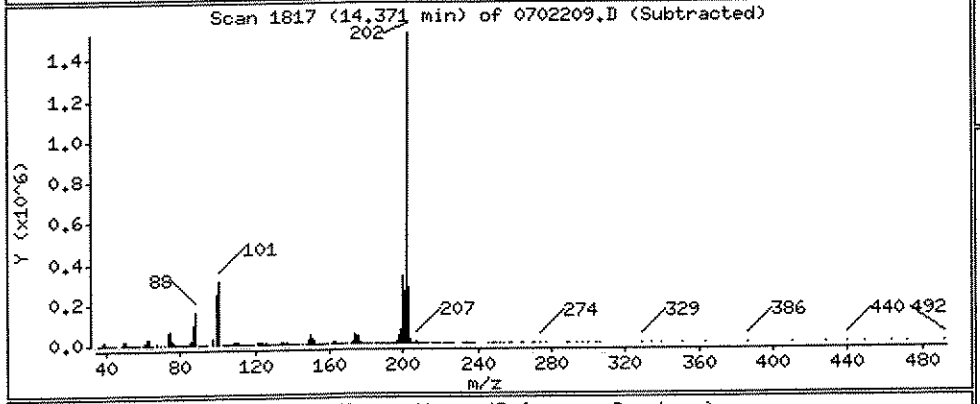
Column diameter: 0.25

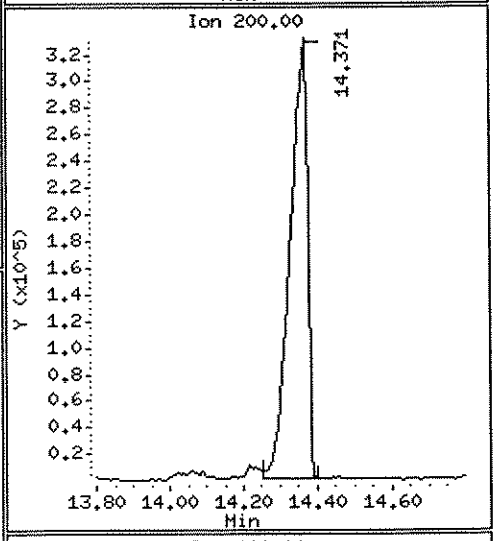
110 Fluoranthene

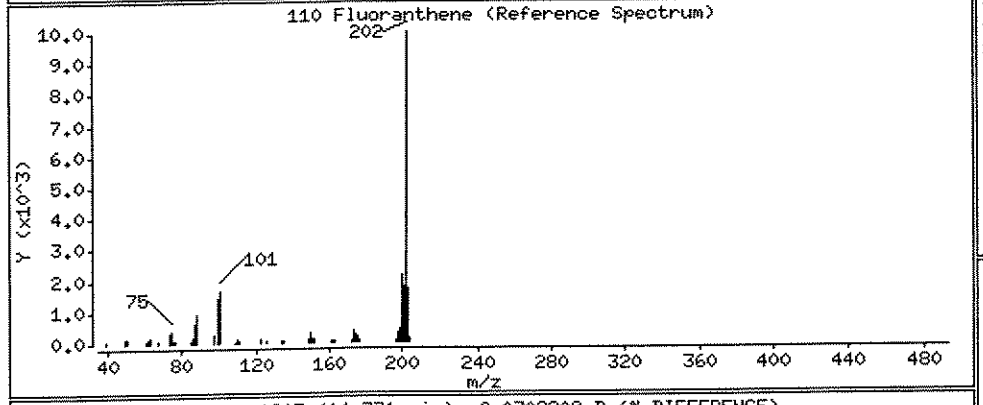
Concentration: 7108 UG/KG

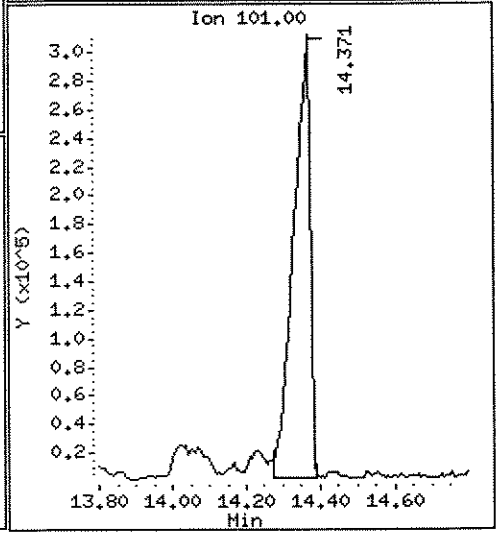


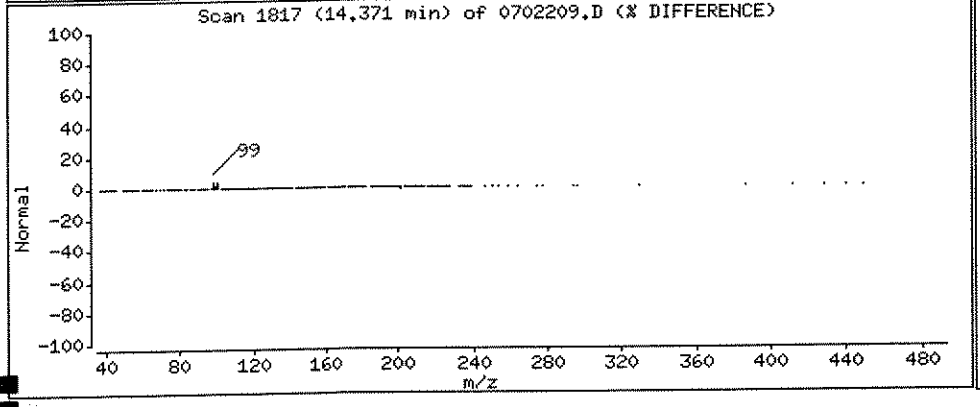












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

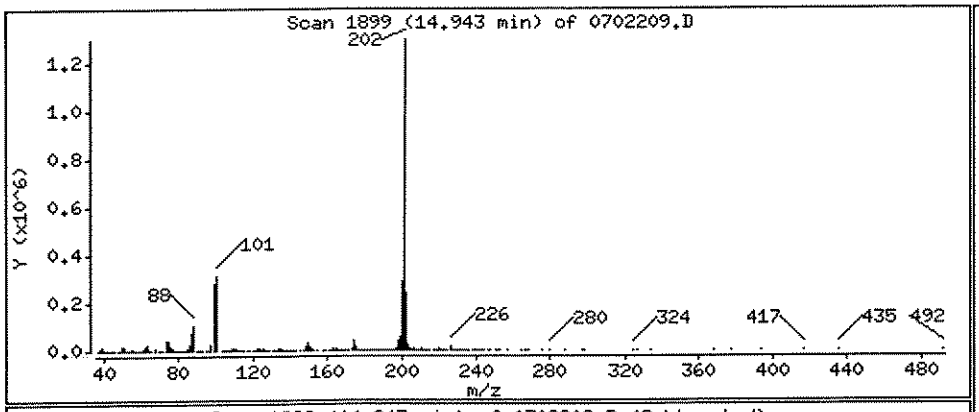
Client ID: 51CFM07S060706 Instrument: bna1.i

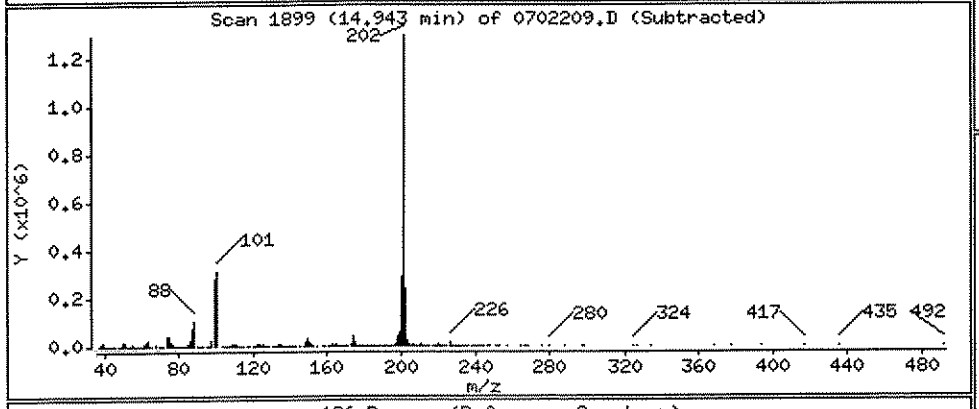
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

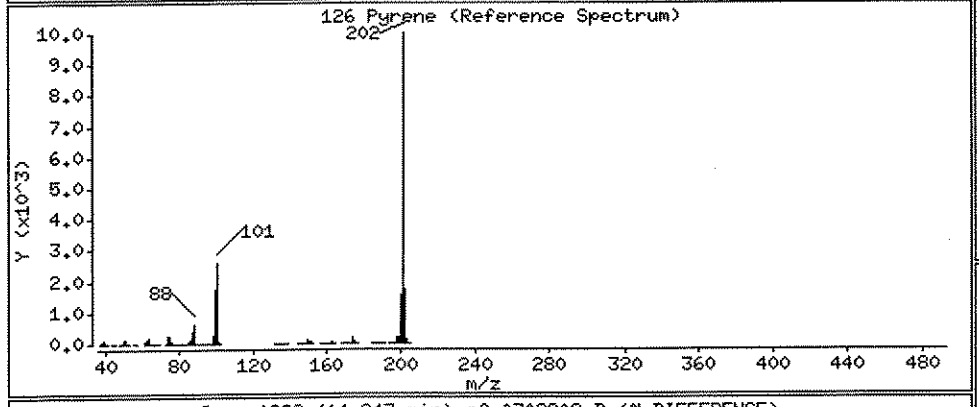
Volume Injected (uL): 0.5 Operator: SDB

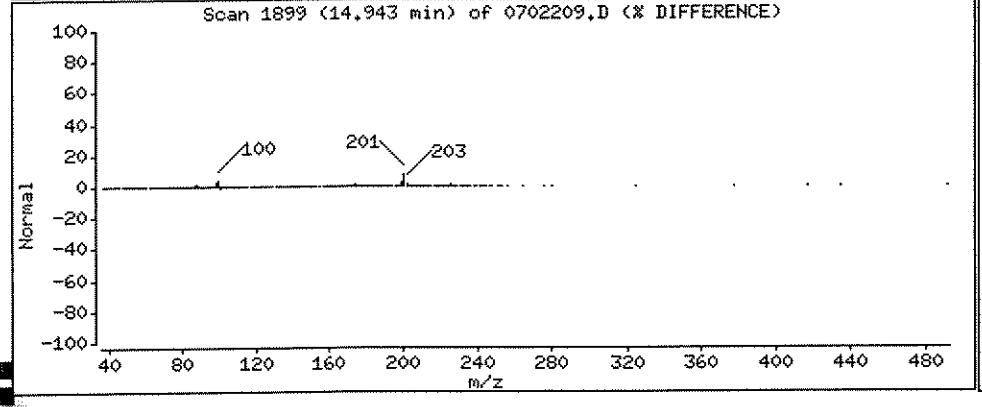
Column phase: fused silica Column diameter: 0.25

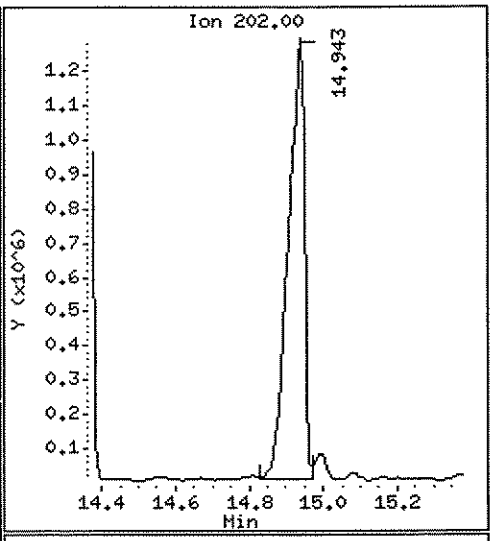
126 Pyrene Concentration: 13340 UG/KG

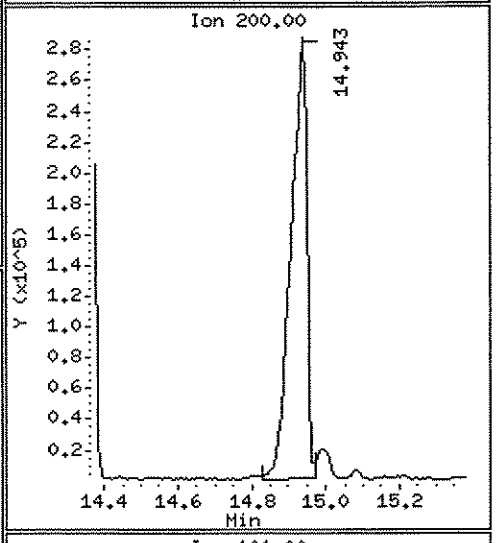


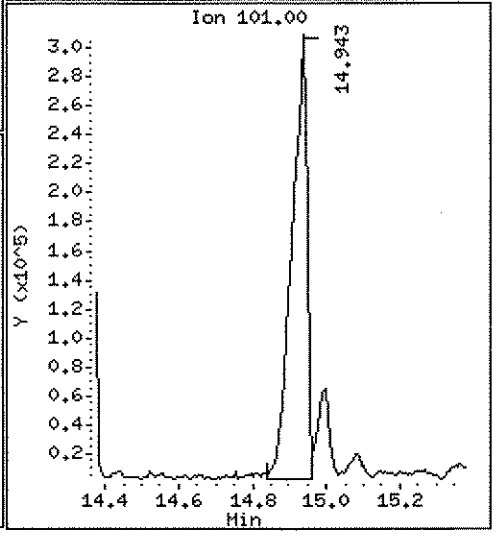












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Date : 10-JUL-2006 18:38

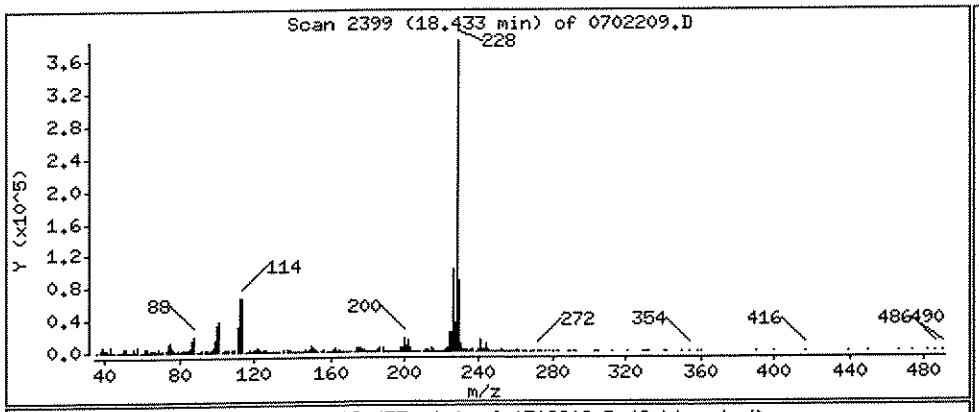
Client ID: 51CFM07S060706 Instrument: bna1.i

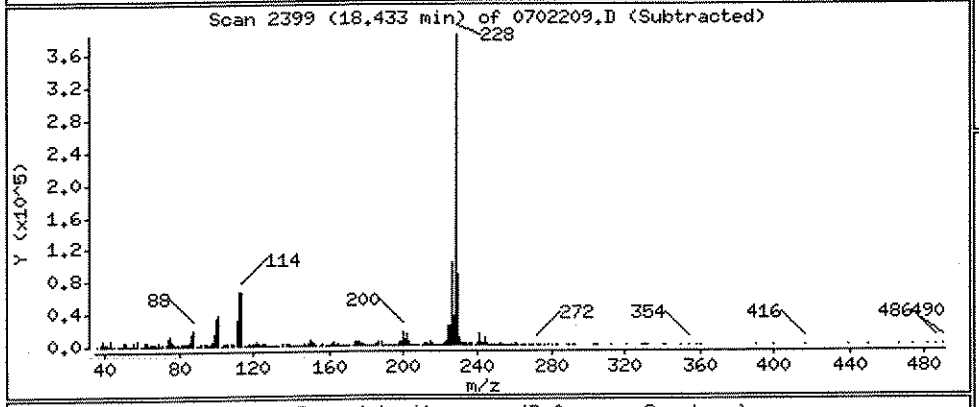
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

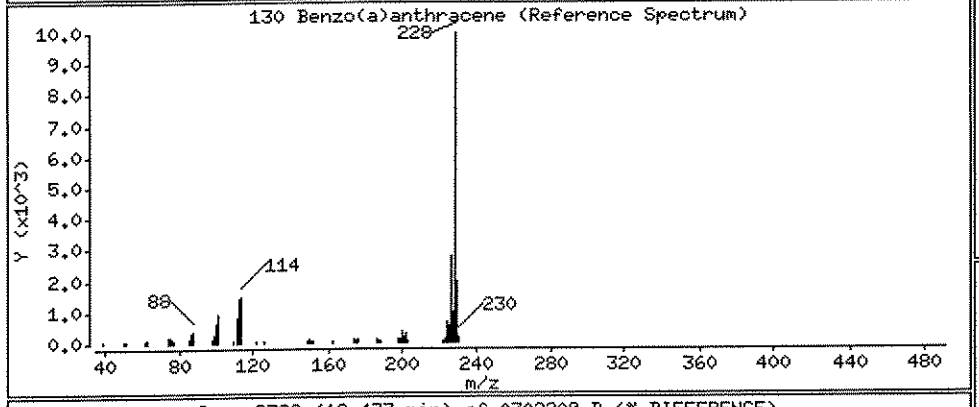
Volume Injected (uL): 0.5 Operator: SDB

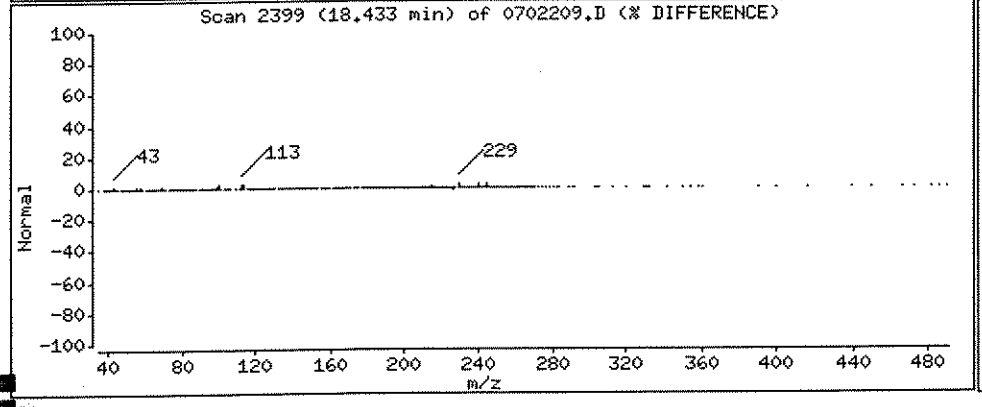
Column phase: fused silica Column diameter: 0.25

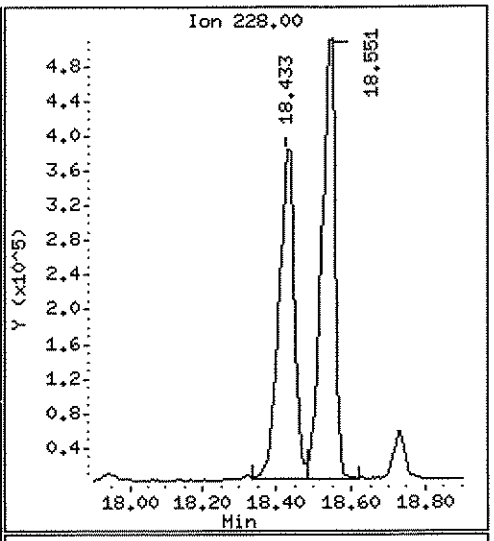
130 Benzo(a)anthracene Concentration: 4789 UG/KG

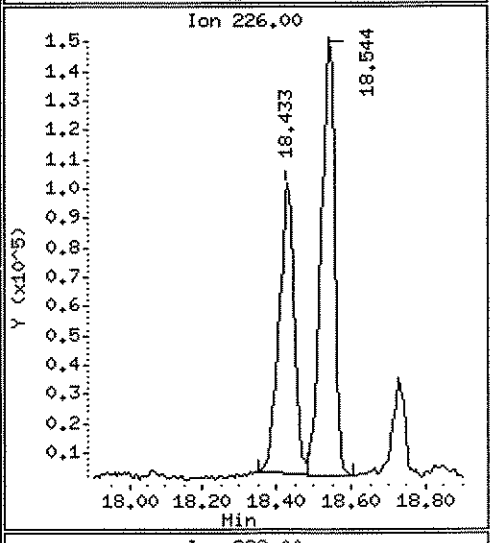


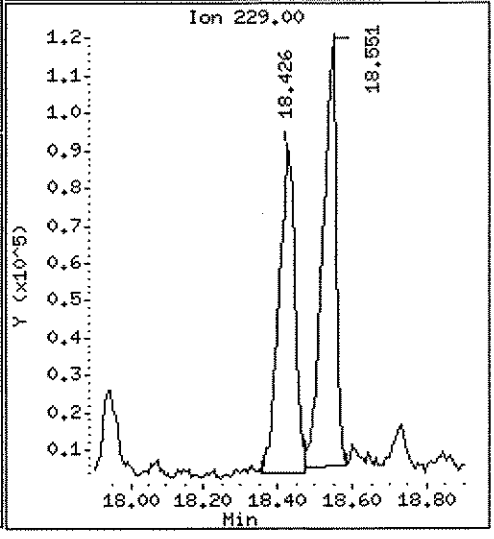












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000242

Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

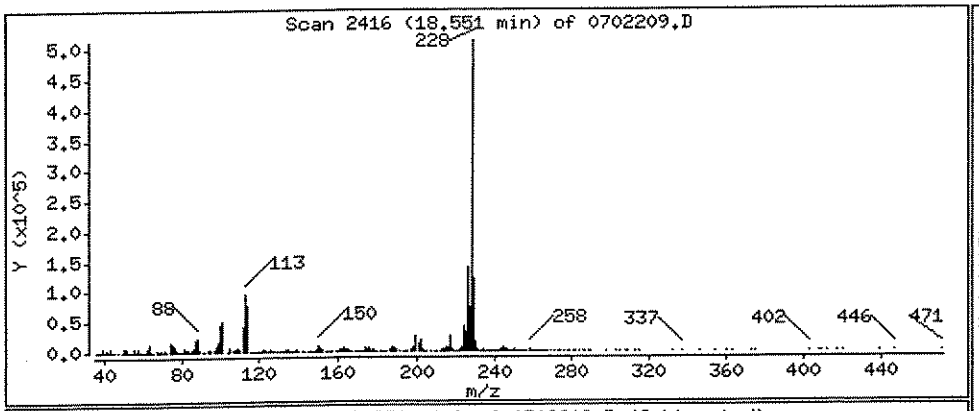
Operator: SDB

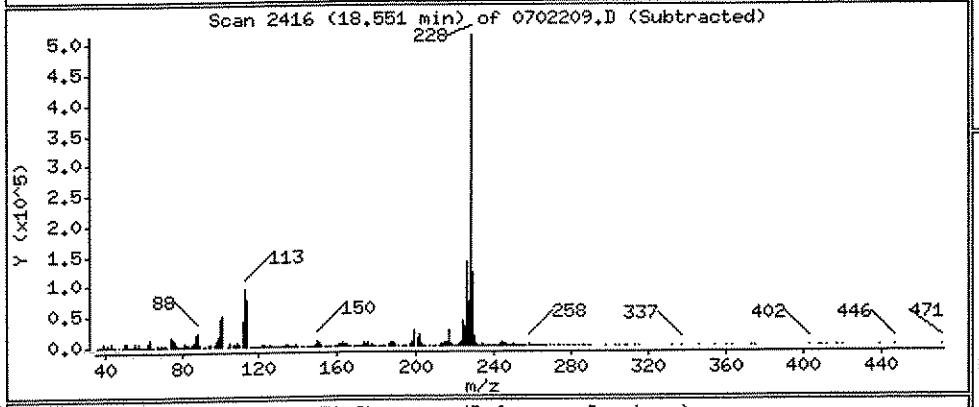
Column phase: fused silica

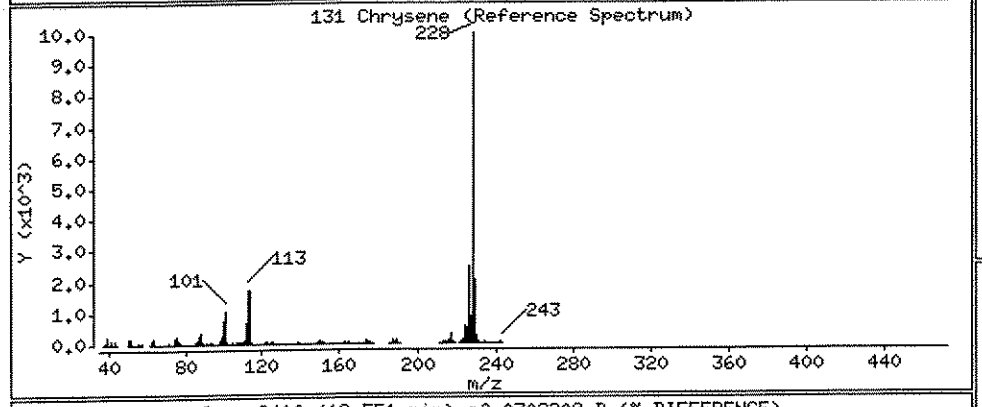
Column diameter: 0.25

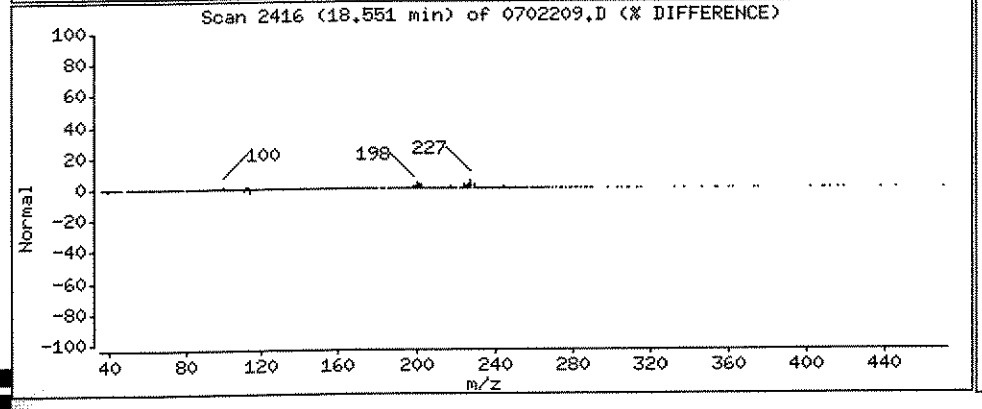
131 Chrysene

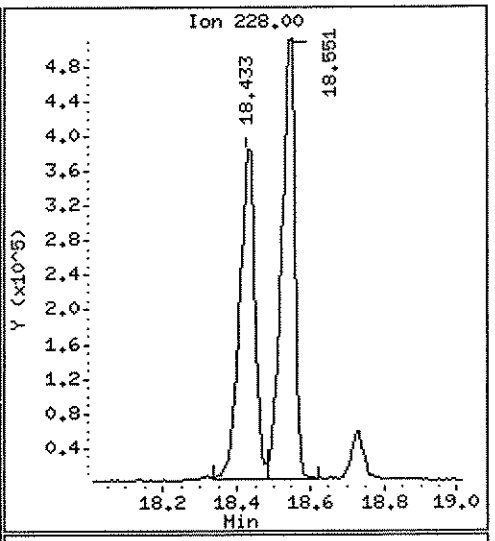
Concentration: 6076 UG/KG

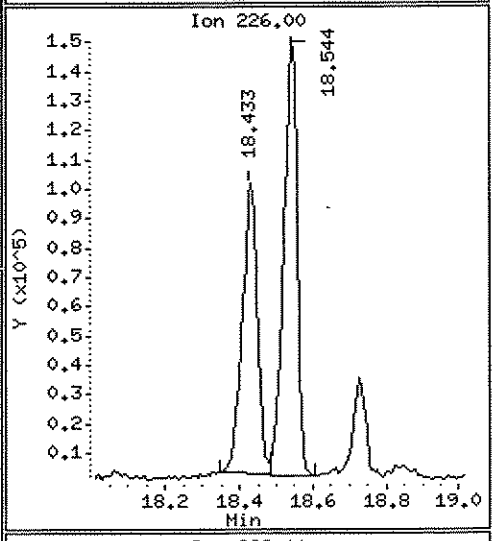


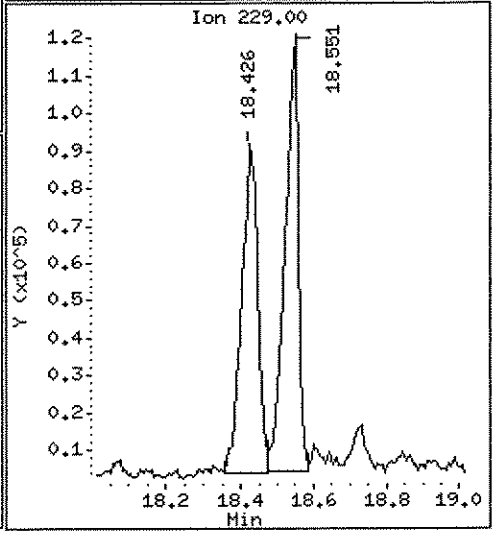












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

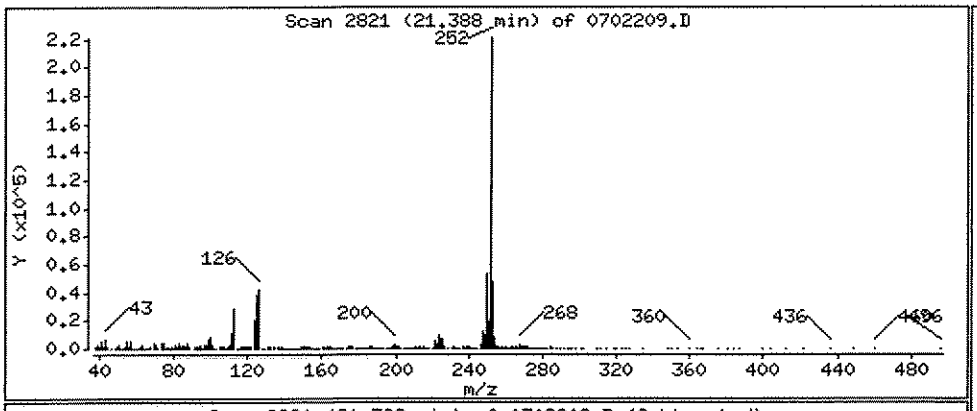
Client ID: 51CFM07S060706 Instrument: bna1.i

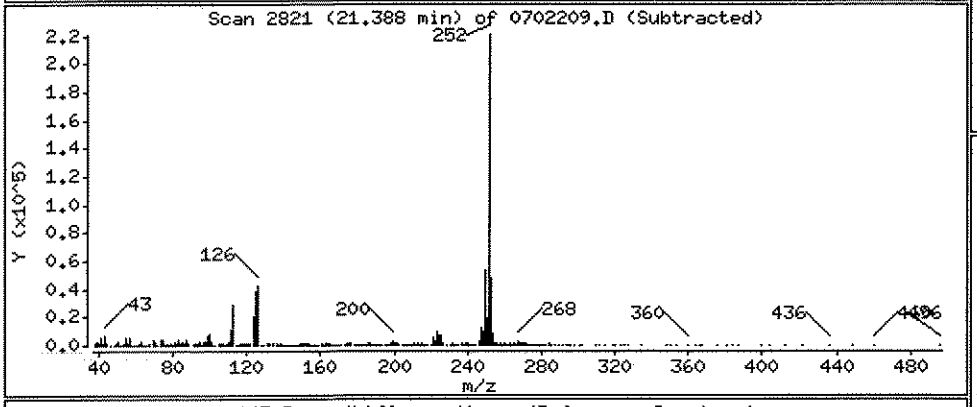
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

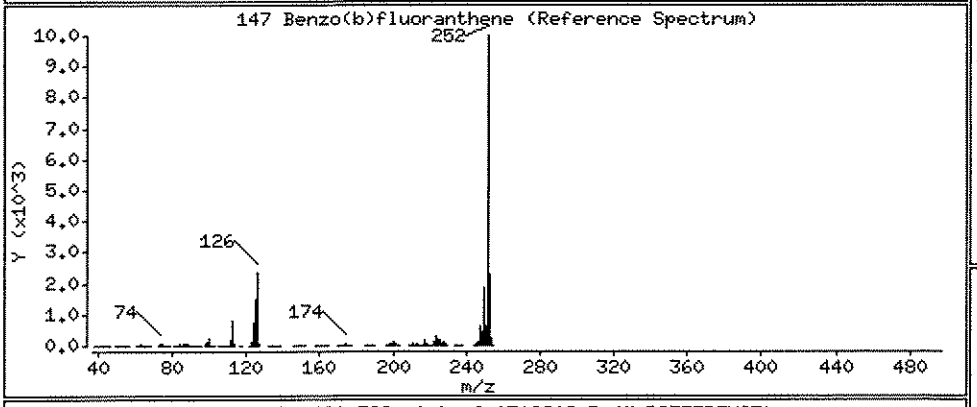
Volume Injected (uL): 0.5 Operator: SDB

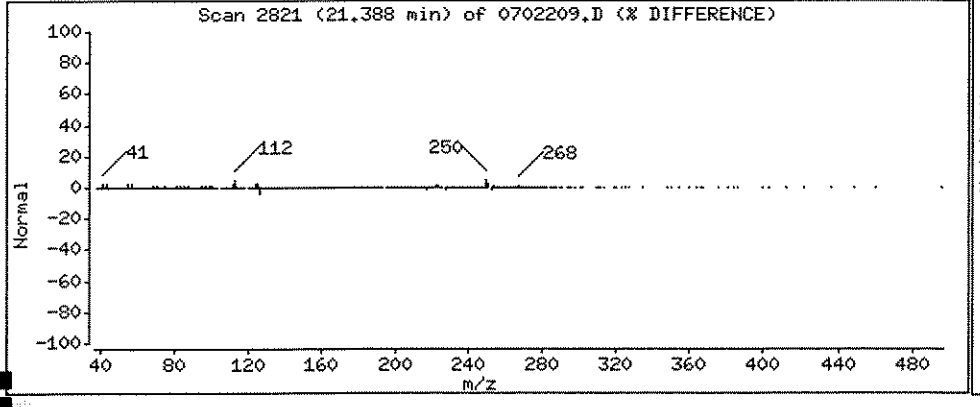
Column phase: fused silica Column diameter: 0.25

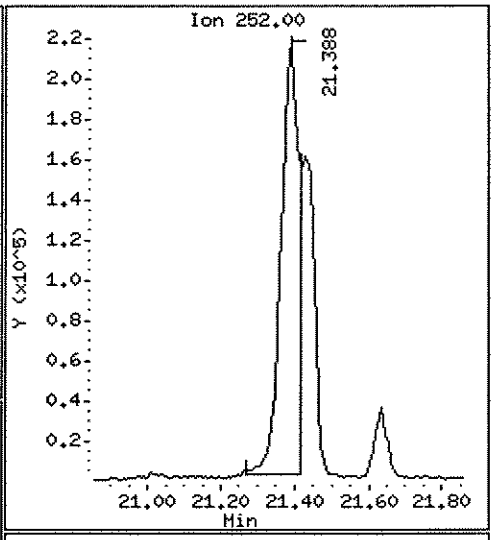
147 Benzo(b)fluoranthene Concentration: 6056 UG/KG

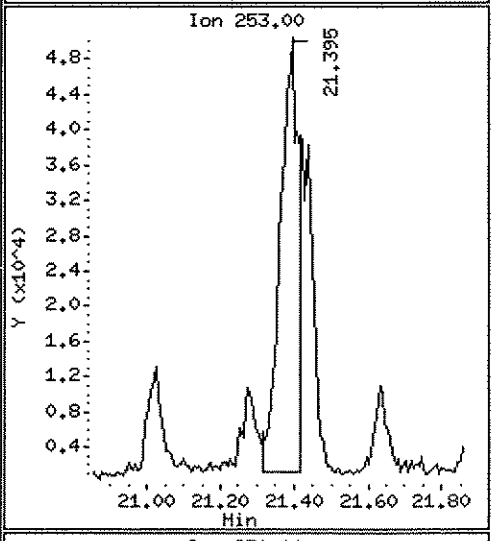


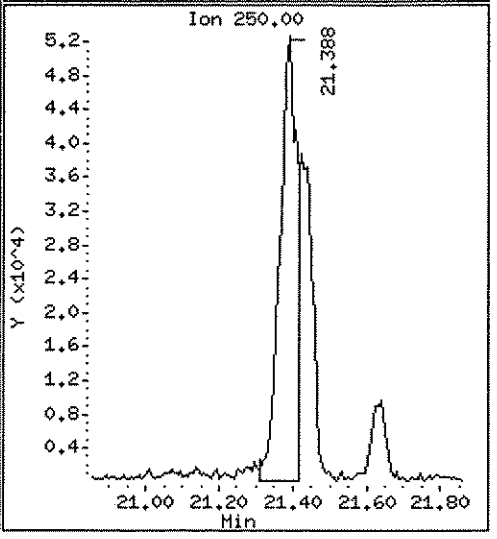












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

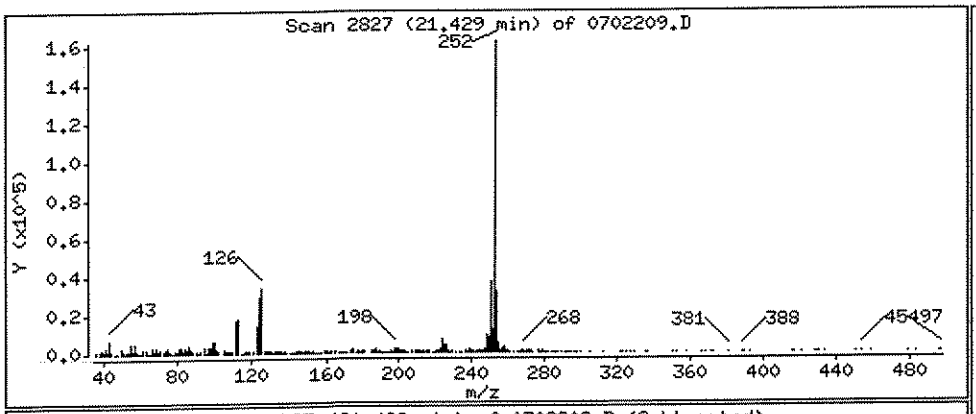
Client ID: 51CFM07S060706 Instrument: bna1.i

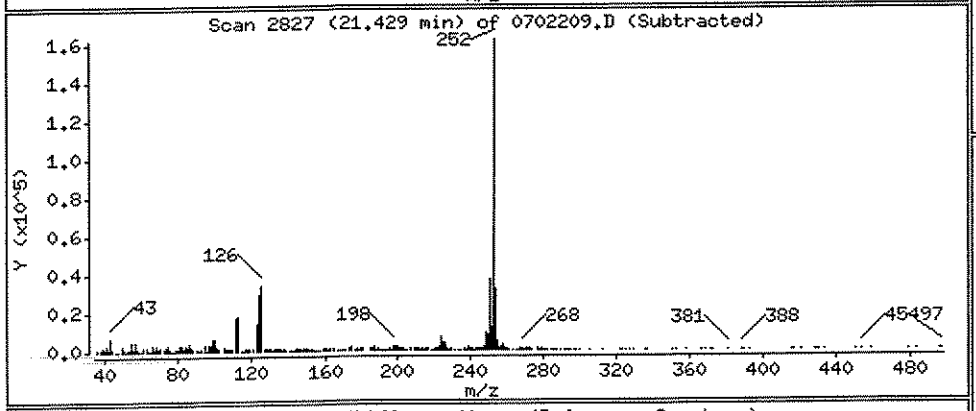
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

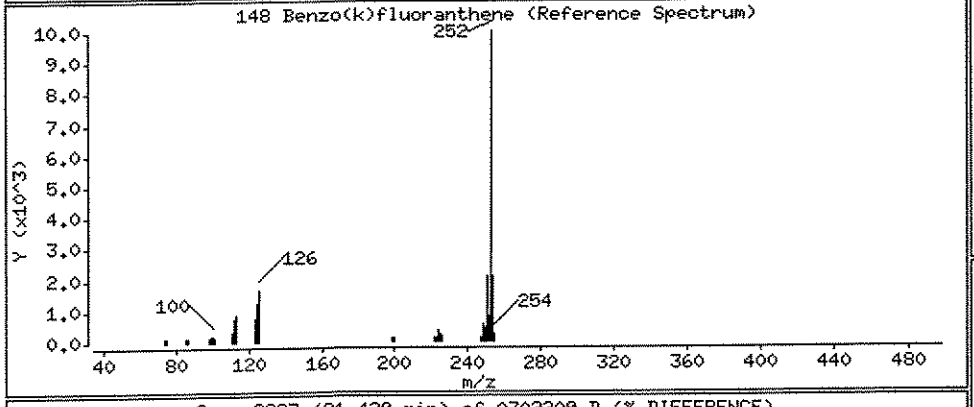
Volume Injected (uL): 0.5 Operator: SDB

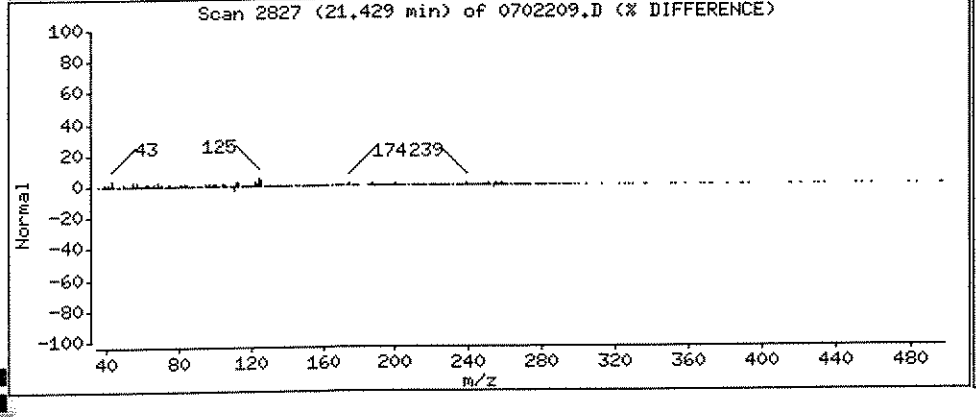
Column phase: fused silica Column diameter: 0.25

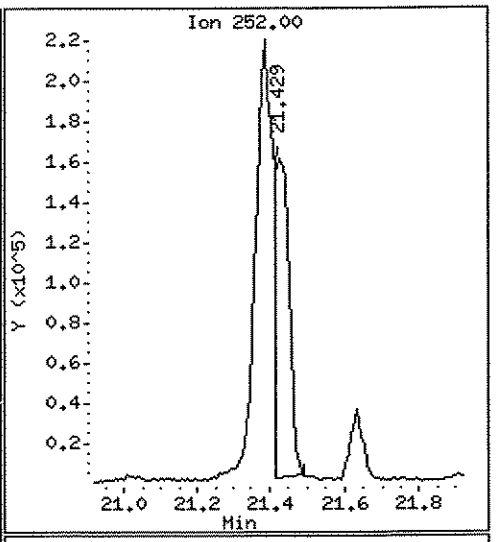
148 Benzo(k)fluoranthene Concentration: 3452 UG/KG

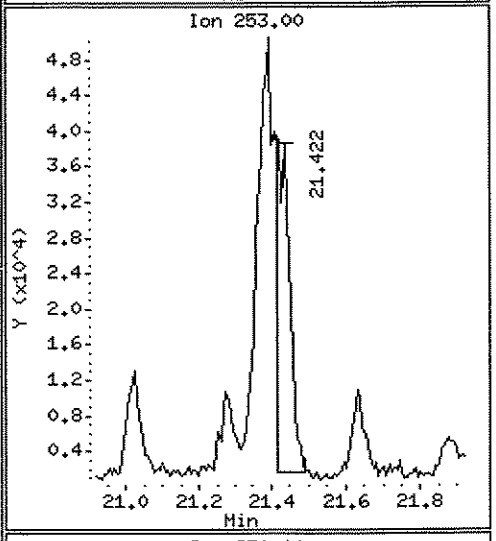


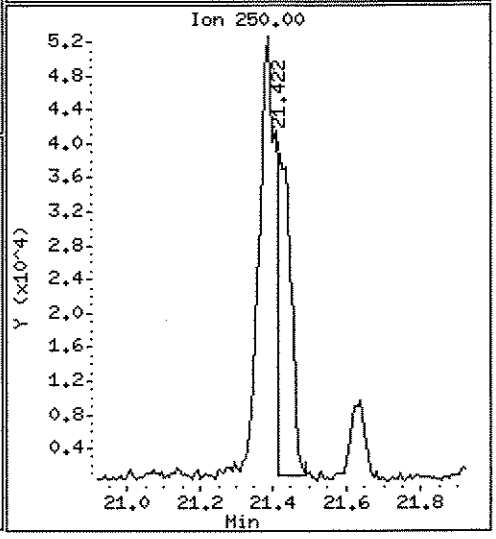












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

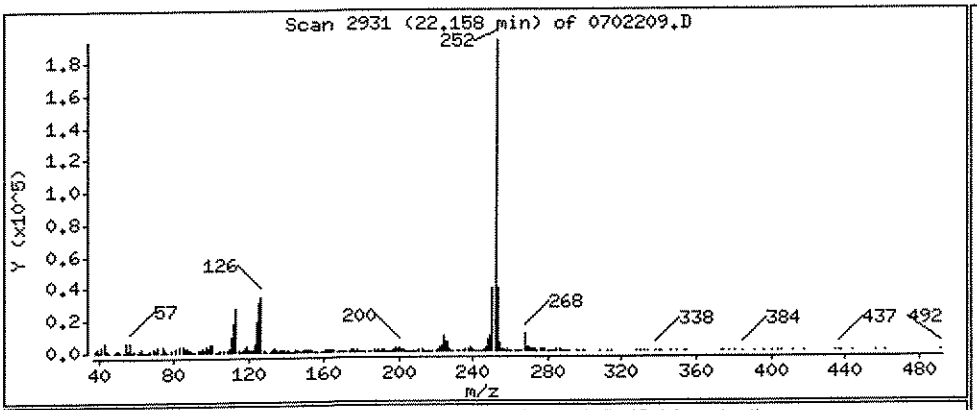
Operator: SDB

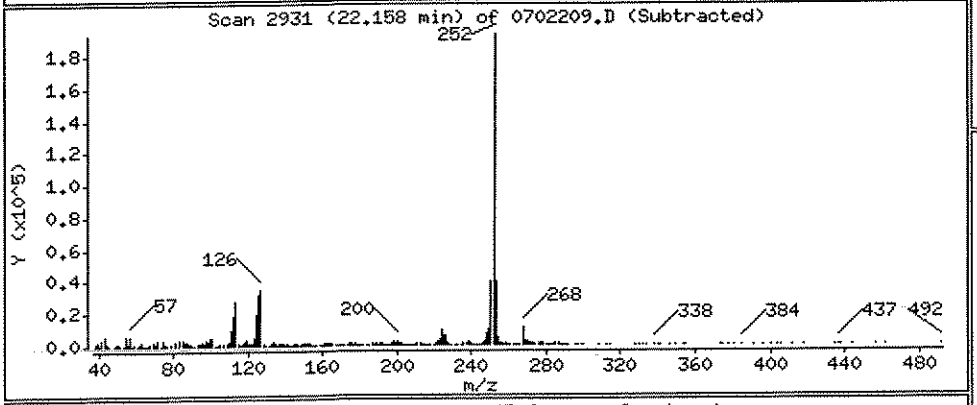
Column phase: fused silica

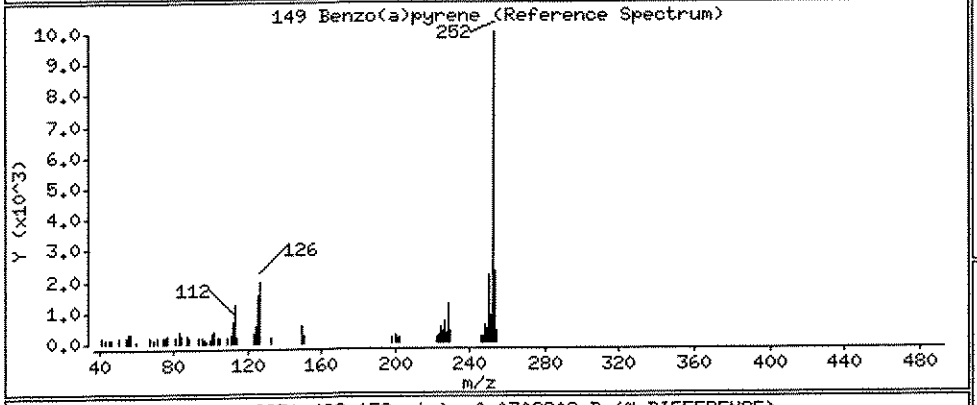
Column diameter: 0.25

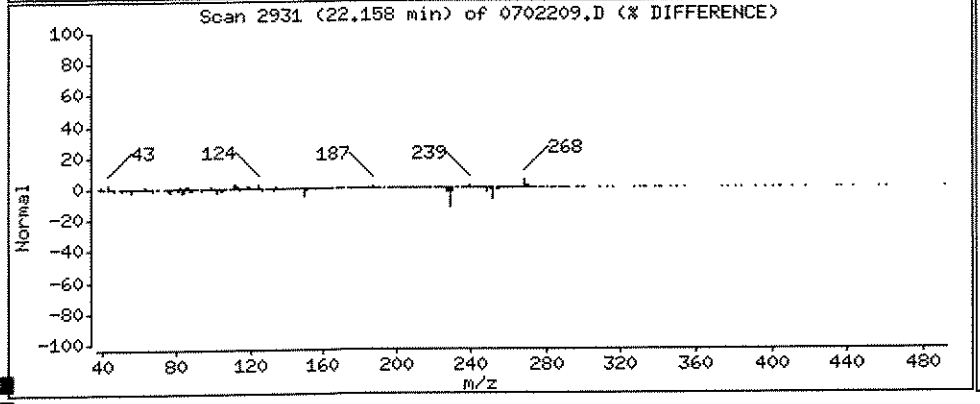
149 Benzo(a)pyrene

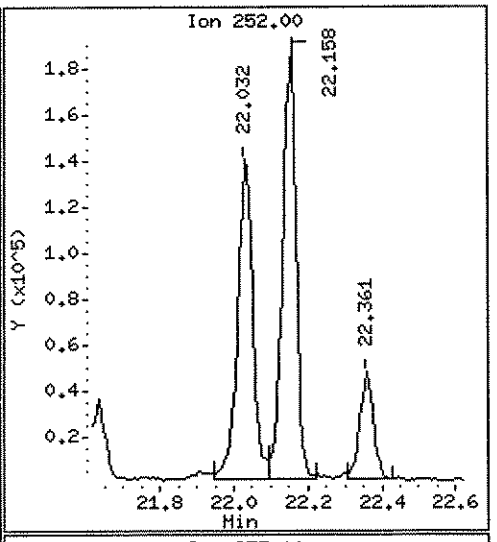
Concentration: 4720 UG/KG

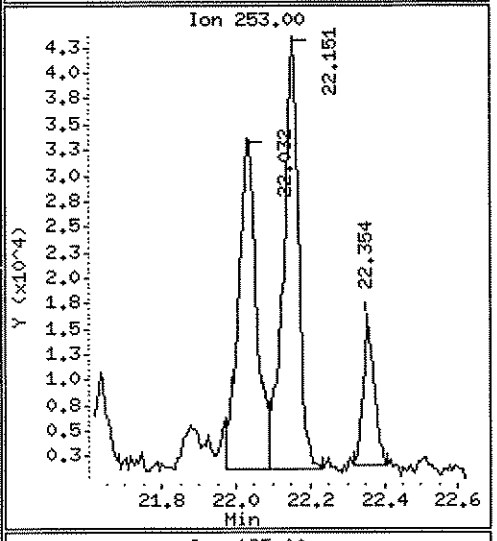


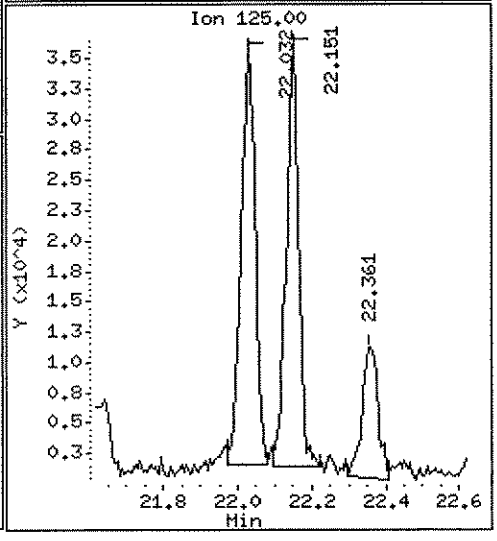












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

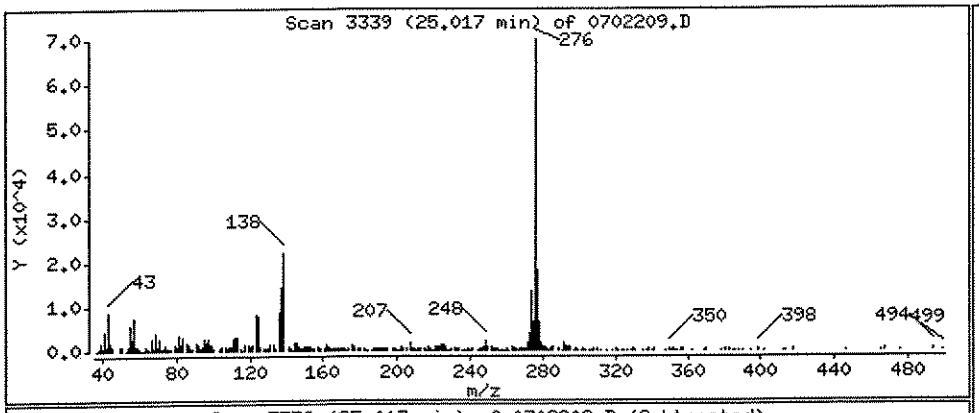
Client ID: 51CFM07S060706 Instrument: bna1.i

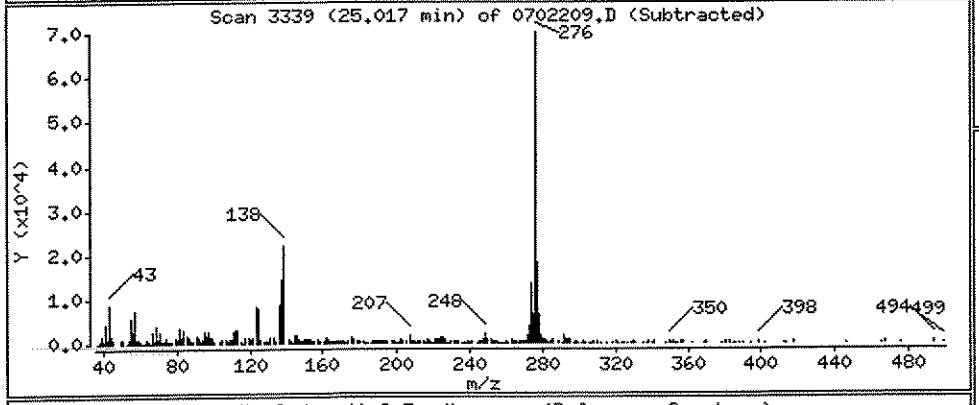
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

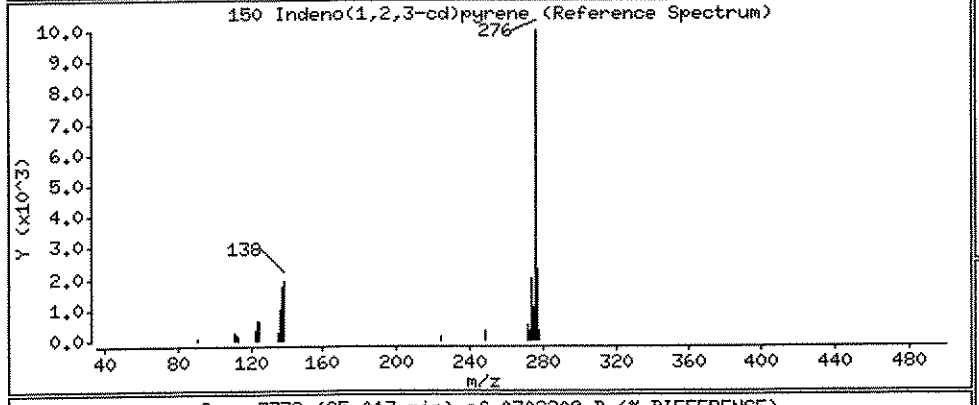
Volume Injected (uL): 0.5 Operator: SDB

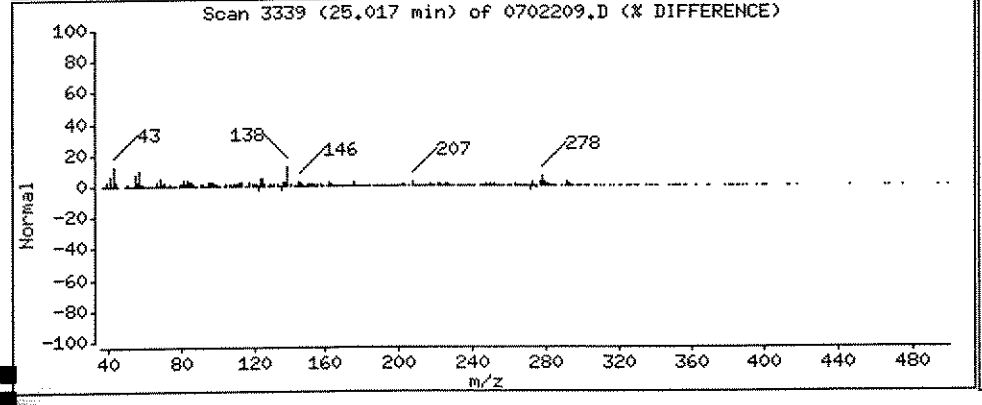
Column phase: fused silica Column diameter: 0.25

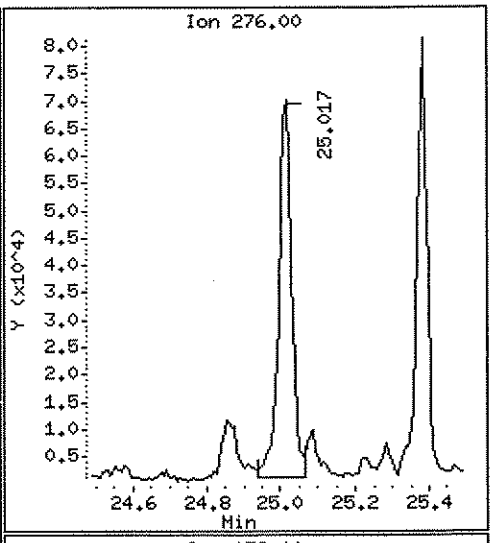
150 Indeno(1,2,3-cd)pyrene Concentration: 1932 UG/KG

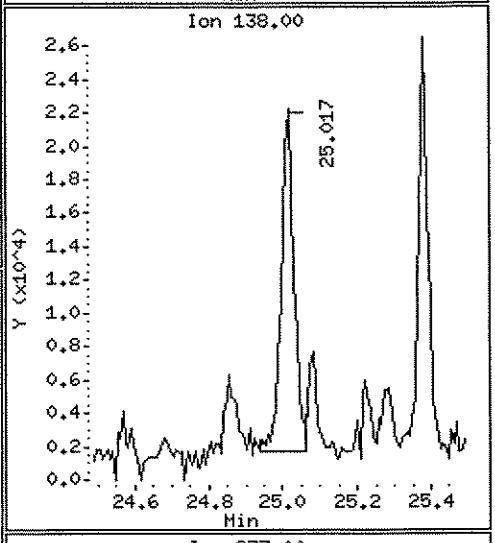


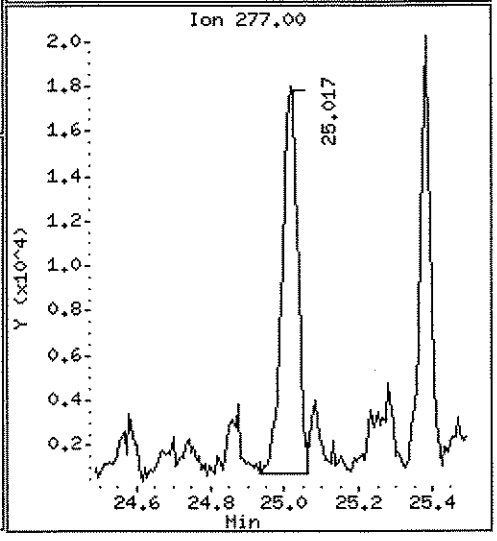












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

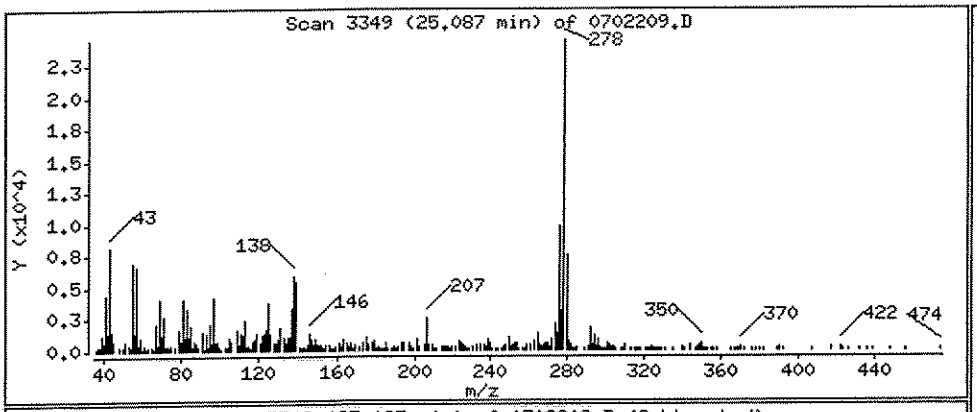
Client ID: 51CFM07S060706 Instrument: bna1.i

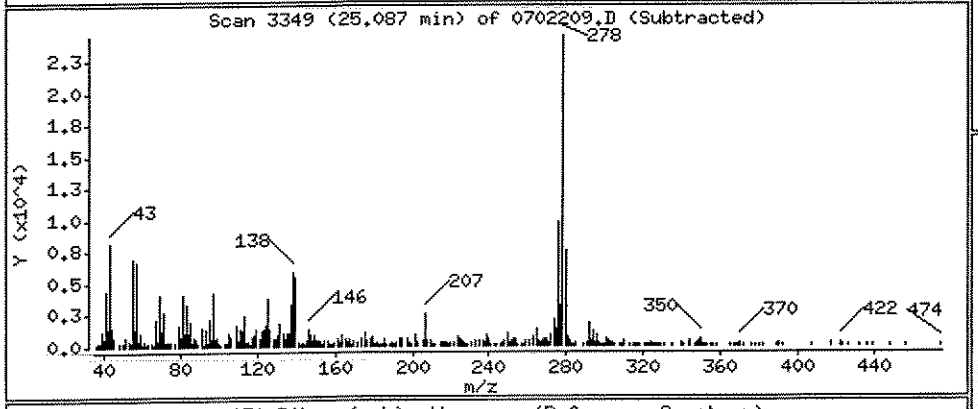
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

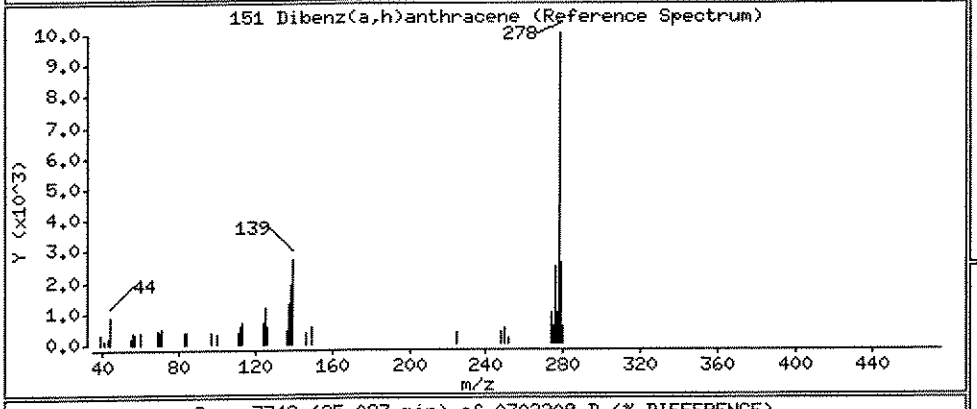
Volume Injected (uL): 0.5 Operator: SDB

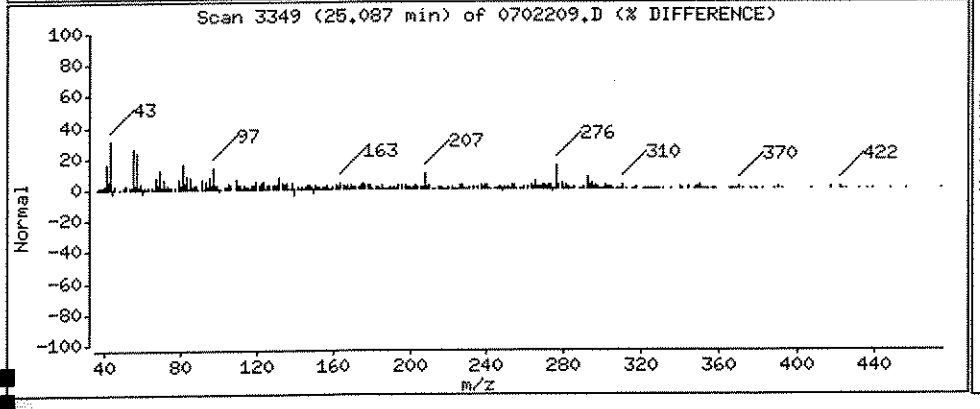
Column phase: fused silica Column diameter: 0.25

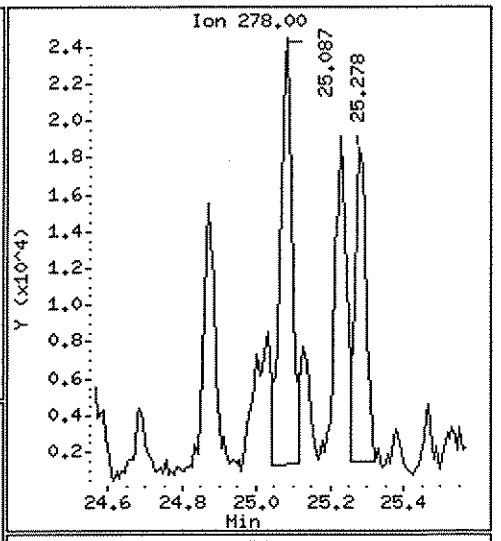
151 Dibenz(a,h)anthracene Concentration: 590.3 UG/KG

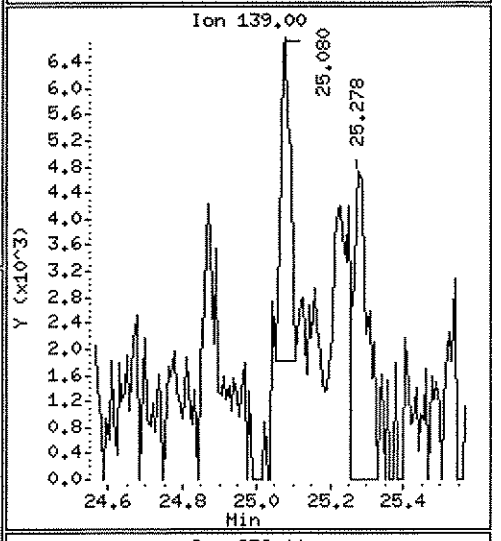


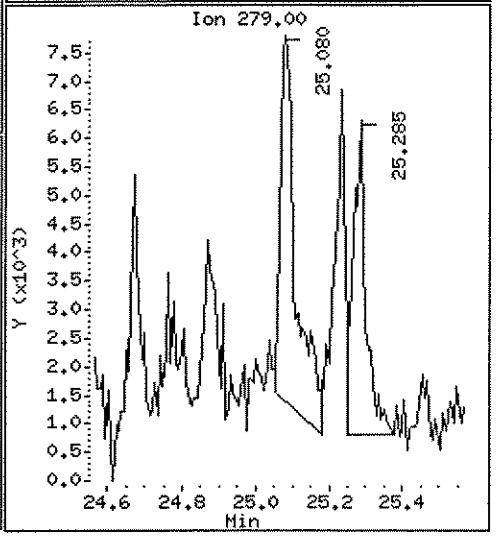












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

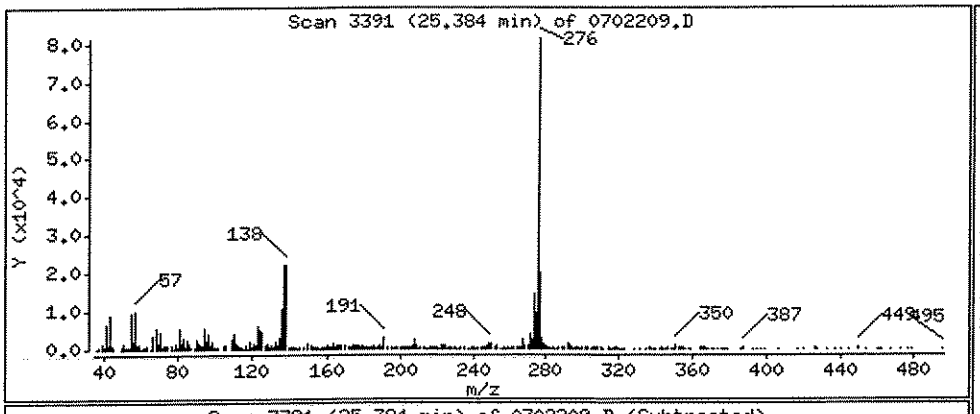
Client ID: 51CFM07S060706 Instrument: bna1.i

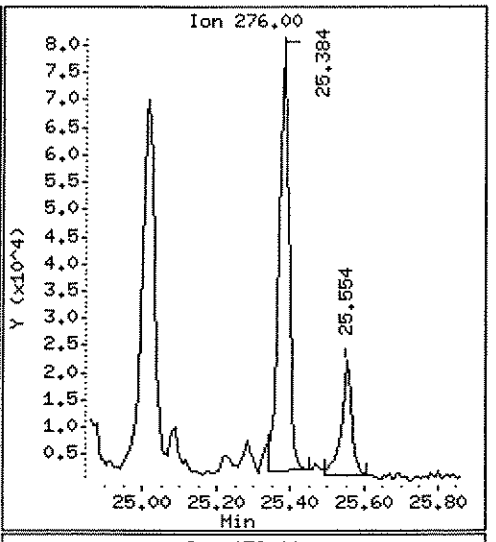
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

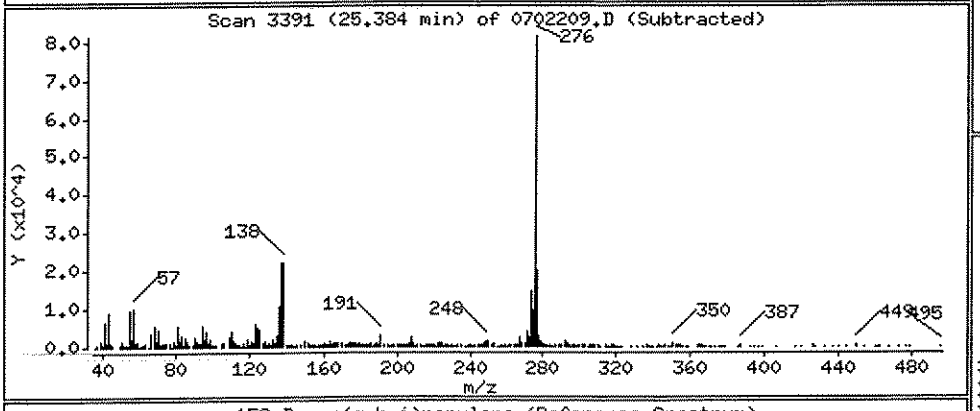
Volume Injected (uL): 0.5 Operator: SDB

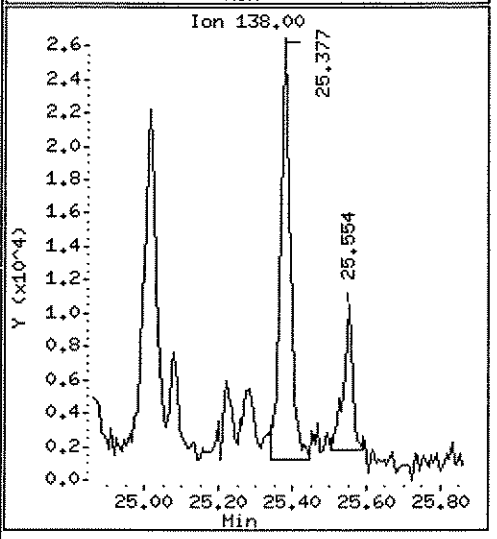
Column phase: fused silica Column diameter: 0.25

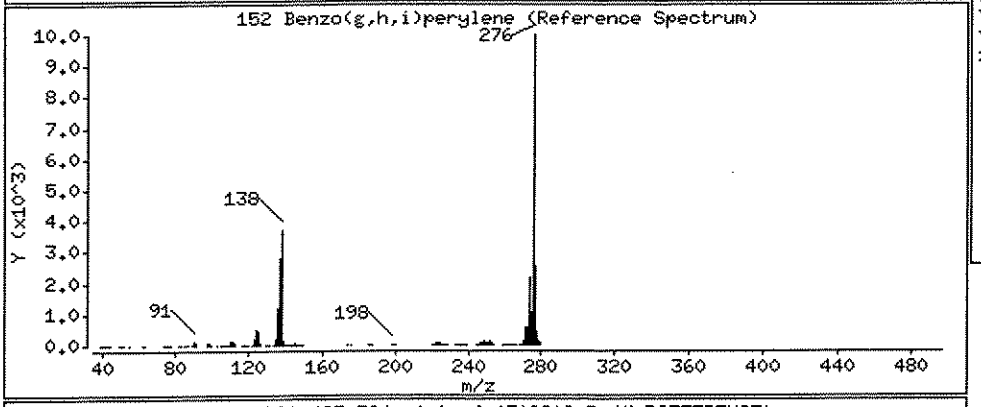
152 Benzo(g,h,i)perylene Concentration: 1668 UG/KG

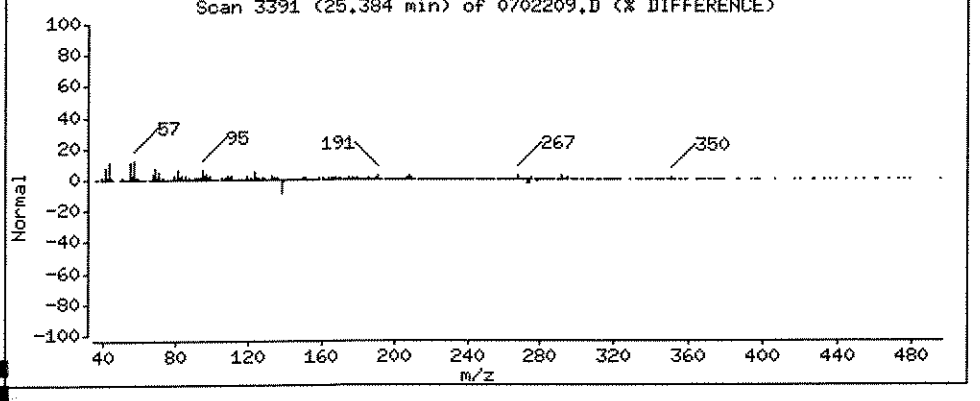












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM07S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:04

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	200	1700	1000	JD
208-96-8	Acenaphthylene	200	1700		UD
120-12-7	Anthracene	200	1700	1300	JD
56-55-3	Benzo(a)anthracene	200	1700	4400	D
205-99-2	Benzo(b)fluoranthene	200	1700	5000	D
207-08-9	Benzo(k)fluoranthene	200	1700	2200	D
191-24-2	Benzo(g,h,i)perylene	200	1700	2200	D
50-32-8	Benzo(a)pyrene	200	1000	4300	D
218-01-9	Chrysene	200	1700	5400	D
53-70-3	Dibenz(a,h)anthracene	200	1000	700	JD
206-44-0	Fluoranthene	200	1700	9700	D
86-73-7	Fluorene	200	1700	960	JD
193-39-5	Indeno(1,2,3-cd)pyrene	200	1700	2400	D
91-57-6	2-Methylnaphthalene	200	1700	270	JD
90-12-0	1-Methylnaphthalene	500	1700		UD
91-20-3	Naphthalene	200	1700		UD
85-01-8	Phenanthrene	200	1700	7500	D
129-00-0	Pyrene	200	1700	7400	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 11-JUL-2006 15:04
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.235	4.235	(1.000)	541204	40.0000	
* 31 Naphthalene-d8	136	5.236	5.240	(1.000)	1862652	40.0000	
$ 32 Nitrobenzene-d5	82	4.668	4.668	(0.892)	116344	5.72187	1928
51 2-Methylnaphthalene	141	5.996	6.004	(1.145)	21119	0.79362	267.5(a)
* 65 Acenaphthene-d10	164	7.640	7.641	(1.000)	930885	40.0000	
$ 70 2-Fluorobiphenyl	172	6.544	6.555	(0.857)	160915	5.43197	1831
76 Acenaphthene	153	7.688	7.703	(1.006)	79618	2.96355	998.8(a)
84 Fluorene	166	8.716	8.727	(1.141)	81781	2.84610	959.2(a)
* 97 Phenanthrene-d10	188	10.926	10.923	(1.000)	1267737	40.0000	
106 Phenanthrene	178	10.975	10.986	(1.004)	808314	22.3625	7537
107 Anthracene	178	11.078	11.096	(1.014)	137306	3.84766	1297(a)
110 Fluoranthene	202	14.191	14.195	(1.299)	1028549	28.7417	9687
* 124 Chrysene-d12	240	18.336	18.333	(1.000)	1006098	40.0000	

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Report Date: 12-Jul-2006 12:13

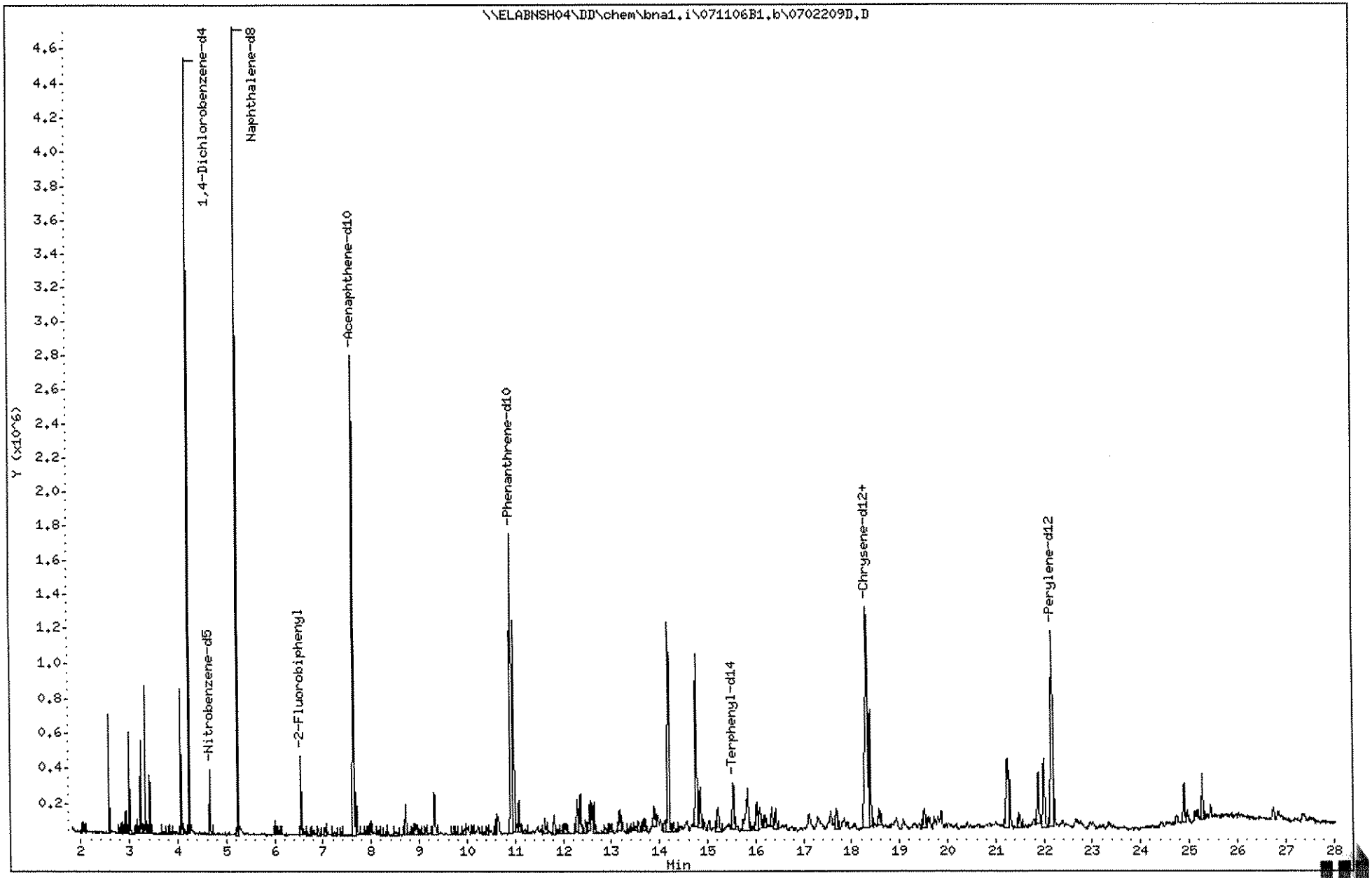
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.772	14.770	(0.806)	877292	21.8340	7359
$ 127 Terphenyl-d14	244	15.539	15.545	(0.847)	124553	4.90264	1652(aR)
130 Benzo(a)anthracene	228	18.287	18.291	(0.997)	419531	12.9419	4362
131 Chrysene	228	18.398	18.409	(1.003)	471383	15.9209	5366
* 145 Perylene-d12	264	22.181	22.175	(1.000)	1014347	40.0000	
147 Benzo(b)fluoranthene	252	21.236	21.248	(0.957)	468758	15.0020	5056(M)
148 Benzo(k)fluoranthene	252	21.285	21.317	(0.960)	208980	6.44639	2173(M)
149 Benzo(a)pyrene	252	22.001	22.017	(0.992)	345657	12.8288	4324
150 Indeno(1,2,3-cd)pyrene	276	24.902	24.921	(1.123)	166241	7.23164	2437
151 Dibenz(a,h)anthracene	278	24.972	24.998	(1.126)	48202	2.08283	702.0(a)
152 Benzo(g,h,i)perylene	276	25.280	25.301	(1.140)	158551	6.64626	2240

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Date : 11-JUL-2006 15:04
Client ID: 51CFM07S060706
Instrument: bna1.i
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000253



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

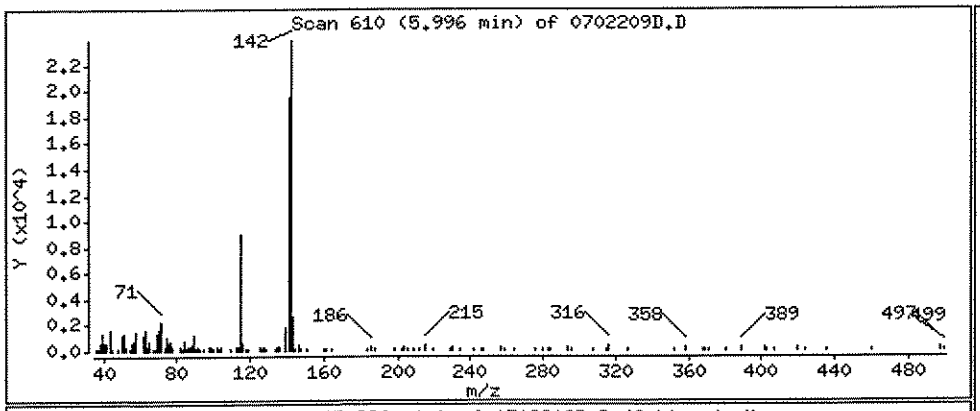
Client ID: 51CFM07S060706 Instrument: bna1.i

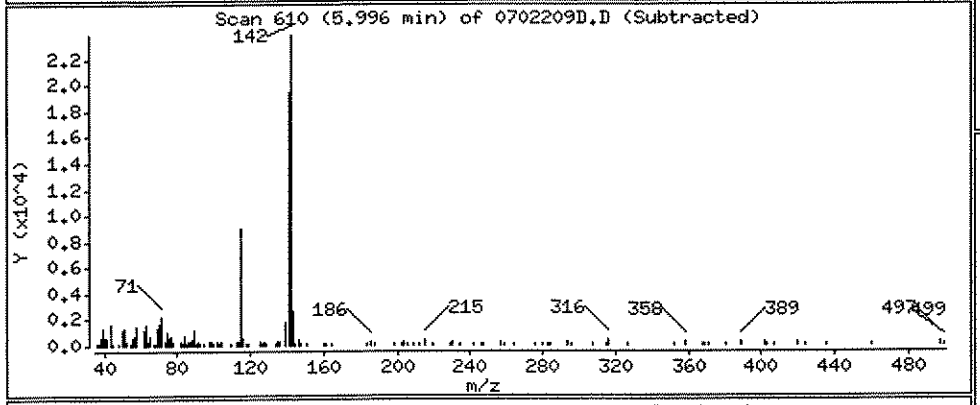
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

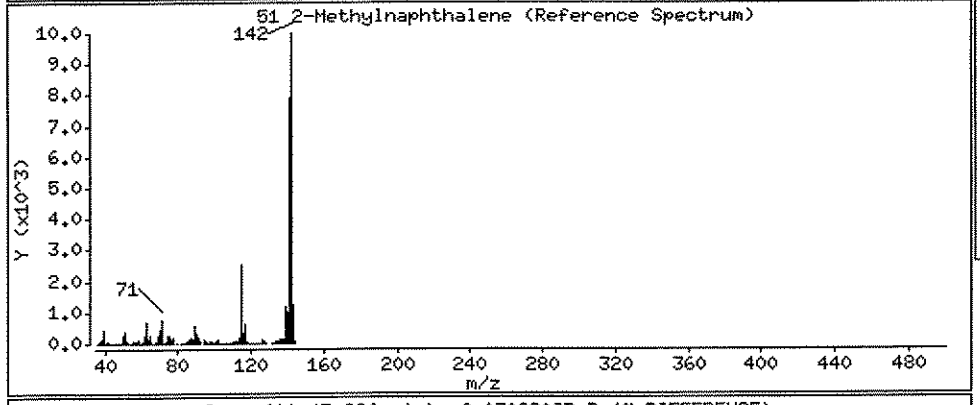
Volume Injected (uL): 0.5 Operator: SDB

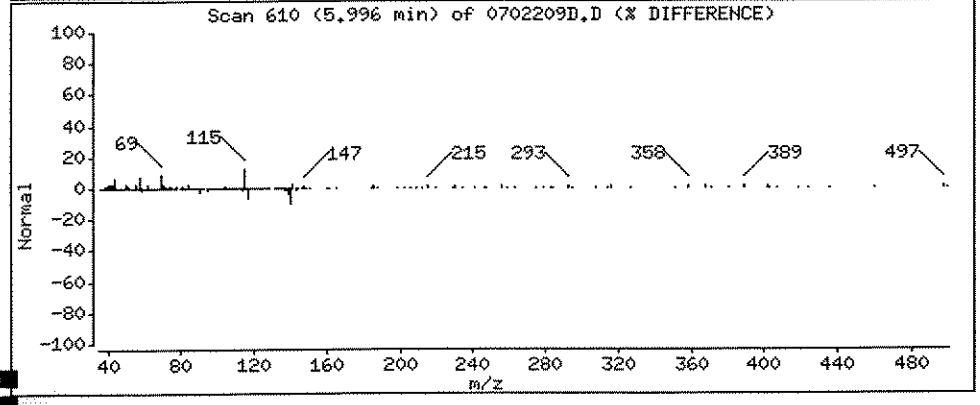
Column phase: fused silica Column diameter: 0.25

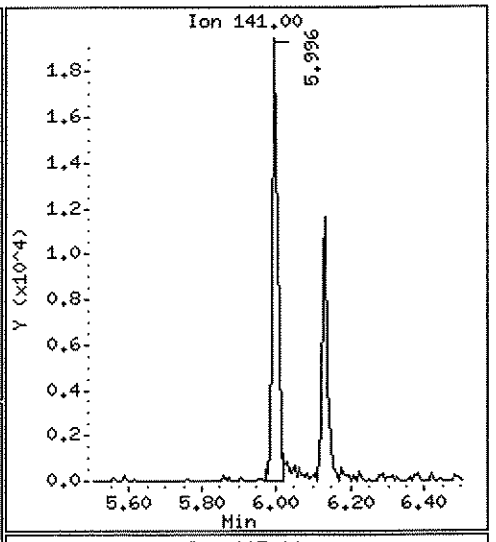
51 2-Methylnaphthalene Concentration: 267.5 UG/KG

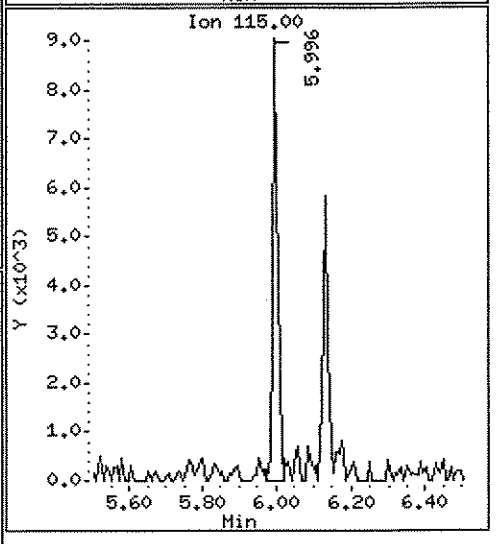












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Date : 11-JUL-2006 15:04

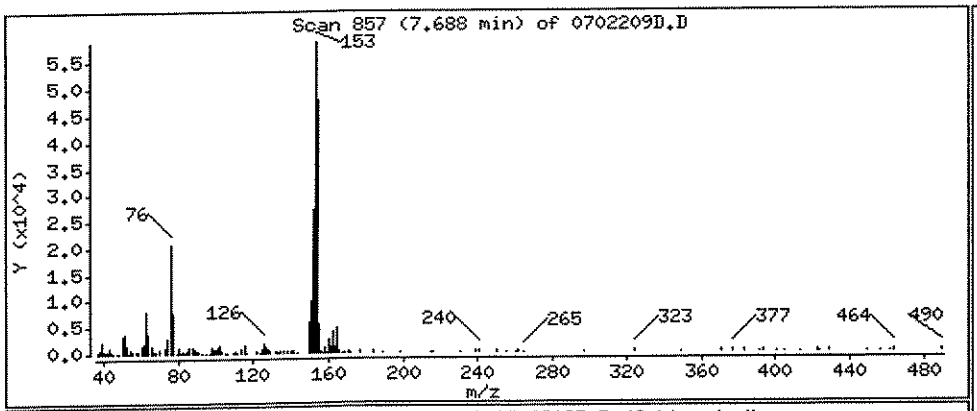
Client ID: 51CFM07S060706 Instrument: bna1.i

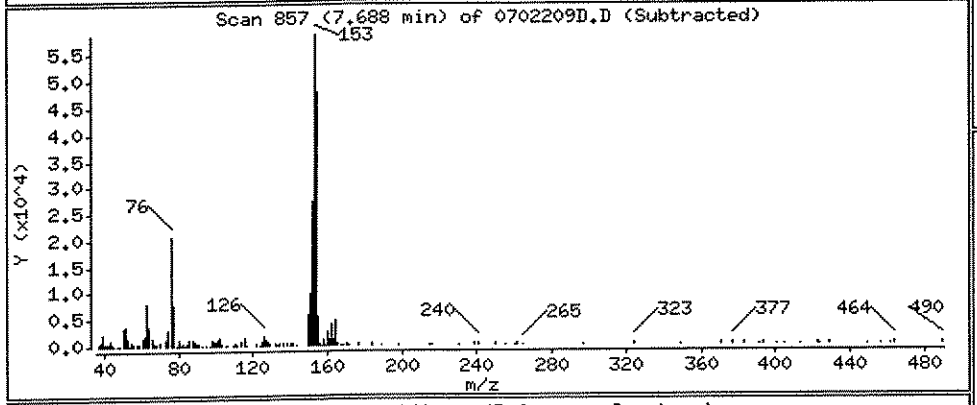
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

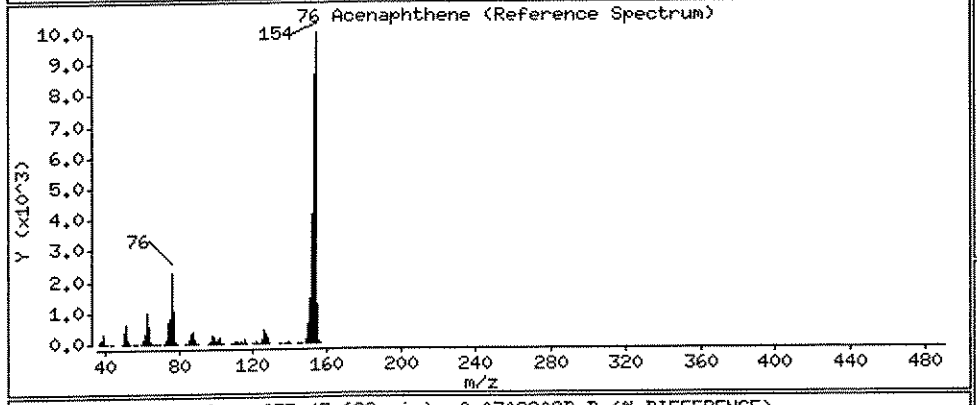
Volume Injected (uL): 0.5 Operator: SDB

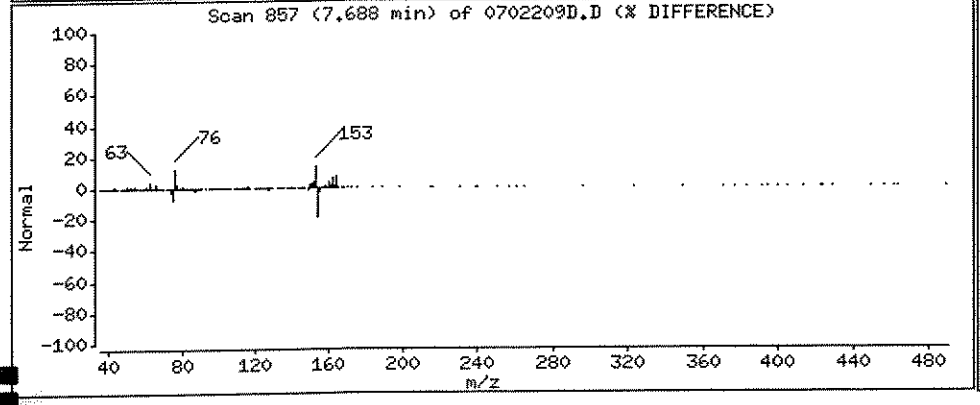
Column phase: fused silica Column diameter: 0.25

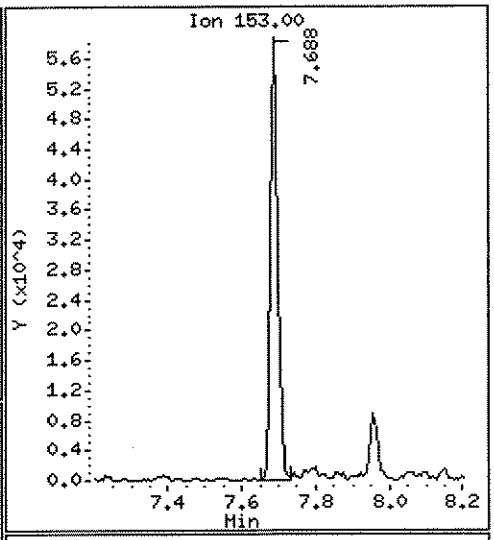
76 Acenaphthene Concentration: 998.8 UG/KG

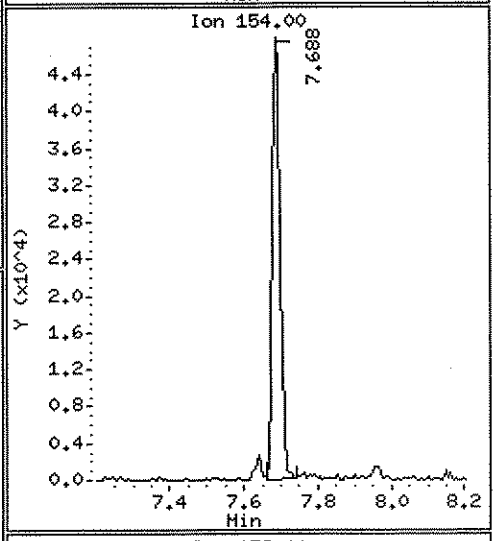


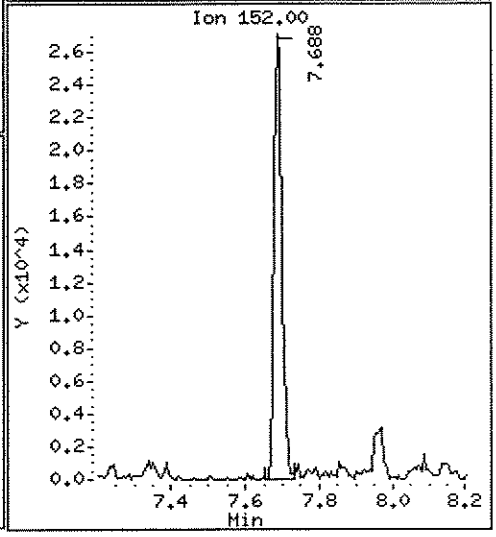












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Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

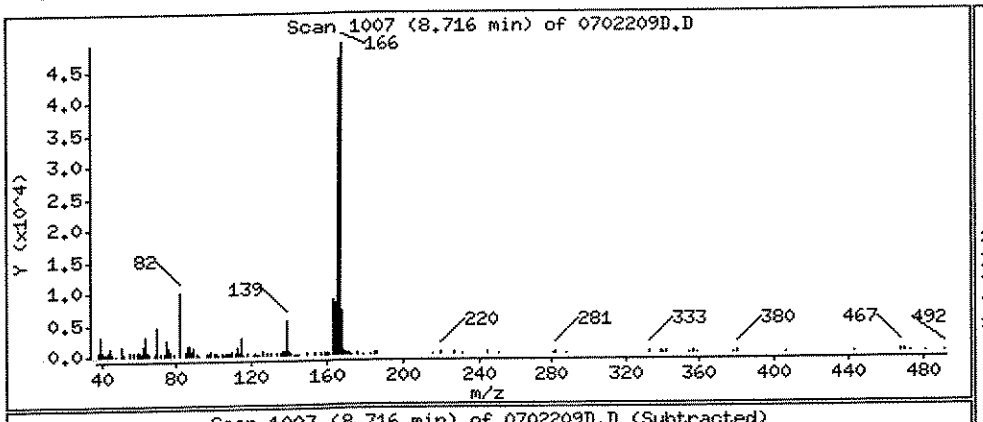
Operator: SDB

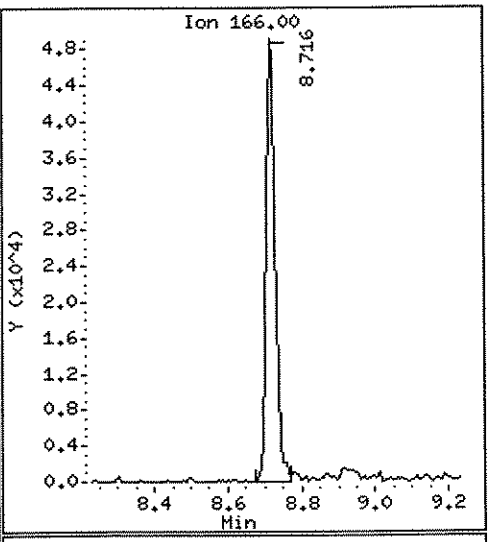
Column phase: fused silica

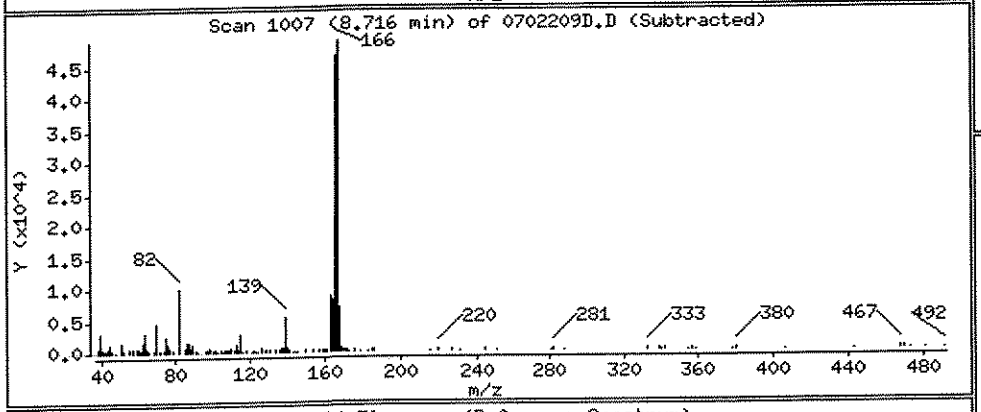
Column diameter: 0.25

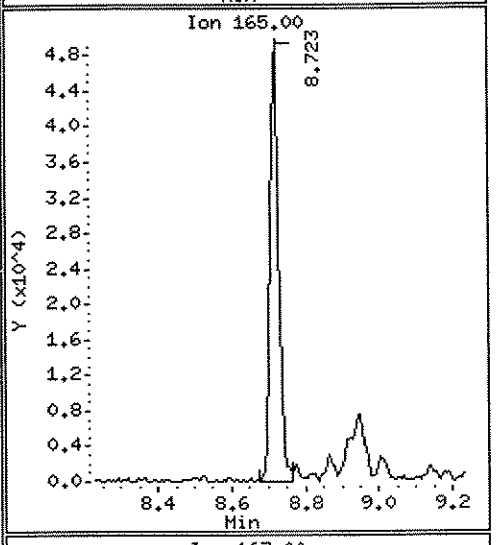
84 Fluorene

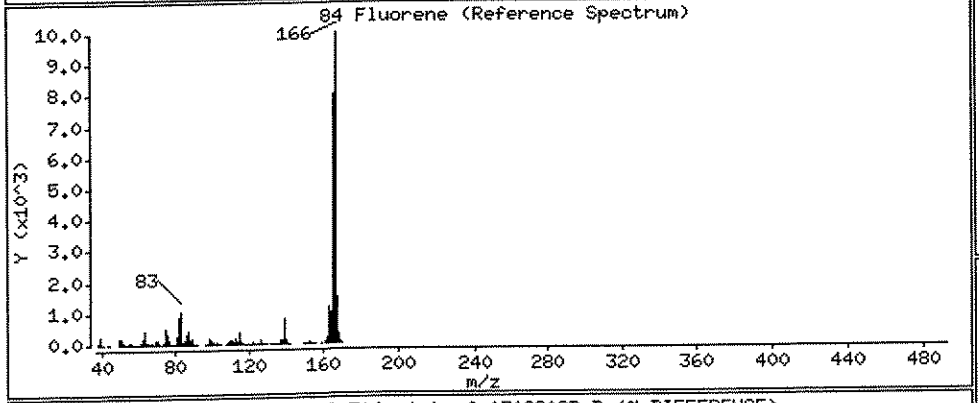
Concentration: 959.2 UG/KG

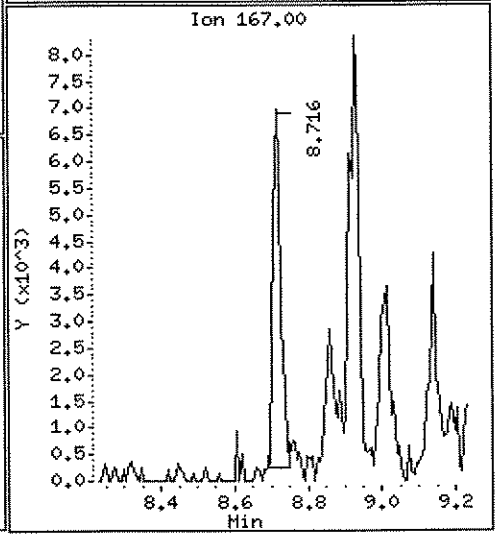


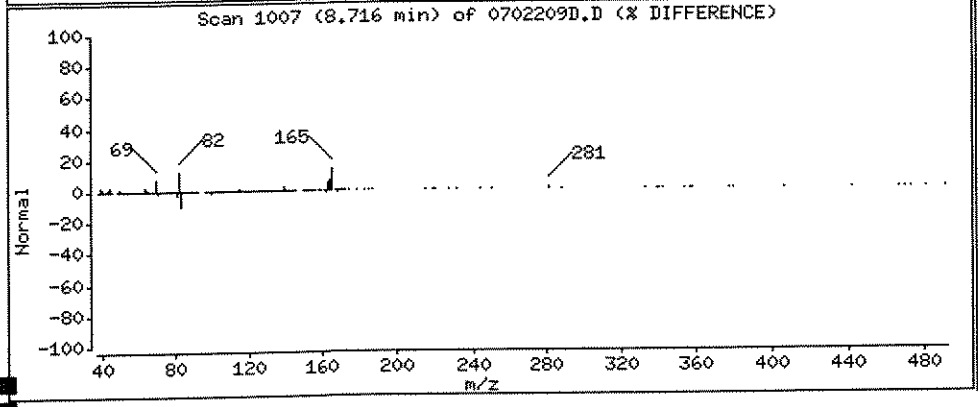












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

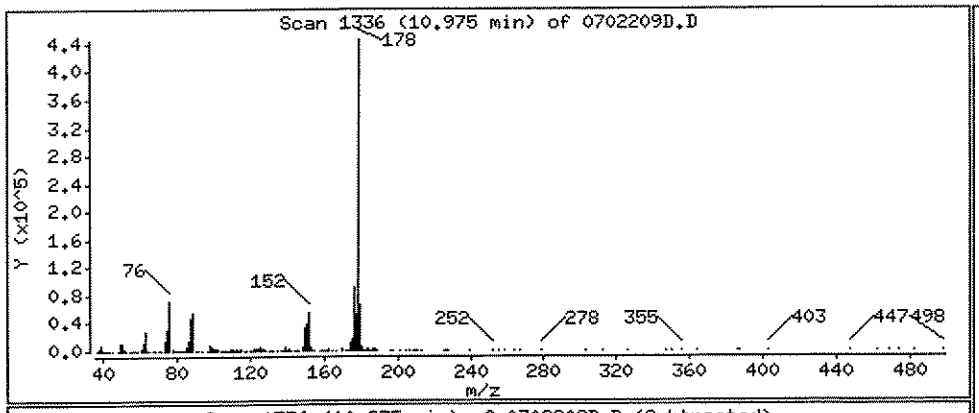
Client ID: 51CFM07S060706 Instrument: bna1.i

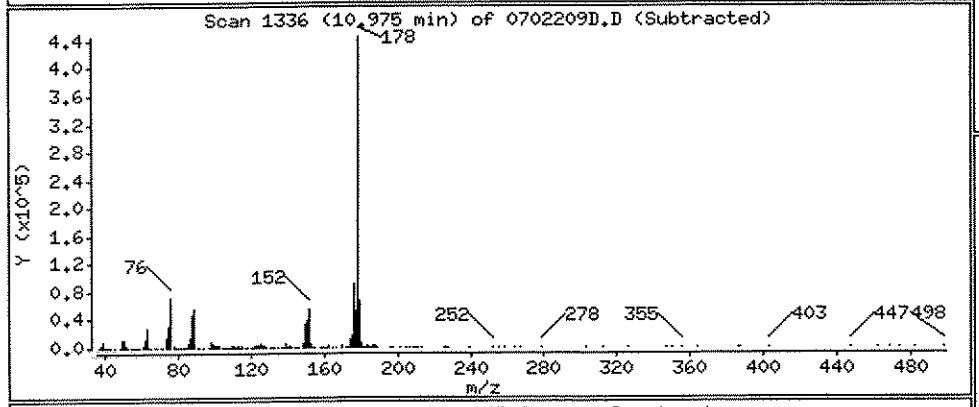
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

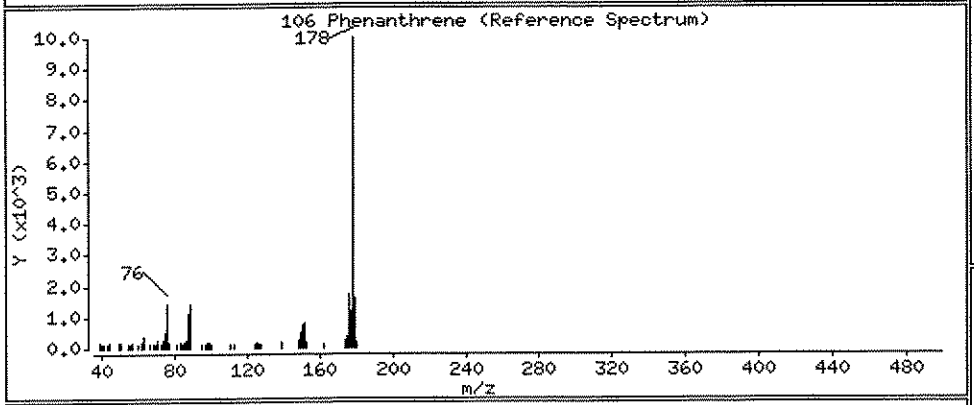
Volume Injected (uL): 0.5 Operator: SDB

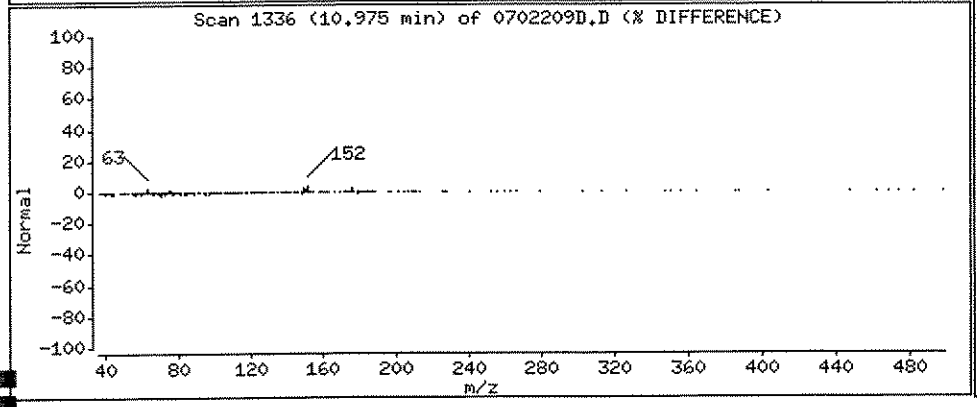
Column phase: fused silica Column diameter: 0.25

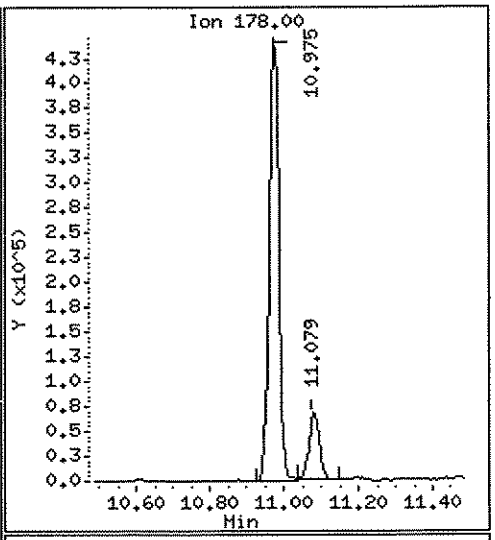
106 Phenanthrene Concentration: 7537 UG/KG

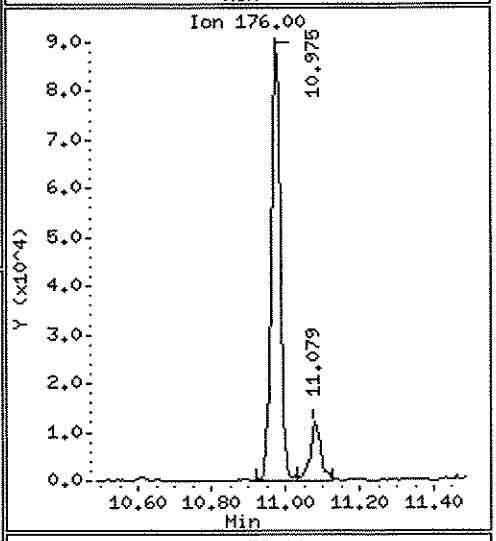


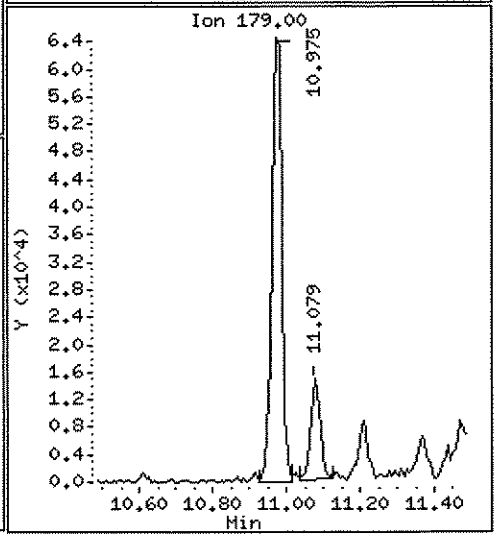












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

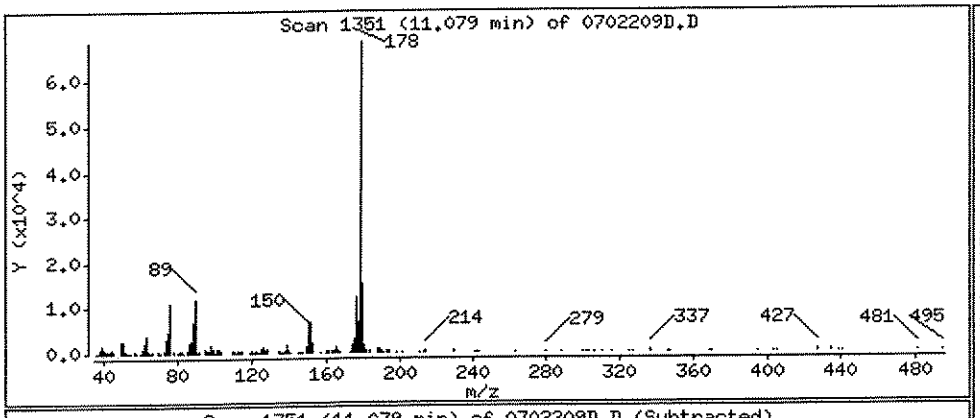
Client ID: 51CFM07S060706 Instrument: bna1.i

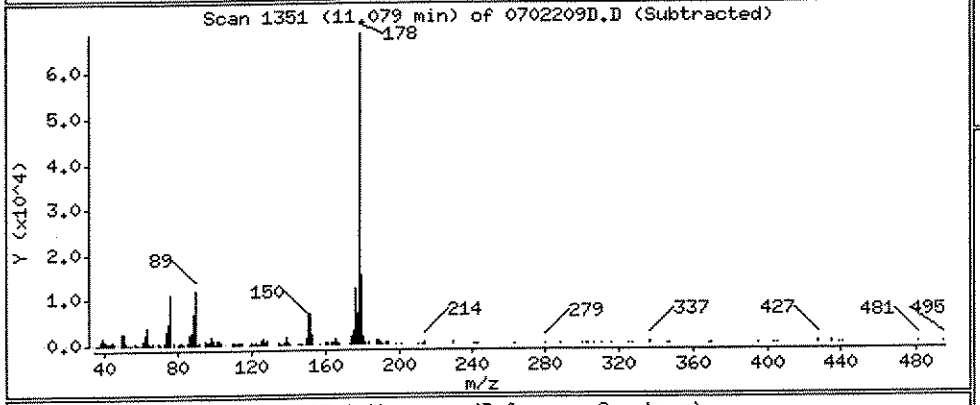
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

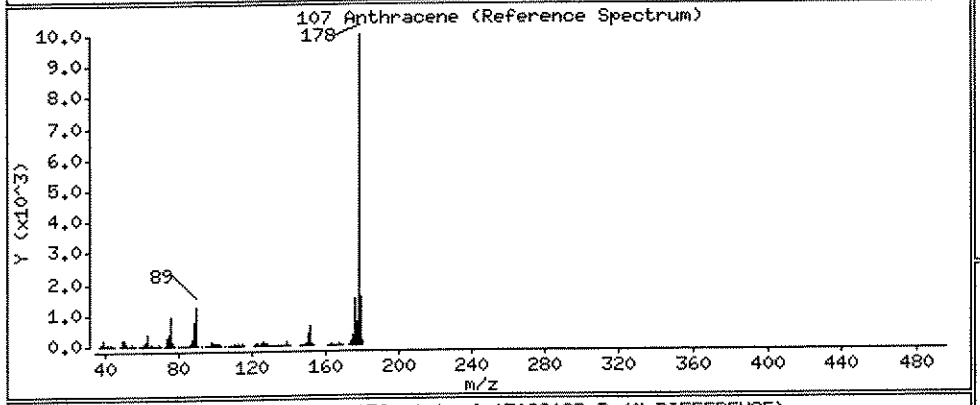
Volume Injected (uL): 0.5 Operator: SDB

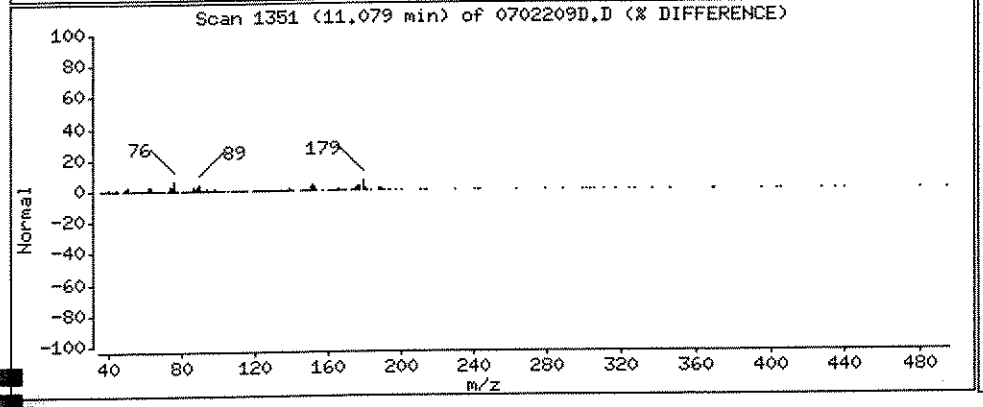
Column phase: fused silica Column diameter: 0.25

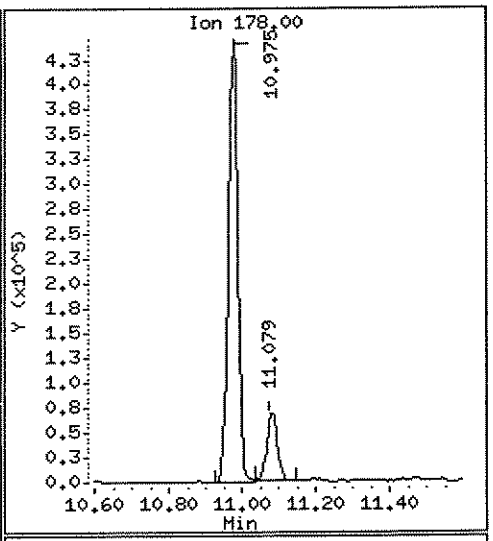
107 Anthracene Concentration: 1297 UG/KG

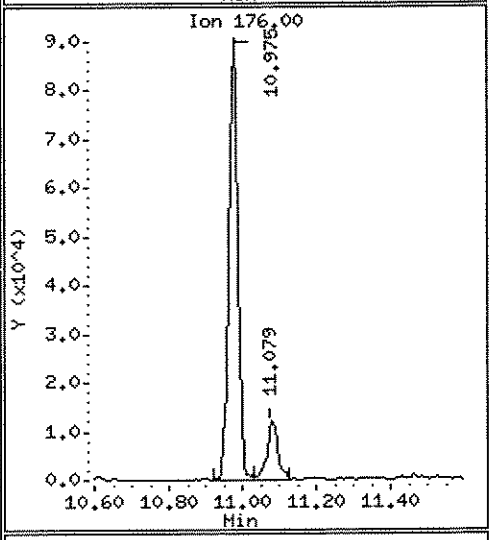


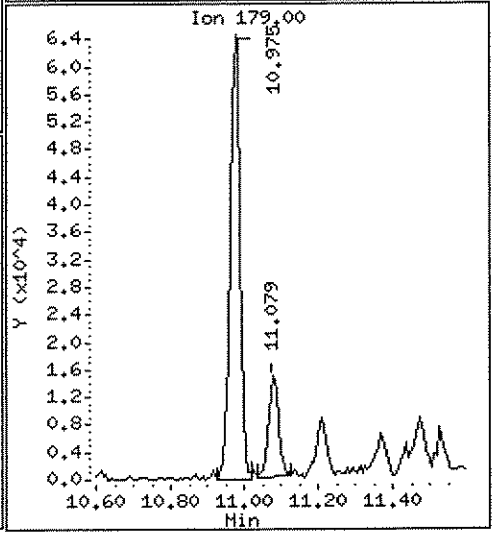












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

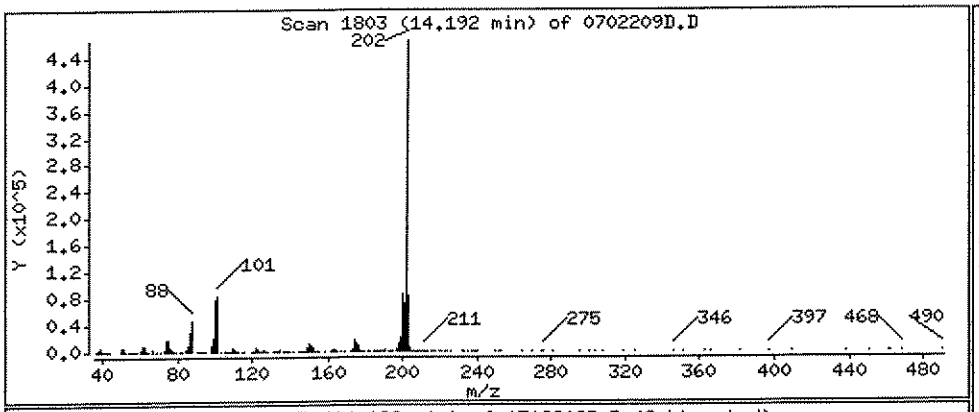
Client ID: 51CFM07S060706 Instrument: bna1.i

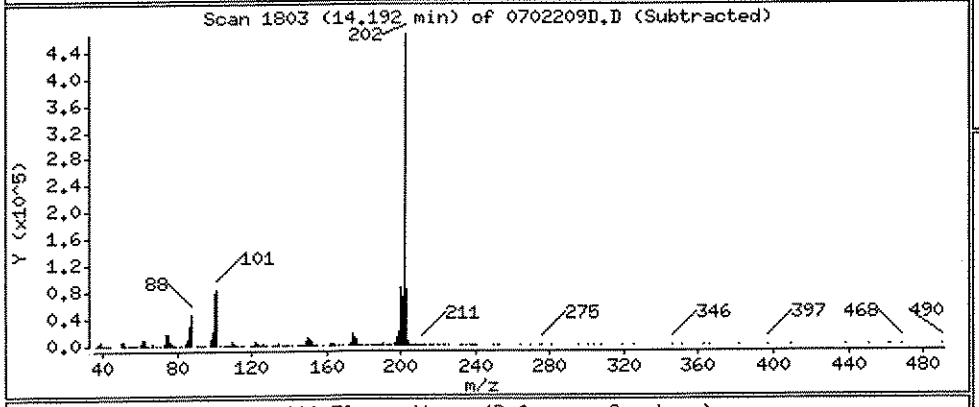
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

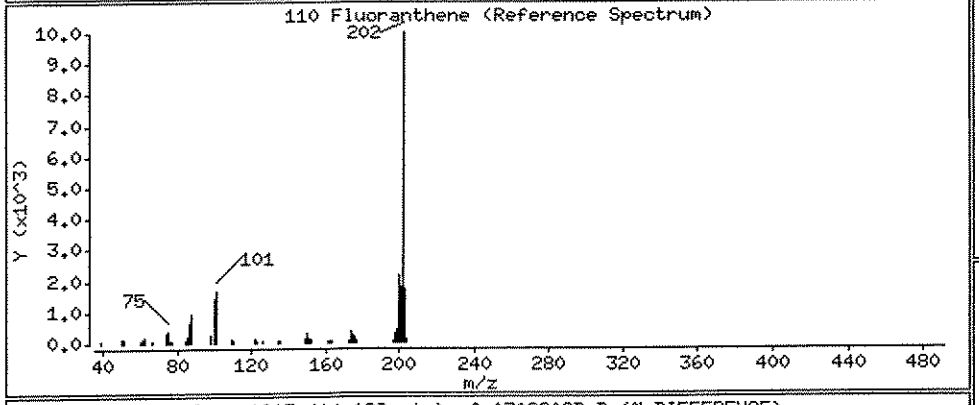
Volume Injected (uL): 0.5 Operator: SDB

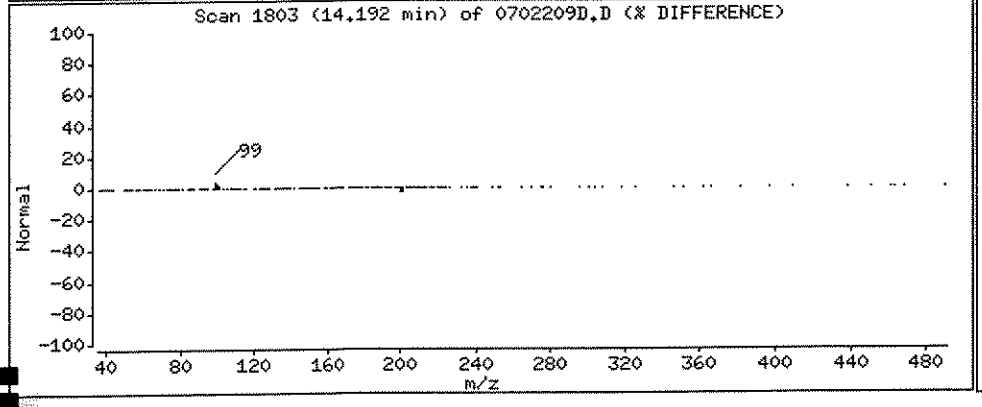
Column phase: fused silica Column diameter: 0.25

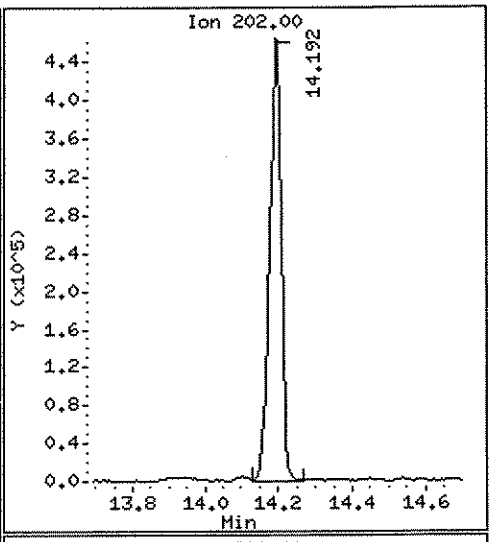
110 Fluoranthene Concentration: 9687 UG/KG

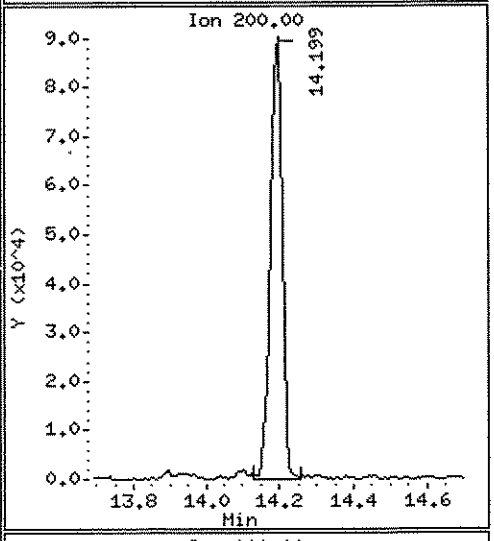


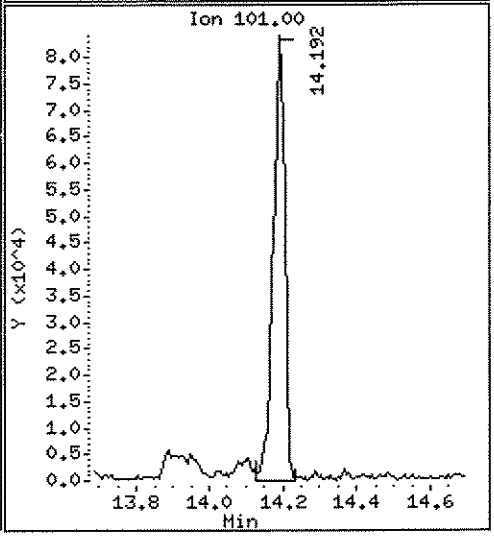












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

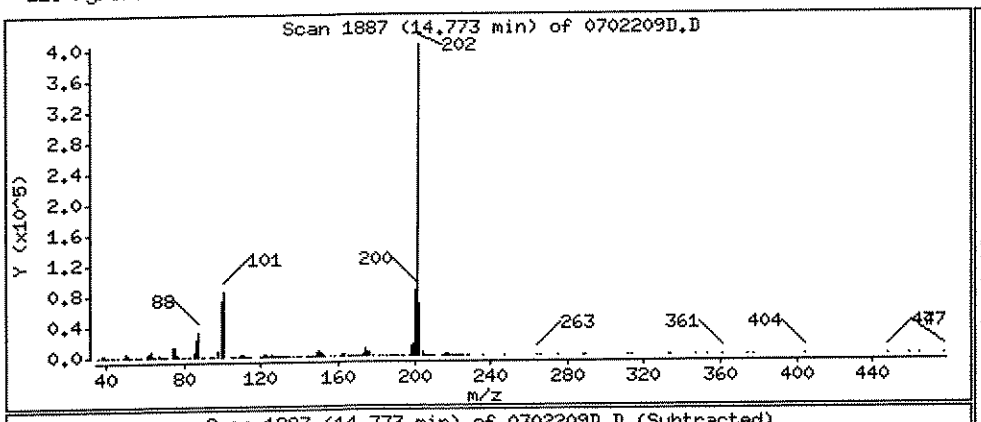
Operator: SDB

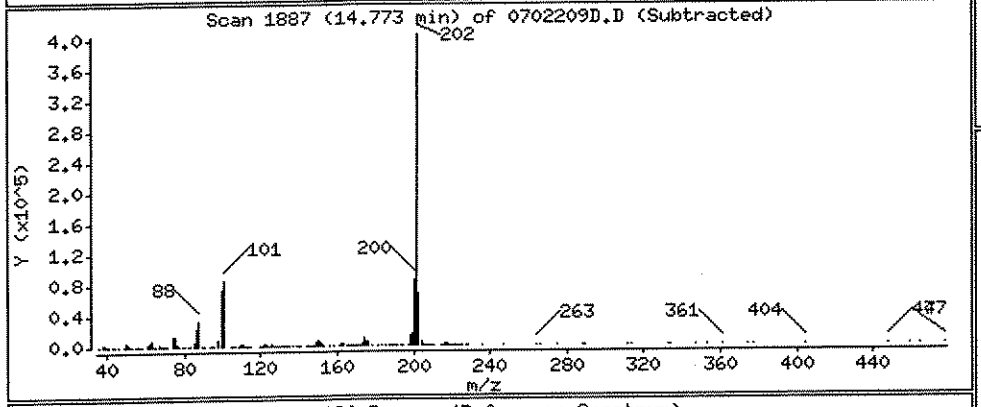
Column phase: fused silica

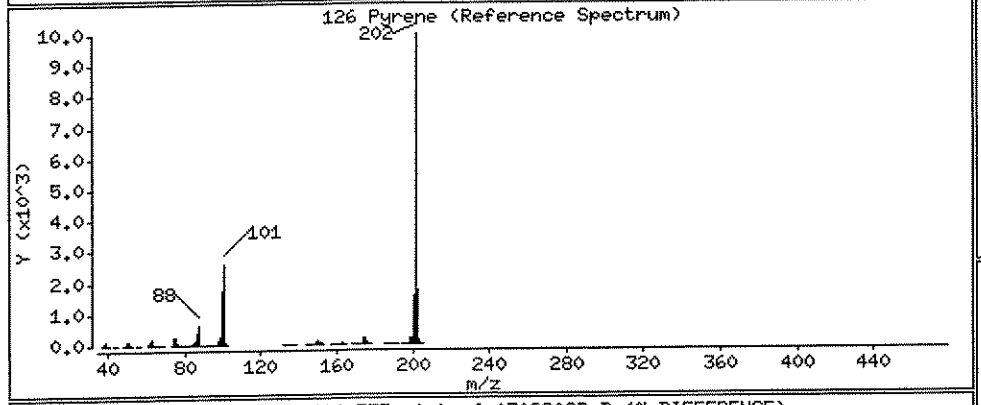
Column diameter: 0.25

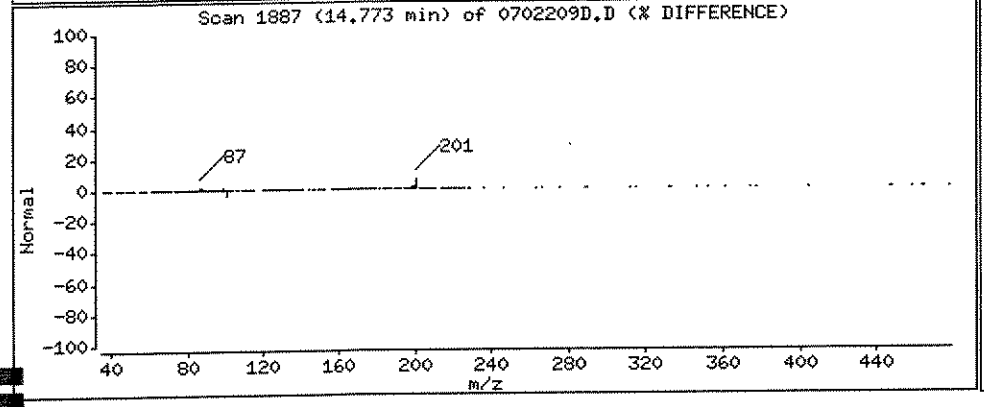
126 Pyrene

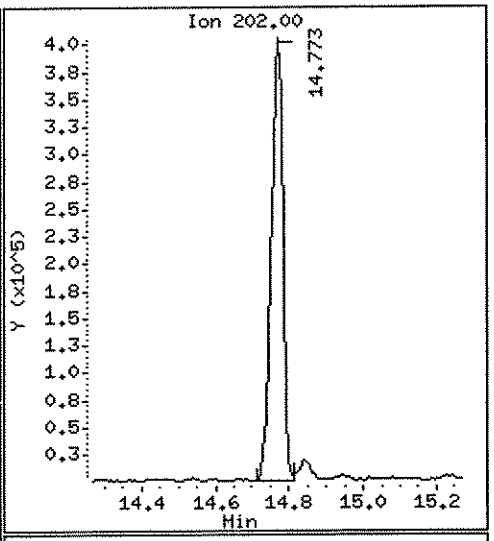
Concentration: 7359 UG/KG

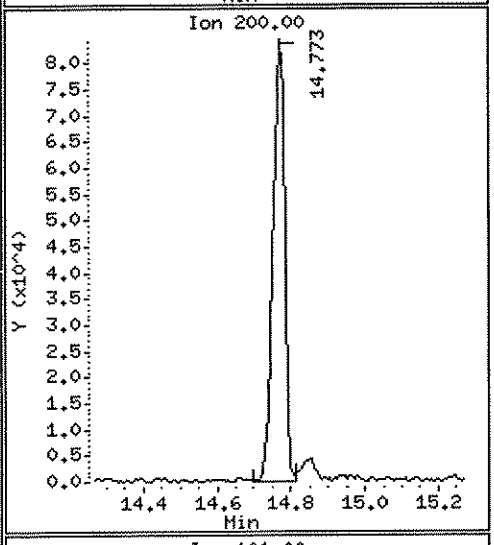


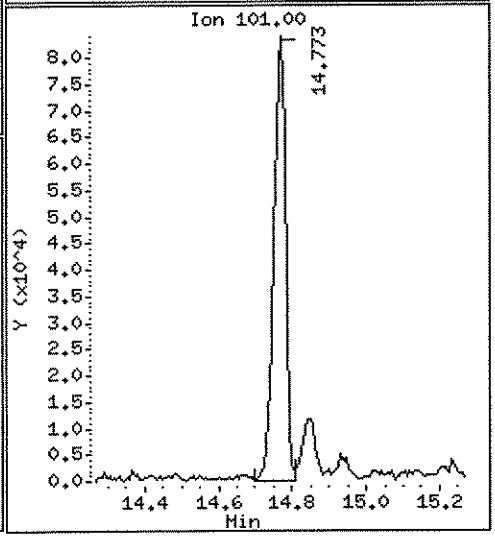












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000260

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

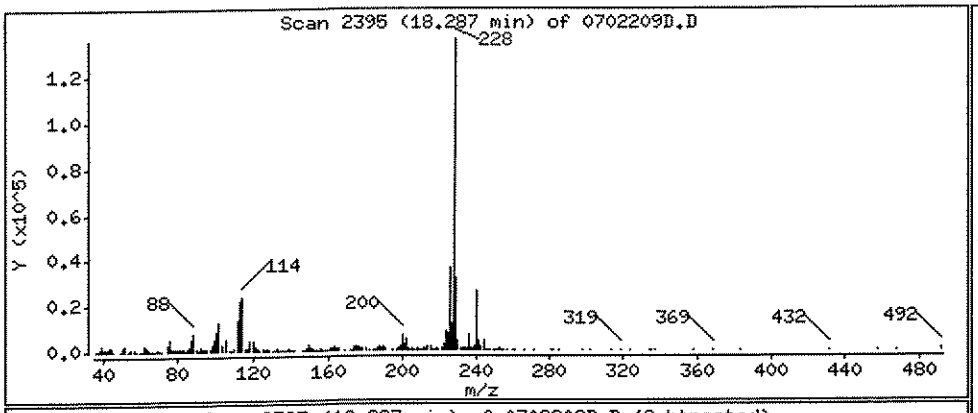
Client ID: 51CFM07S060706 Instrument: bna1.i

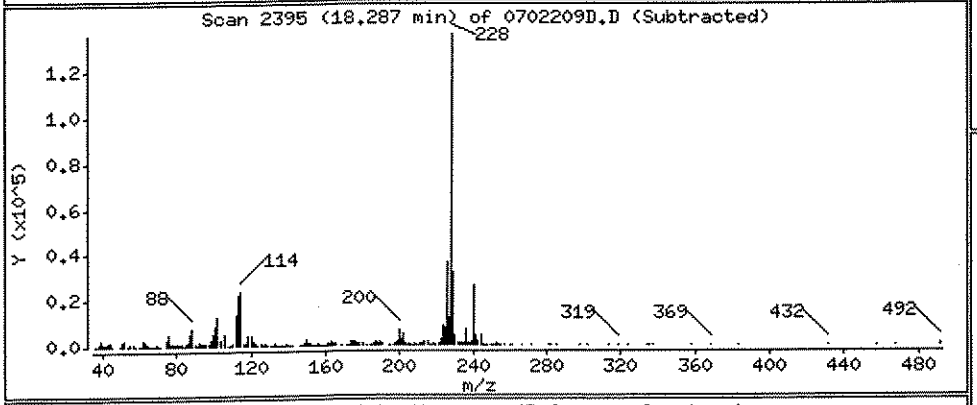
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

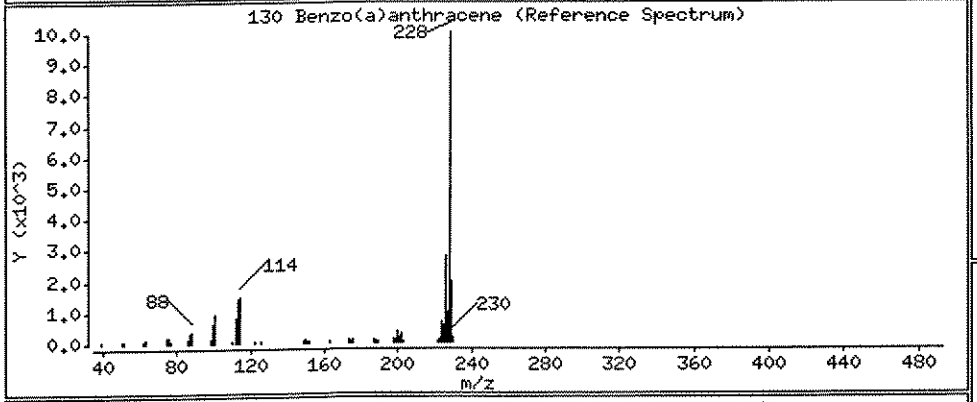
Volume Injected (uL): 0.5 Operator: SDB

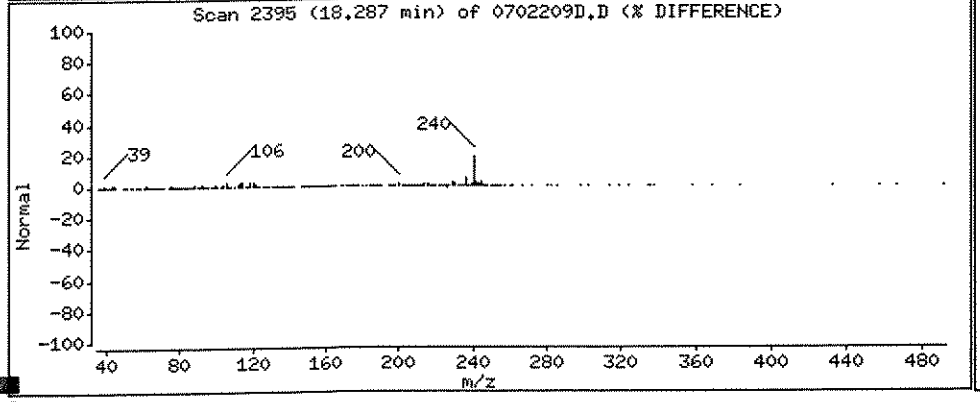
Column phase: fused silica Column diameter: 0.25

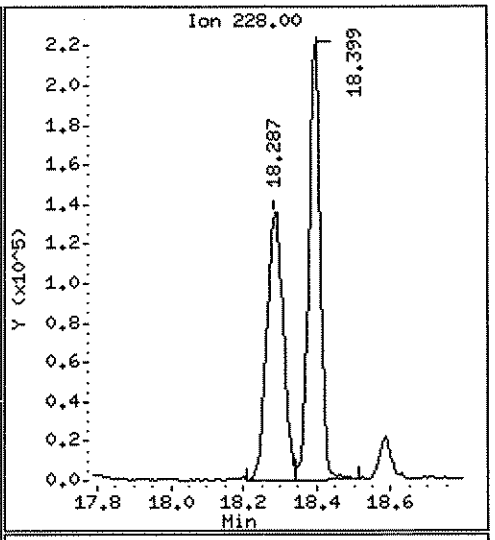
130 Benzo(a)anthracene Concentration: 4362 UG/KG

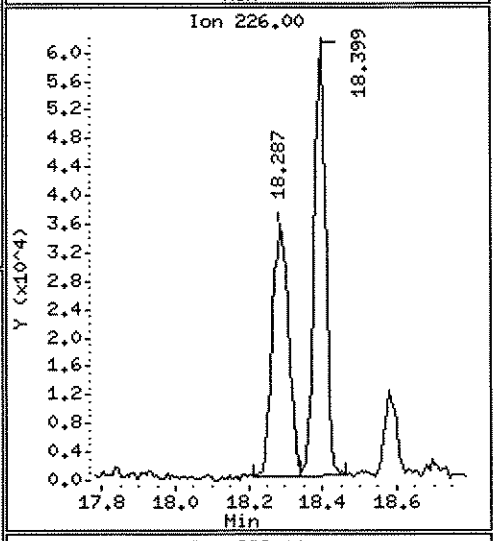


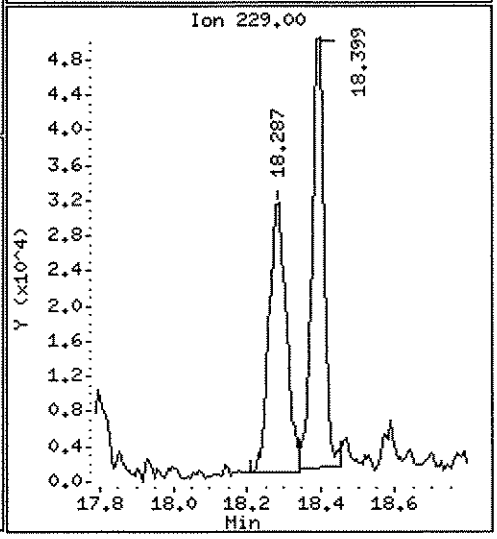












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

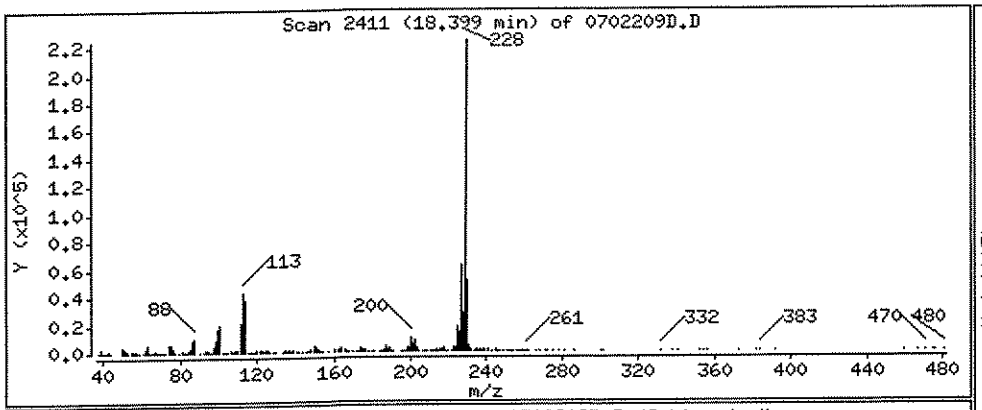
Client ID: 51CFM07S060706 Instrument: bna1.i

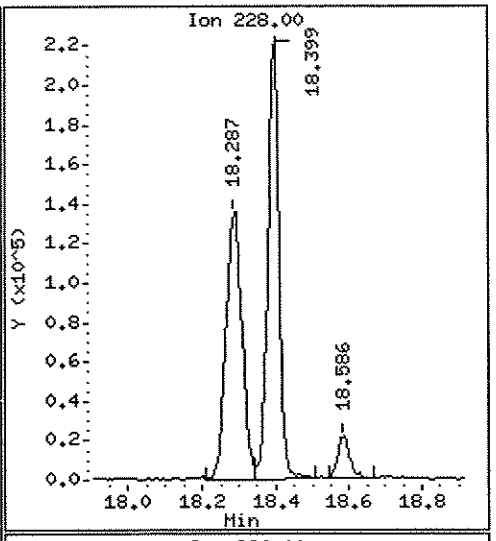
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

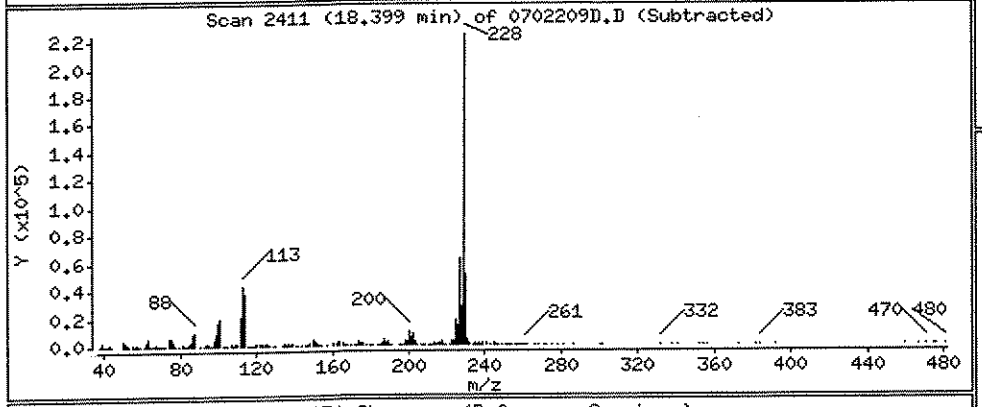
Volume Injected (uL): 0.5 Operator: SDB

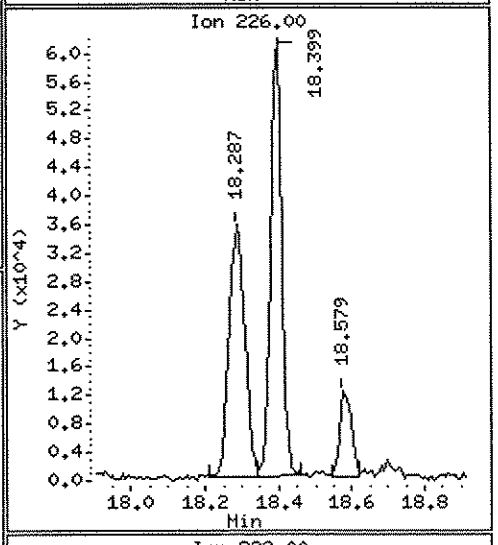
Column phase: fused silica Column diameter: 0.25

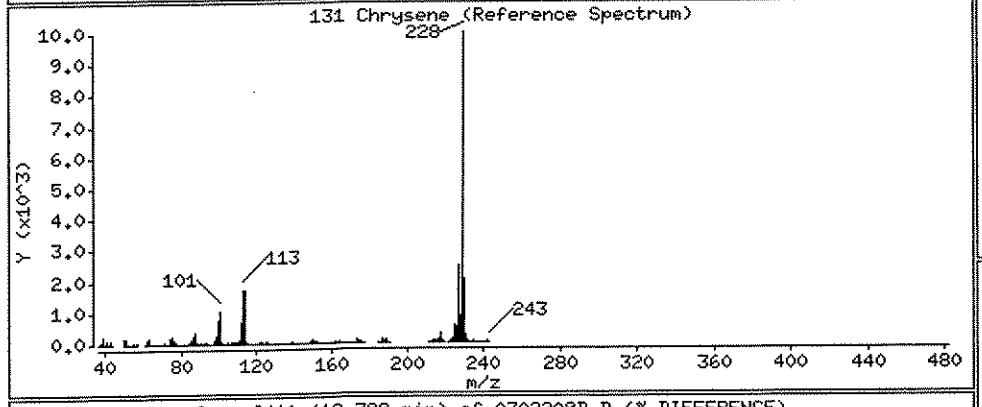
131 Chrysene Concentration: 5366 UG/KG

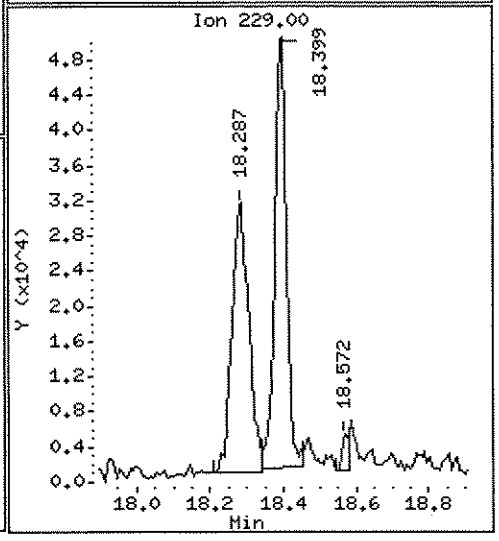


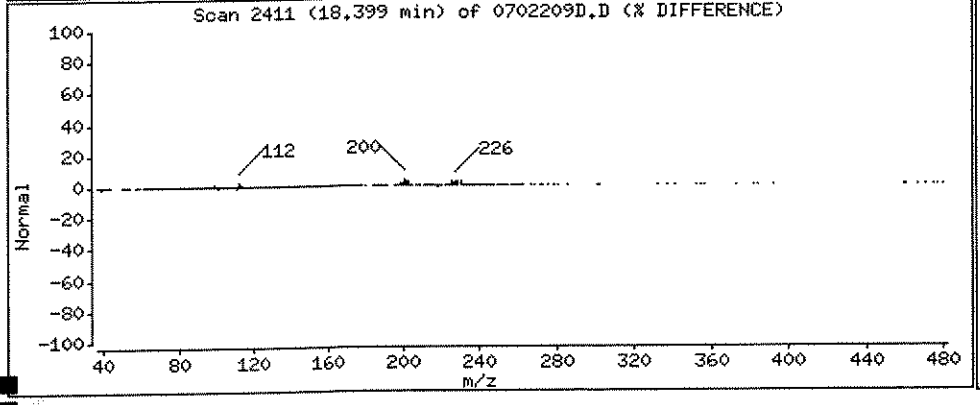












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

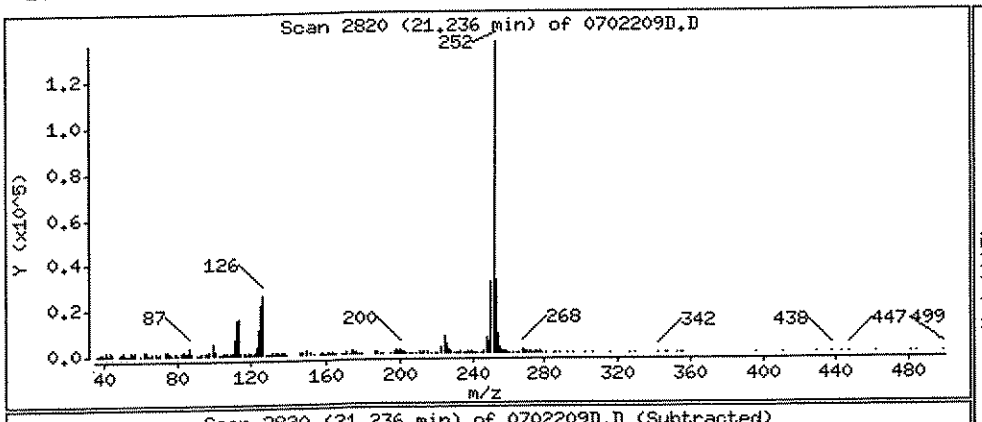
Operator: SDB

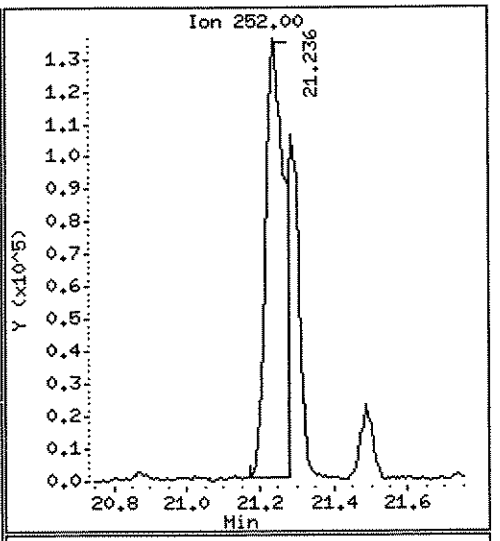
Column phase: fused silica

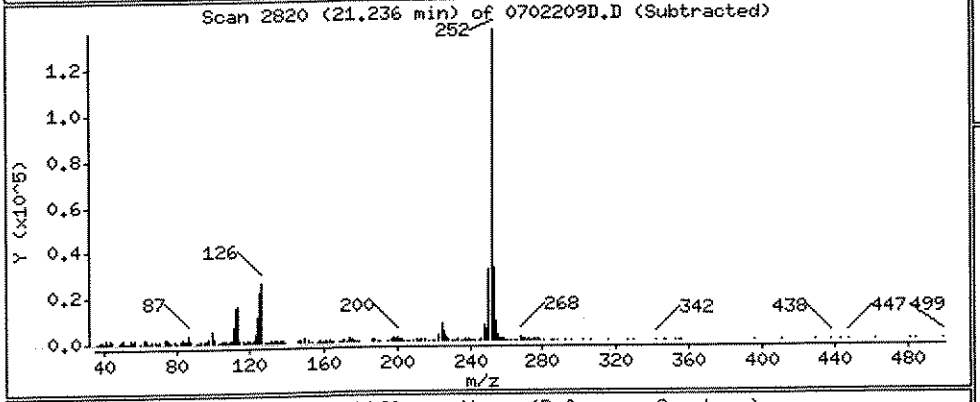
Column diameter: 0.25

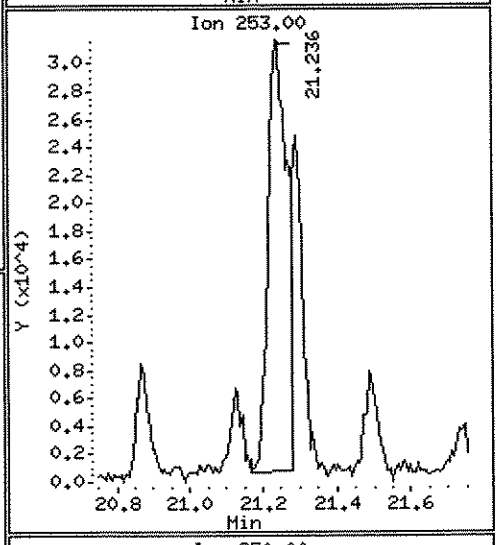
147 Benzo(b)fluoranthene

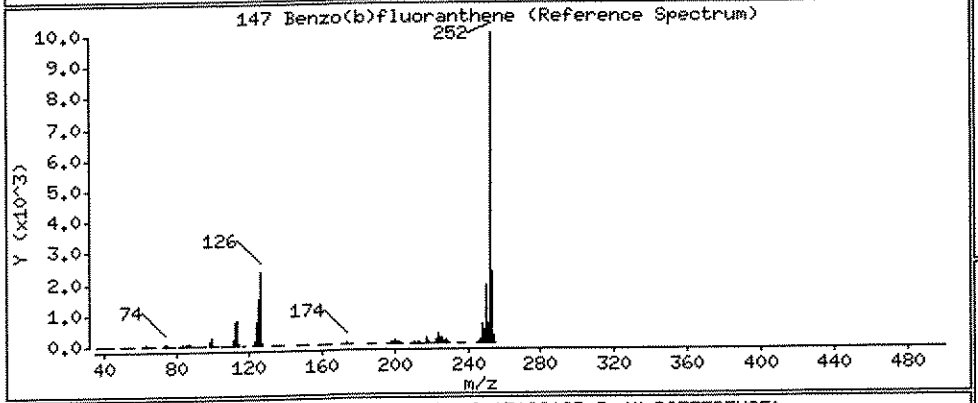
Concentration: 5056 UG/KG

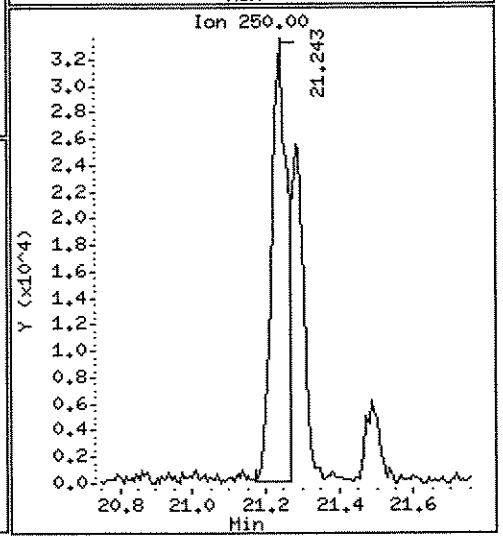


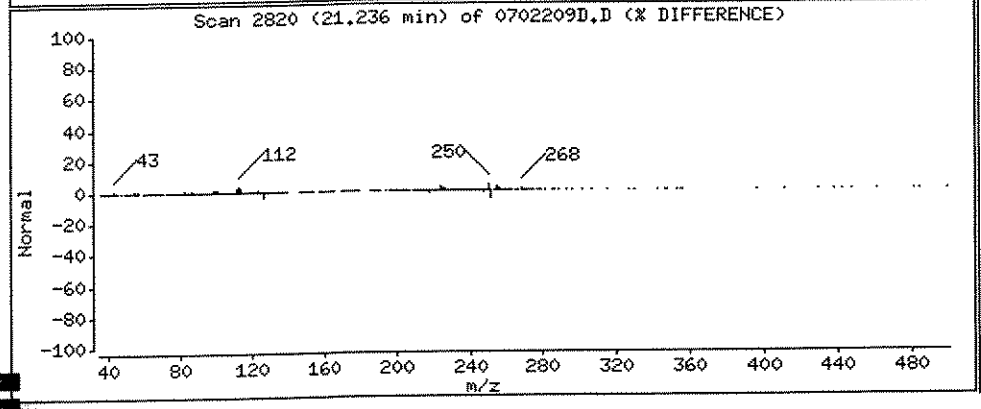












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

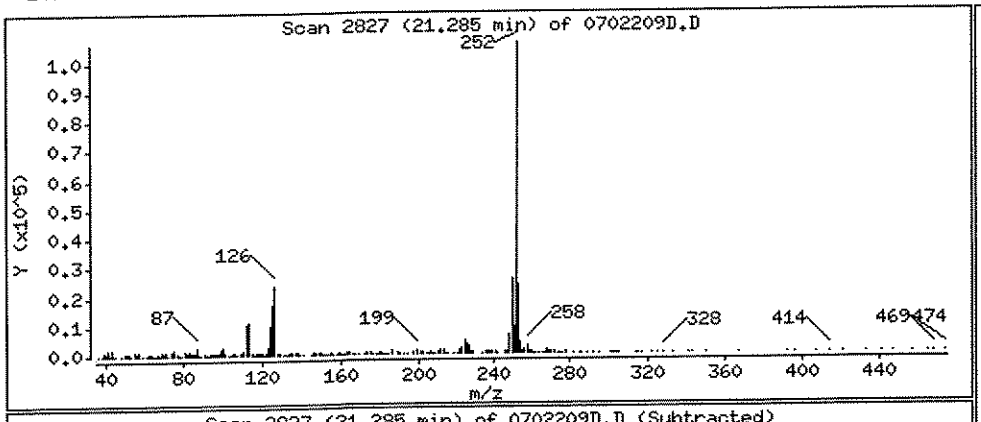
Operator: SDB

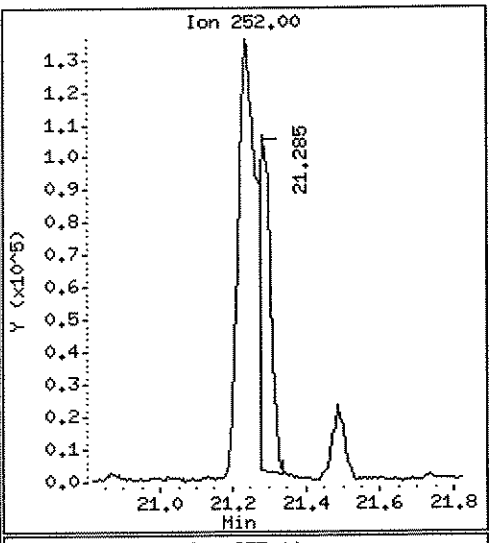
Column phase: fused silica

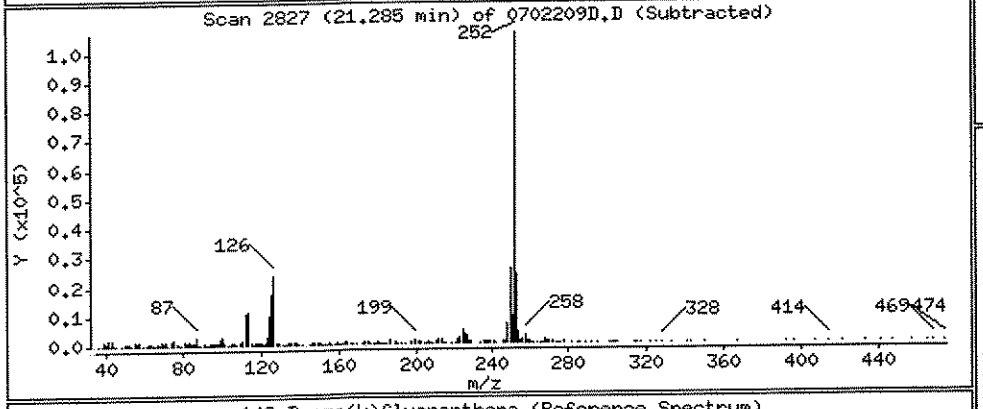
Column diameter: 0.25

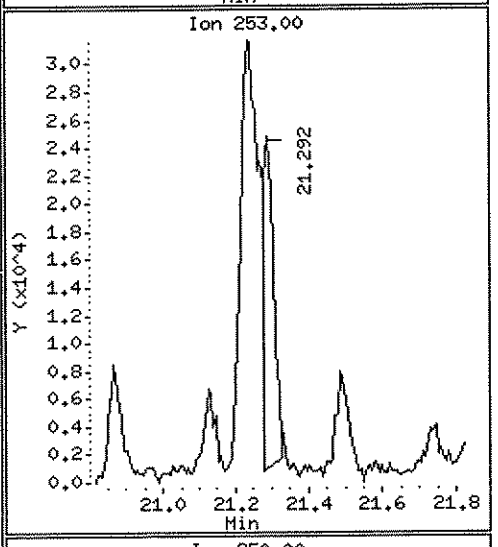
148 Benzo(k)fluoranthene

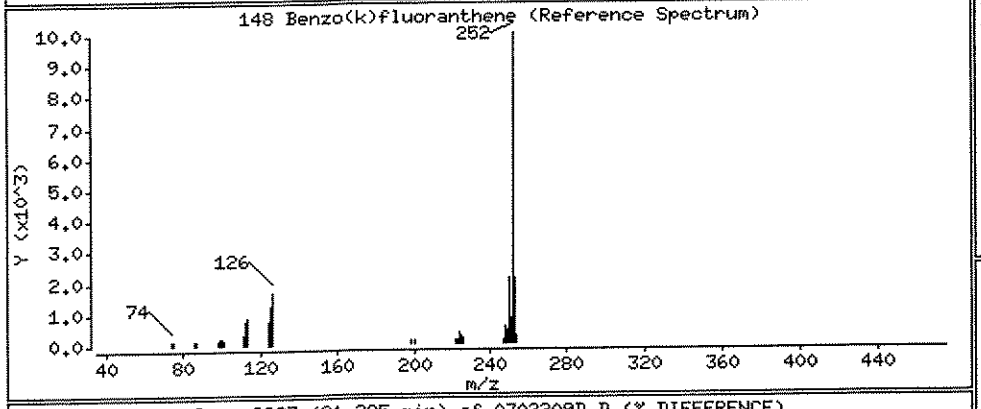
Concentration: 2173 UG/KG

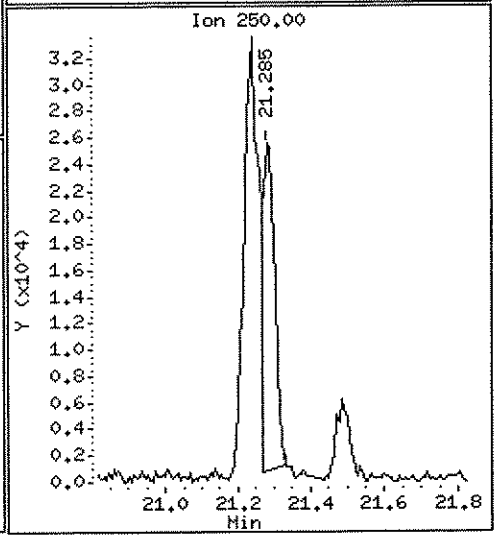


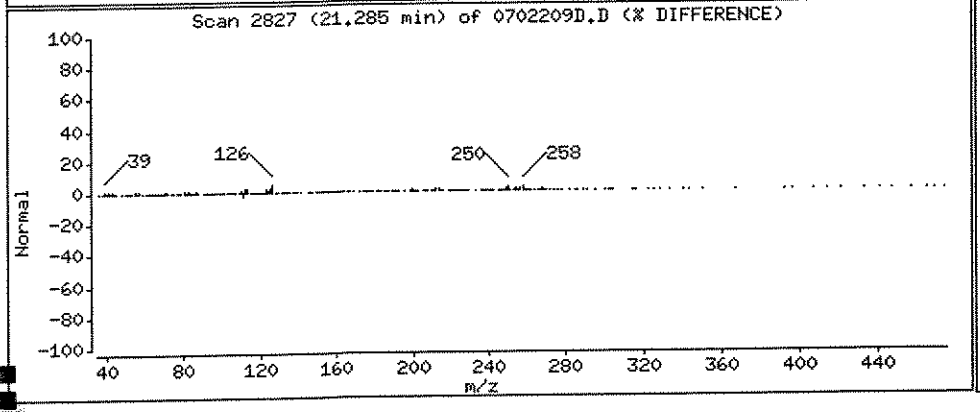












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

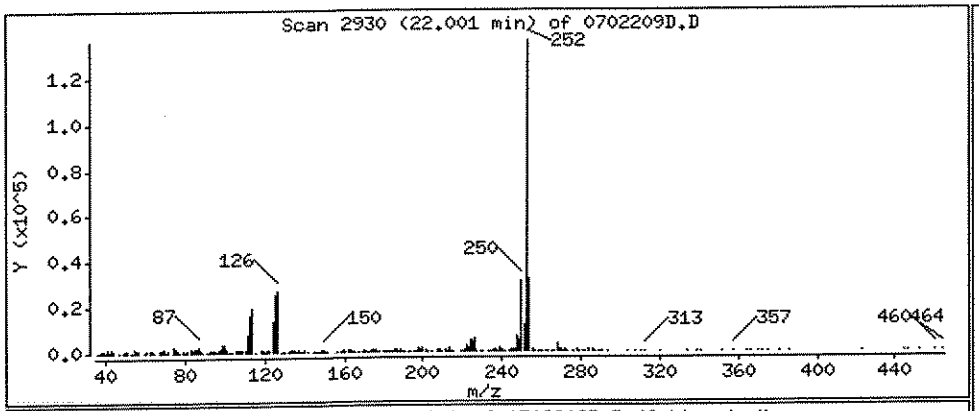
Client ID: 51CFM07S060706 Instrument: bna1.i

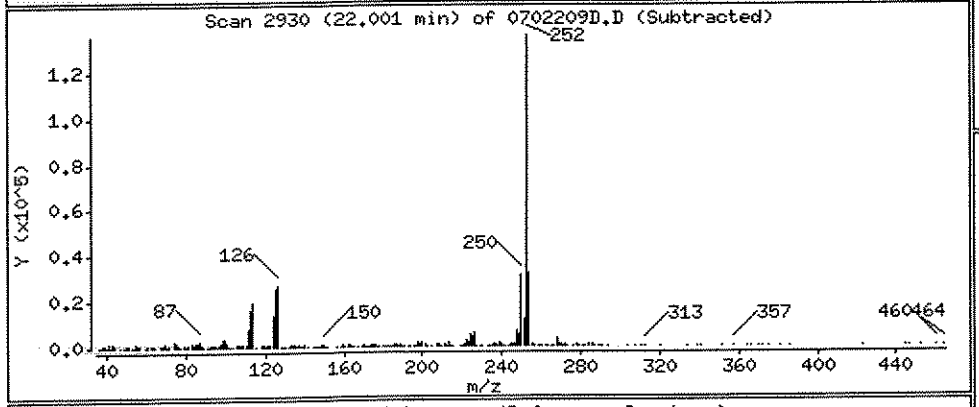
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

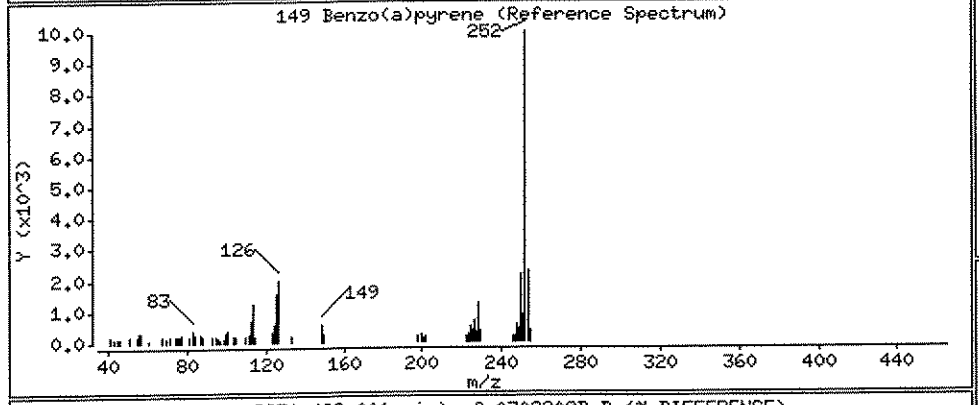
Volume Injected (uL): 0.5 Operator: SDB

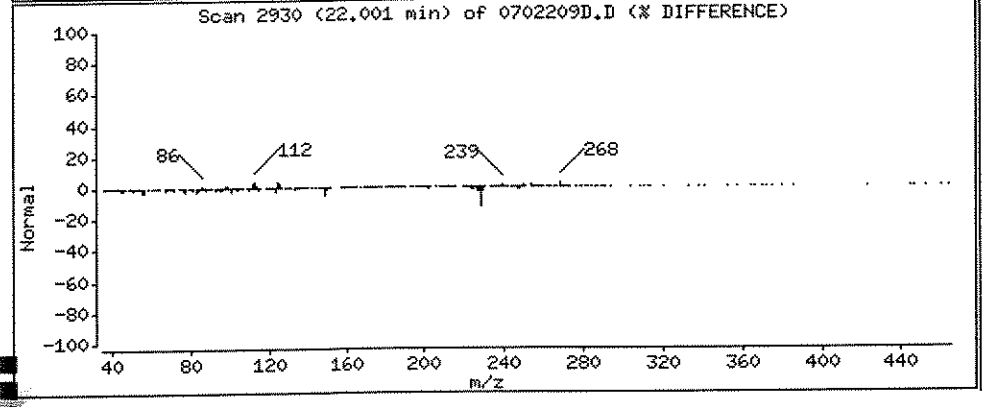
Column phase: fused silica Column diameter: 0.25

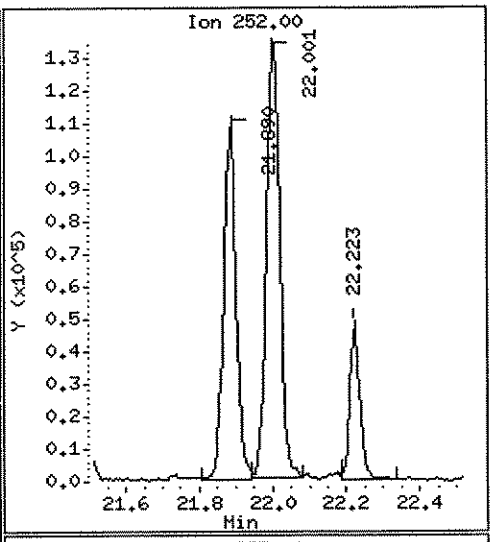
149 Benzo(a)pyrene Concentration: 4324 UG/KG

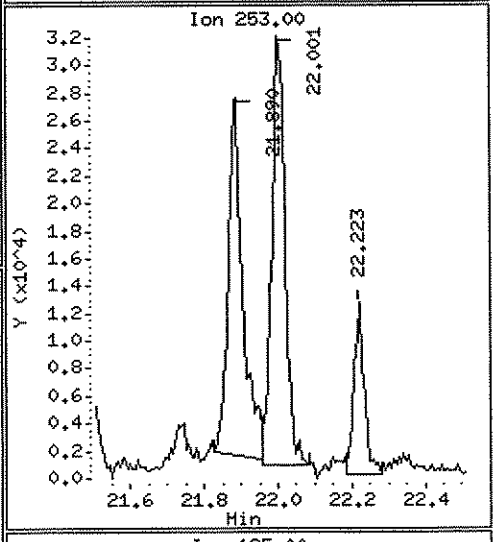


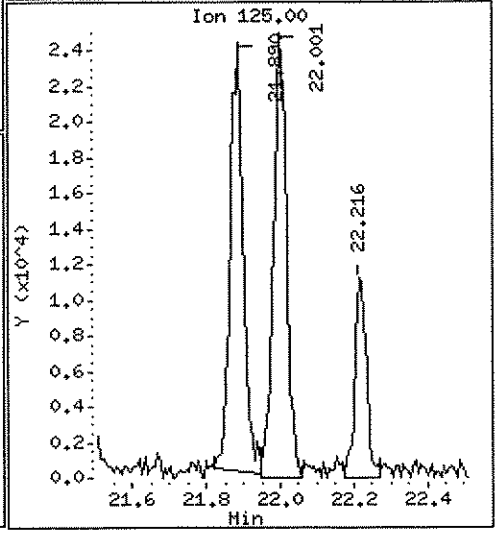












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

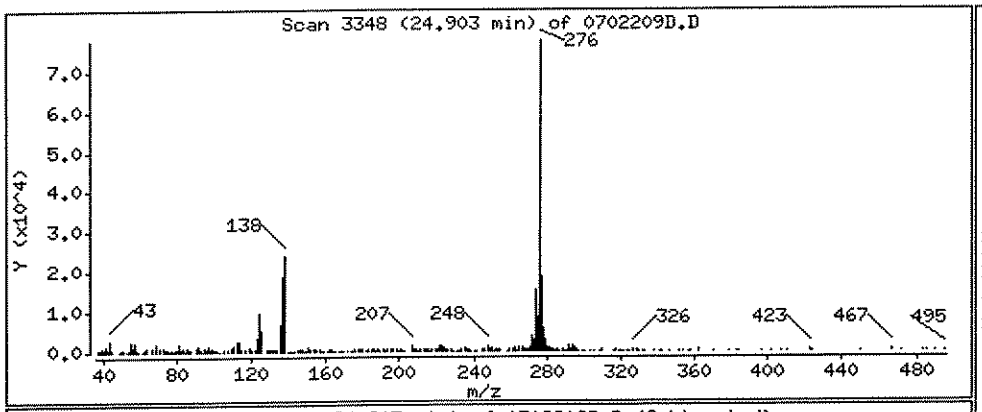
Client ID: 51CFM07S060706 Instrument: bna1.i

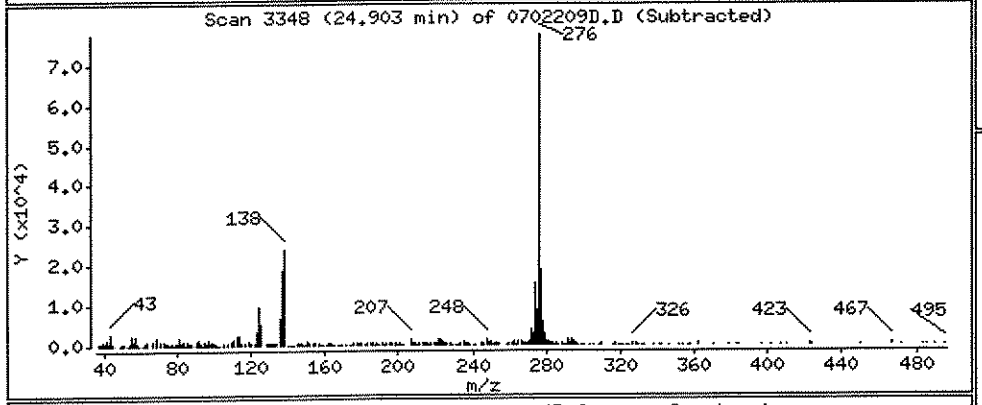
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

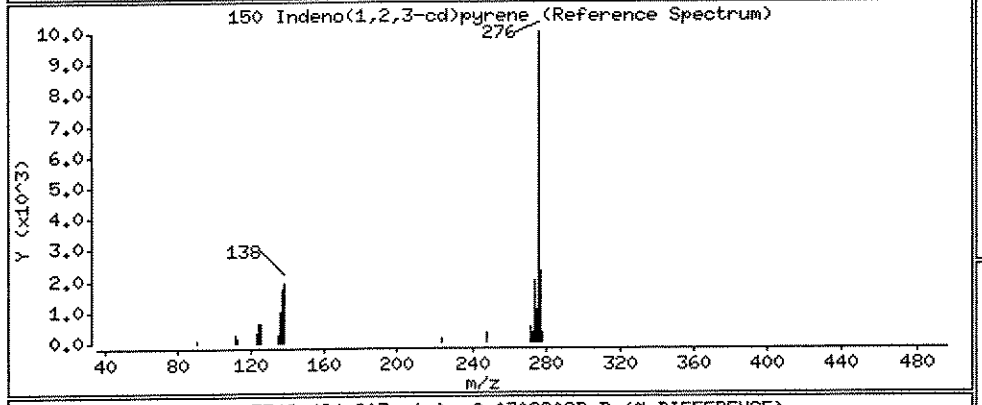
Volume Injected (uL): 0.5 Operator: SDB

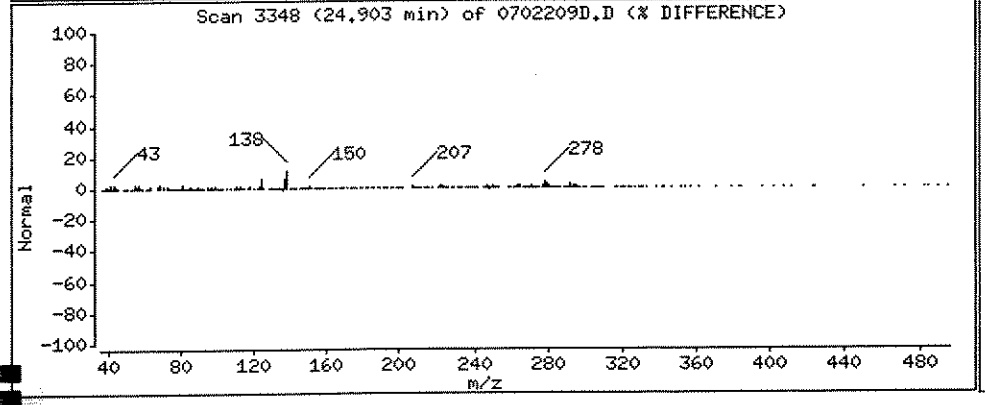
Column phase: fused silica Column diameter: 0.25

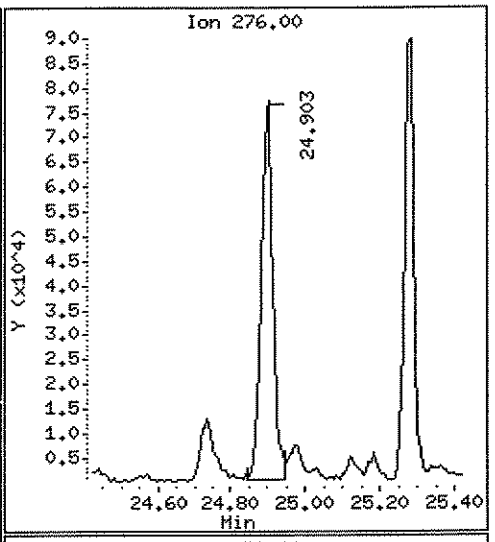
150 Indeno(1,2,3-cd)pyrene Concentration: 2437 UG/KG

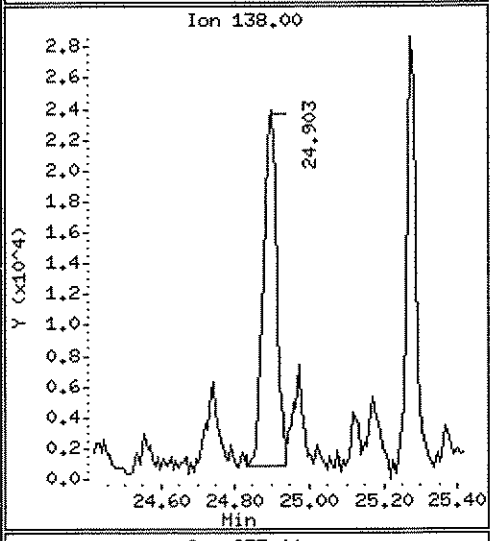


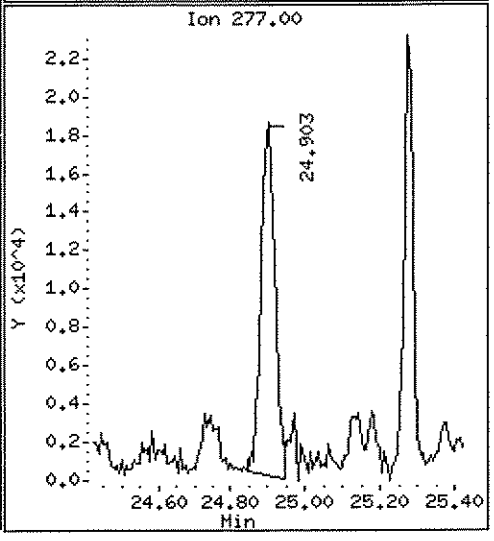












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

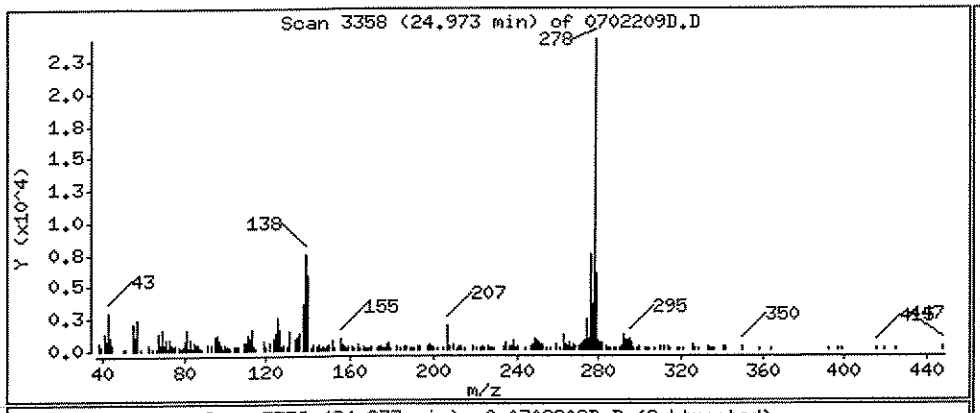
Client ID: 51CFM07S060706 Instrument: bna1.i

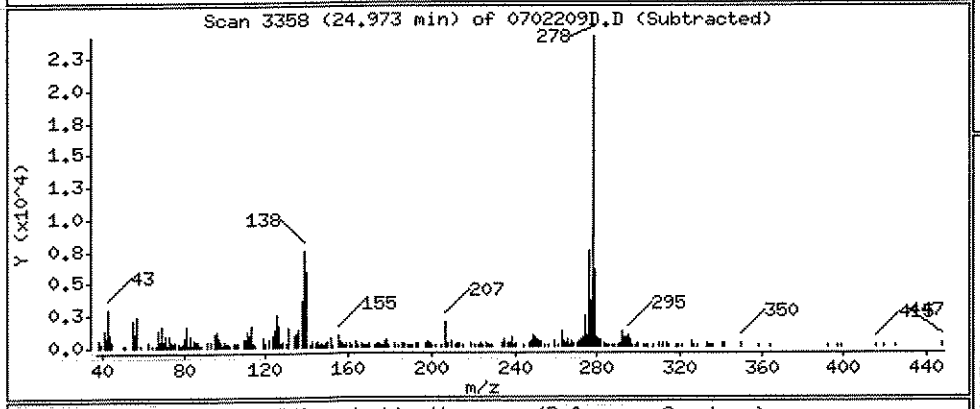
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

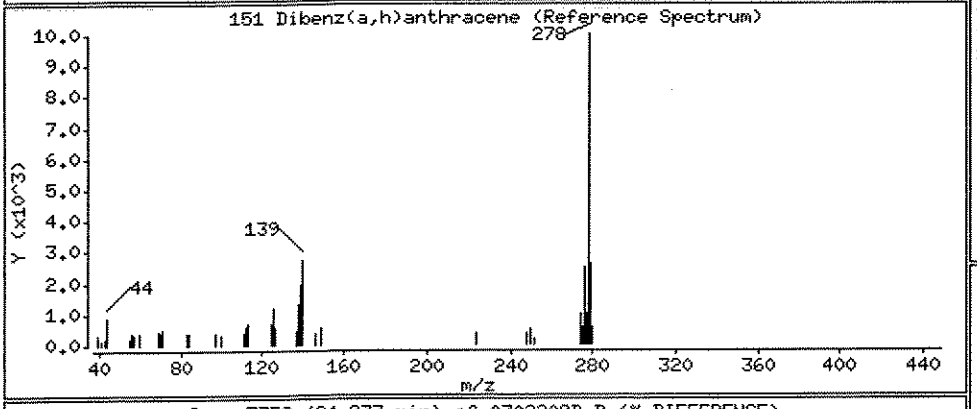
Volume Injected (uL): 0.5 Operator: SDB

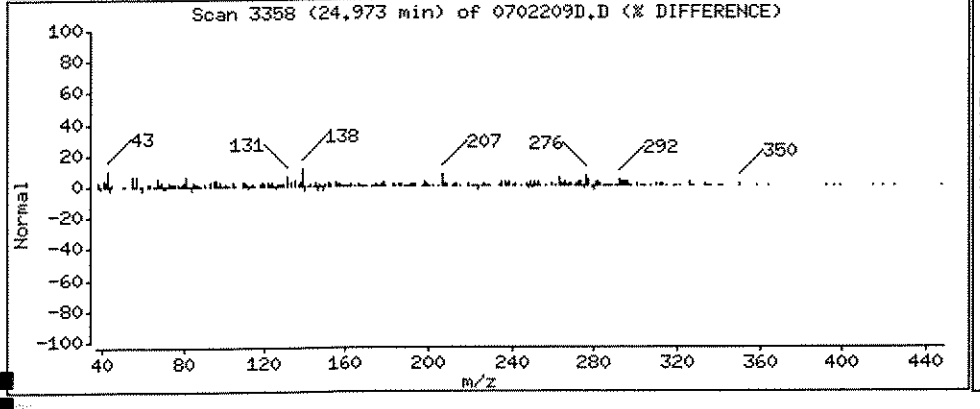
Column phase: fused silica Column diameter: 0.25

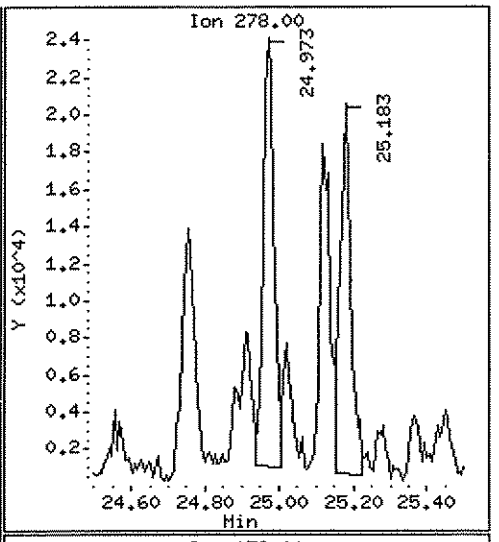
151 Dibenz(a,h)anthracene Concentration: 702.0 UG/KG

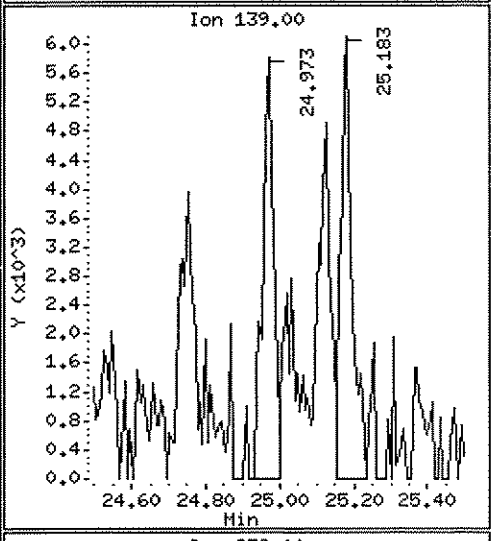


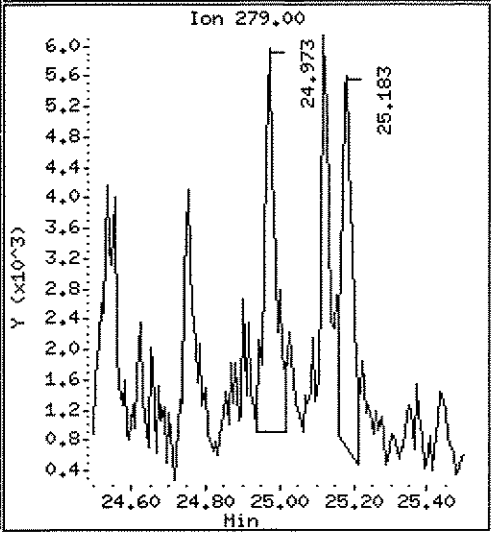












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

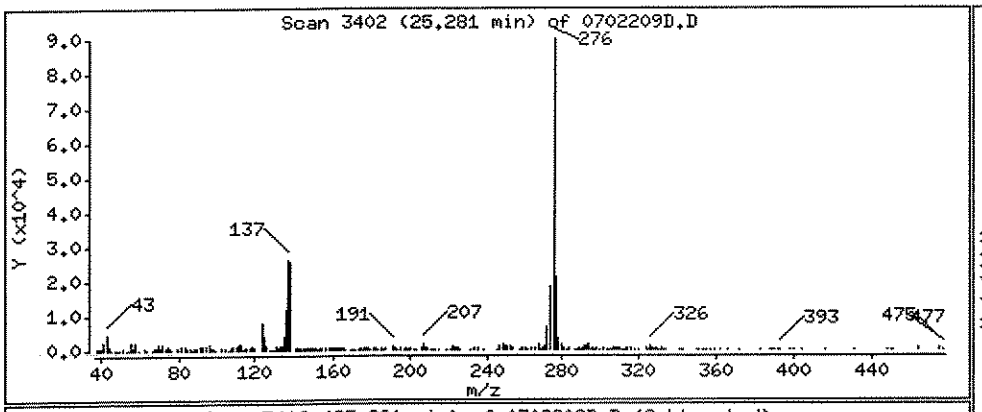
Client ID: 51CFM07S060706 Instrument: bna1.i

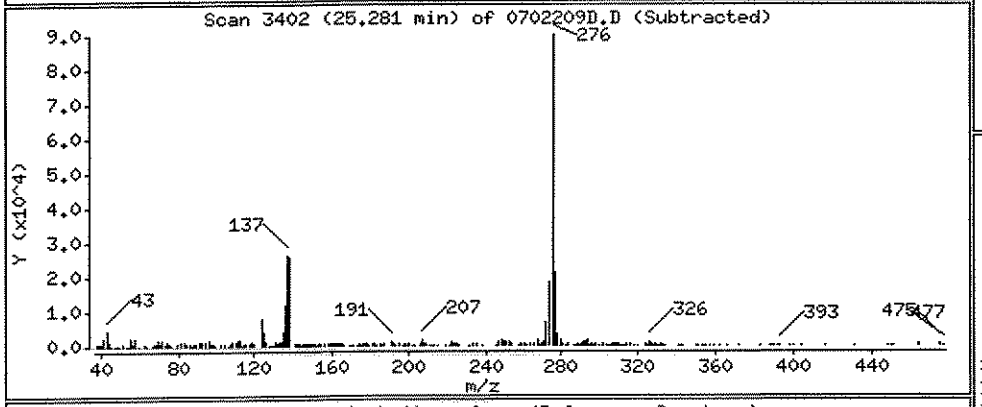
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

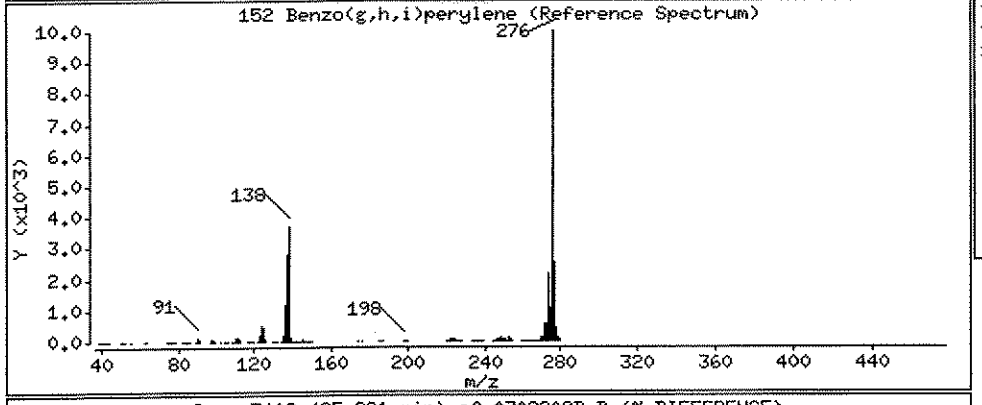
Volume Injected (uL): 0.5 Operator: SDB

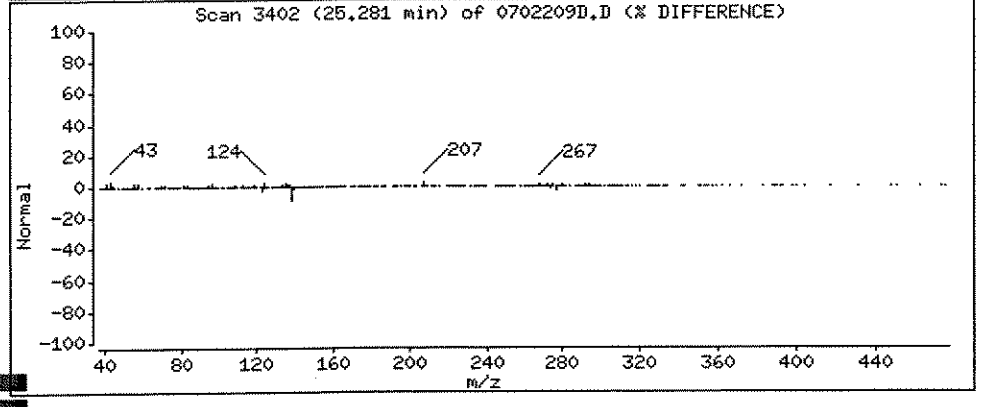
Column phase: fused silica Column diameter: 0.25

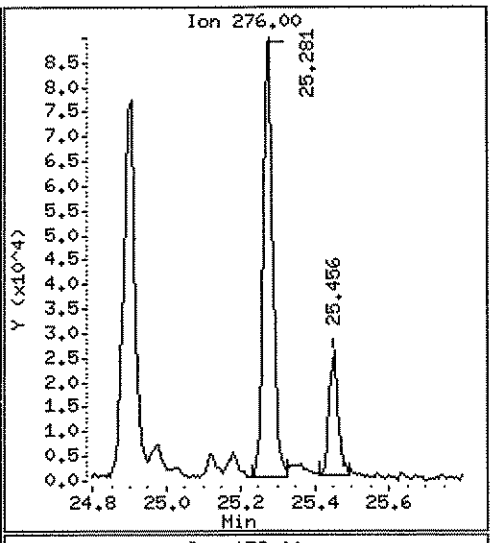
152 Benzo(g,h,i)perylene Concentration: 2240 UG/KG

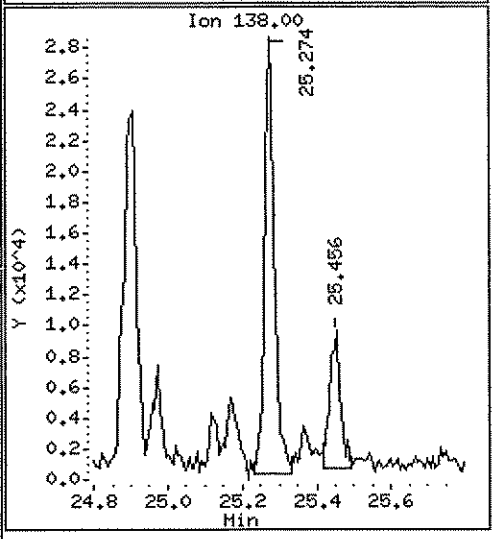












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:14

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	24	J
56-55-3	Benzo(a)anthracene	21	180	240	
205-99-2	Benzo(b)fluoranthene	21	180	390	
207-08-9	Benzo(k)fluoranthene	21	180	240	
191-24-2	Benzo(g,h,i)perylene	21	180		U
50-32-8	Benzo(a)pyrene	21	110	280	
218-01-9	Chrysene	21	180	320	
53-70-3	Dibenz(a,h)anthracene	21	110		U
206-44-0	Fluoranthene	21	180	380	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	170	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	120	J
129-00-0	Pyrene	21	180	1000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Report Date: 11-Jul-2006 13:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Lab Smp Id: 0607022-10 Client Smp ID: 51CFM08S060706
Inj Date : 10-JUL-2006 19:14
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	91.800	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	522925	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	1821101	40.0000	
$ 32 Nitrobenzene-d5	82	4.708	4.709	(0.892)	1133174	57.0018	2029
* 65 Acenaphthene-d10	164	7.711	7.719	(1.000)	886023	40.0000	
$ 70 2-Fluorobiphenyl	172	6.611	6.617	(0.857)	1598451	56.6906	2018
* 97 Phenanthrene-d10	188	11.019	11.020	(1.000)	1052422	40.0000	
106 Phenanthrene	178	11.060	11.082	(1.004)	104434	3.48034	123.9(a)
107 Anthracene	178	11.170	11.192	(1.014)	19626	0.66249	23.58(a)
110 Fluoranthene	202	14.290	14.296	(1.297)	313209	10.5429	375.3
* 124 Chrysene-d12	240	18.437	18.441	(1.000)	299916	40.0000	
126 Pyrene	202	14.874	14.878	(0.807)	340183	28.4016	1011
$ 127 Terphenyl-d14	244	15.659	15.647	(0.849)	1039048	137.199	4884(AR)
130 Benzo(a)anthracene	228	18.396	18.400	(0.998)	64889	6.71498	239.0

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Report Date: 11-Jul-2006 13:58

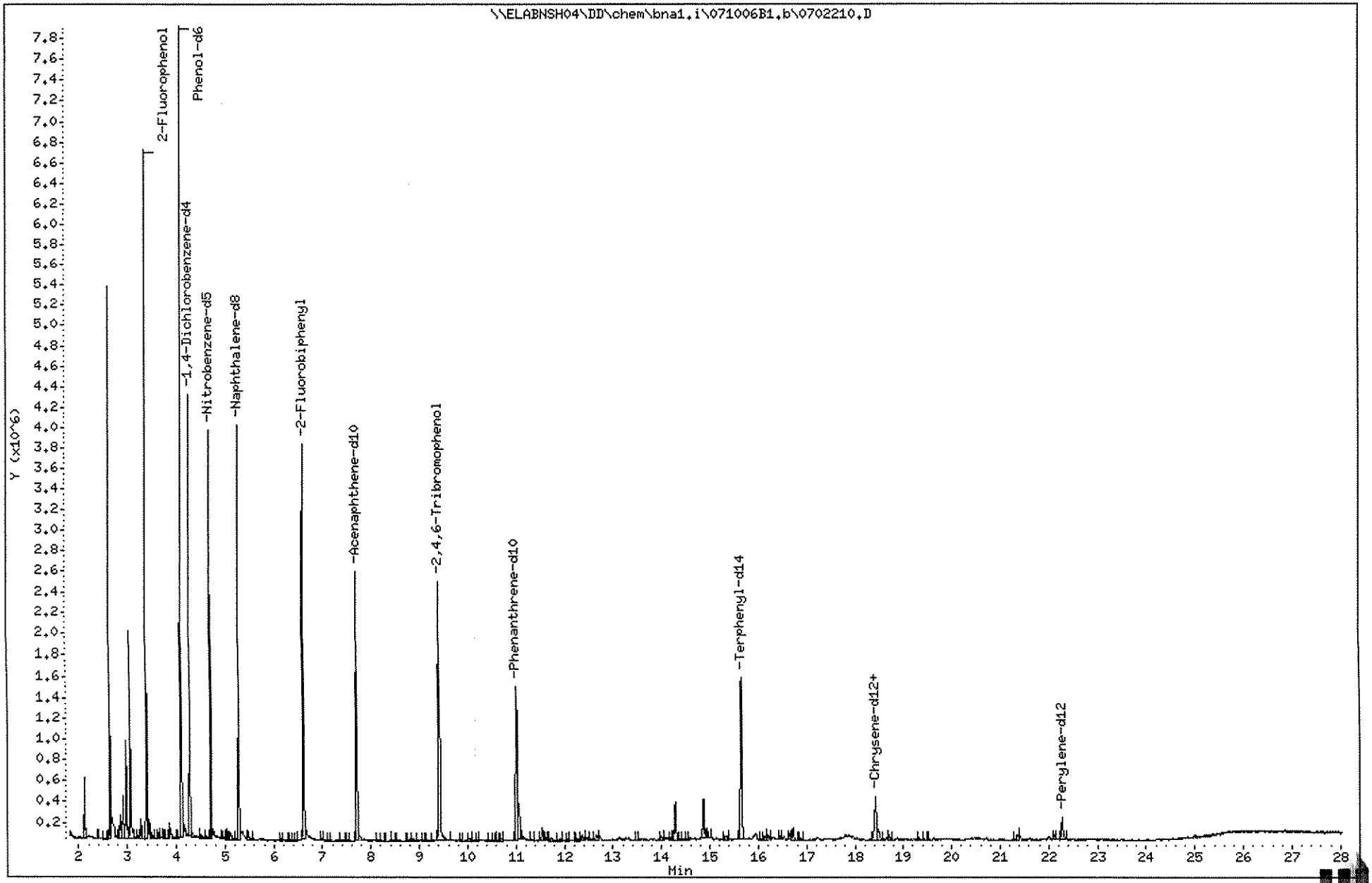
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
131 Chrysene	228	18.500	18.510	(1.003)	78343	8.87637	316.0
* 145 Perylene-d12	264	22.280	22.273	(1.000)	157786	40.0000	
147 Benzo(b)fluoranthene	252	21.349	21.352	(0.958)	53239	10.9534	389.9(M)
148 Benzo(k)fluoranthene	252	21.383	21.421	(0.960)	34797	6.90036	245.6(M)
149 Benzo(a)pyrene	252	22.115	22.121	(0.993)	32787	7.82278	278.5
150 Indeno(1,2,3-cd)pyrene	276	25.003	24.990	(1.122)	16675	4.66319	166.0(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Date : 10-JUL-2006 19:14
Client ID: 51CFM08S060706
Instrument: bna1.i
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000272



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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

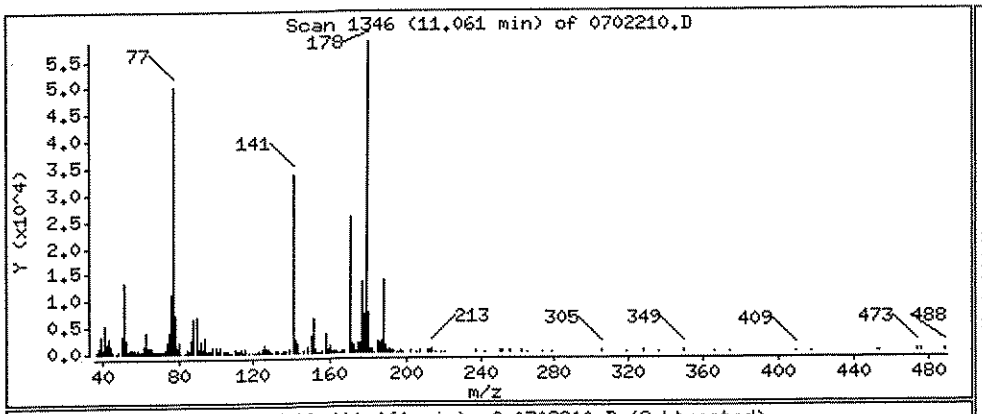
Operator: SDB

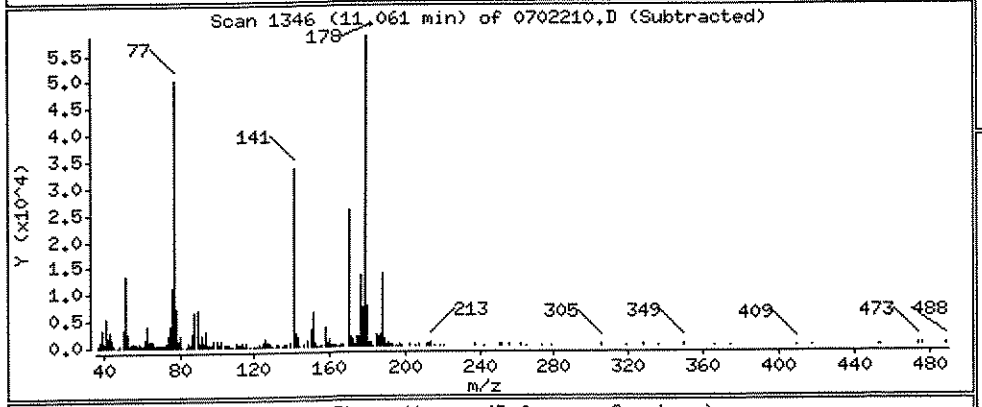
Column phase: fused silica

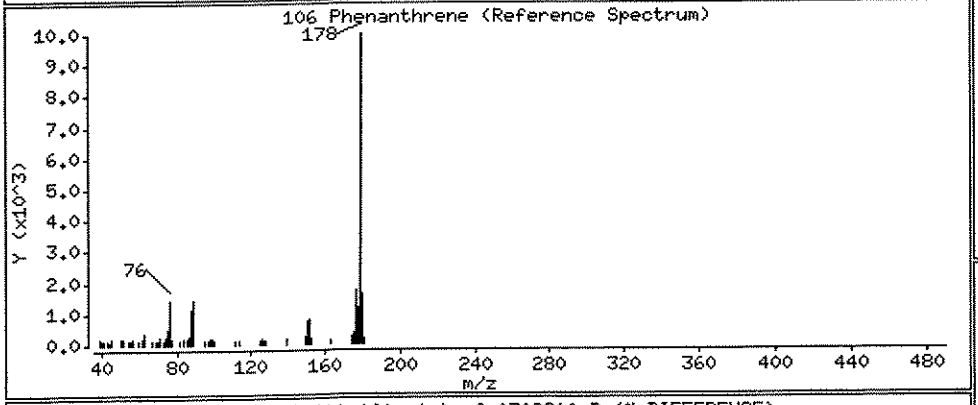
Column diameter: 0.25

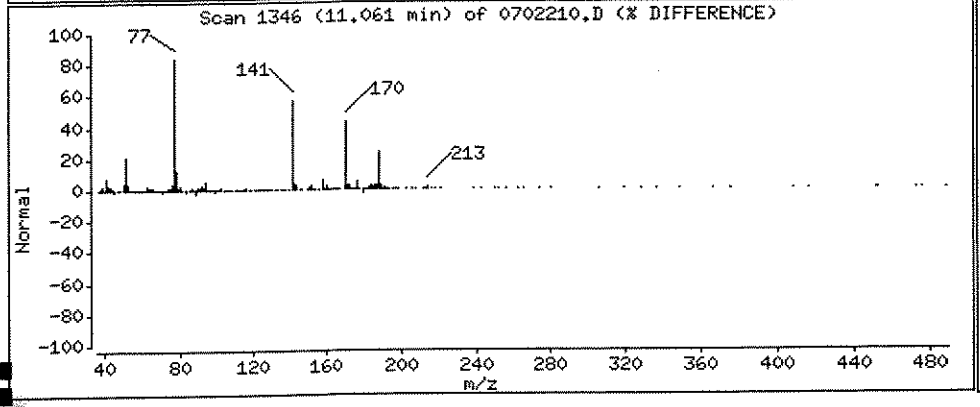
106 Phenanthrene

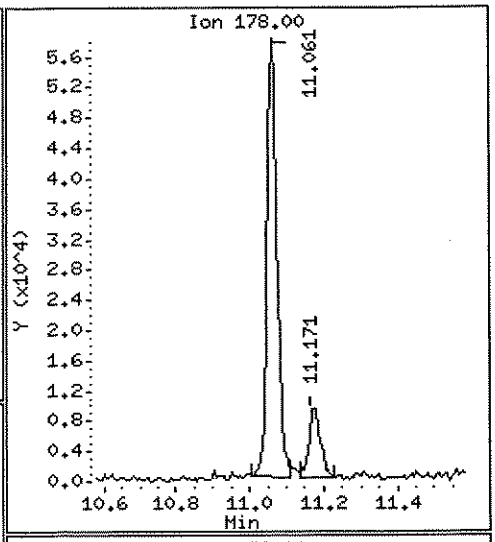
Concentration: 123.9 UG/KG

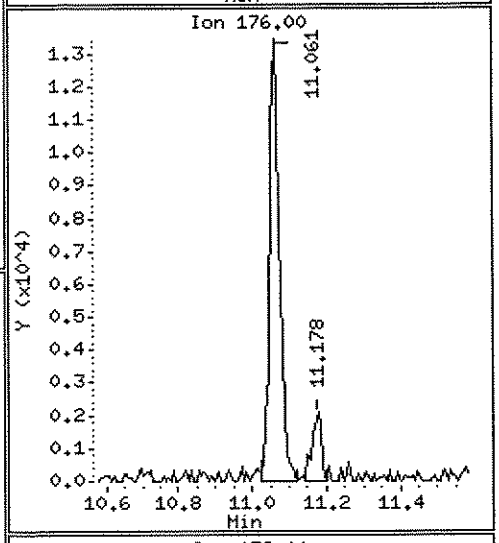


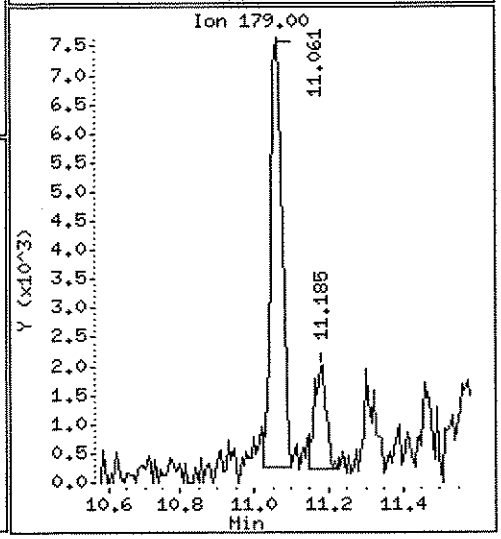












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000273

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFH08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

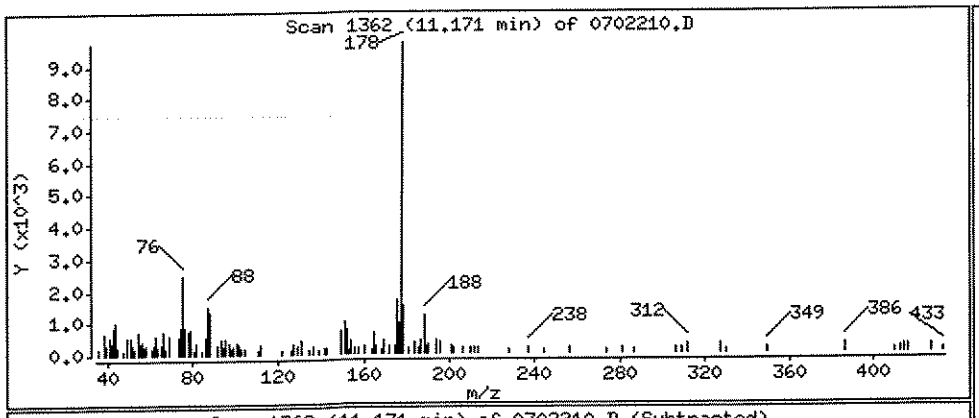
Operator: SDB

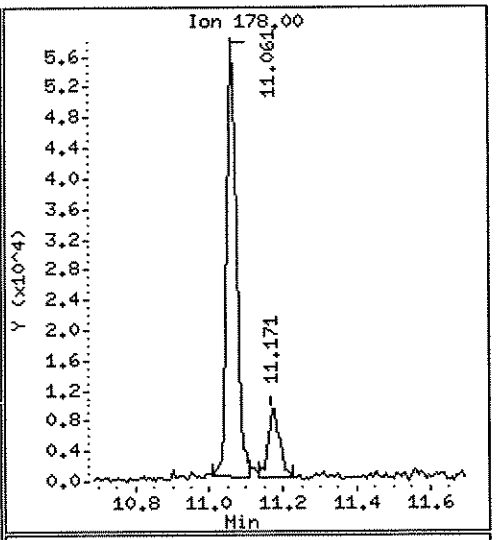
Column phase: fused silica

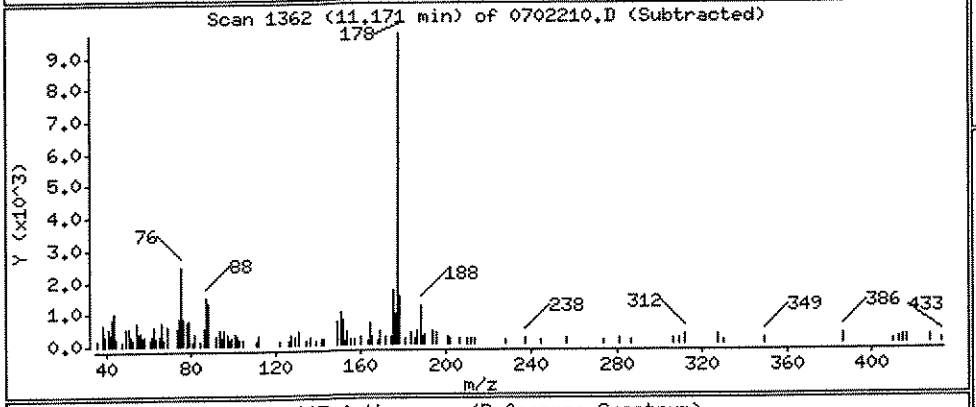
Column diameter: 0.25

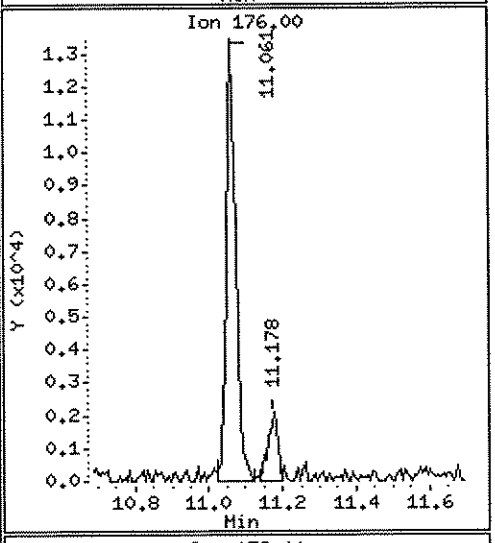
107 Anthracene

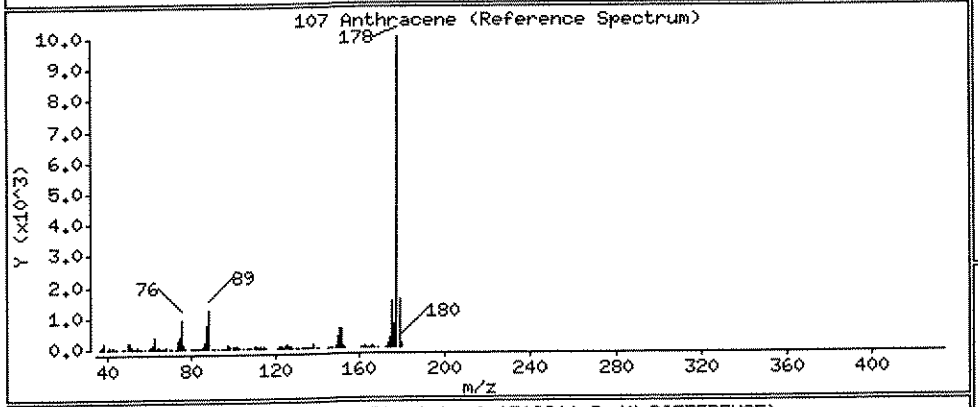
Concentration: 23.58 UG/KG

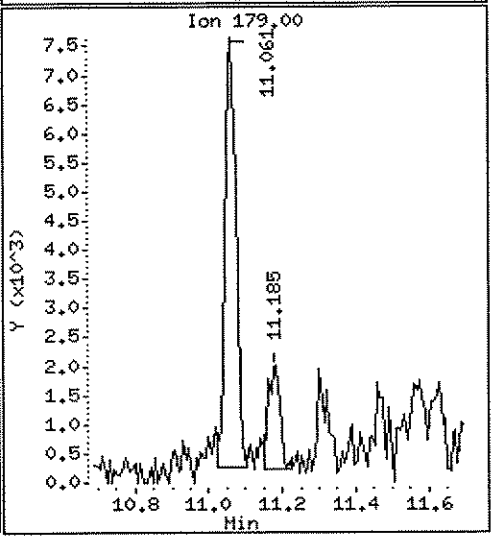


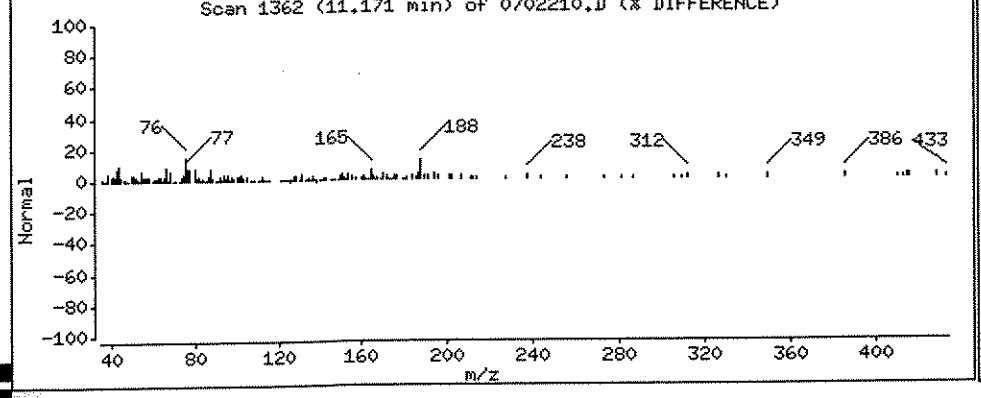












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

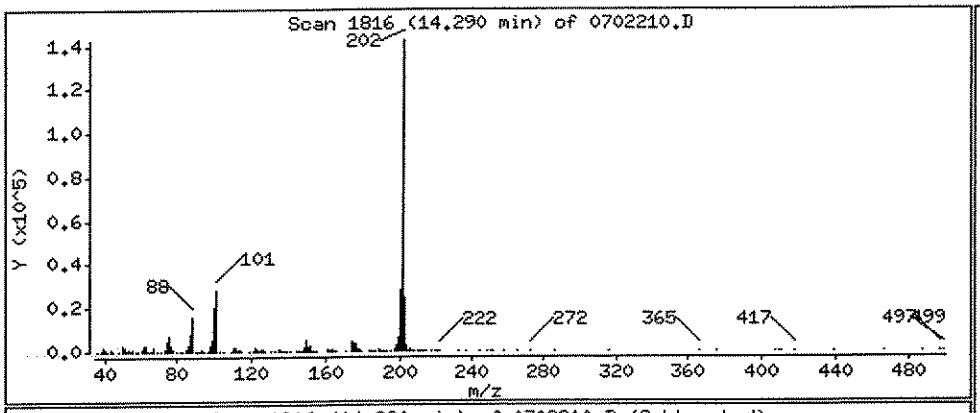
Client ID: 51CFM08S060706 Instrument: bna1.i

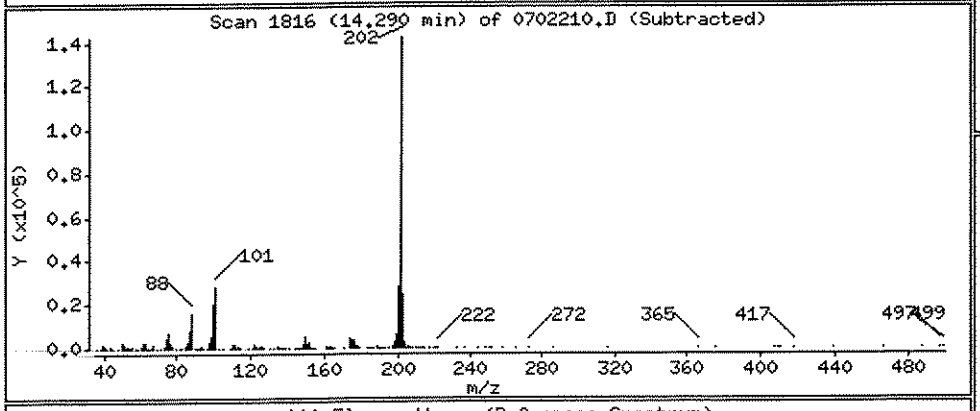
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

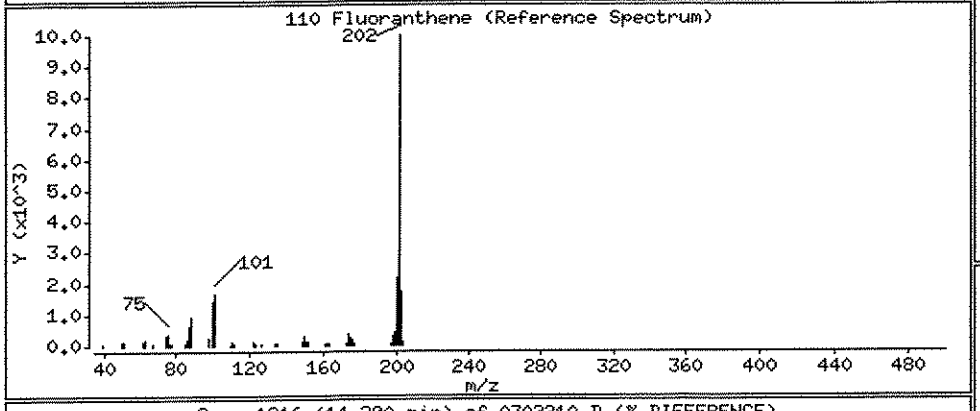
Volume Injected (uL): 0.5 Operator: SDB

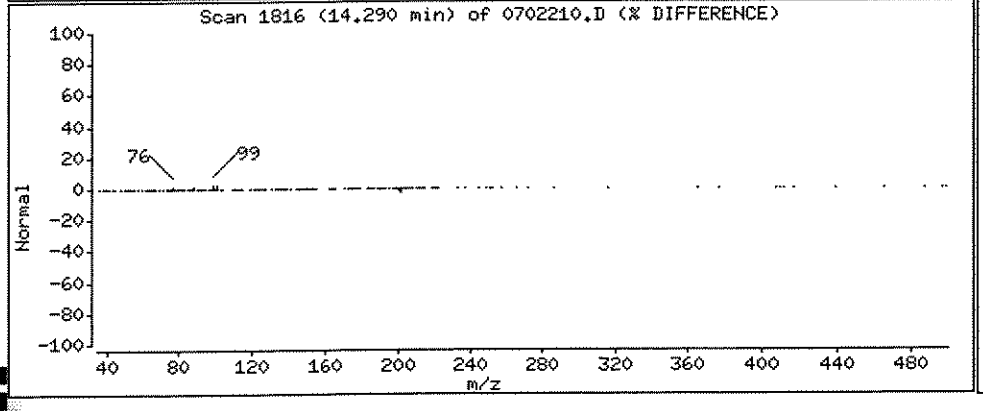
Column phase: fused silica Column diameter: 0.25

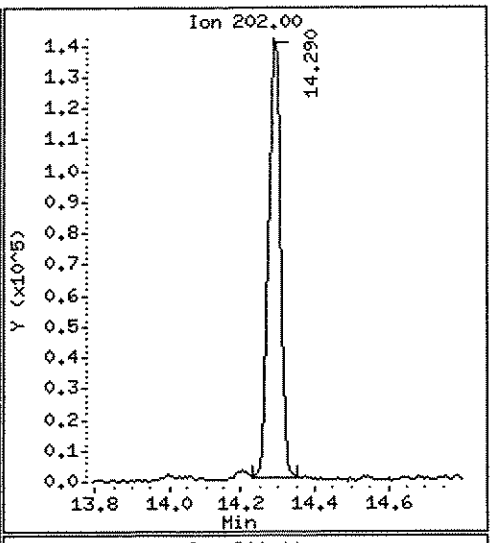
110 Fluoranthene Concentration: 375.3 UG/KG

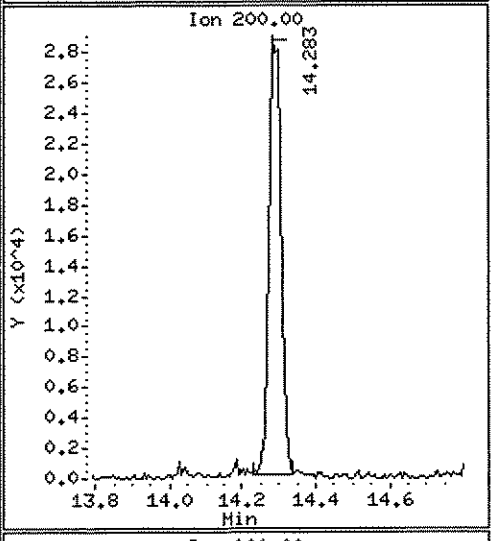


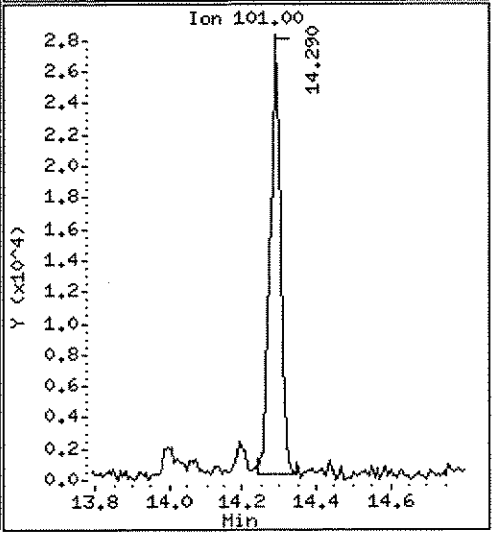












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

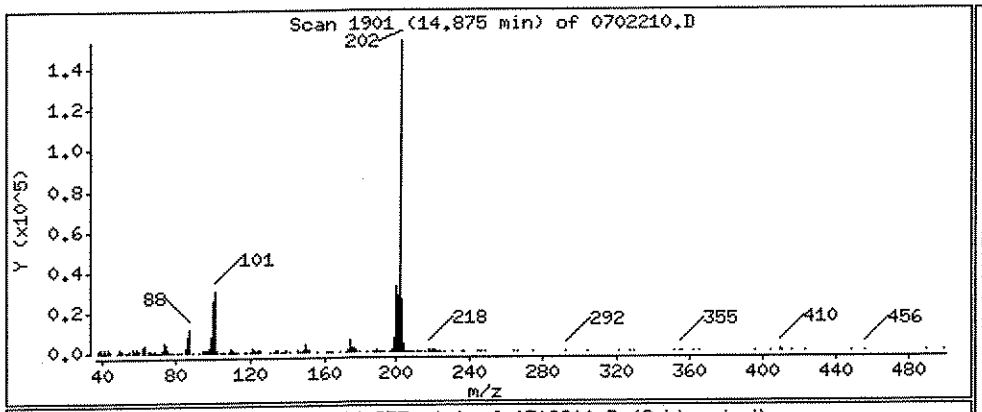
Operator: SDB

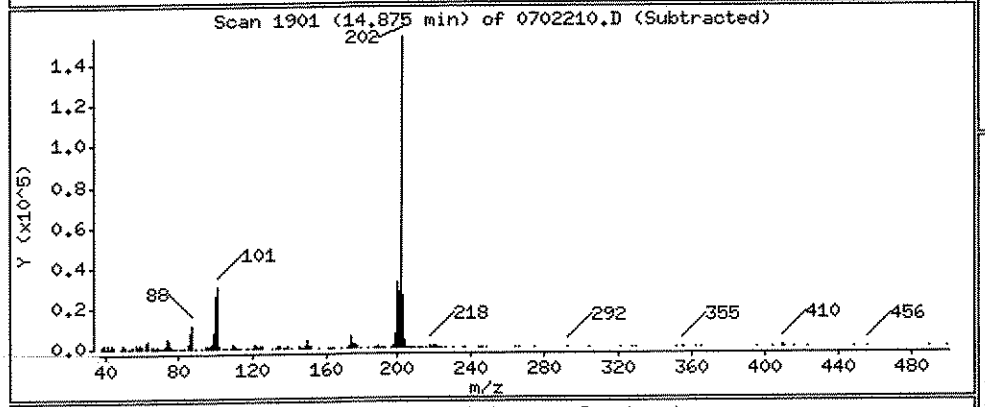
Column phase: fused silica

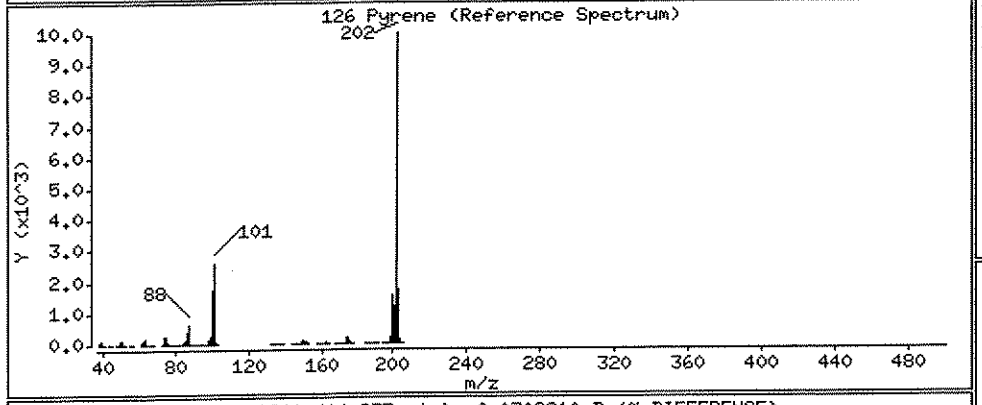
Column diameter: 0.25

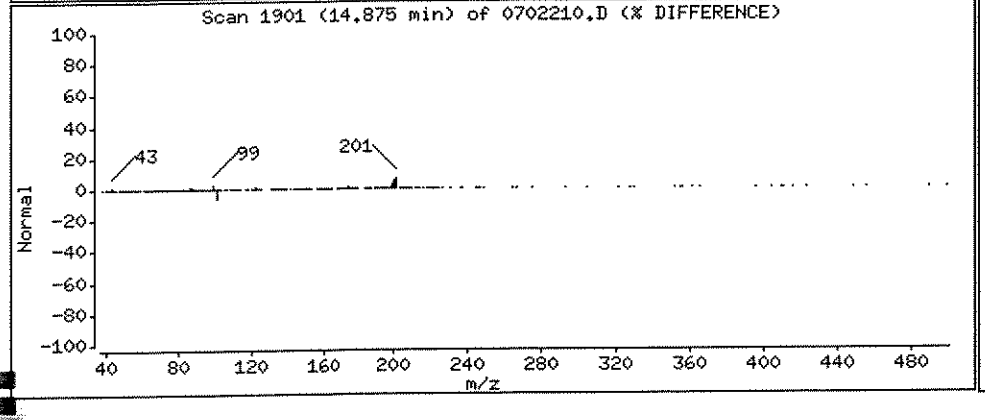
126 Pyrene

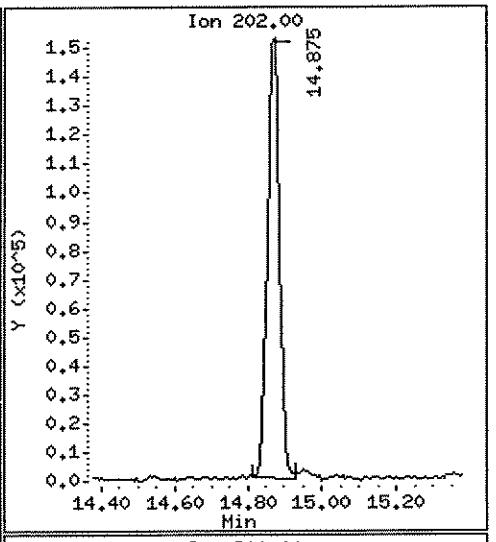
Concentration: 1011 UG/KG

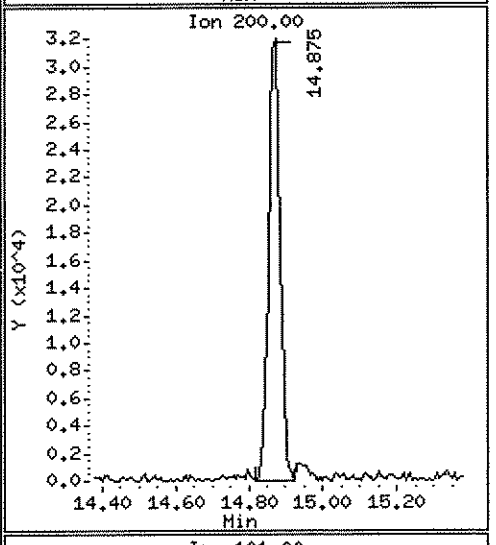


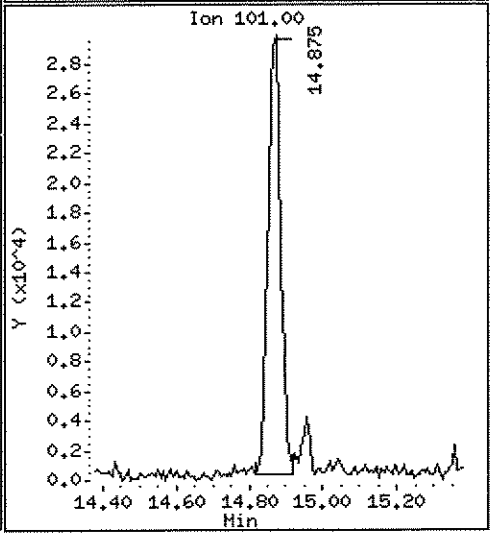












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

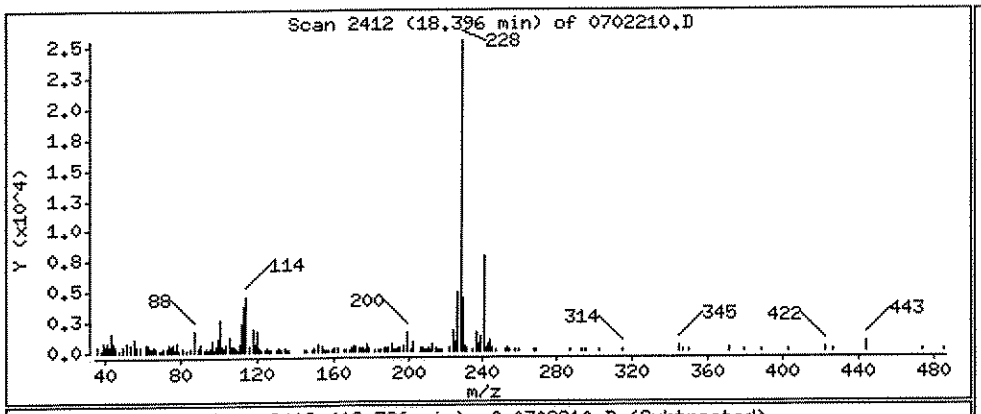
Client ID: 51CFM08S060706 Instrument: bna1.i

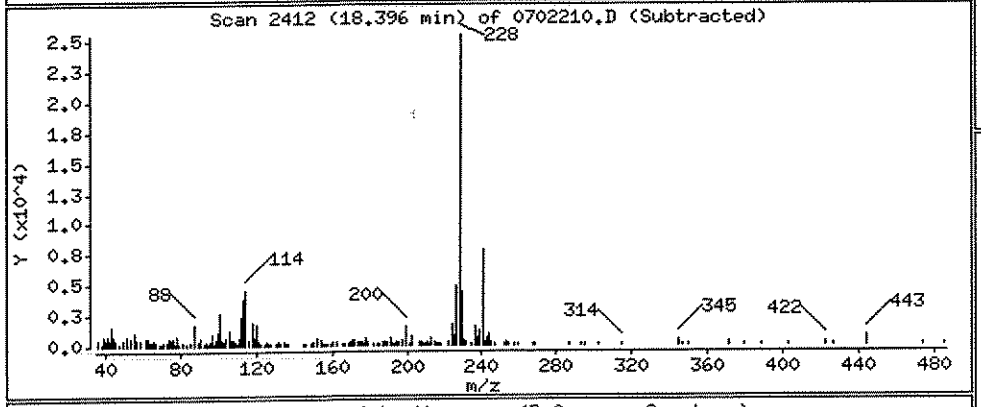
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

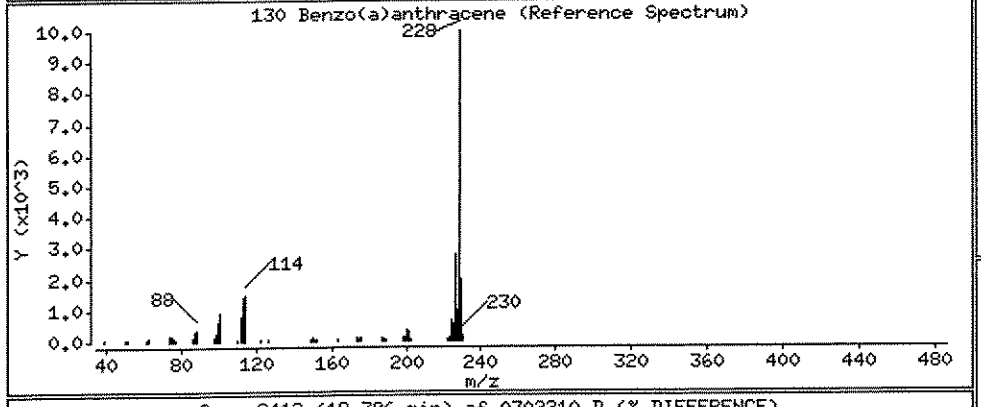
Volume Injected (uL): 0.5 Operator: SDB

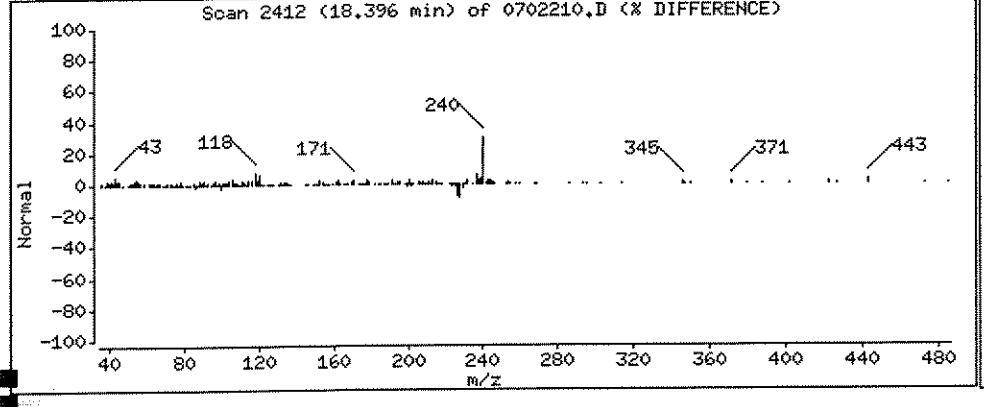
Column phase: fused silica Column diameter: 0.25

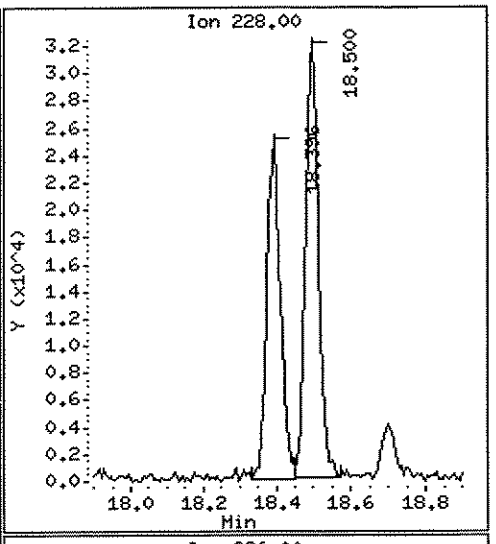
130 Benzo(a)anthracene Concentration: 239.0 UG/KG

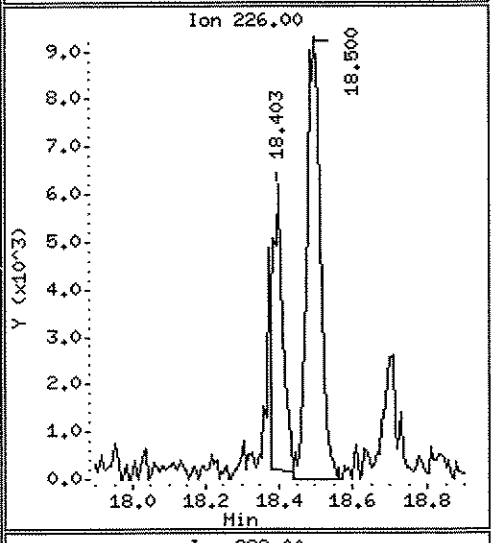


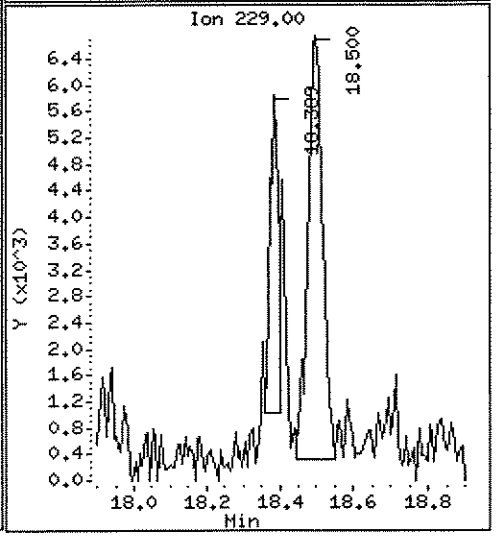












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

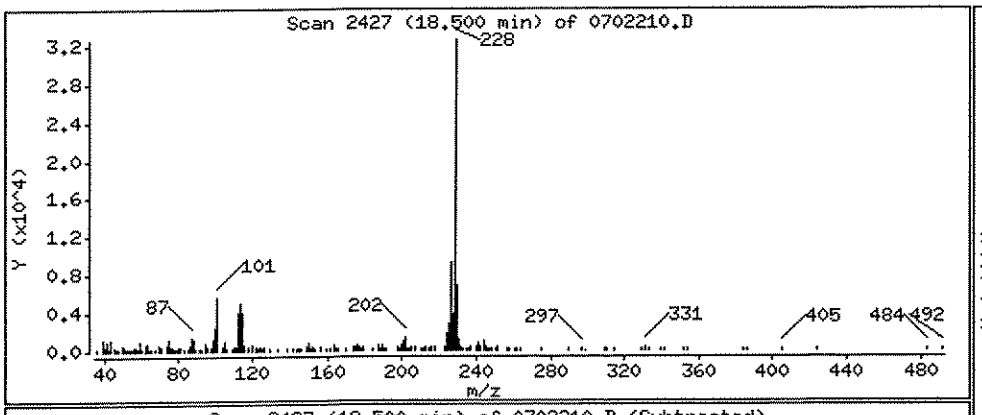
Client ID: 51CFM08S060706 Instrument: bna1.i

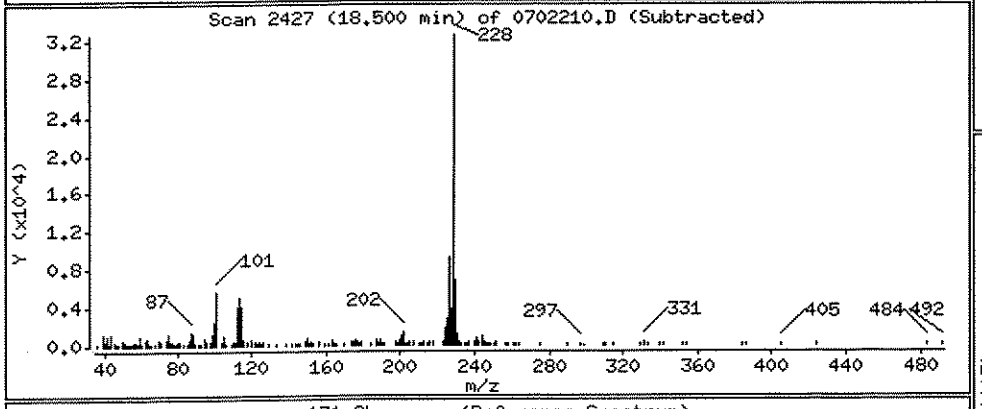
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

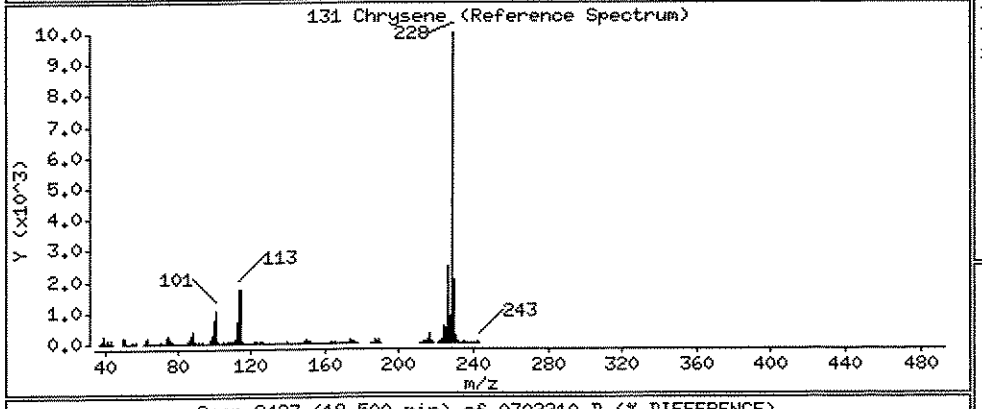
Volume Injected (uL): 0.5 Operator: SDB

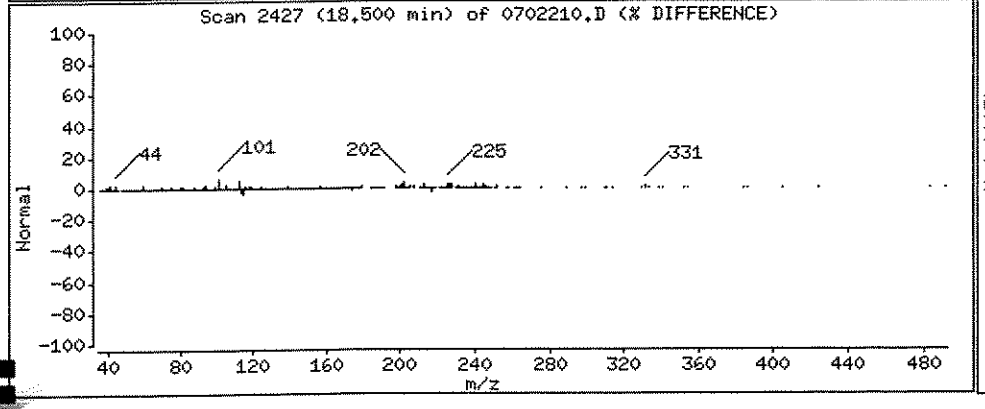
Column phase: fused silica Column diameter: 0.25

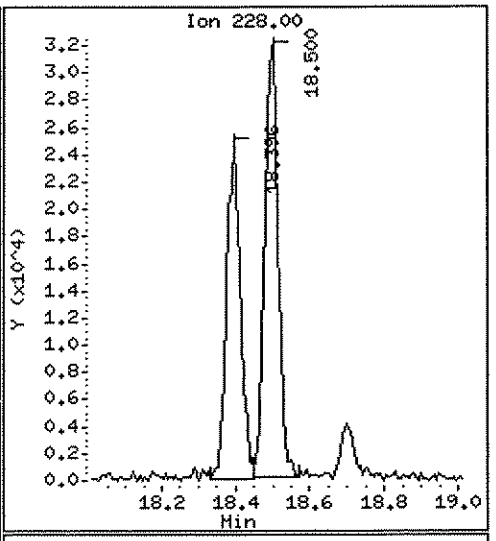
131 Chrysene Concentration: 316.0 UG/KG

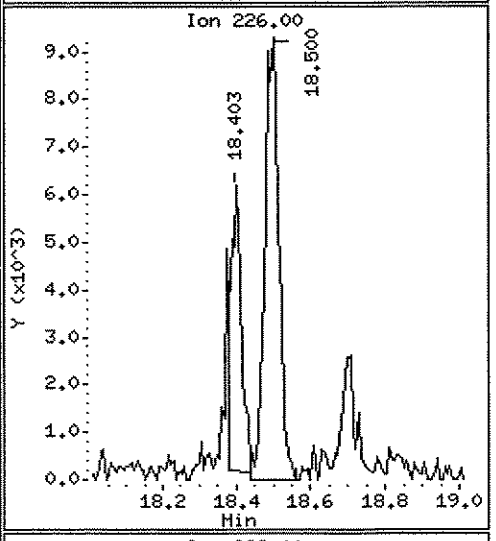


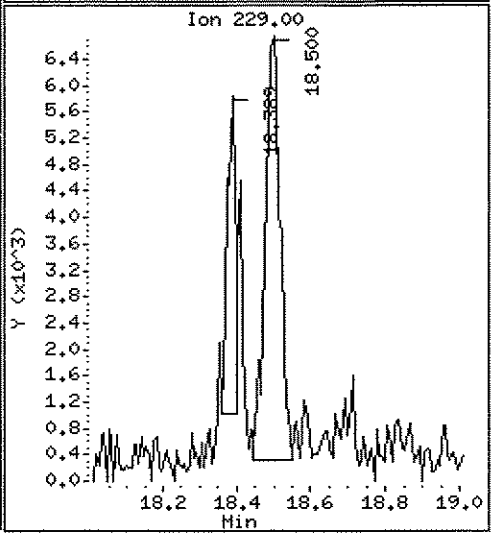












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

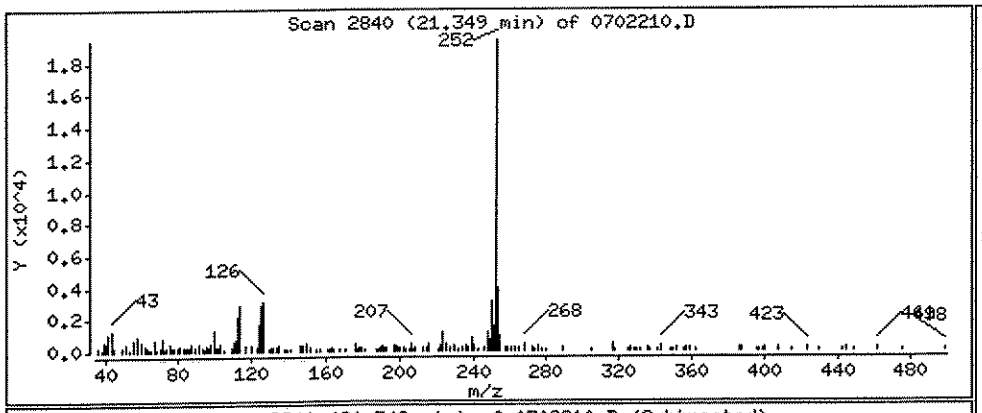
Client ID: 51CFM08S060706 Instrument: bna1.i

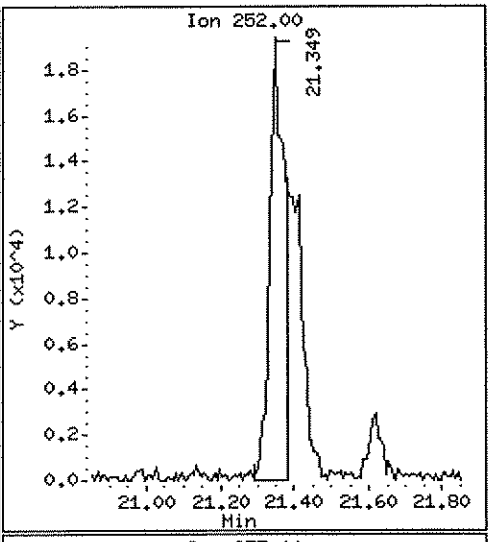
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

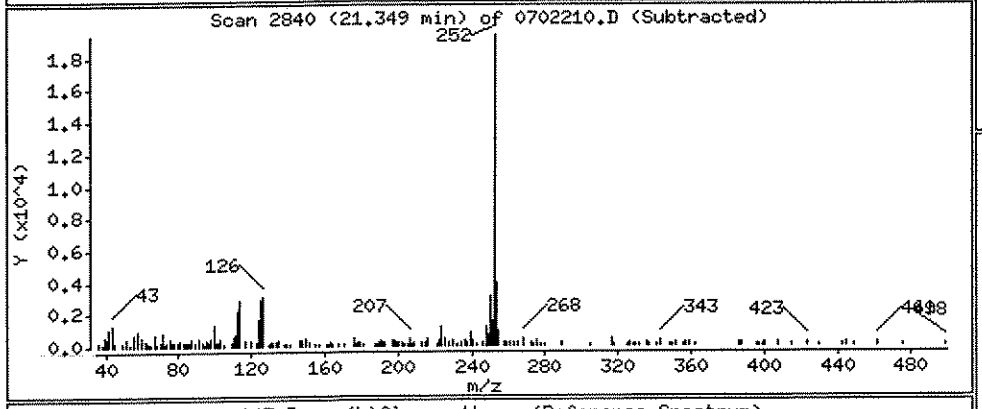
Volume Injected (uL): 0.5 Operator: SDB

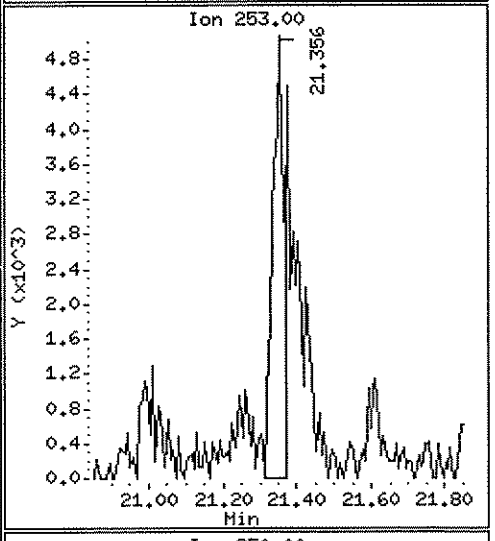
Column phase: fused silica Column diameter: 0.25

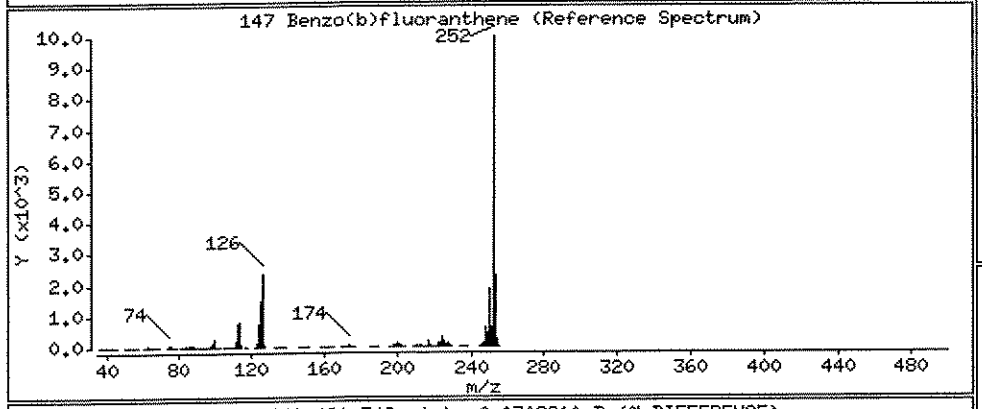
147 Benzo(b)fluoranthene Concentration: 389.9 UG/KG

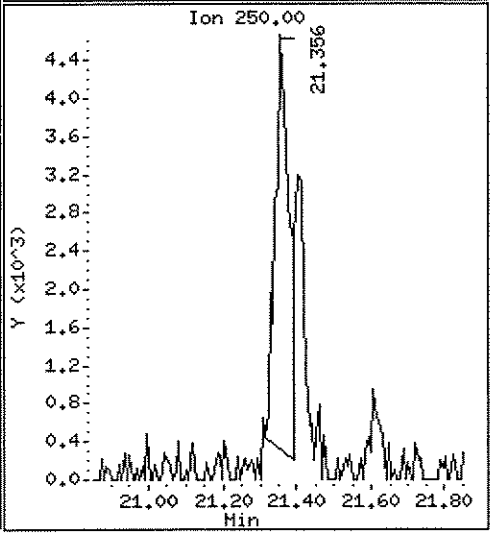


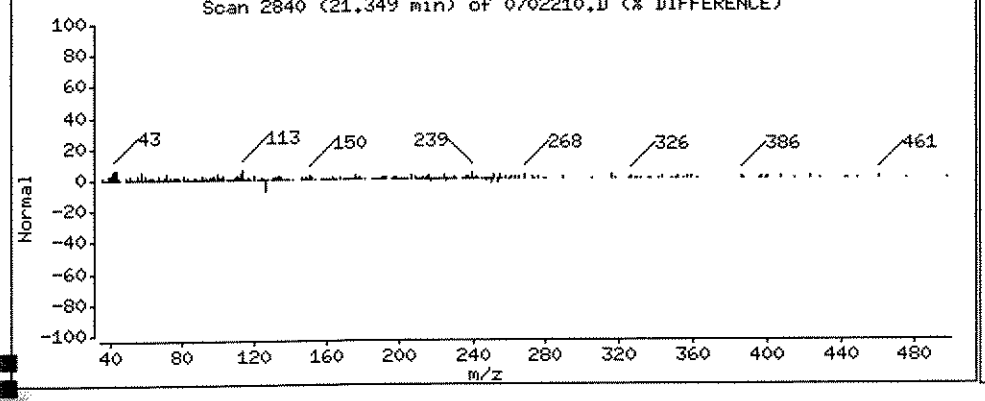












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

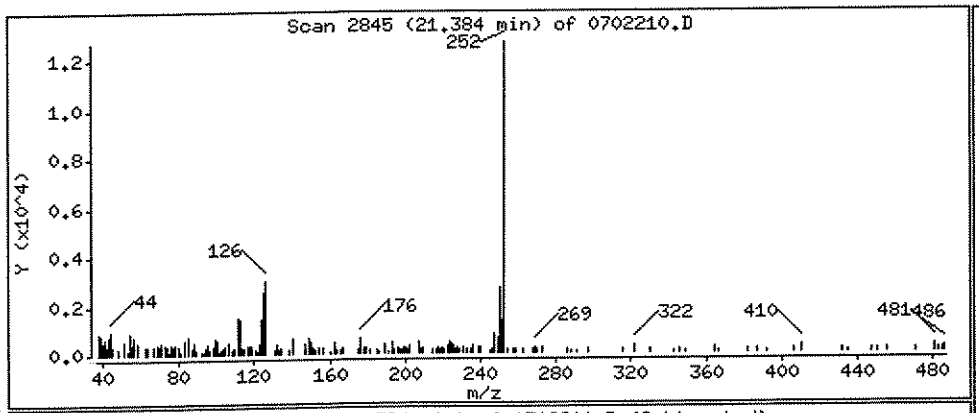
Operator: SDB

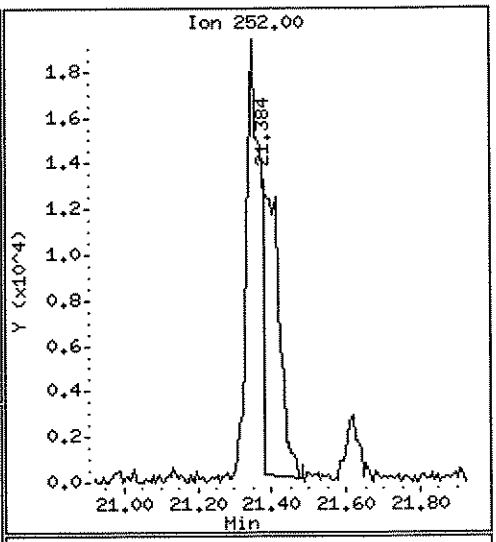
Column phase: fused silica

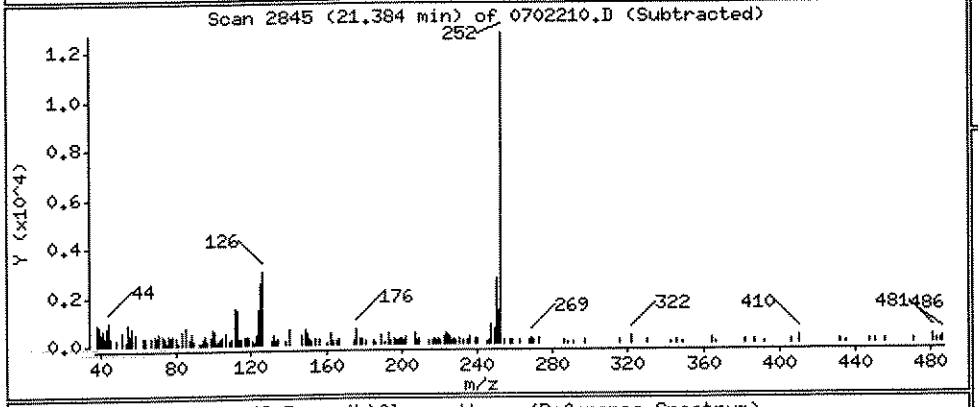
Column diameter: 0.25

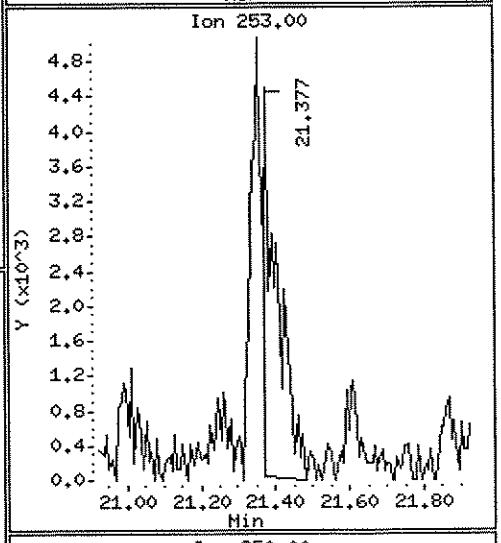
148 Benzo(k)fluoranthene

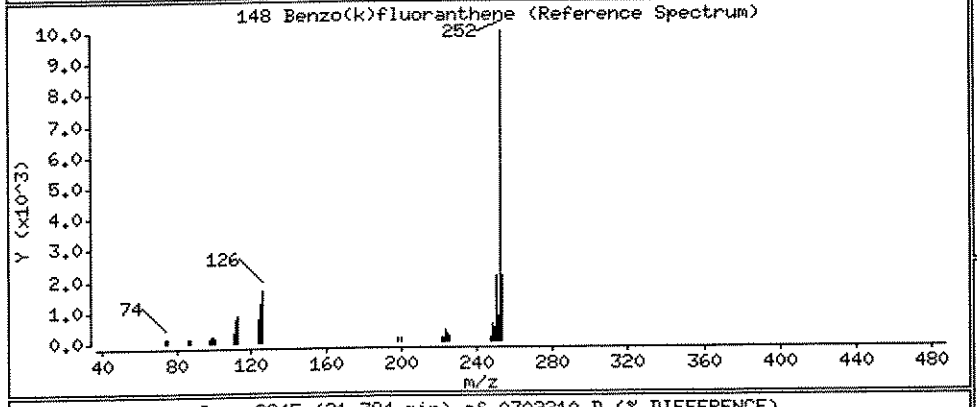
Concentration: 245.6 UG/KG

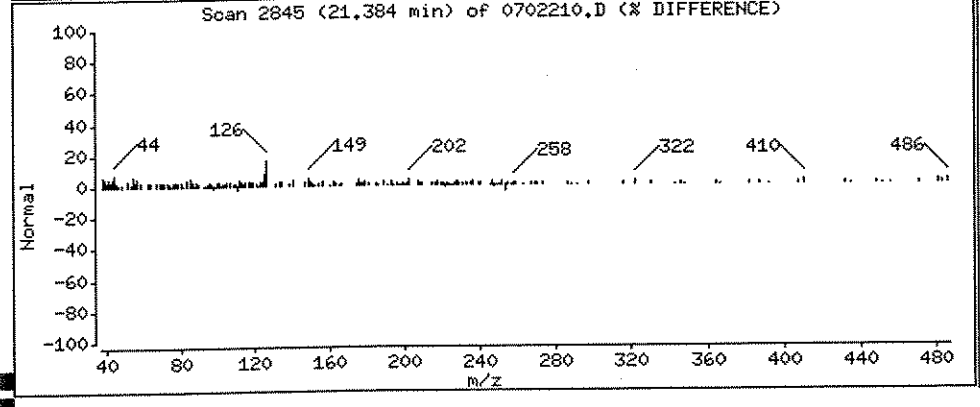


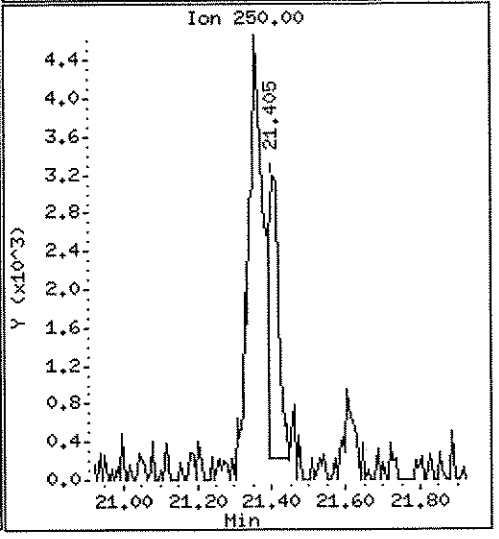












Empirical Laboratories

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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

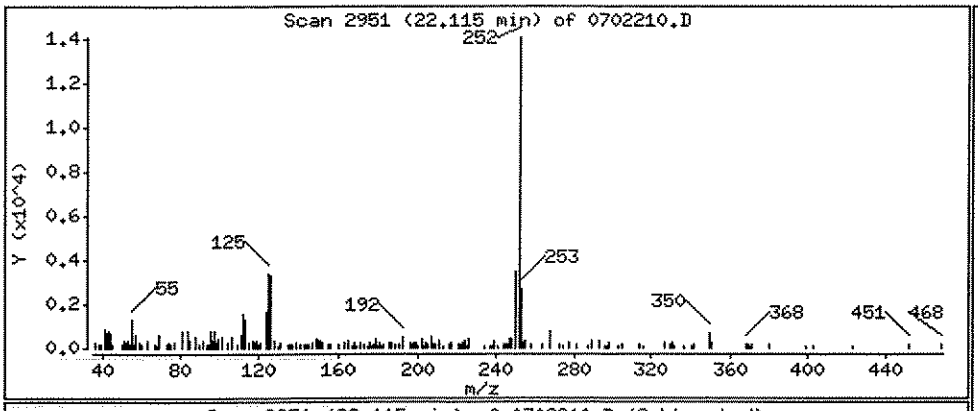
Client ID: 51CFM08S060706 Instrument: bna1.i

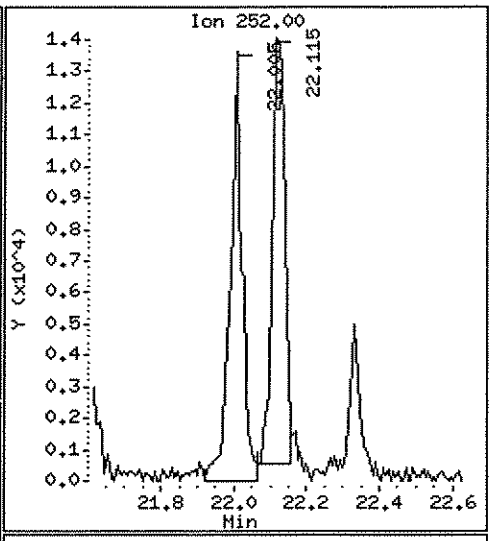
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

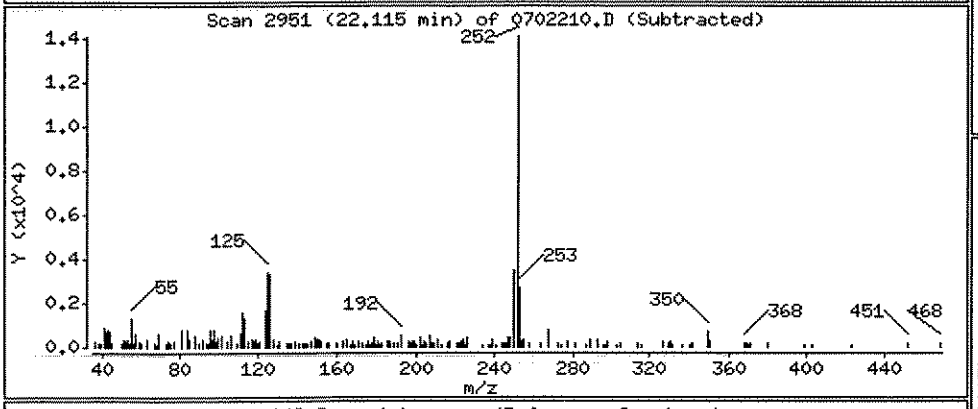
Volume Injected (uL): 0.5 Operator: SDB

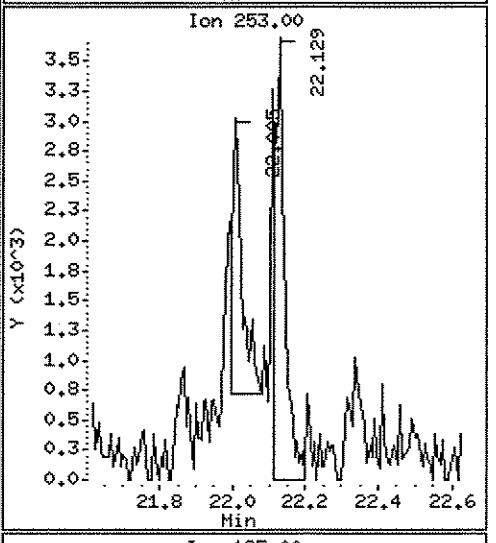
Column phase: fused silica Column diameter: 0.25

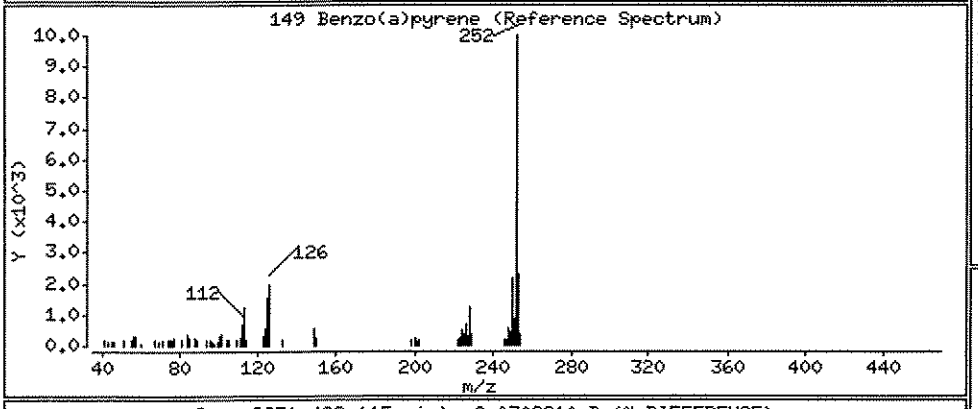
149 Benzo(a)pyrene Concentration: 278.5 UG/KG

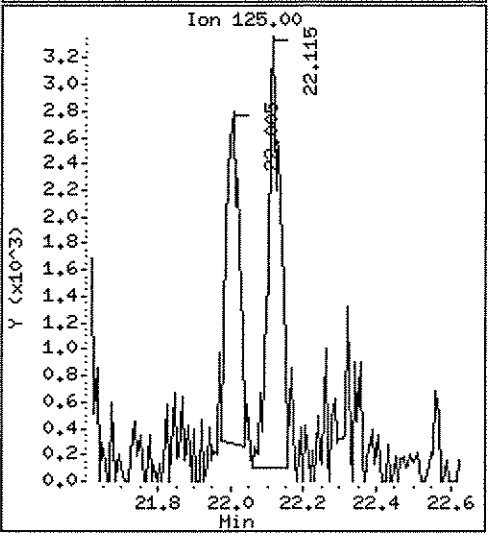


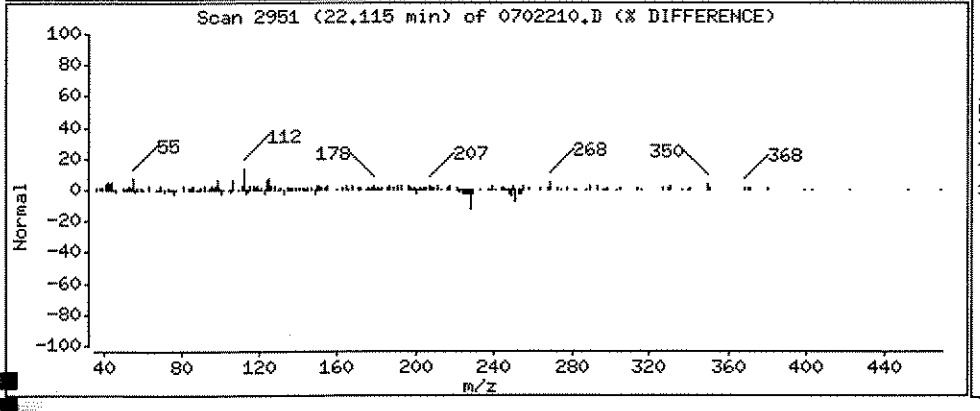












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Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

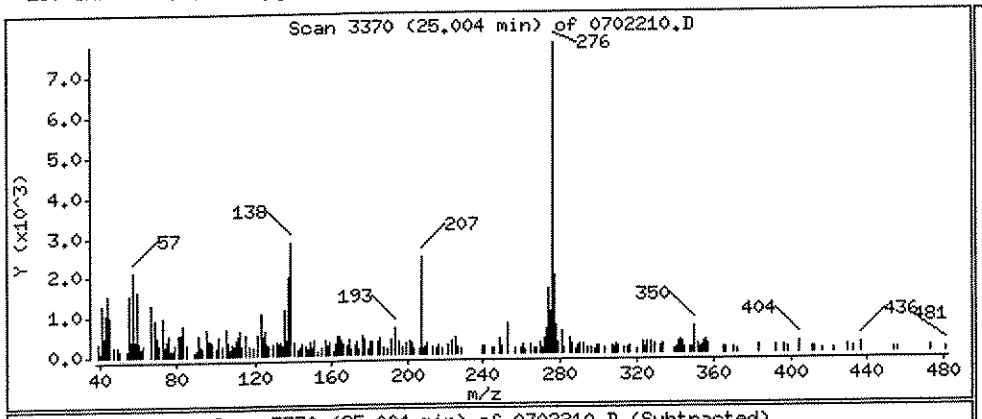
Operator: SDB

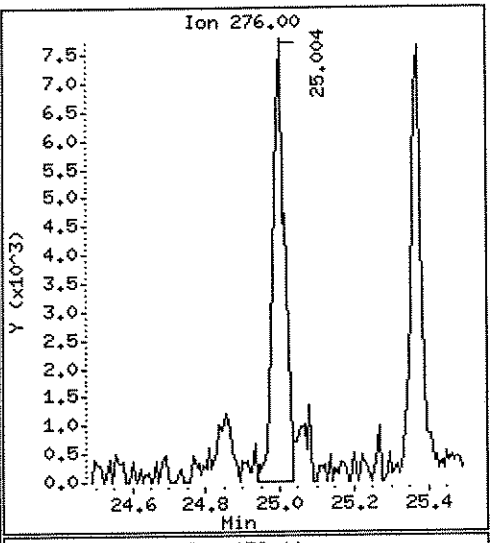
Column phase: fused silica

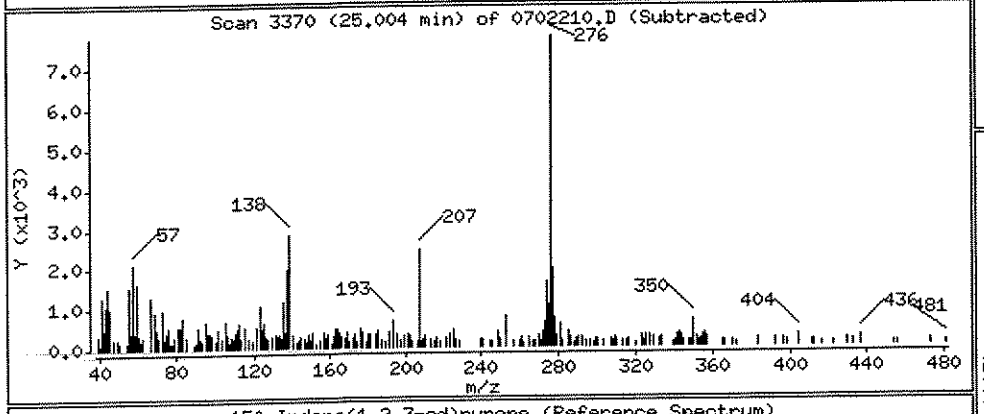
Column diameter: 0.25

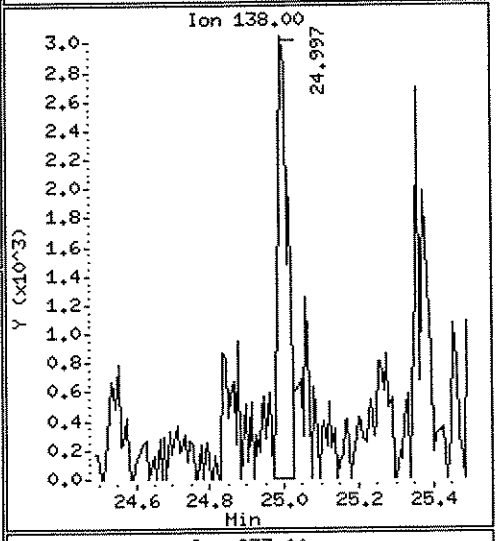
150 Indeno(1,2,3-cd)pyrene

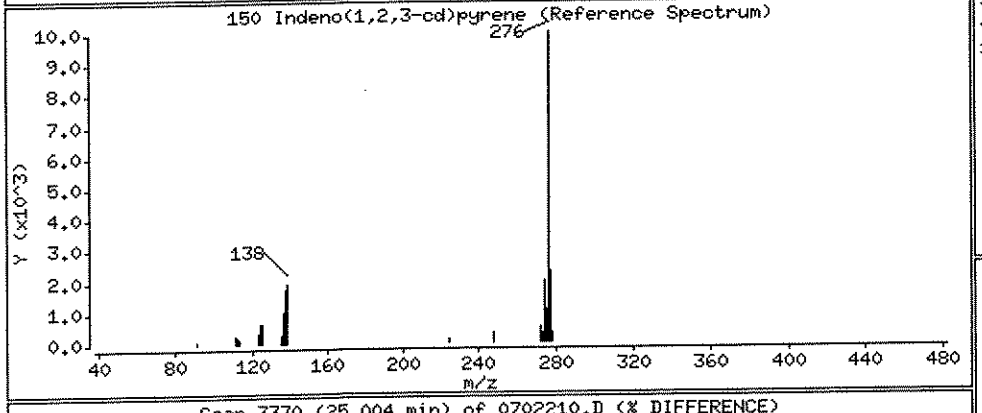
Concentration: 166.0 UG/KG

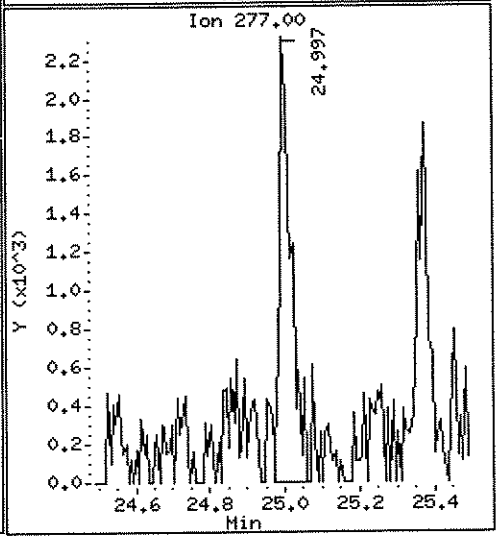


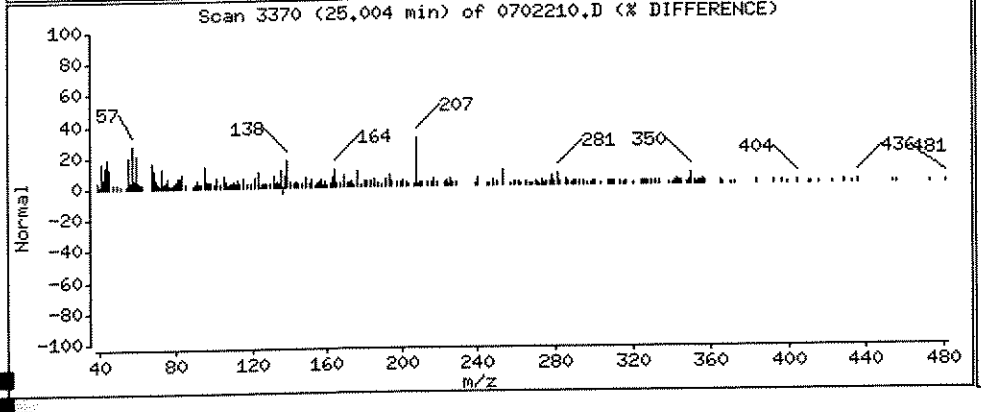












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM08S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210D

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:42

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	43	360		UD
208-96-8	Acenaphthylene	43	360		UD
120-12-7	Anthracene	43	360		UD
56-55-3	Benzo(a)anthracene	43	360	230	JD
205-99-2	Benzo(b)fluoranthene	43	360	330	JD
207-08-9	Benzo(k)fluoranthene	43	360	190	JD
191-24-2	Benzo(g,h,i)perylene	43	360	180	JD
50-32-8	Benzo(a)pyrene	43	210	310	D
218-01-9	Chrysene	43	360	340	JD
53-70-3	Dibenz(a,h)anthracene	43	210		UD
206-44-0	Fluoranthene	43	360	490	D
86-73-7	Fluorene	43	360		UD
193-39-5	Indeno(1,2,3-cd)pyrene	43	360	170	JD
91-57-6	2-Methylnaphthalene	43	360		UD
90-12-0	1-Methylnaphthalene	110	360		UD
91-20-3	Naphthalene	43	360		UD
85-01-8	Phenanthrene	43	360	110	JD
129-00-0	Pyrene	43	360	590	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Lab Smp Id: 0607022-10 Client Smp ID: 51CFM08S060706
Inj Date : 11-JUL-2006 12:42
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7
Dil Factor: 2.00000 Compound Sublist: ch2pah.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	91.800	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	576810	40.0000	
* 31 Naphthalene-d8	136	5.232	5.240	(1.000)	1935806	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.891)	688728	32.5921	2320
* 65 Acenaphthene-d10	164	7.637	7.641	(1.000)	991861	40.0000	
$ 70 2-Fluorobiphenyl	172	6.547	6.555	(0.857)	947915	30.0314	2138
* 97 Phenanthrene-d10	188	10.919	10.923	(1.000)	1290131	40.0000	
106 Phenanthrene	178	10.960	10.986	(1.004)	59090	1.60639	114.4(a)
110 Fluoranthene	202	14.172	14.195	(1.298)	252705	6.93900	494.0
* 124 Chrysene-d12	240	18.326	18.333	(1.000)	867995	40.0000	
126 Pyrene	202	14.750	14.770	(0.805)	289370	8.34768	594.3
$ 127 Terphenyl-d14	244	15.547	15.545	(0.848)	847362	38.6605	2752
130 Benzo(a)anthracene	228	18.270	18.291	(0.997)	91800	3.28245	233.7(a)
131 Chrysene	228	18.382	18.409	(1.003)	122355	4.79004	341.0(a)

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Report Date: 12-Jul-2006 12:13

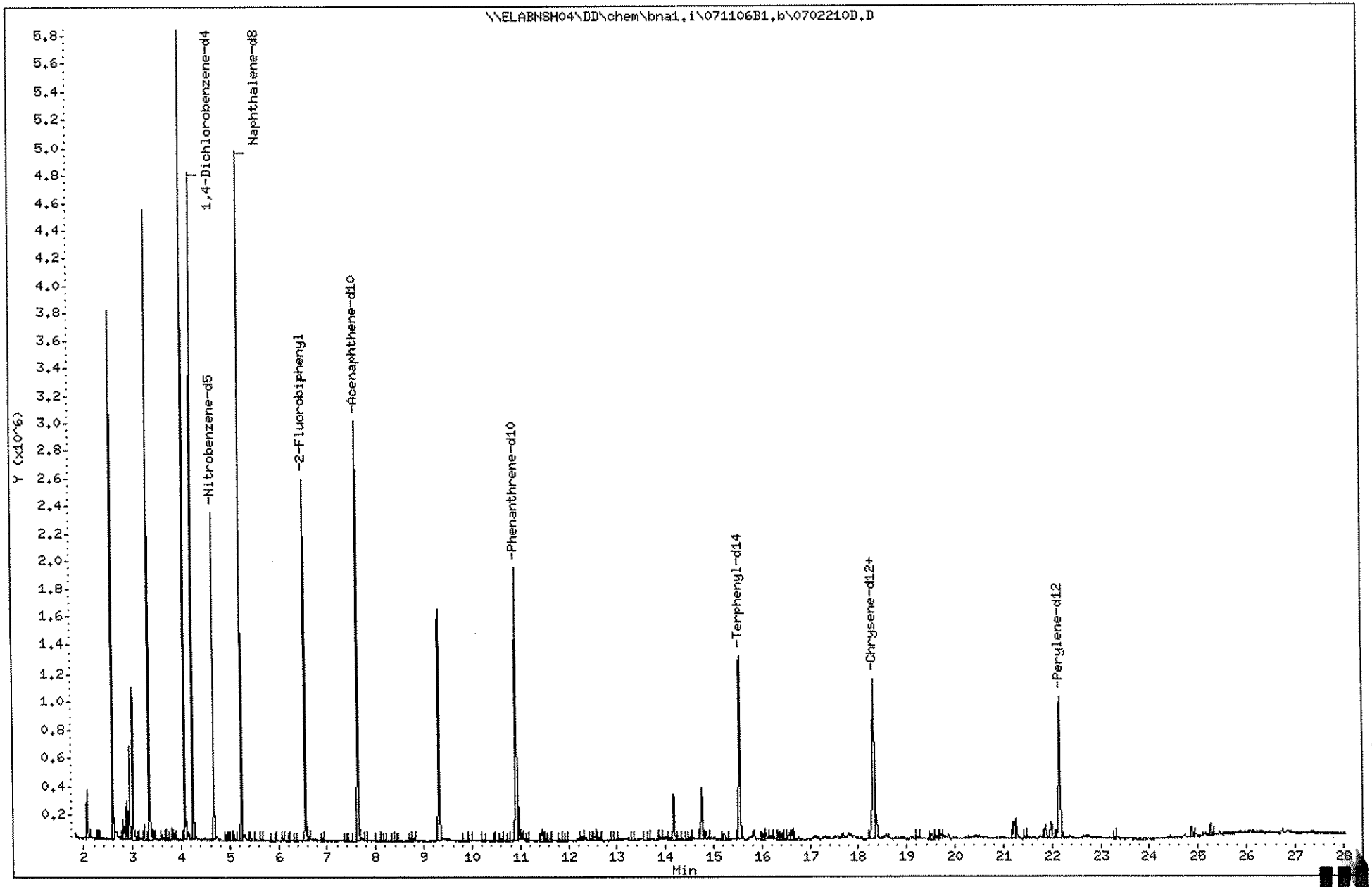
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.160	22.175	(1.000)	850543	40.0000	
147 Benzo(b)fluoranthene	252	21.217	21.248	(0.957)	122375	4.67073	332.5(aM)
148 Benzo(k)fluoranthene	252	21.265	21.317	(0.960)	73989	2.72188	193.8(aM)
149 Benzo(a)pyrene	252	21.988	22.017	(0.992)	98996	4.38177	312.0(a)
150 Indeno(1,2,3-cd)pyrene	276	24.880	24.921	(1.123)	46749	2.42528	172.7(a)
152 Benzo(g,h,i)perylene	276	25.268	25.301	(1.140)	49344	2.46680	175.6(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Date : 11-JUL-2006 12:42
Client ID: 51CFM08S060706
Instrument: bna1.i
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000286



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

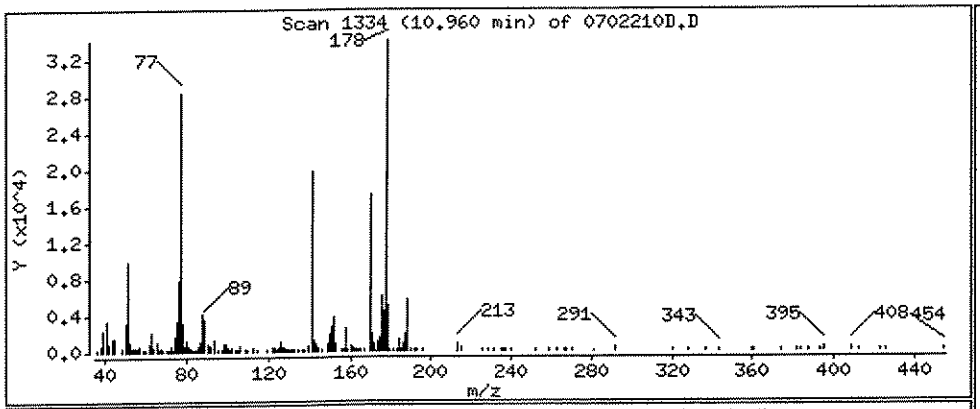
Client ID: 51CFM08S060706 Instrument: bna1.i

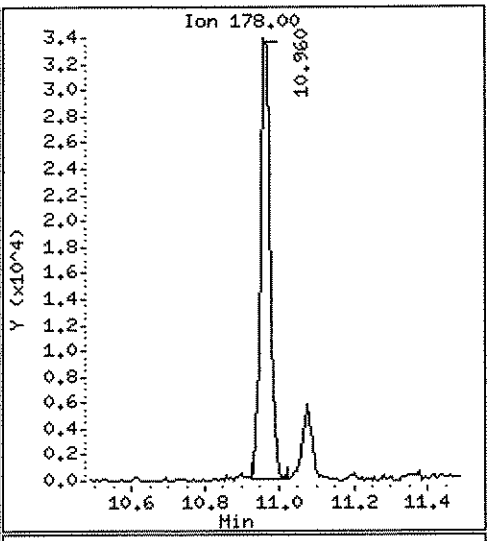
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

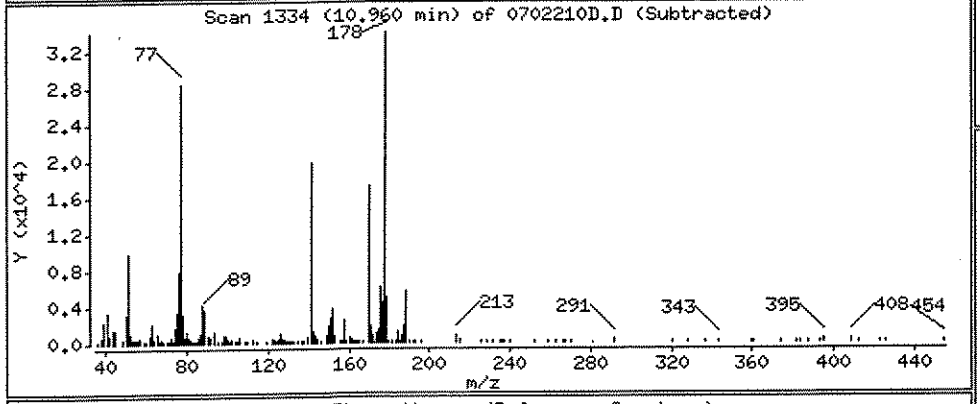
Volume Injected (uL): 0.5 Operator: SDB

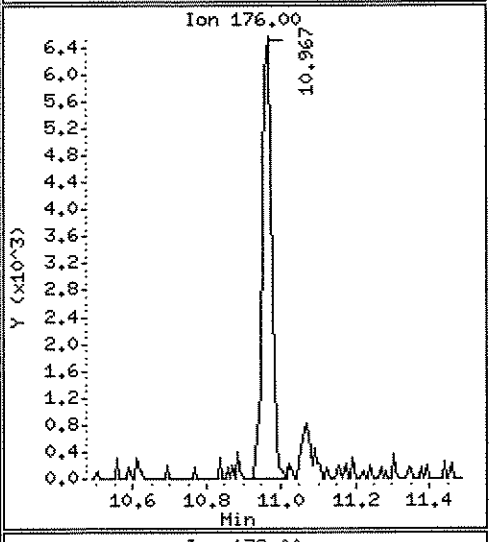
Column phase: fused silica Column diameter: 0.25

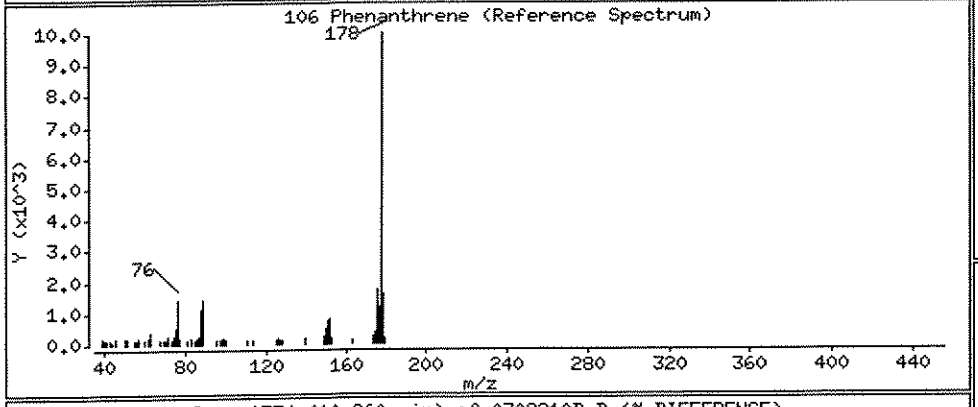
106 Phenanthrene Concentration: 114.4 UG/KG

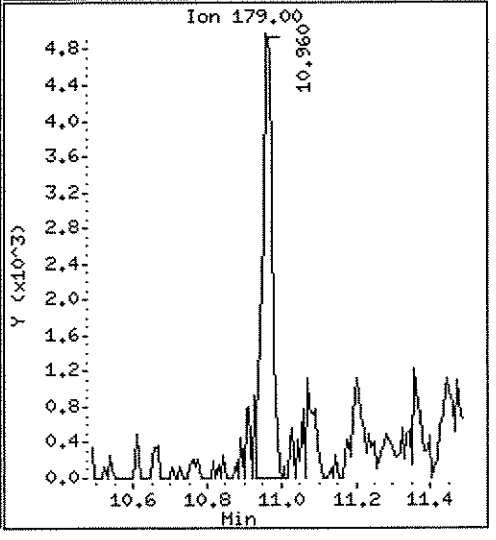


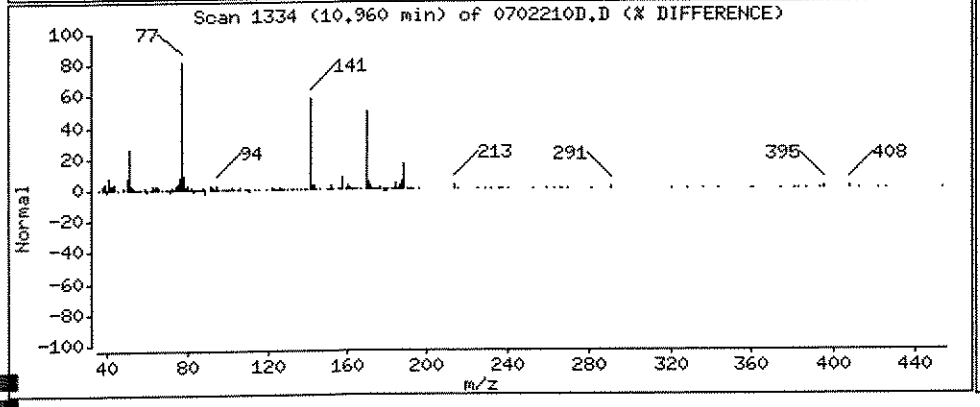












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Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

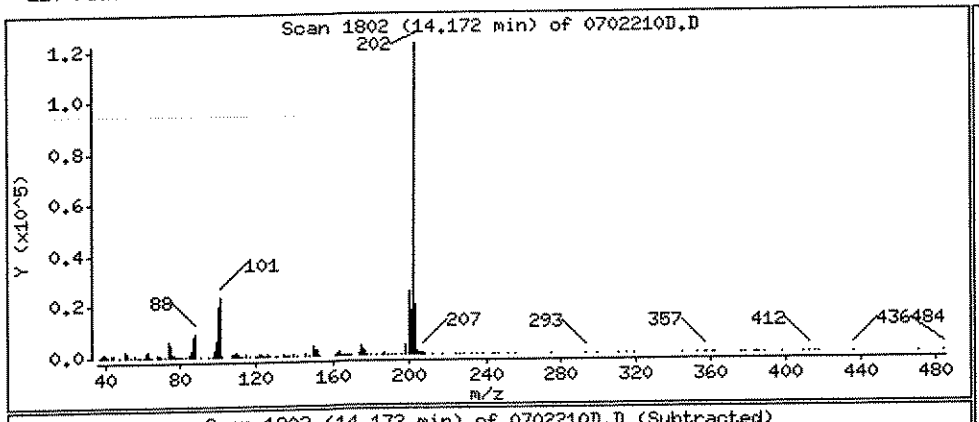
Operator: SDB

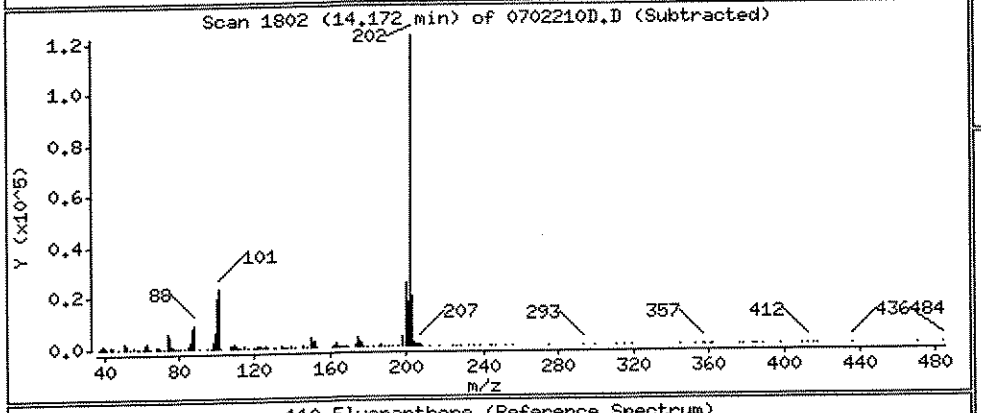
Column phase: fused silica

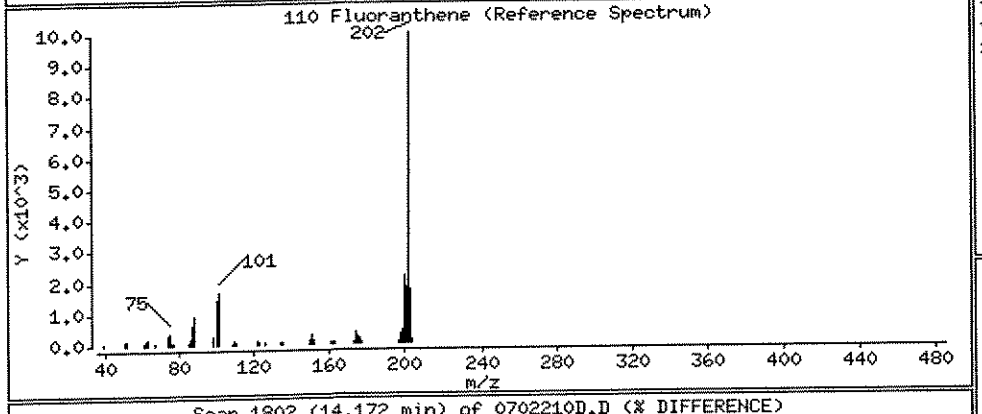
Column diameter: 0.25

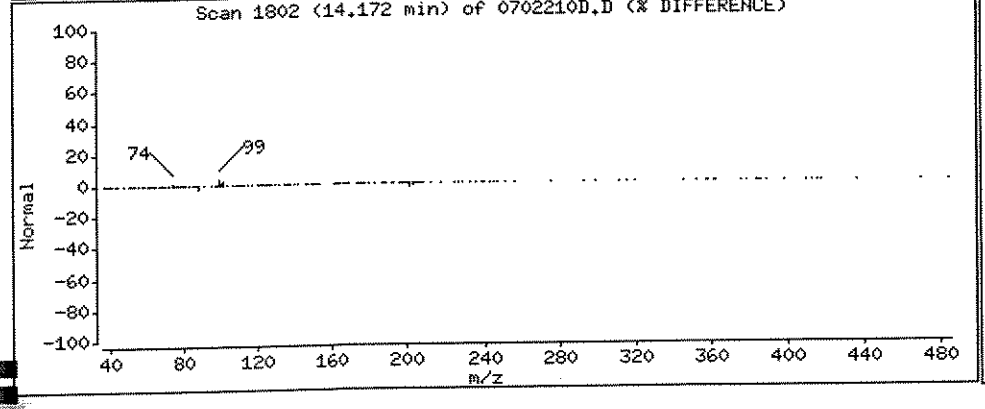
110 Fluoranthene

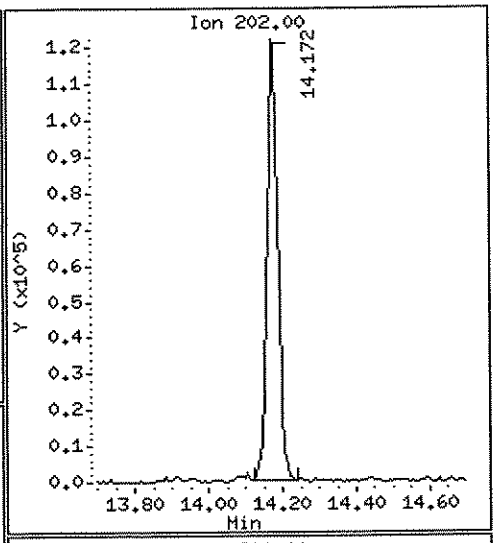
Concentration: 494.0 UG/KG

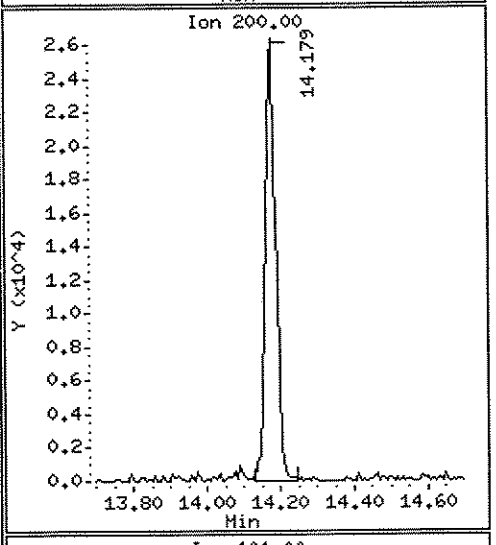


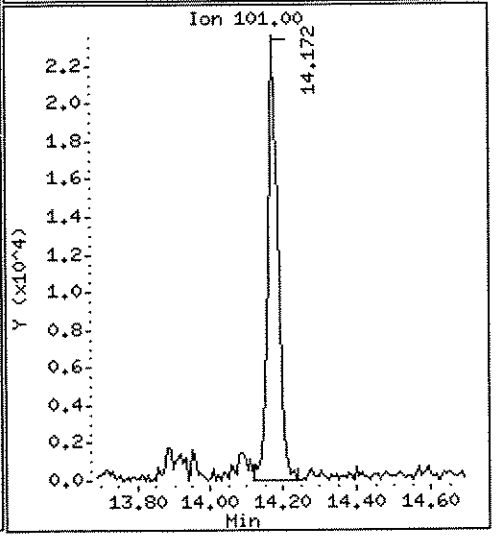












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Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

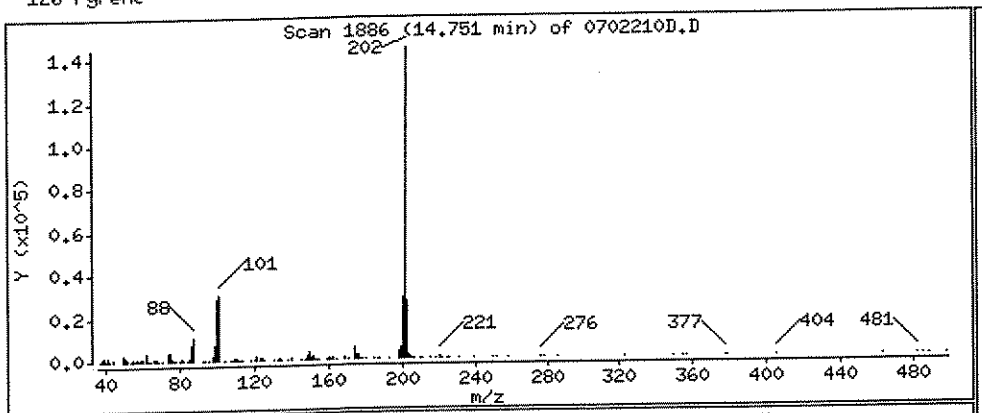
Operator: SDB

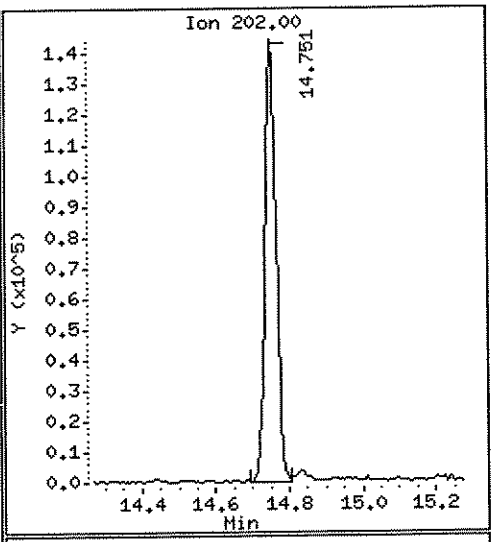
Column phase: fused silica

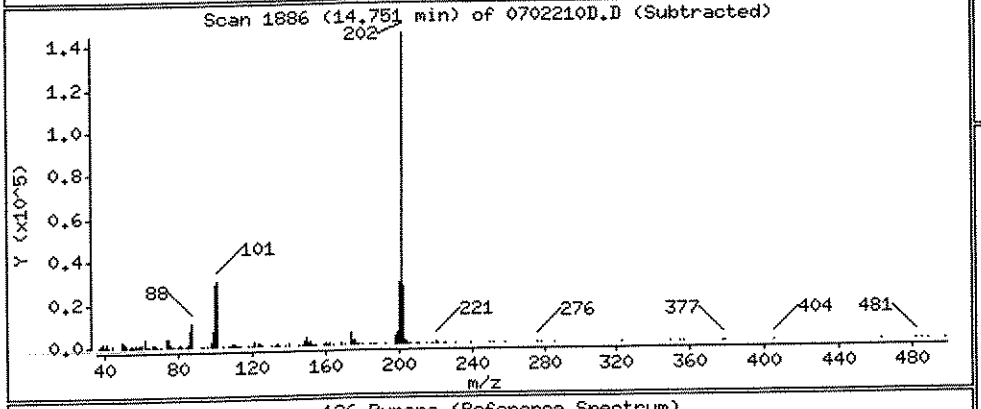
Column diameter: 0.25

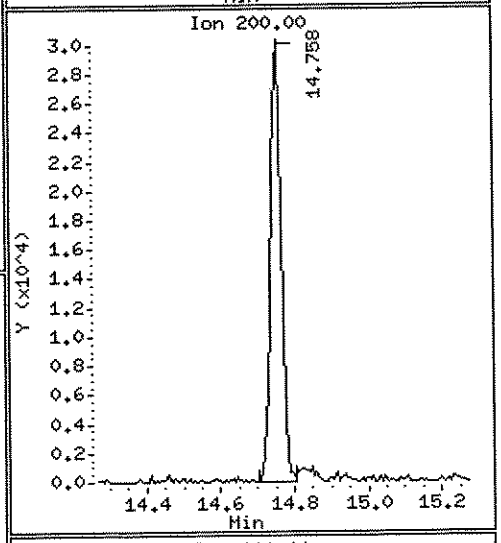
126 Pyrene

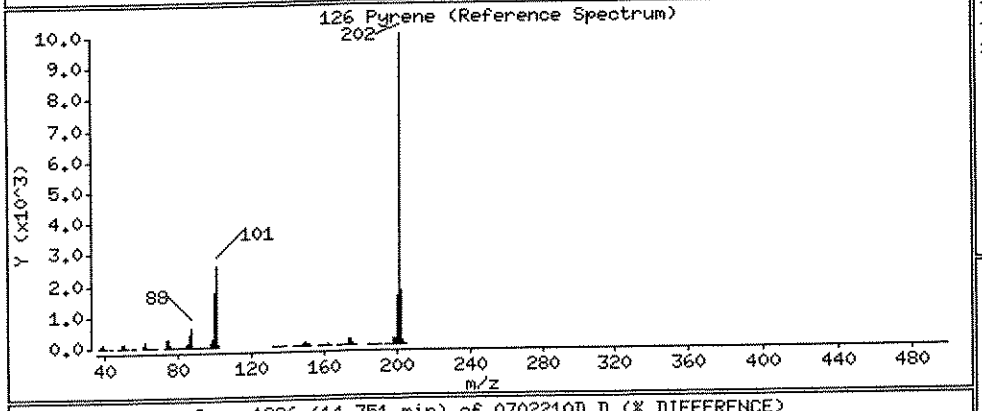
Concentration: 594.3 UG/KG

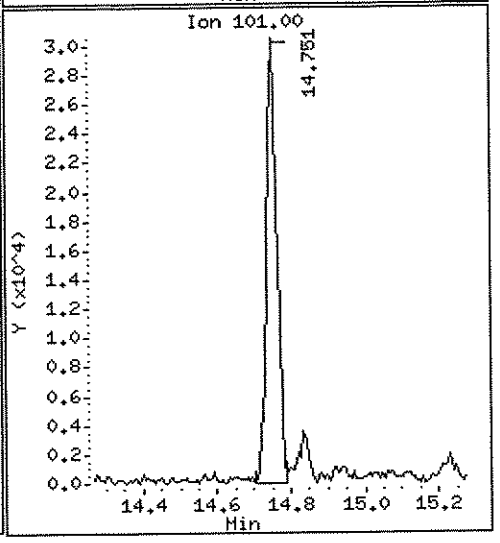


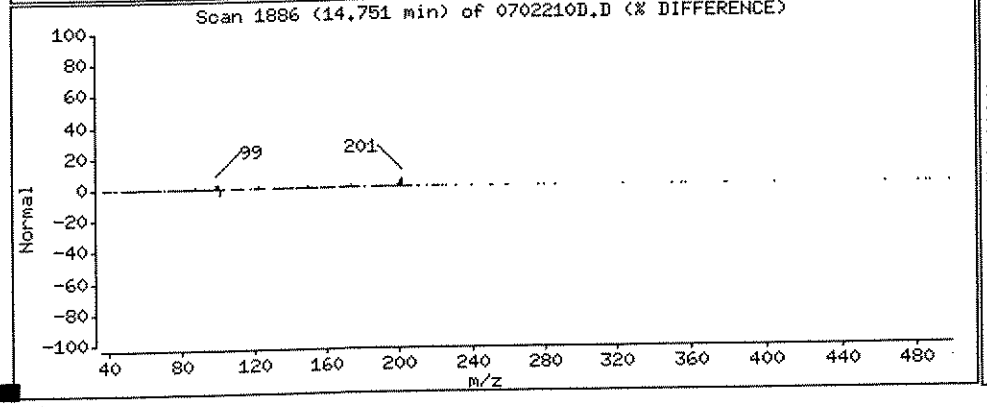












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

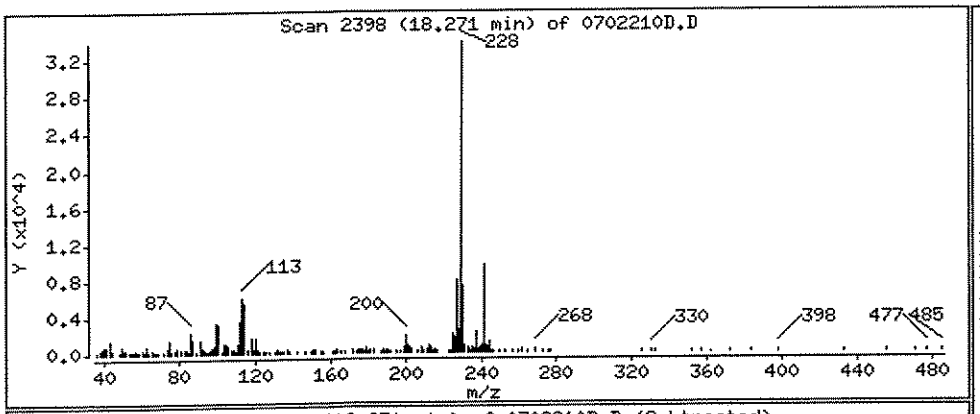
Operator: SDB

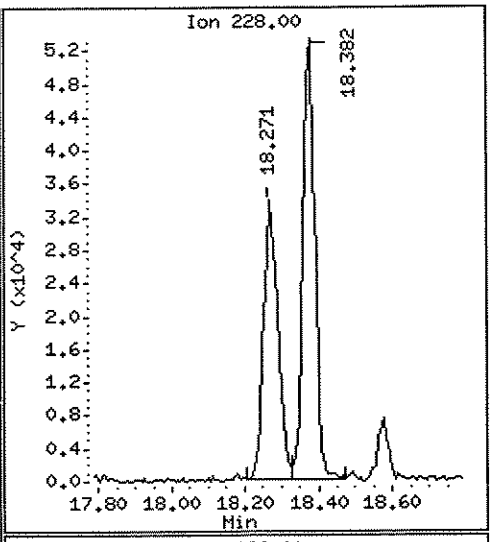
Column phase: fused silica

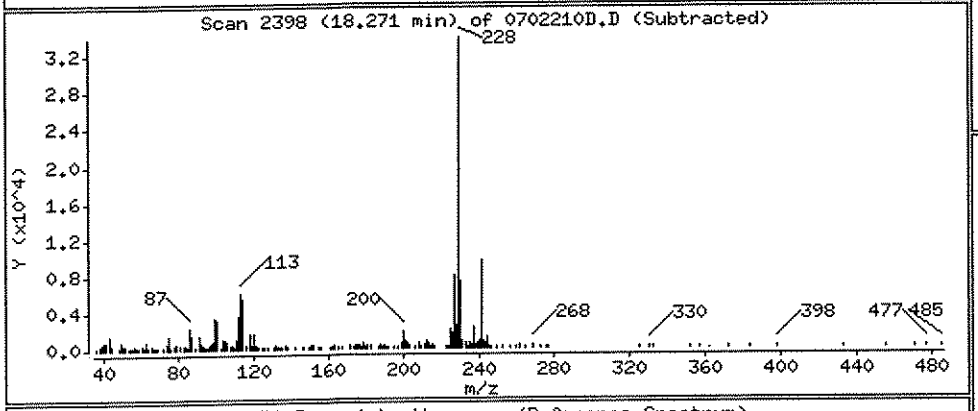
Column diameter: 0.25

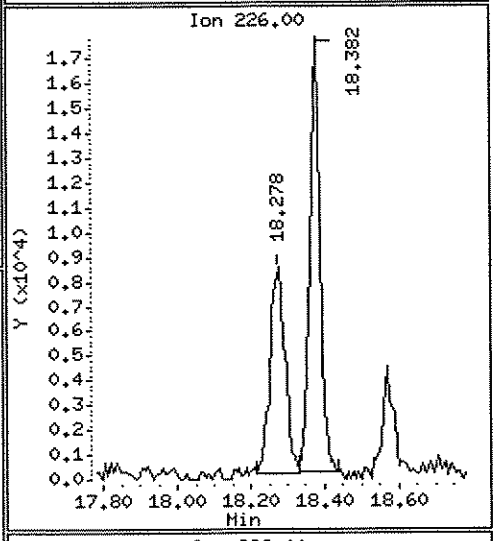
130 Benzo(a)anthracene

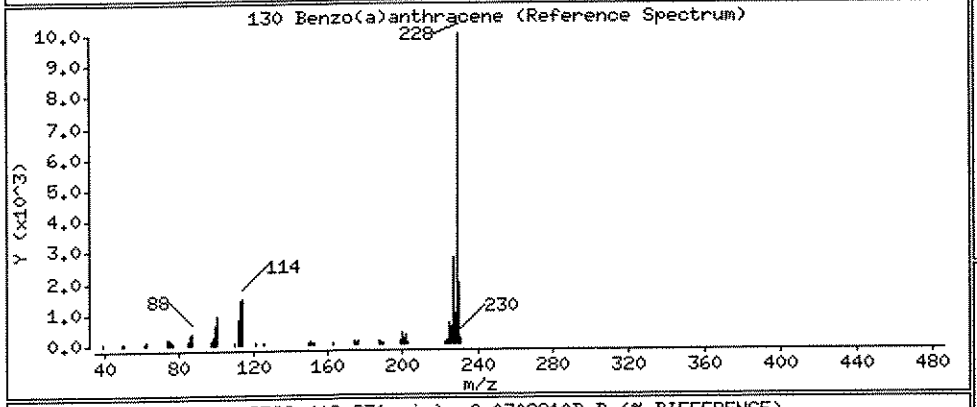
Concentration: 233.7 UG/KG

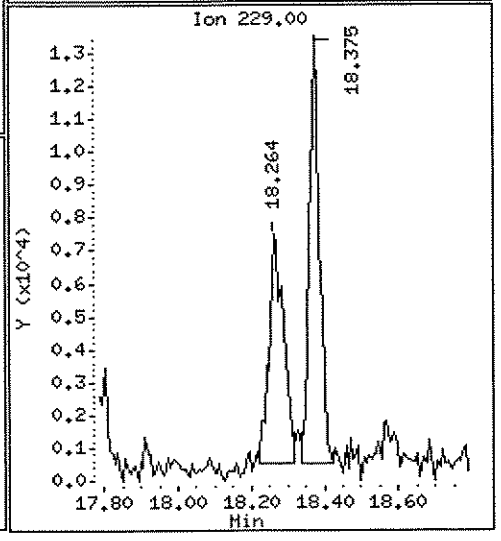


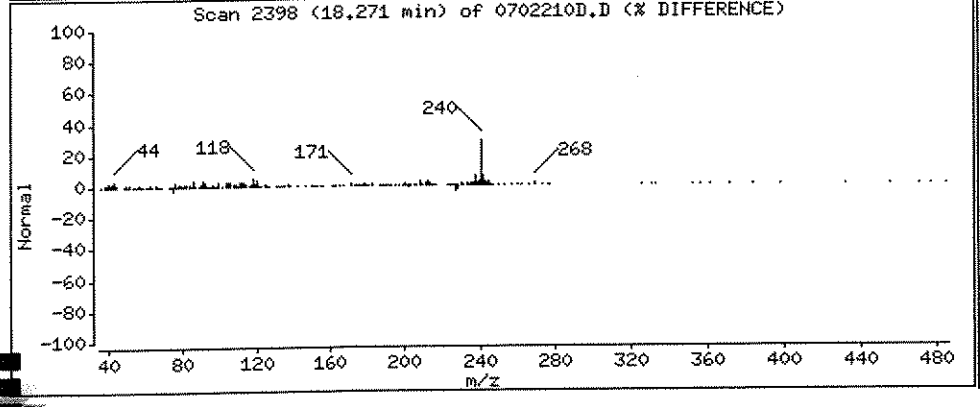












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

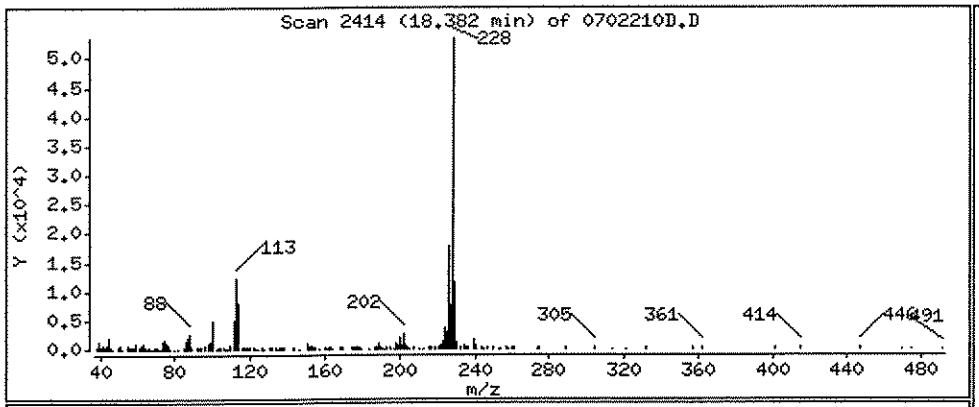
Client ID: 51CFM08S060706 Instrument: bna1.i

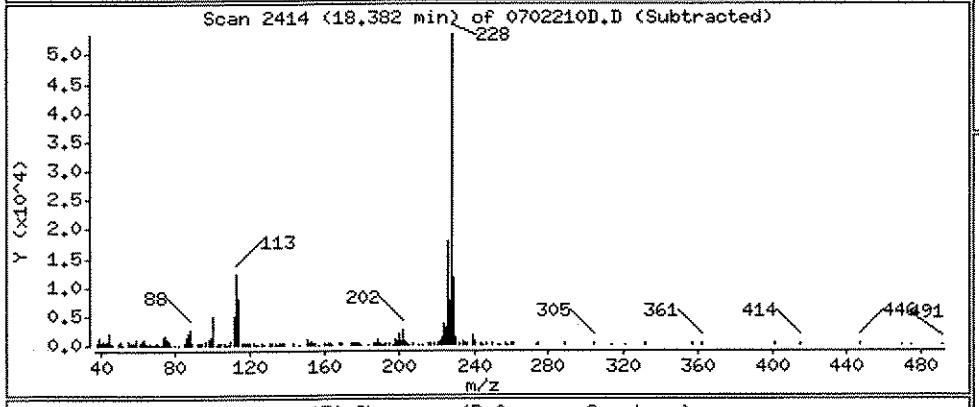
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

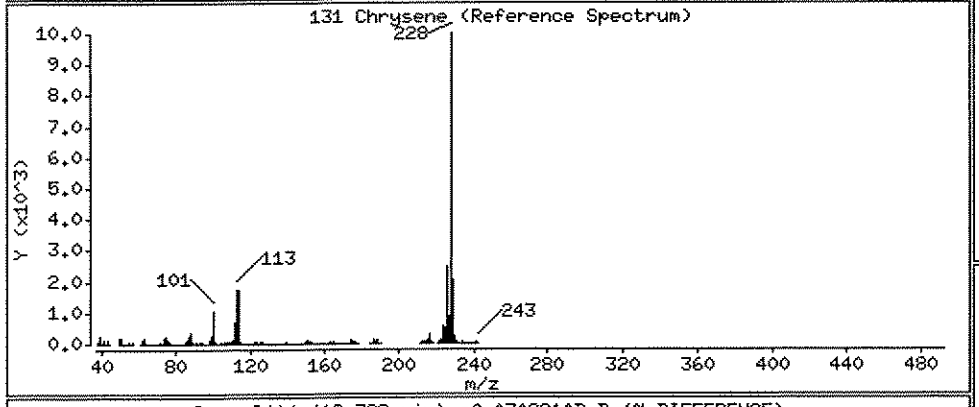
Volume Injected (uL): 0.5 Operator: SDB

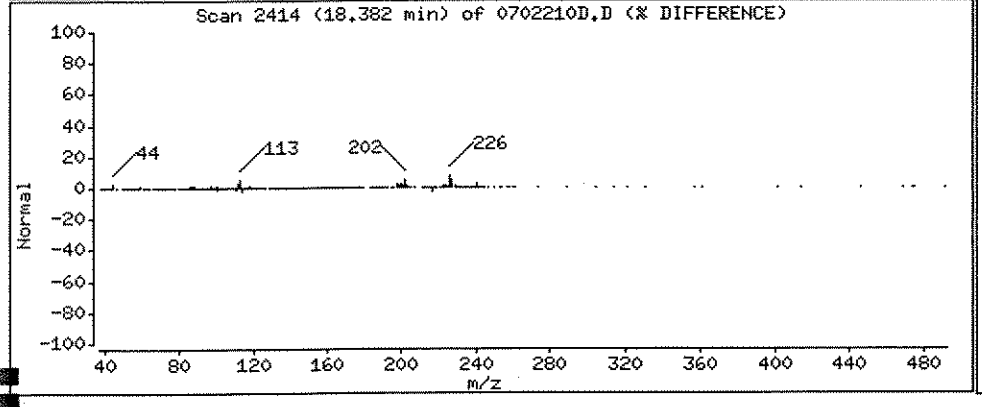
Column phase: fused silica Column diameter: 0.25

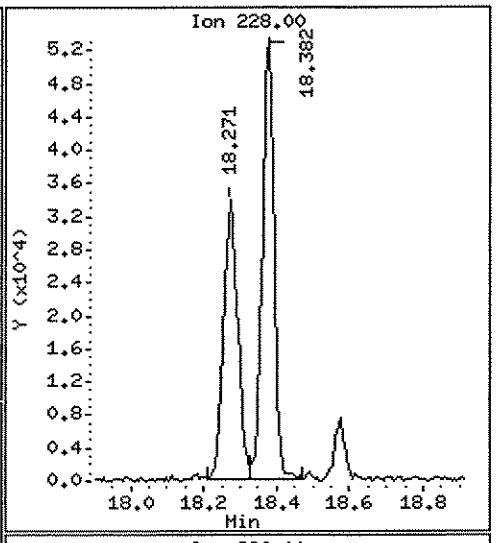
131 Chrysene Concentration: 341.0 UG/KG

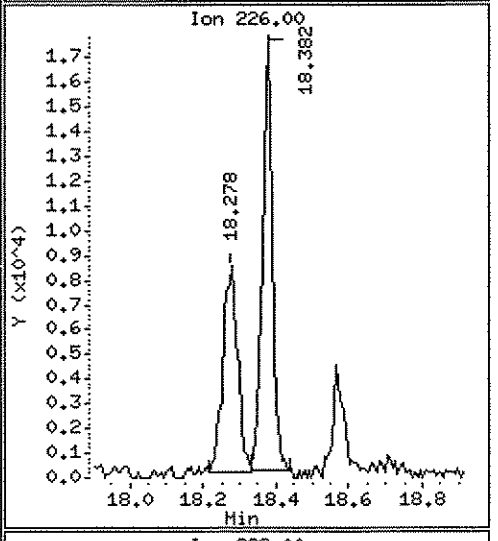


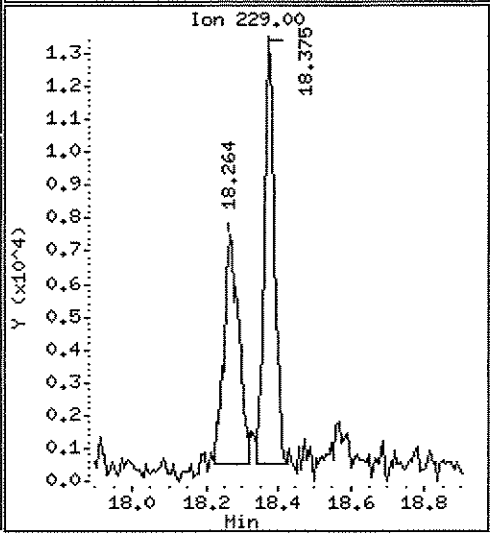












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

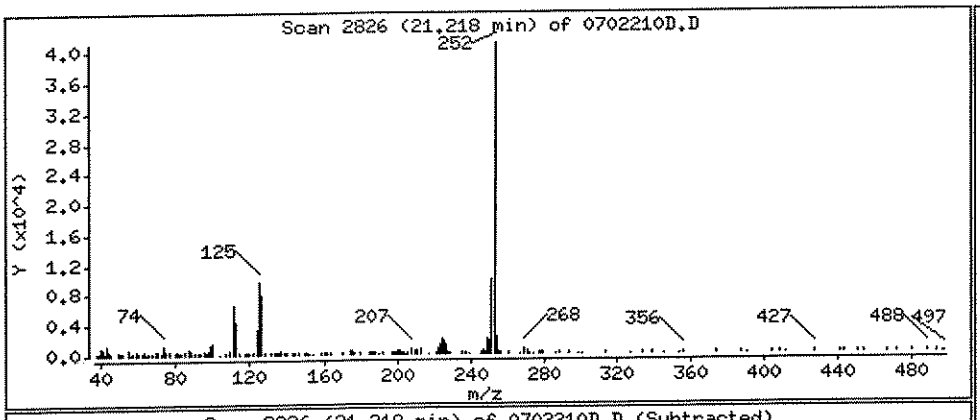
Operator: SDB

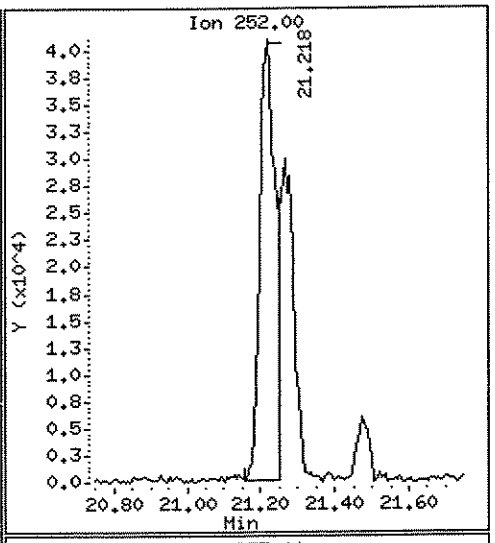
Column phase: fused silica

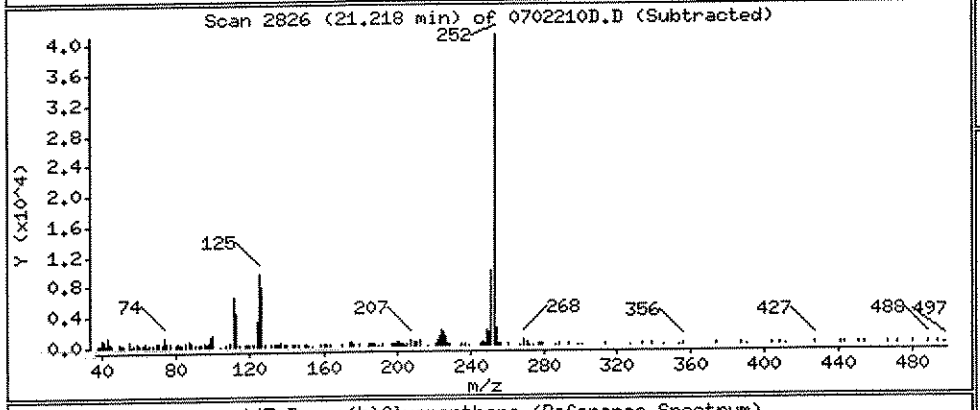
Column diameter: 0.25

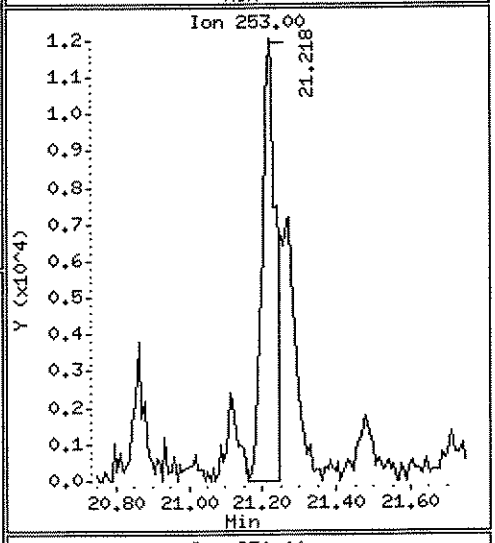
147 Benzo(b)fluoranthene

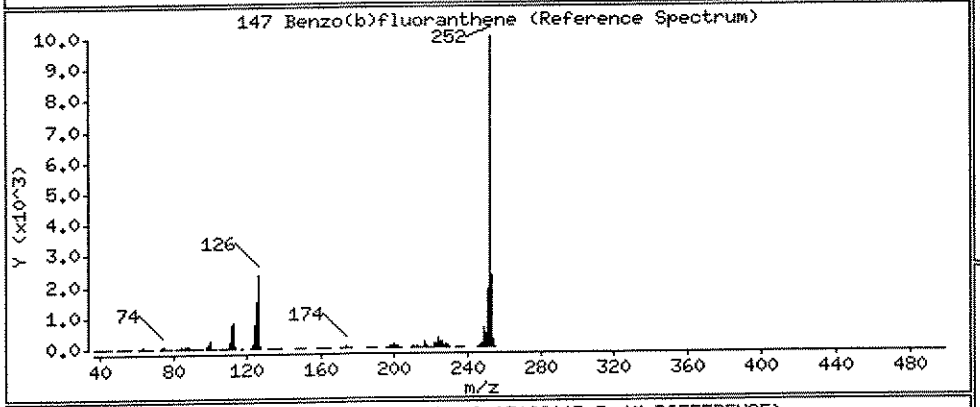
Concentration: 332.5 UG/KG

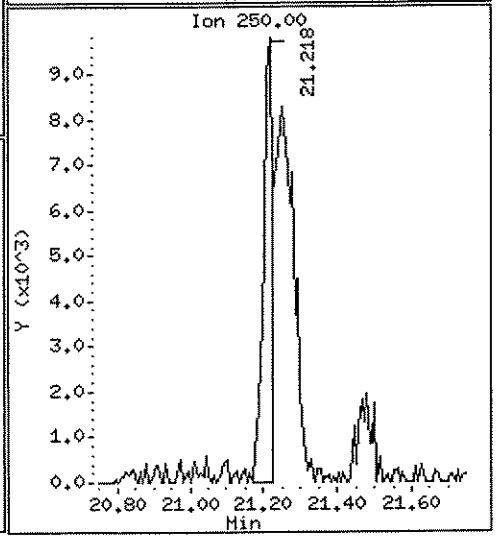


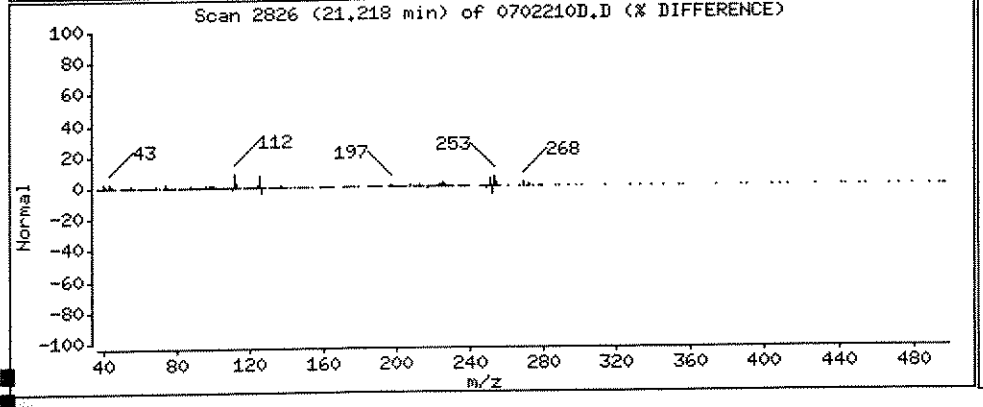












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Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

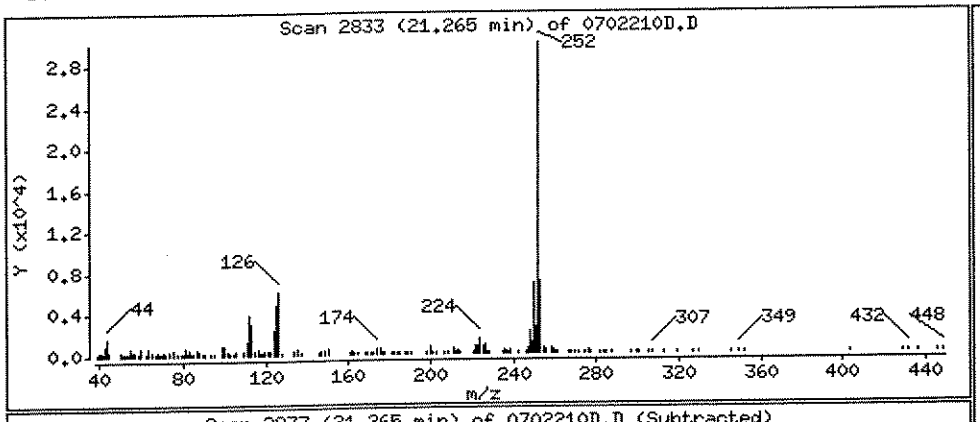
Operator: SDB

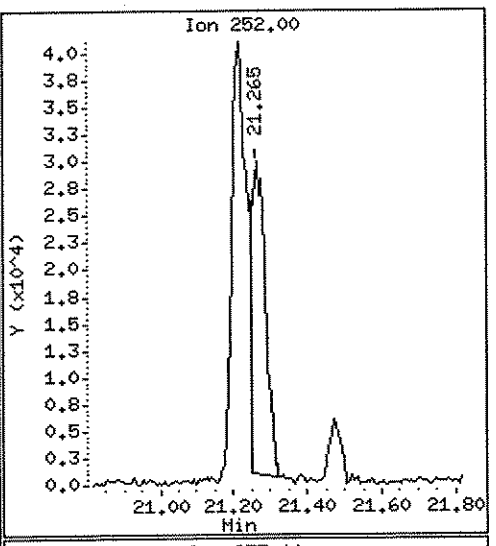
Column phase: fused silica

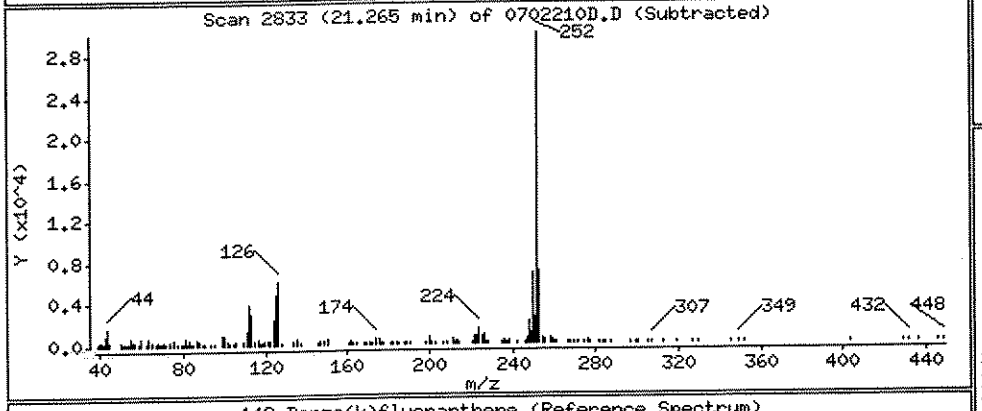
Column diameter: 0.25

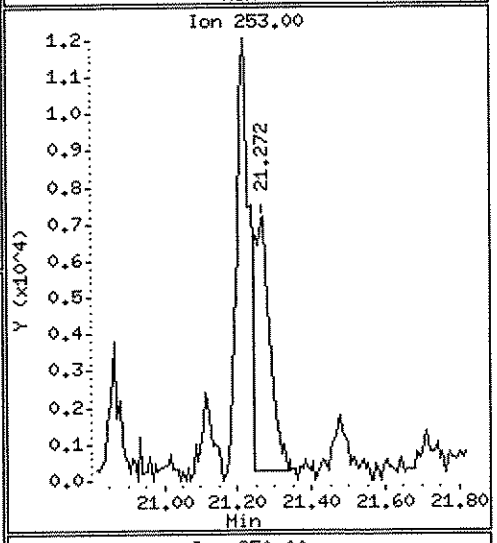
148 Benzo(k)fluoranthene

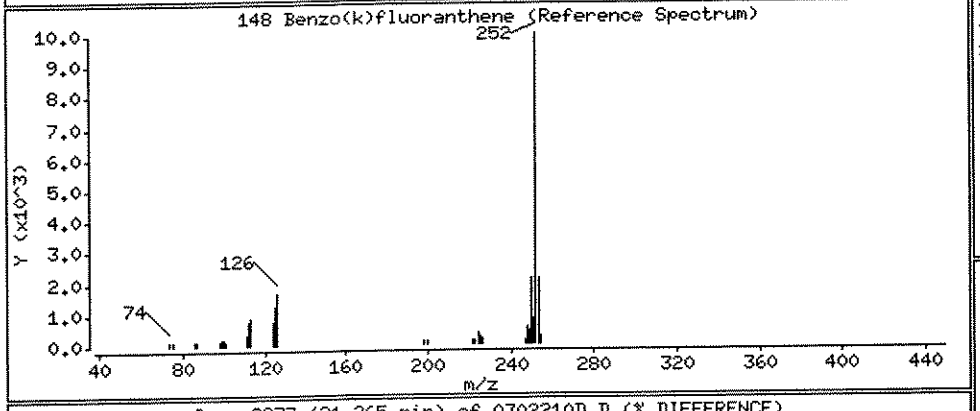
Concentration: 193.8 UG/KG

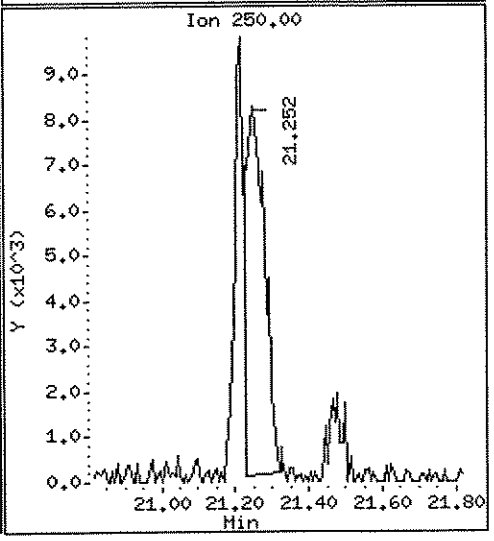


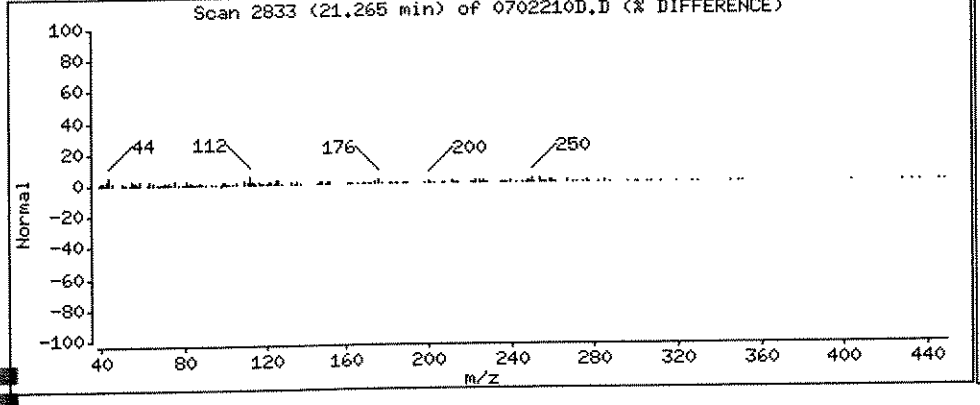












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

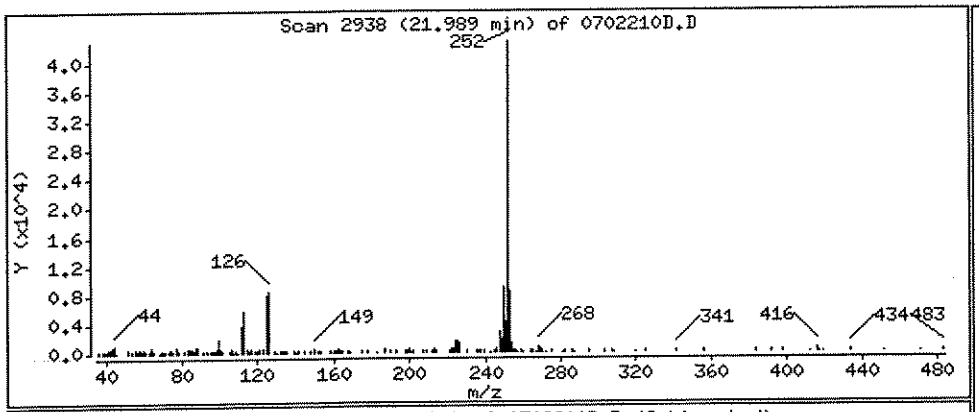
Operator: SDB

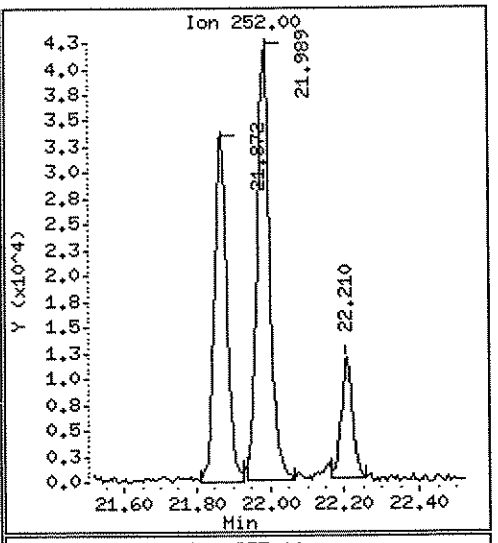
Column phase: fused silica

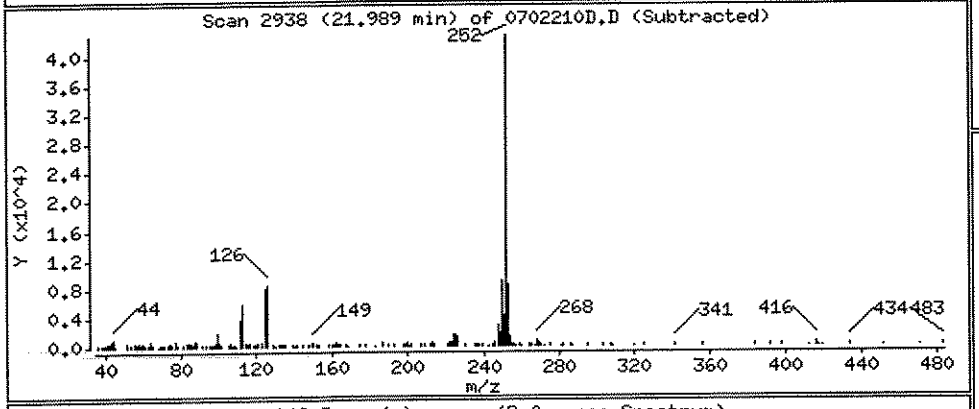
Column diameter: 0.25

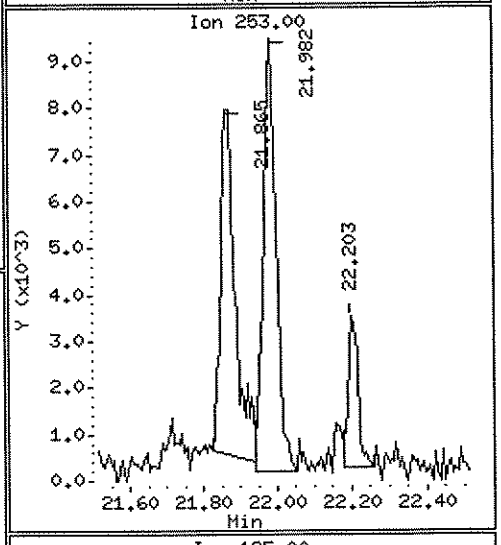
149 Benzo(a)pyrene

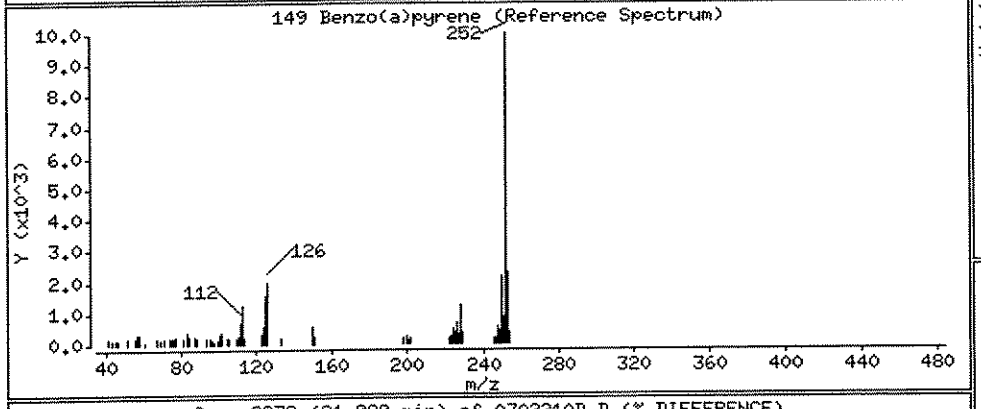
Concentration: 312.0 UG/KG

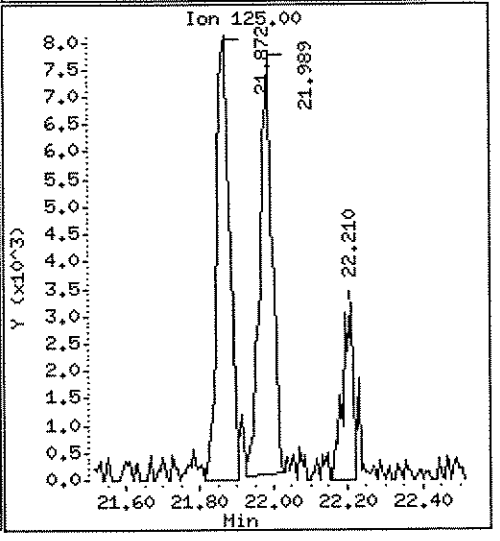


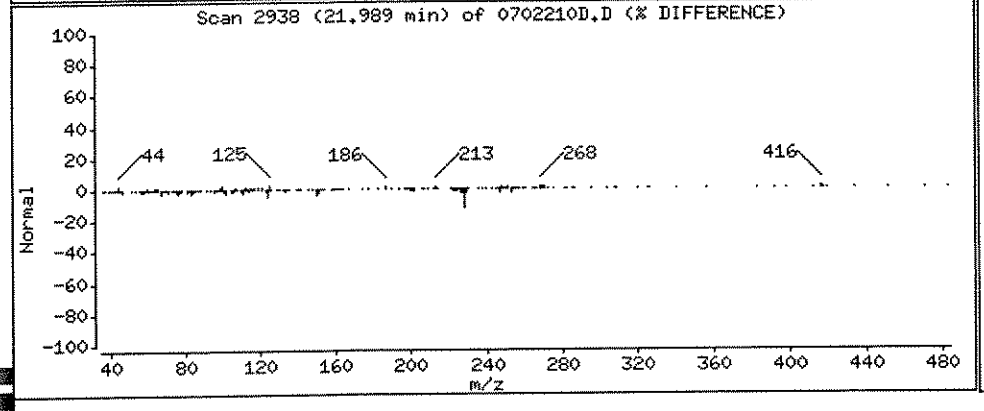












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFH08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

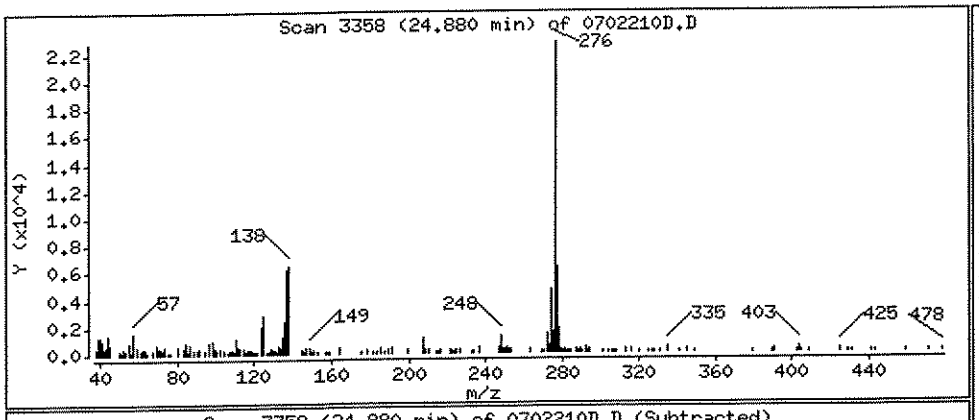
Operator: SDB

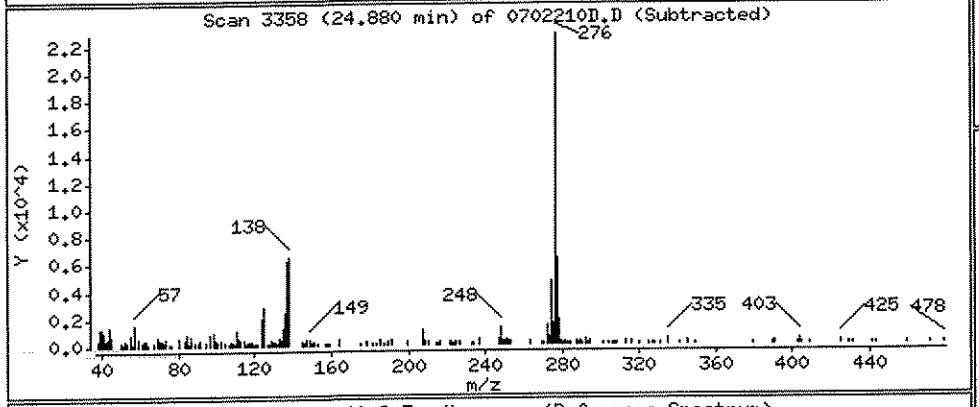
Column phase: fused silica

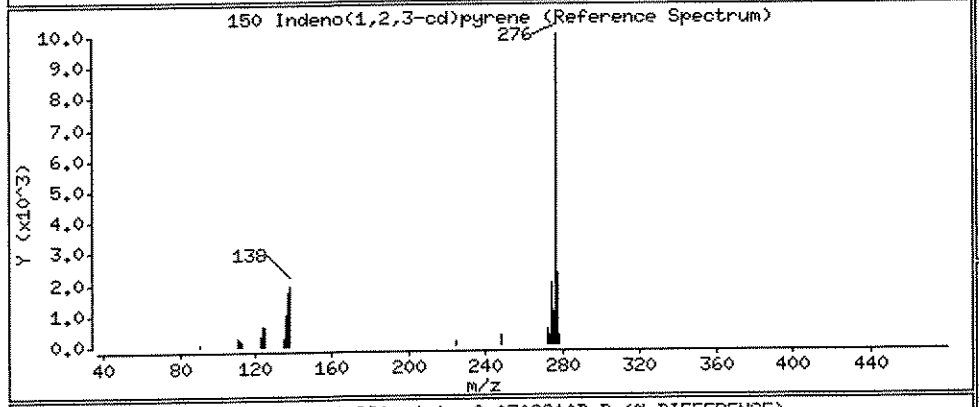
Column diameter: 0.25

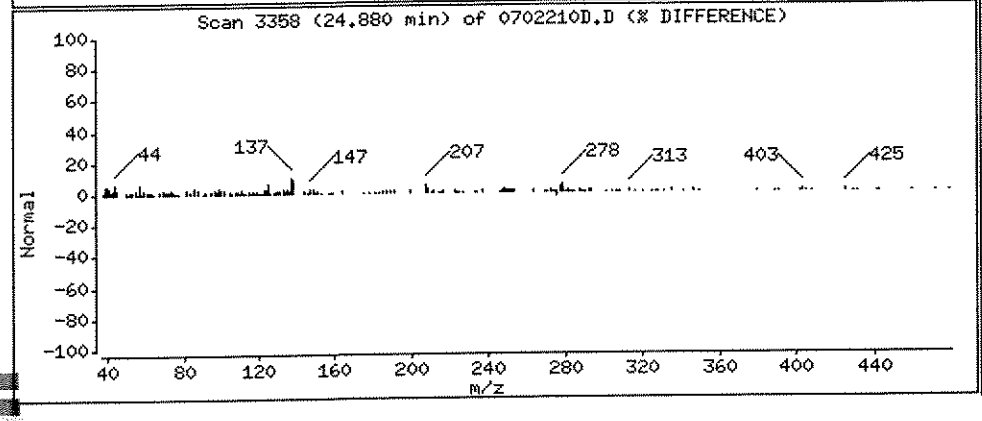
150 Indeno(1,2,3-cd)pyrene

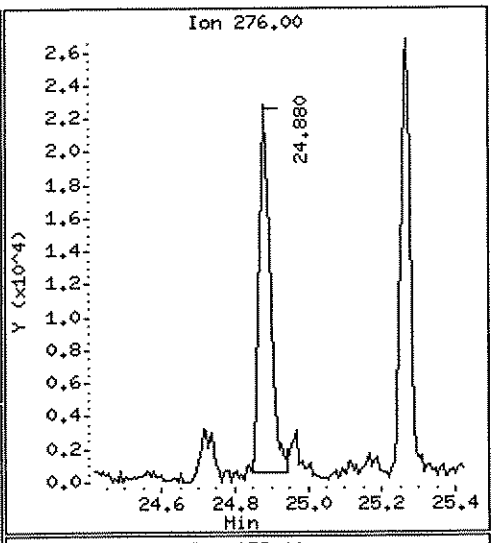
Concentration: 172.7 UG/KG

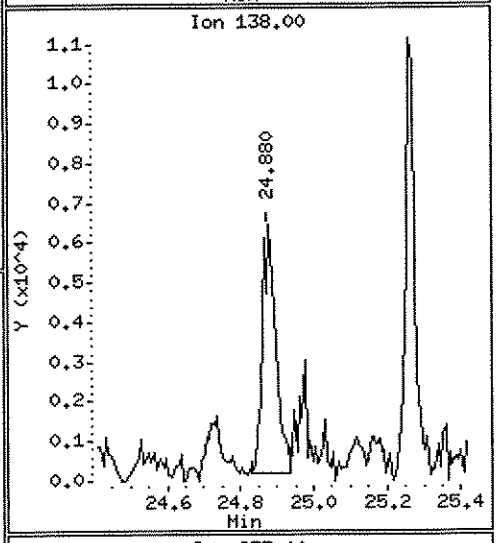


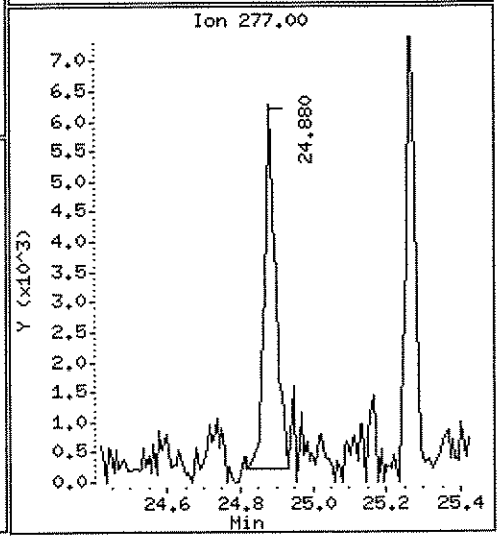












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

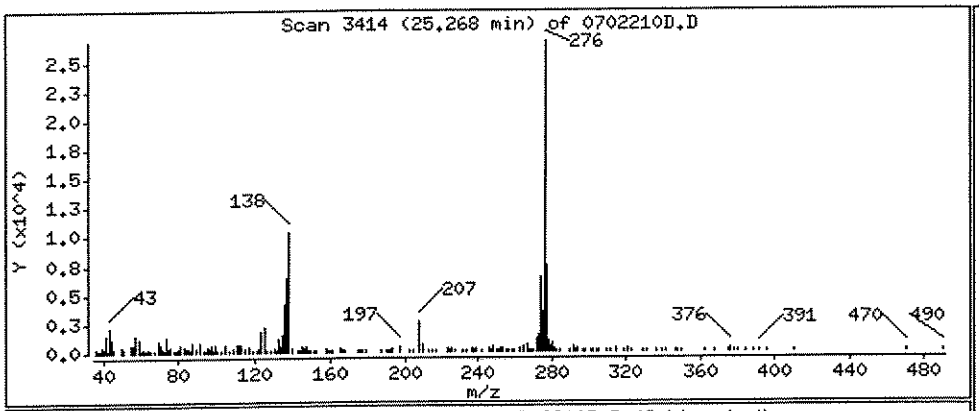
Client ID: 51CFM08S060706 Instrument: bna1.i

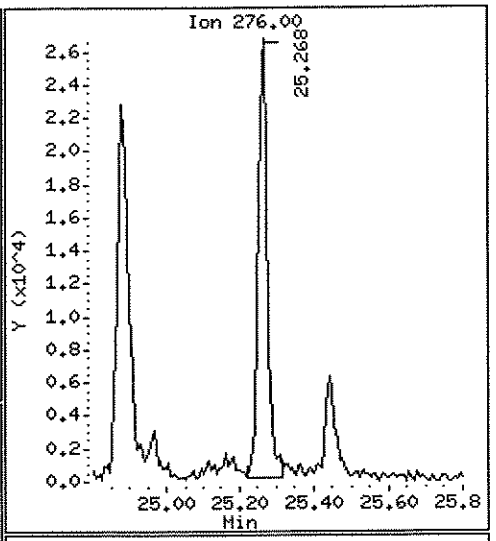
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

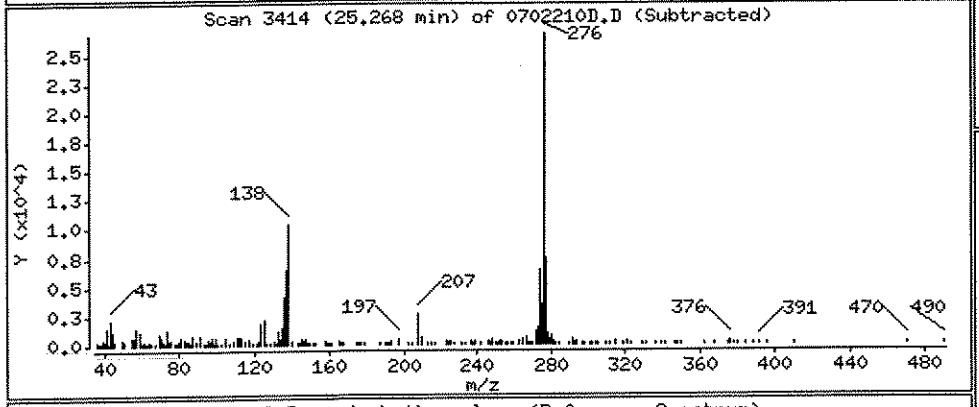
Volume Injected (uL): 0.5 Operator: SDB

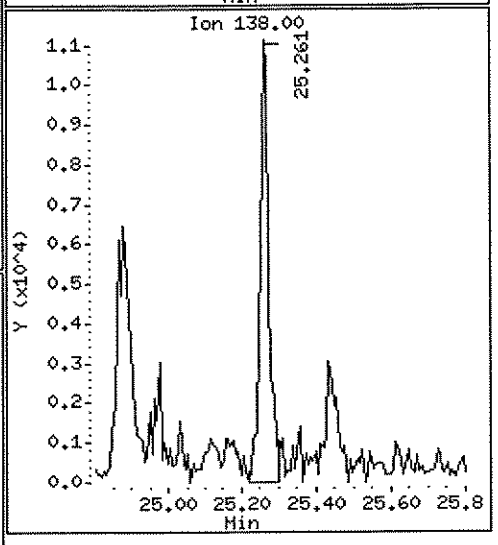
Column phase: fused silica Column diameter: 0.25

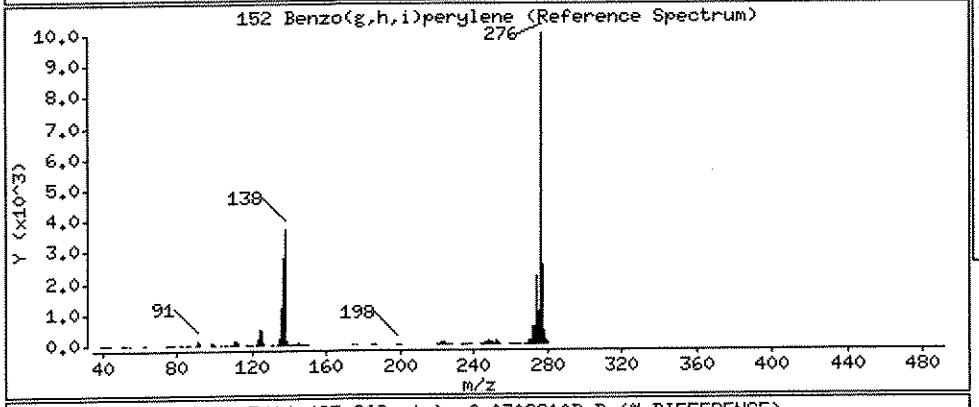
152 Benzo(g,h,i)perylene Concentration: 175.6 UG/KG

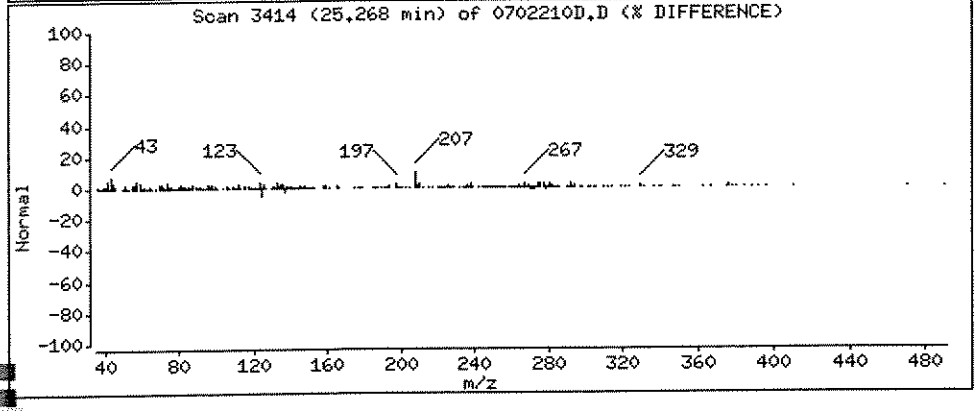












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:49

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	120	J
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	200	
56-55-3	Benzo(a)anthracene	20	170	1000	
205-99-2	Benzo(b)fluoranthene	20	170	1500	
207-08-9	Benzo(k)fluoranthene	20	170	880	
191-24-2	Benzo(g,h,i)perylene	20	170	480	
50-32-8	Benzo(a)pyrene	20	100	1200	
218-01-9	Chrysene	20	170	1400	
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170	1300	
86-73-7	Fluorene	20	170	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	550	
91-57-6	2-Methylnaphthalene	20	170	20	J
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170	1100	
129-00-0	Pyrene	20	170	2500	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Report Date: 11-Jul-2006 13:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
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Inj Date : 10-JUL-2006 19:49
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.700	Percent Solids

7/11/06

7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	588667	40.0000	
* 31 Naphthalene-d8	136	5.278	5.287	(1.000)	1995612	40.0000	
$ 32 Nitrobenzene-d5	82	4.707	4.709	(0.892)	1123088	51.5542	1718
51 2-Methylnaphthalene	141	6.055	6.062	(1.147)	17446	0.61192	20.39(a)
* 65 Acenaphthene-d10	164	7.712	7.719	(1.000)	967098	40.0000	
$ 70 2-Fluorobiphenyl	172	6.612	6.617	(0.857)	1708108	55.5011	1850
76 Acenaphthene	153	7.767	7.781	(1.007)	98222	3.51913	117.3(a)
84 Fluorene	166	8.806	8.814	(1.142)	113331	3.79640	126.5(a)
* 97 Phenanthrene-d10	188	11.019	11.020	(1.000)	1135313	40.0000	
106 Phenanthrene	178	11.082	11.082	(1.006)	1107125	34.2020	1140
107 Anthracene	178	11.186	11.192	(1.015)	189833	5.94008	198.0
110 Fluoranthene	202	14.311	14.296	(1.299)	1249138	38.9773	1299
* 124 Chrysene-d12	240	18.451	18.441	(1.000)	350216	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Report Date: 11-Jul-2006 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.895	14.878	(0.807)	1034042	73.9319	2464
$ 127 Terphenyl-d14	244	15.665	15.647	(0.849)	1085020	122.692	4089(AR)
130 Benzo(a)anthracene	228	18.409	18.400	(0.998)	354417	31.4088	1047
131 Chrysene	228	18.521	18.510	(1.004)	424104	41.1502	1371
* 145 Perylene-d12	264	22.293	22.273	(1.000)	196508	40.0000	
147 Benzo(b)fluoranthene	252	21.374	21.352	(0.959)	280508	46.3397	1544(M)
148 Benzo(k)fluoranthene	252	21.409	21.421	(0.960)	165504	26.3528	878.3(M)
149 Benzo(a)pyrene	252	22.140	22.121	(0.993)	195609	37.4746	1249
150 Indeno(1,2,3-cd)pyrene	276	25.014	24.990	(1.122)	74135	16.6467	554.8
152 Benzo(g,h,i)perylene	276	25.379	25.361	(1.138)	66648	14.4212	480.6

QC Flag Legend

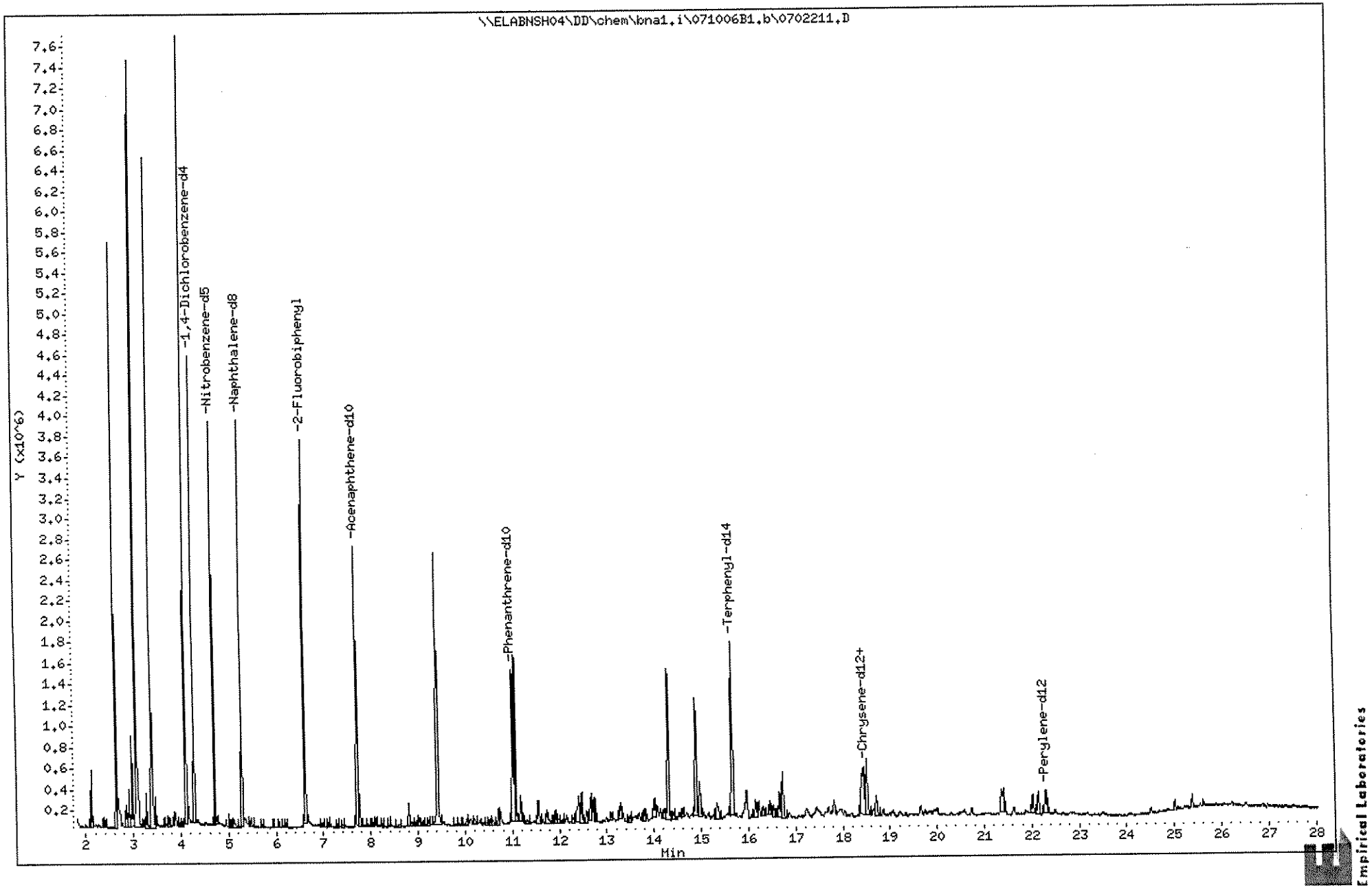
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Date : 10-JUL-2006 19:49
Client ID: 51DUP1S060706
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000300



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

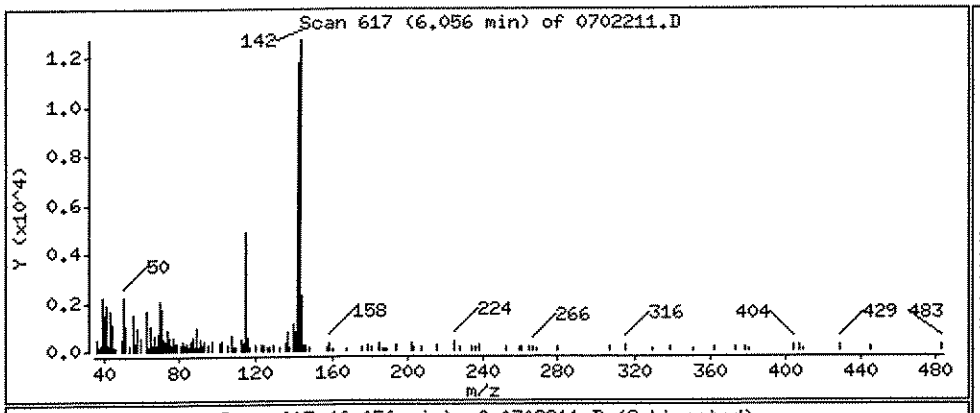
Client ID: 51DUP1S060706 Instrument: bna1.i

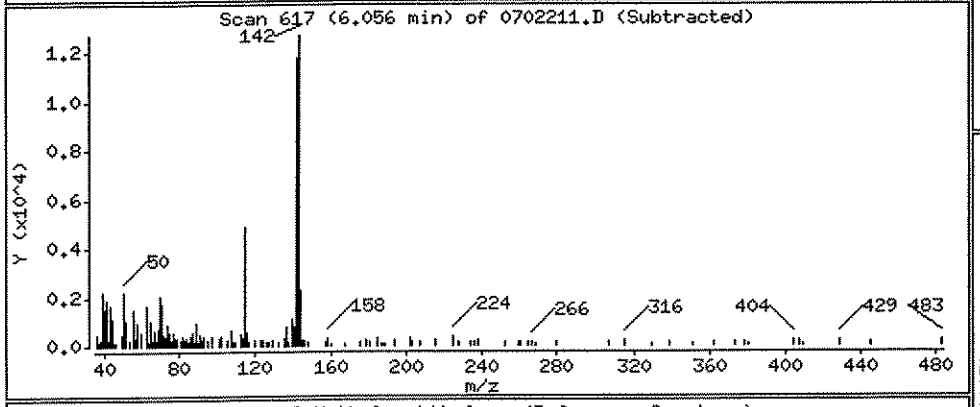
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

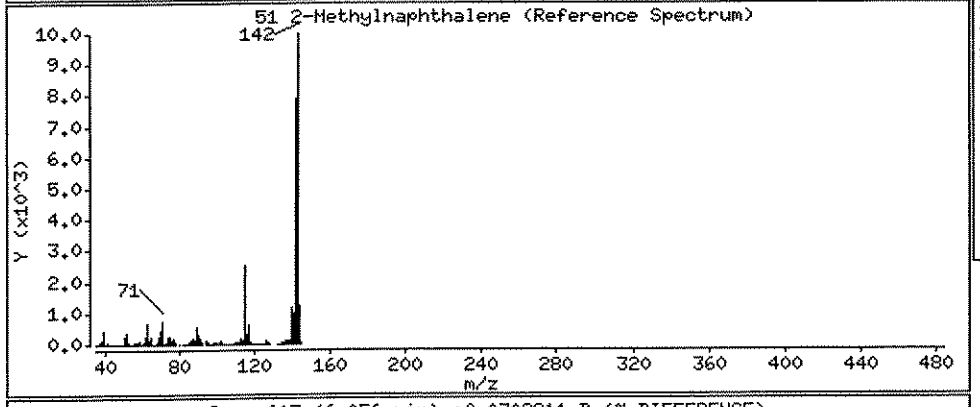
Volume Injected (uL): 0.5 Operator: SDB

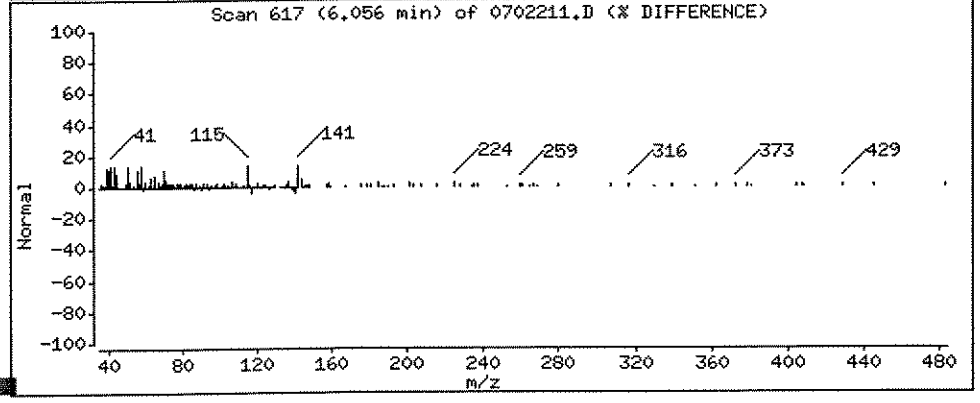
Column phase: fused silica Column diameter: 0.25

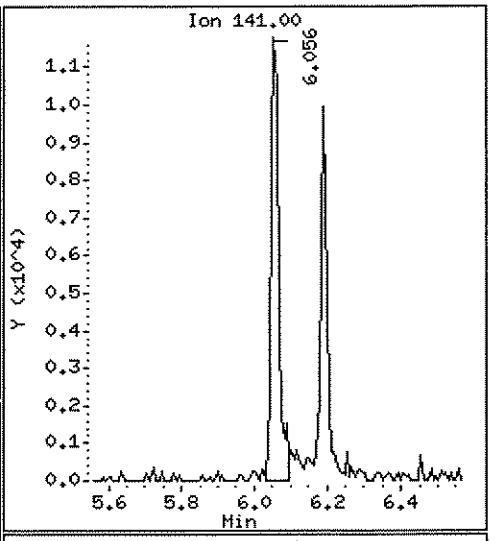
51 2-Methylnaphthalene Concentration: 20.39 UG/KG

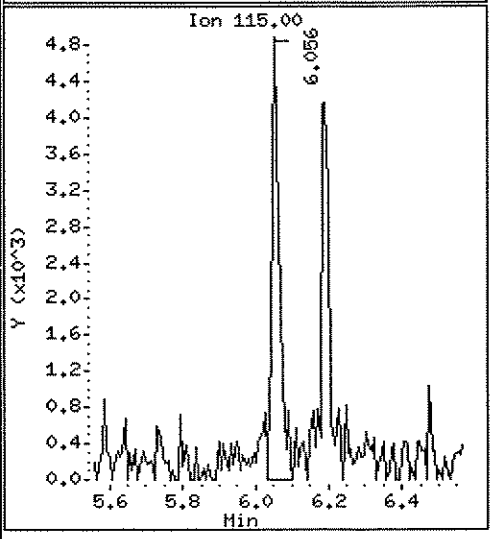












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

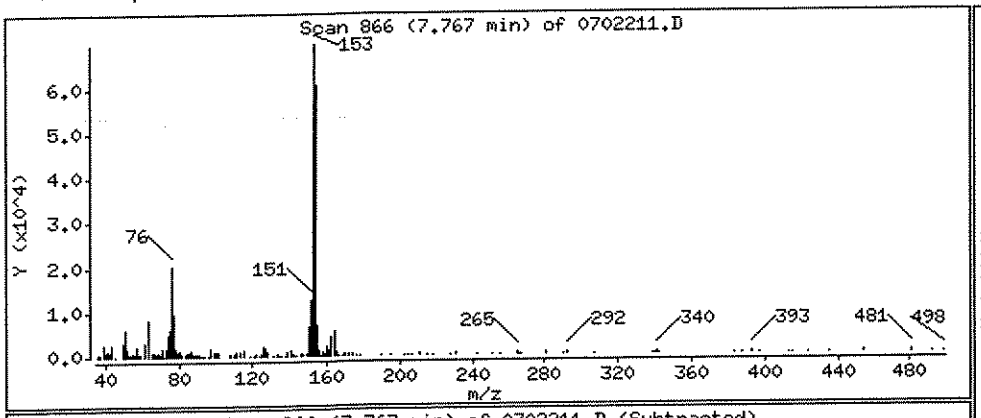
Operator: SDB

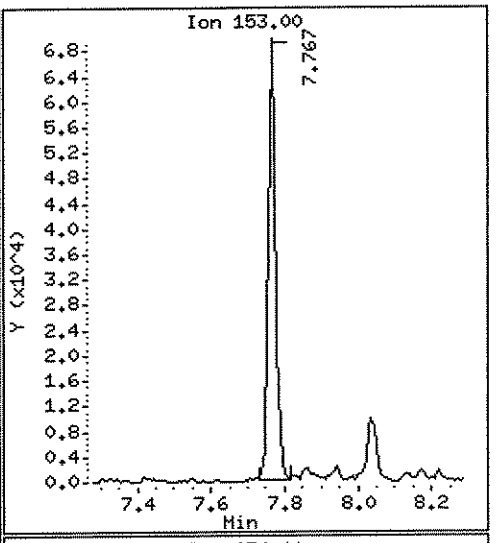
Column phase: fused silica

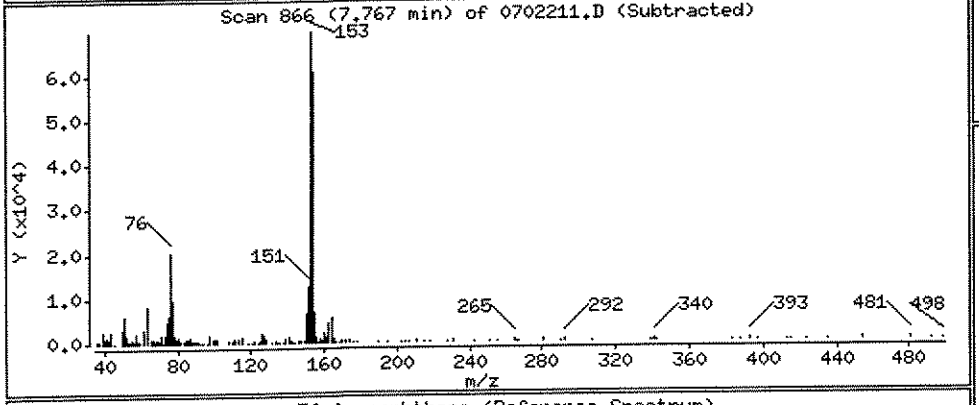
Column diameter: 0.25

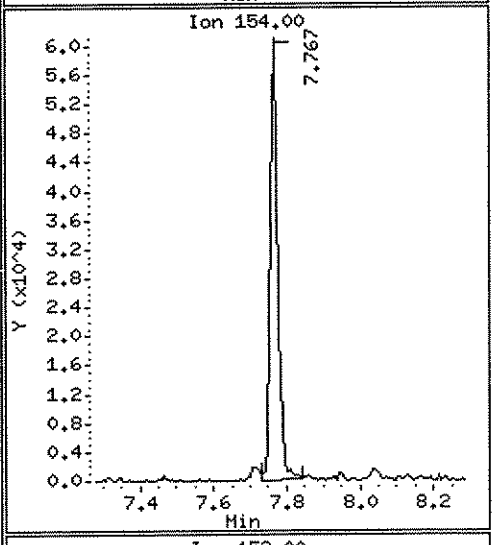
76 Acenaphthene

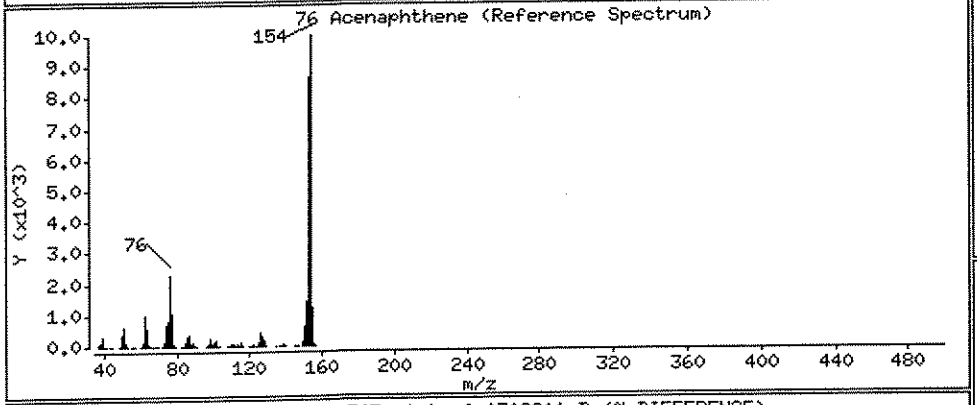
Concentration: 117.3 UG/KG

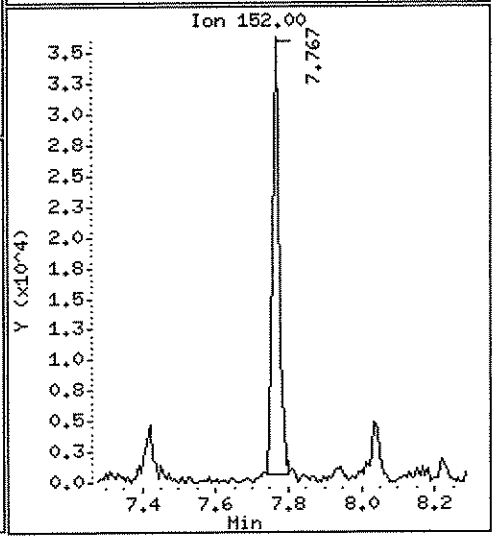


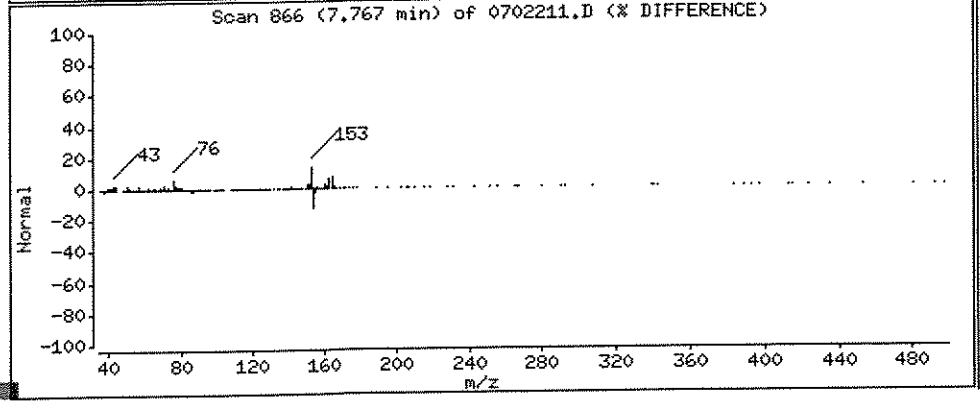












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

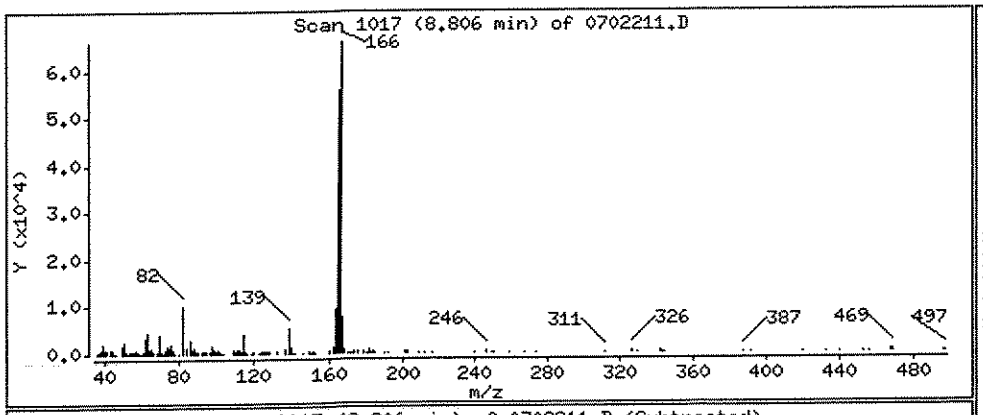
Client ID: 51DUP1S060706 Instrument: bna1.i

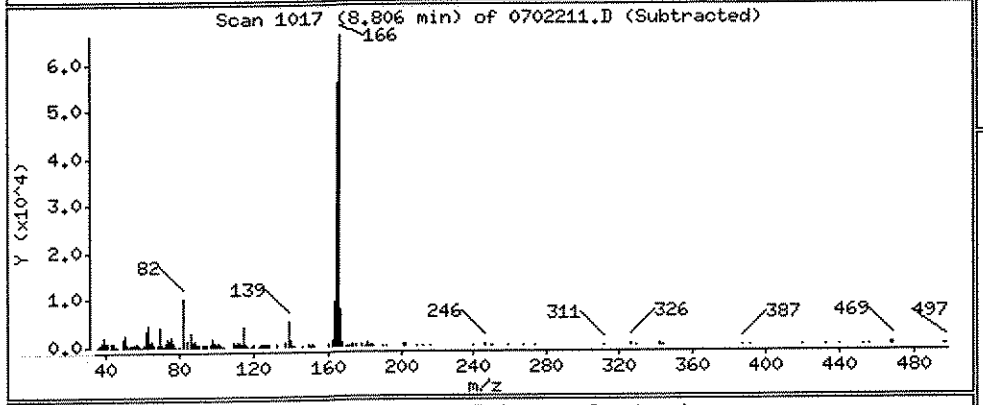
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

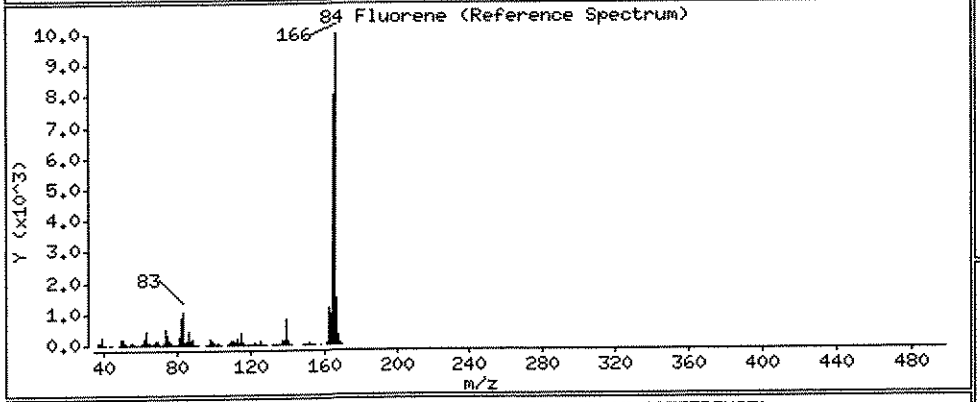
Volume Injected (uL): 0.5 Operator: SDB

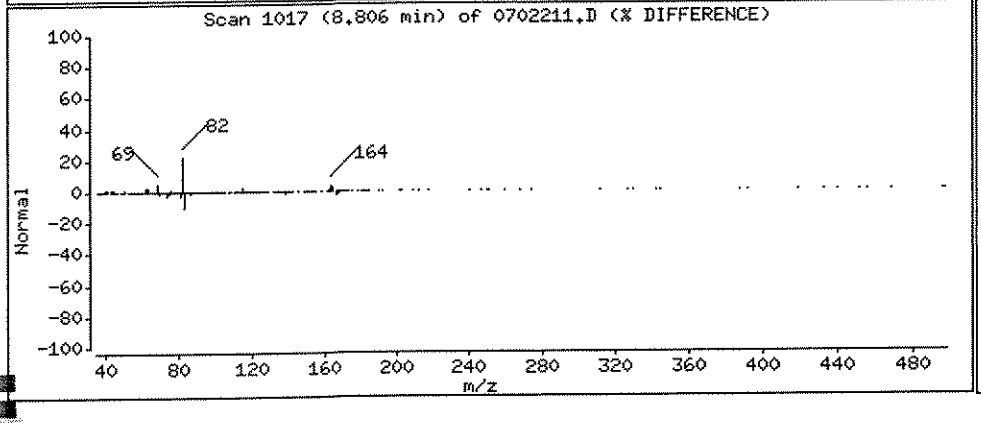
Column phase: fused silica Column diameter: 0.25

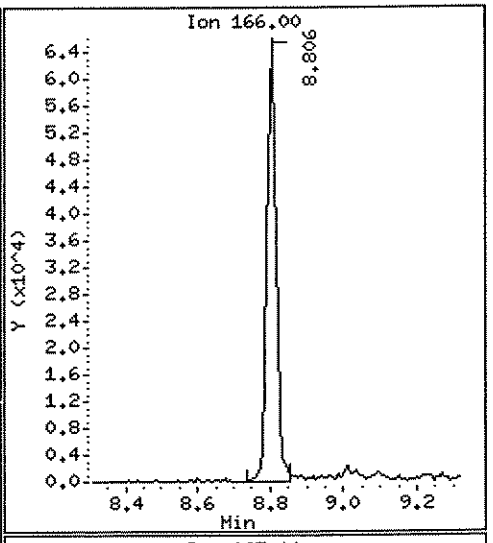
84 Fluorene Concentration: 126.5 UG/KG

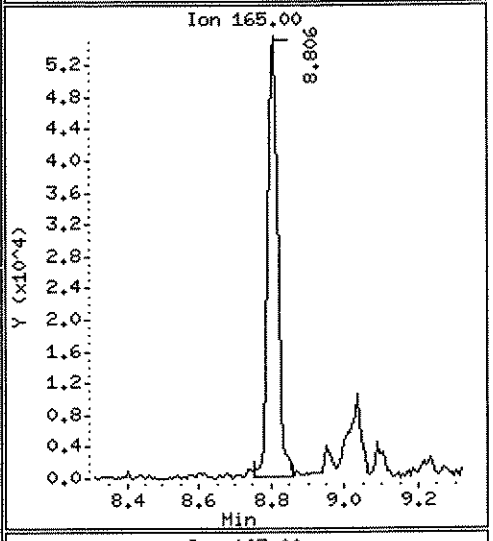


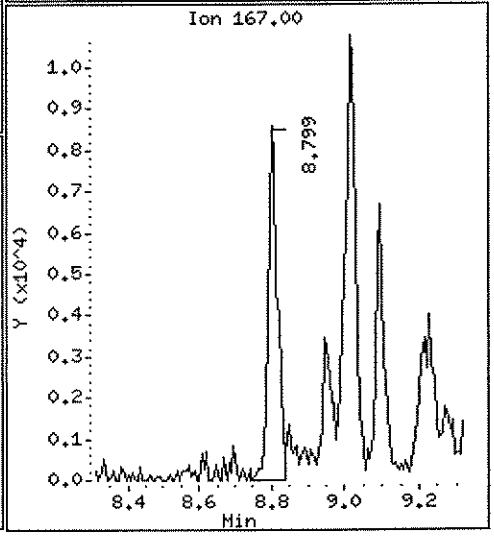












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

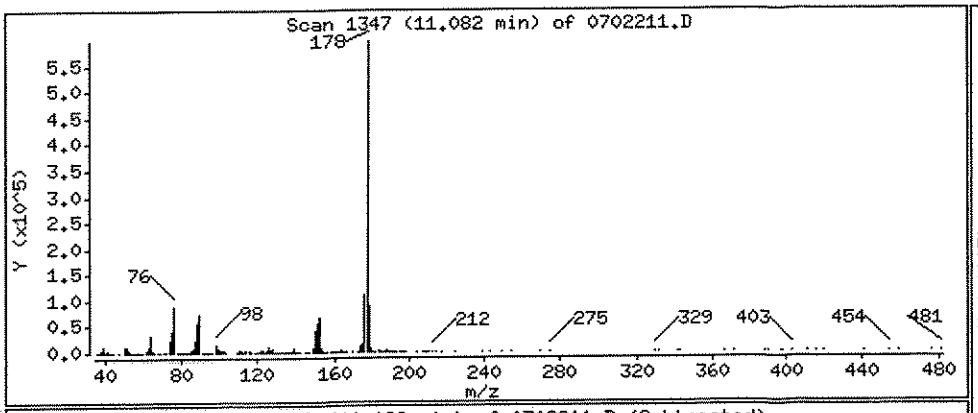
Operator: SDB

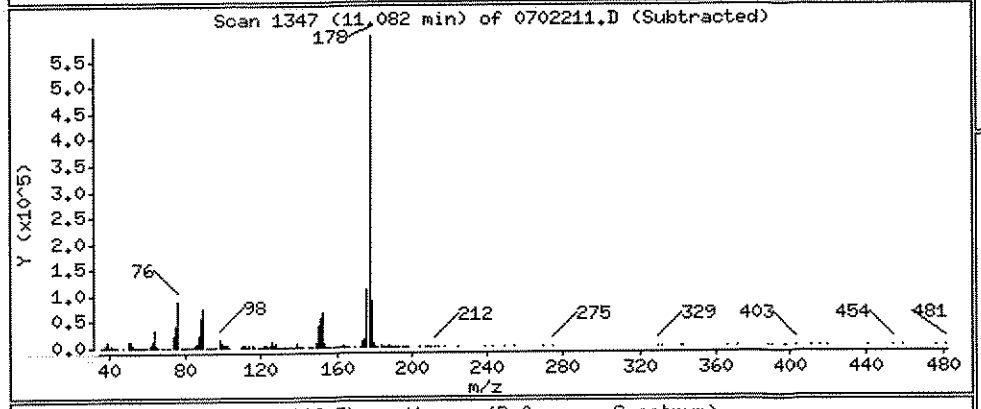
Column phase: fused silica

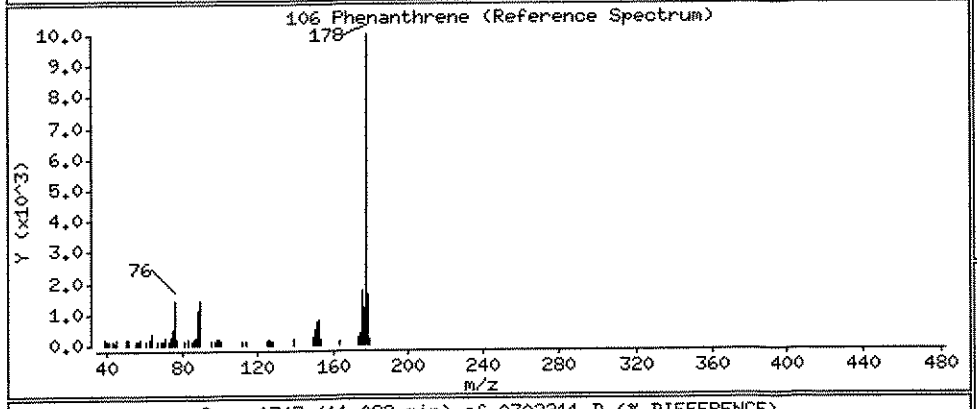
Column diameter: 0.25

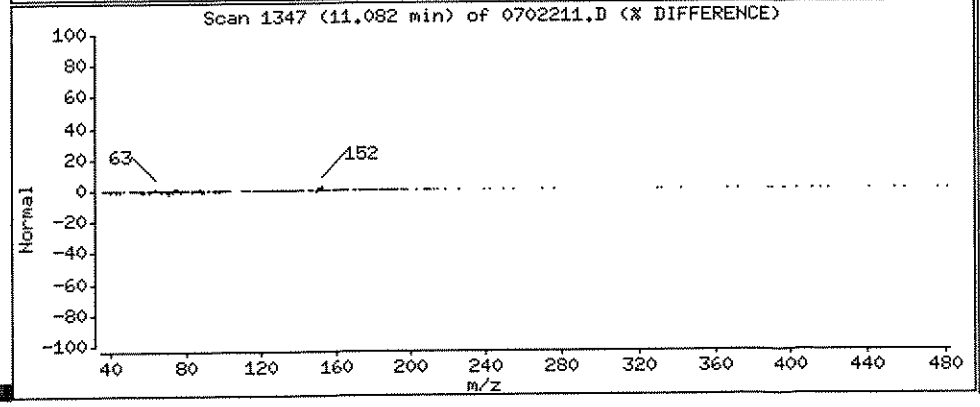
106 Phenanthrene

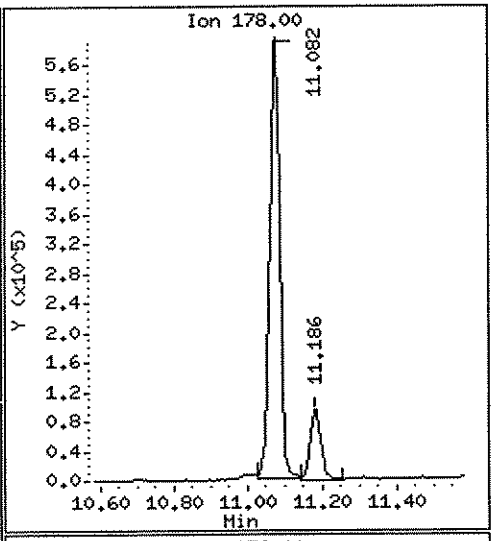
Concentration: 1140 UG/KG

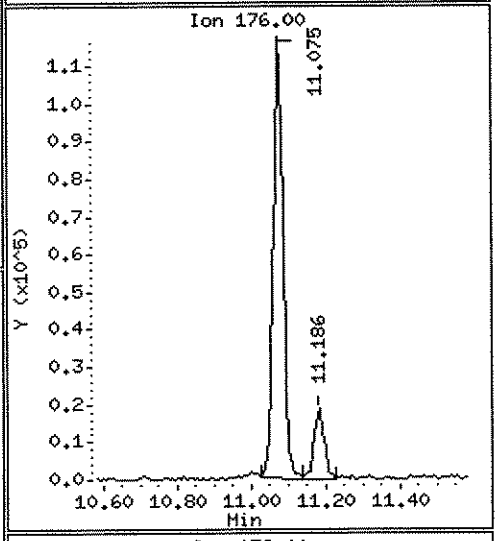


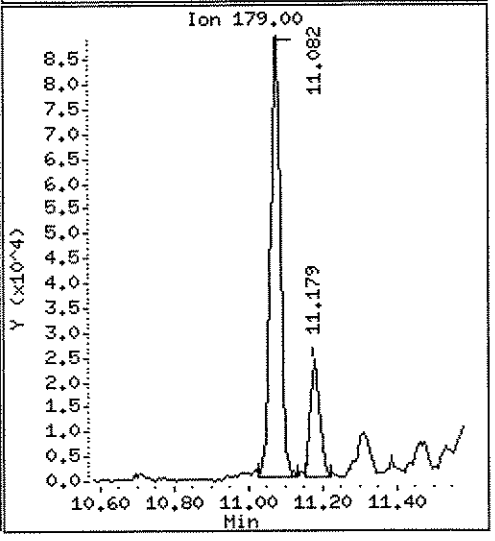












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

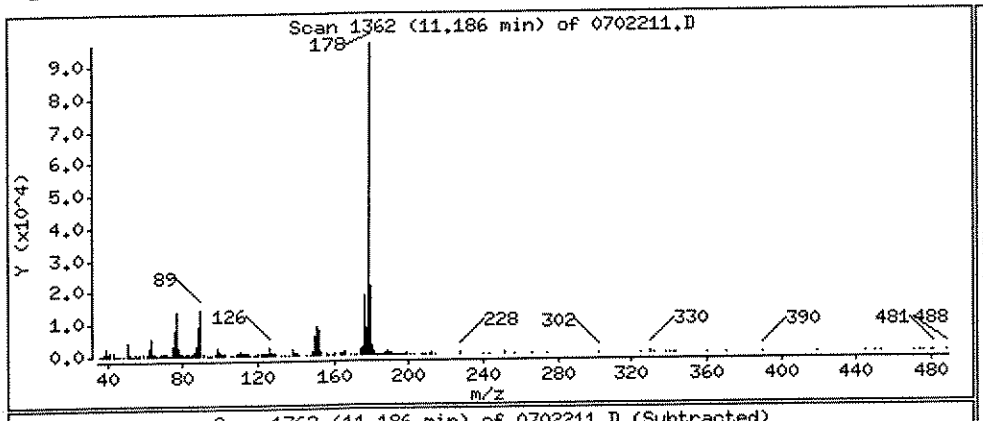
Operator: SDB

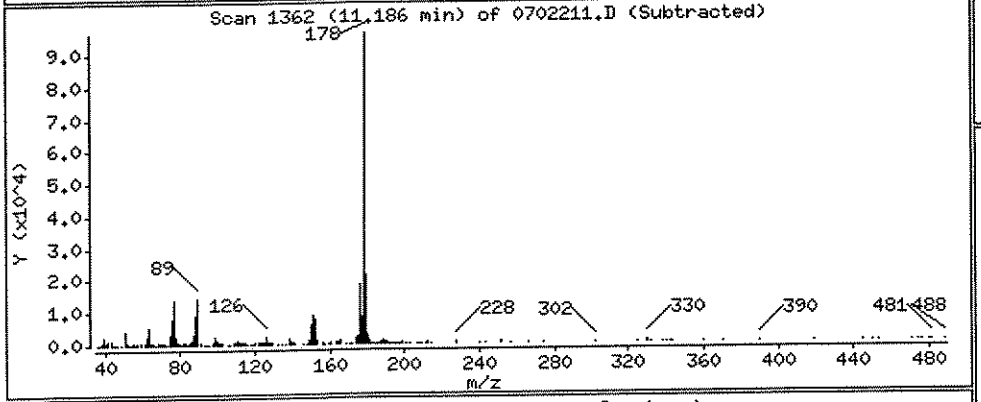
Column phase: fused silica

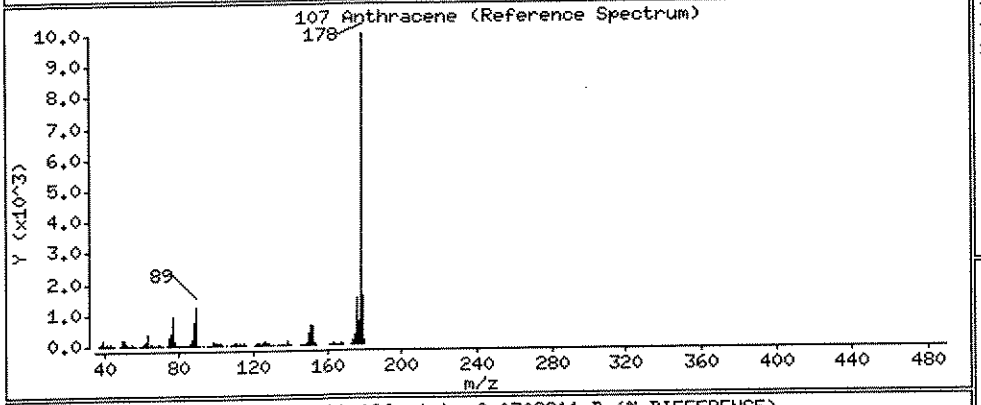
Column diameter: 0.25

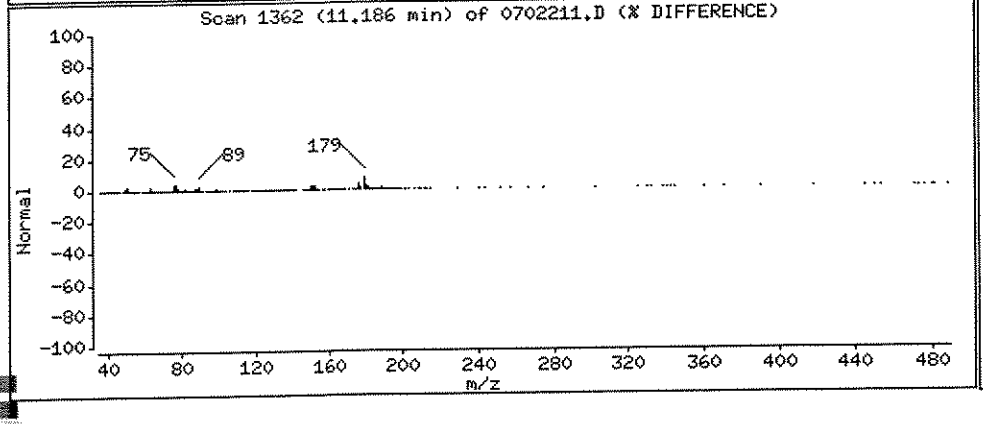
107 Anthracene

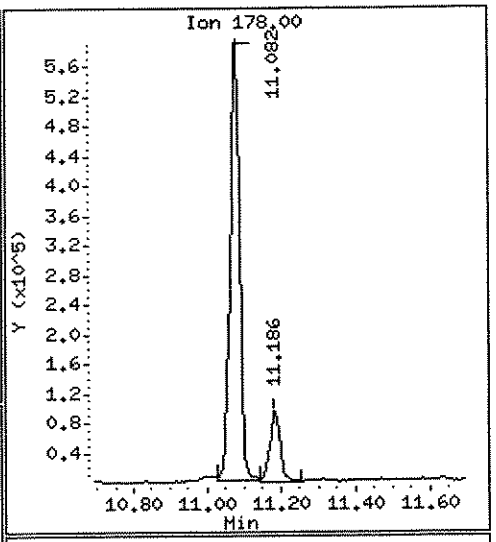
Concentration: 198.0 UG/KG

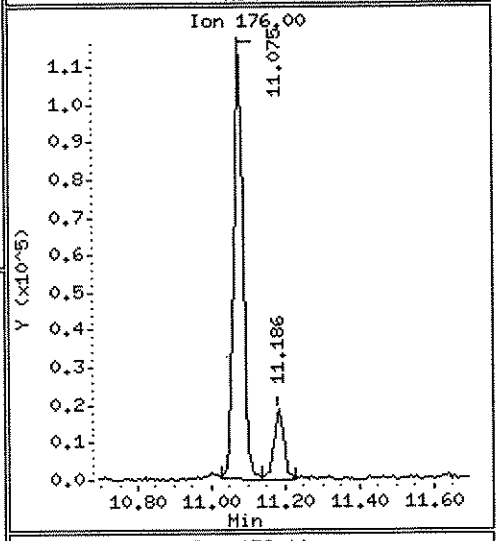


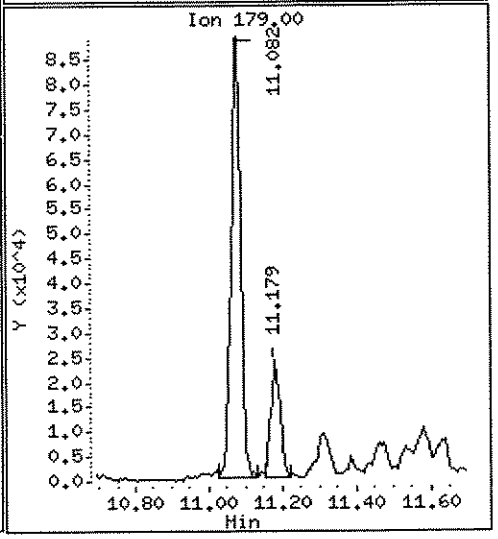












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

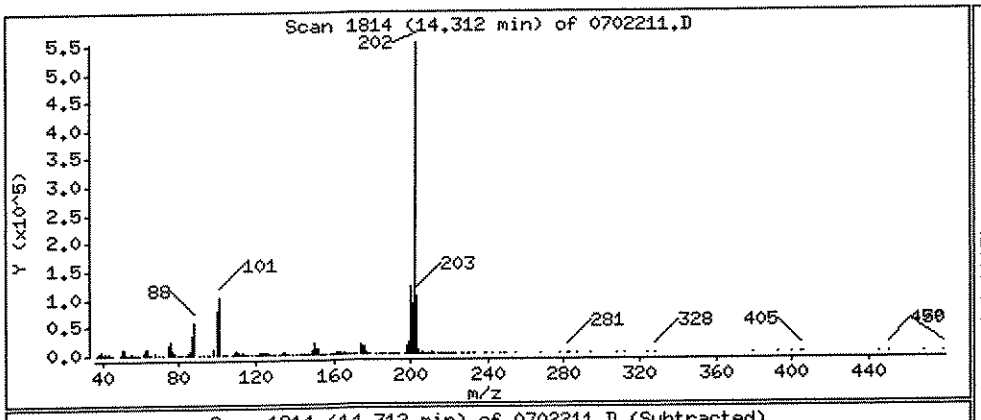
Operator: SDB

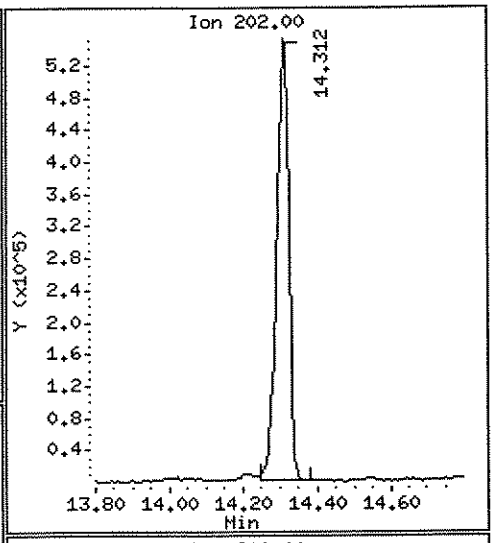
Column phase: fused silica

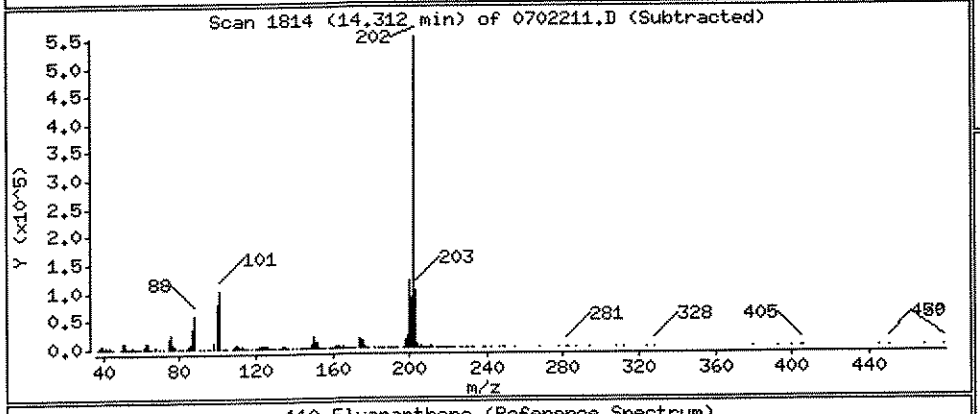
Column diameter: 0.25

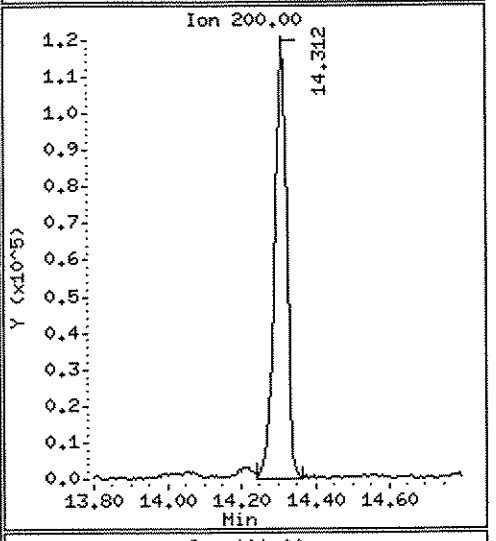
110 Fluoranthene

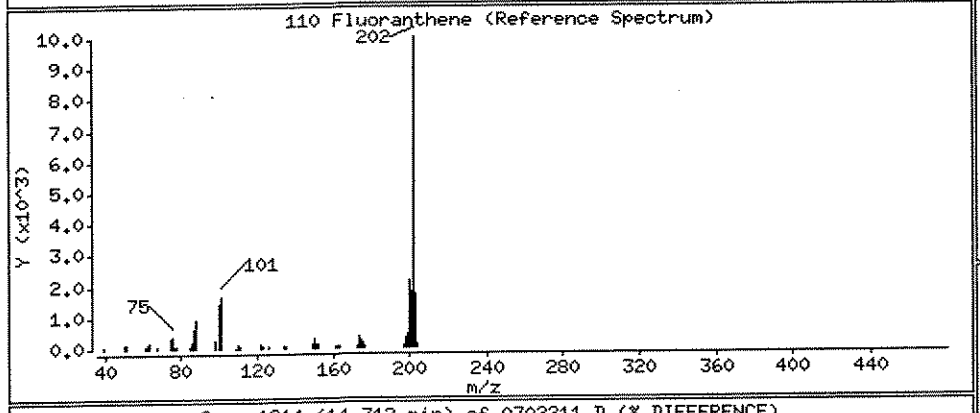
Concentration: 1299 UG/KG

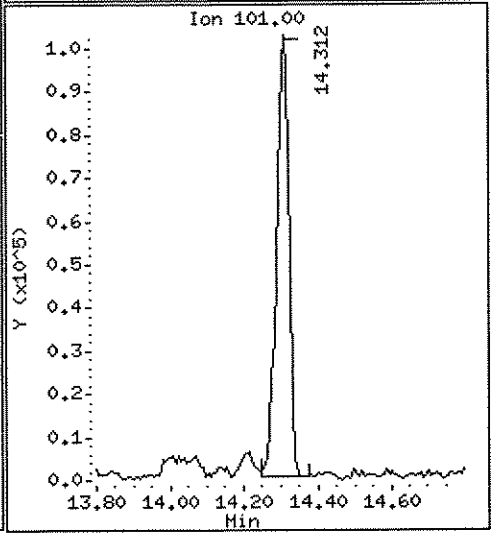


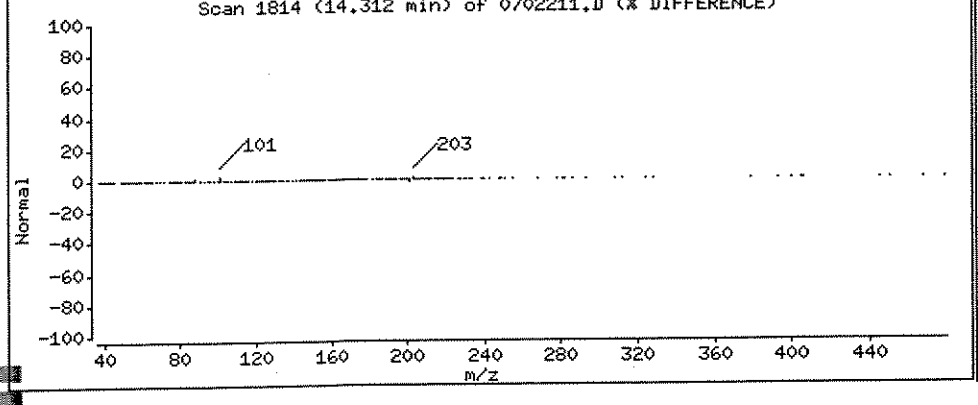












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

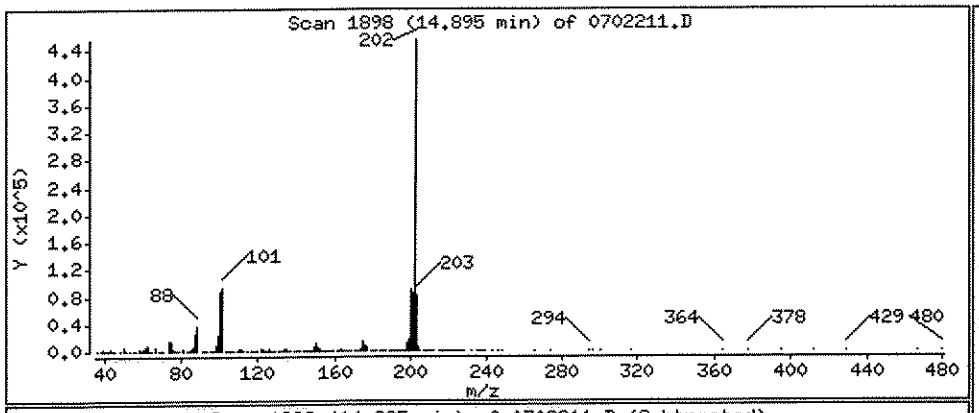
Client ID: 51DUP1S060706 Instrument: bna1.i

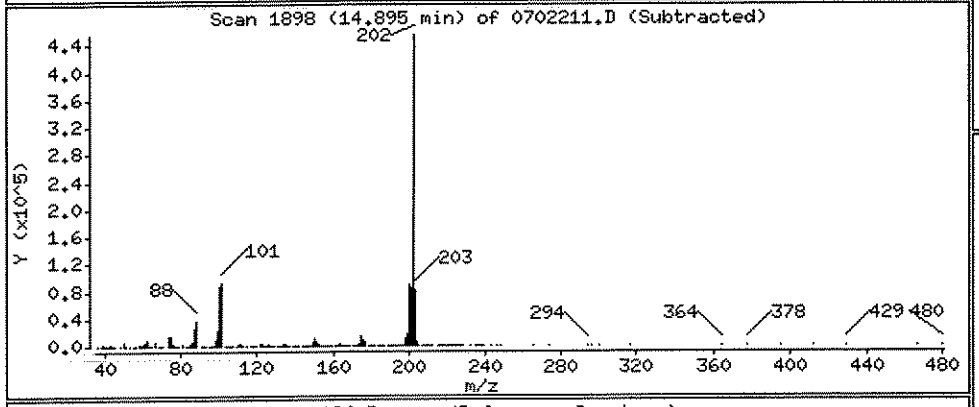
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

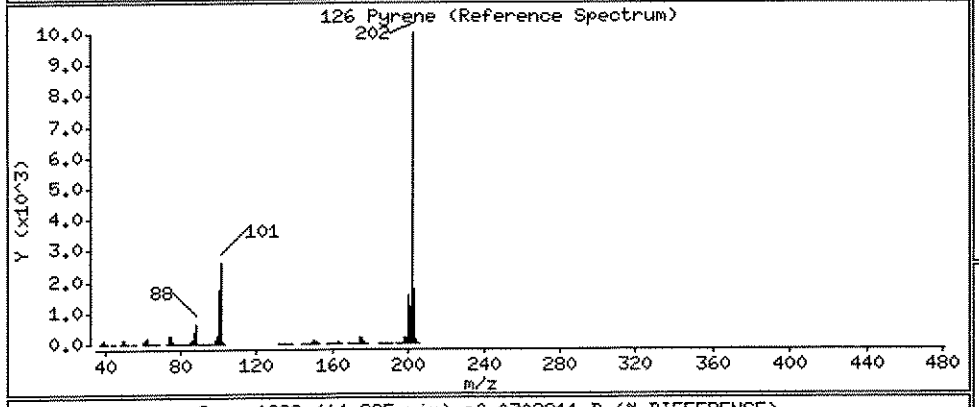
Volume Injected (uL): 0.5 Operator: SDB

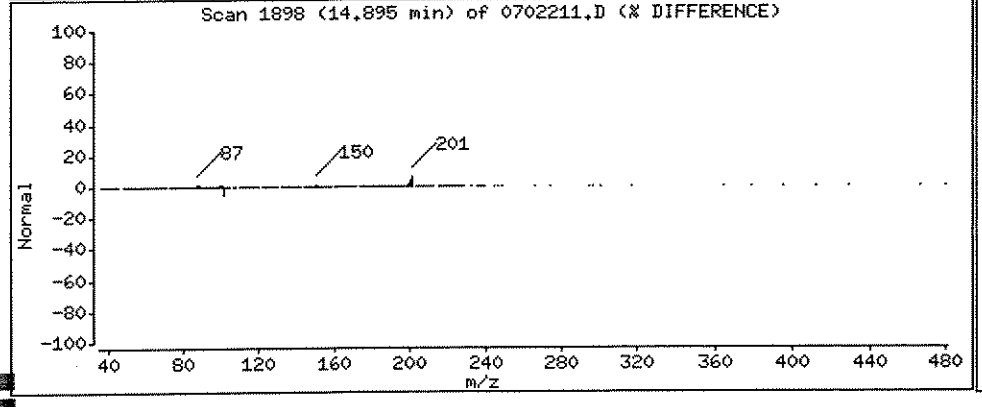
Column phase: fused silica Column diameter: 0.25

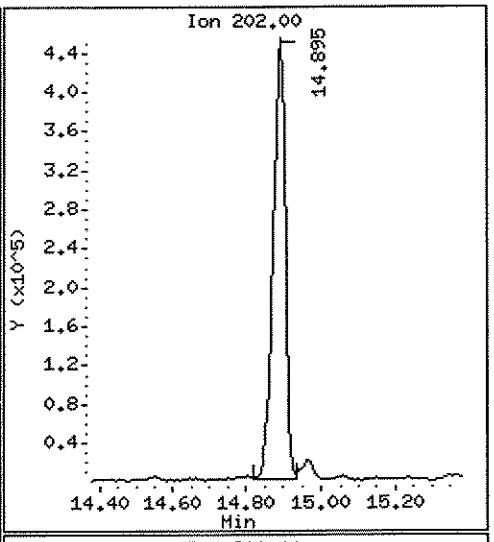
126 Pyrene Concentration: 2464 UG/KG

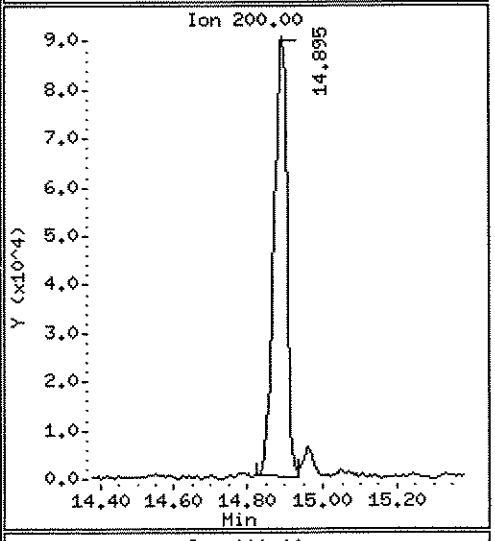


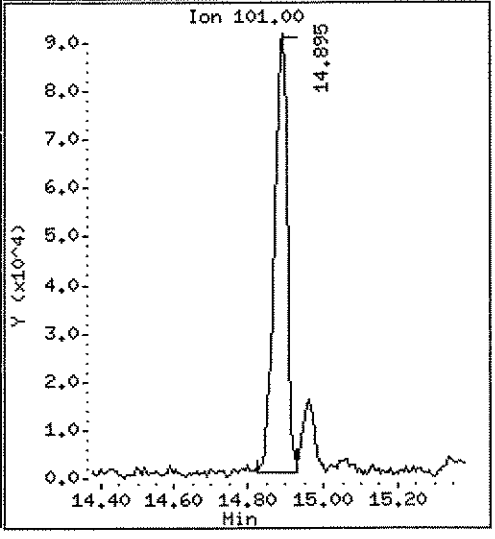












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000307

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

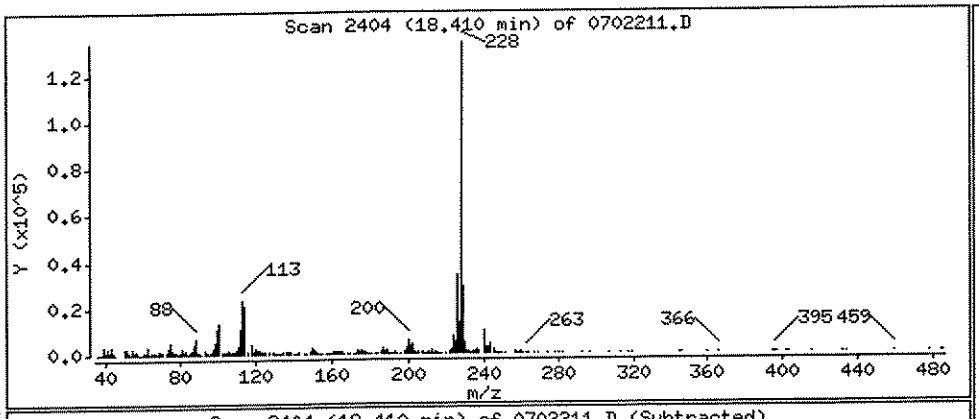
Operator: SDB

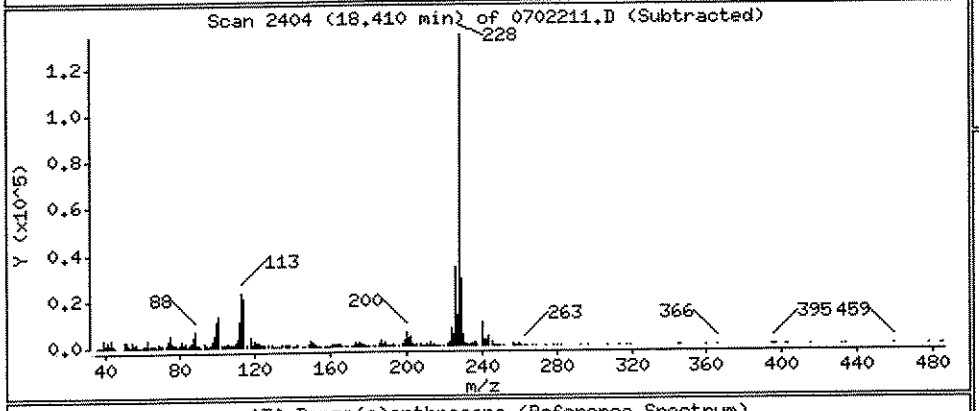
Column phase: fused silica

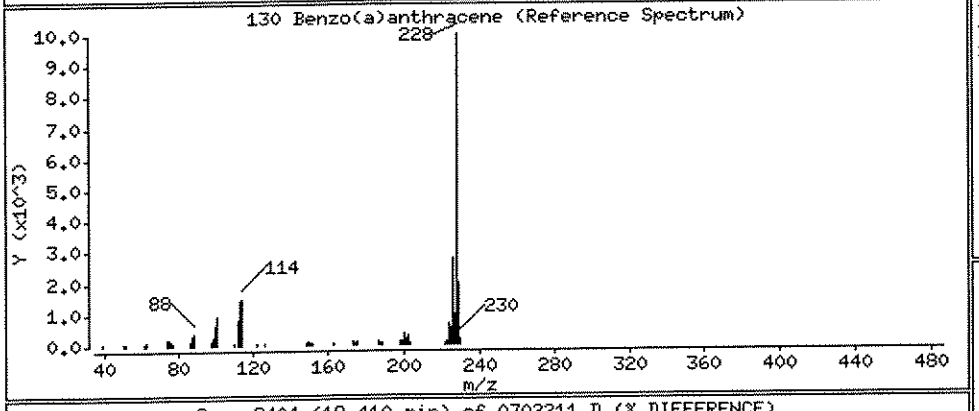
Column diameter: 0.25

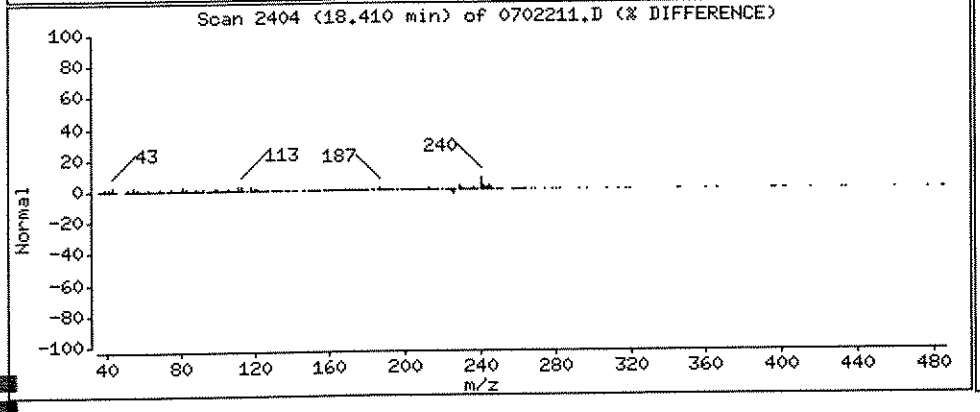
130 Benzo(a)anthracene

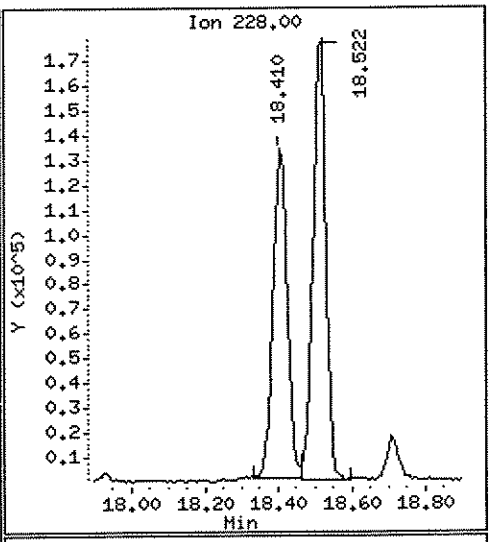
Concentration: 1047 UG/KG

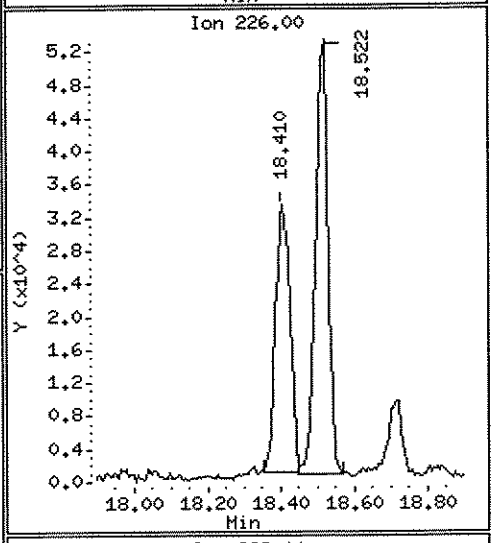


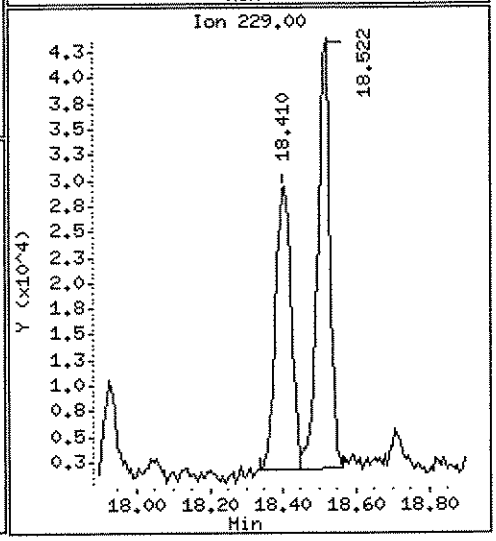












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

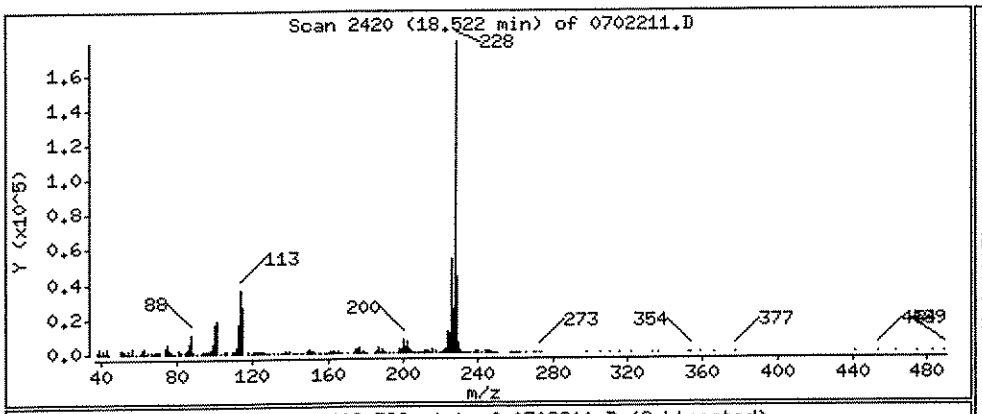
Client ID: 51DUP1S060706 Instrument: bna1.i

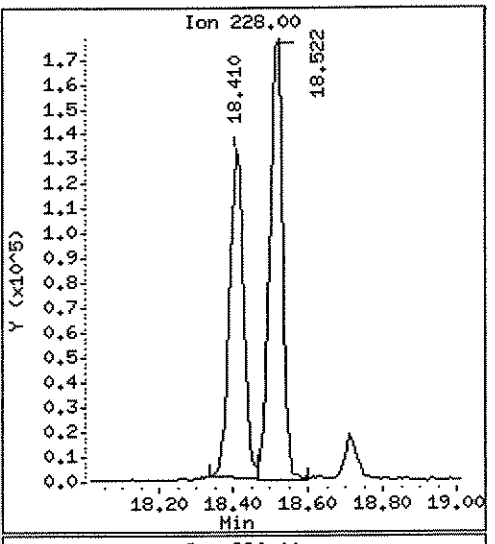
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

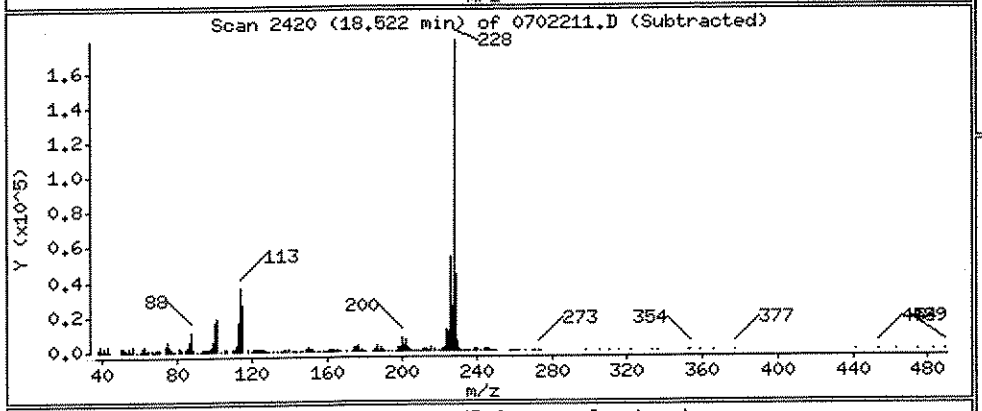
Volume Injected (uL): 0.5 Operator: SDB

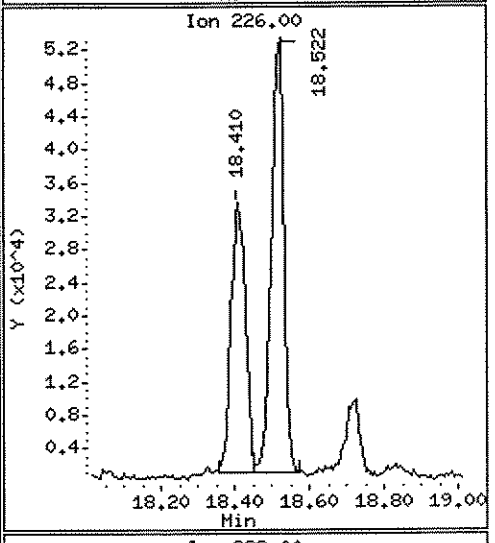
Column phase: fused silica Column diameter: 0.25

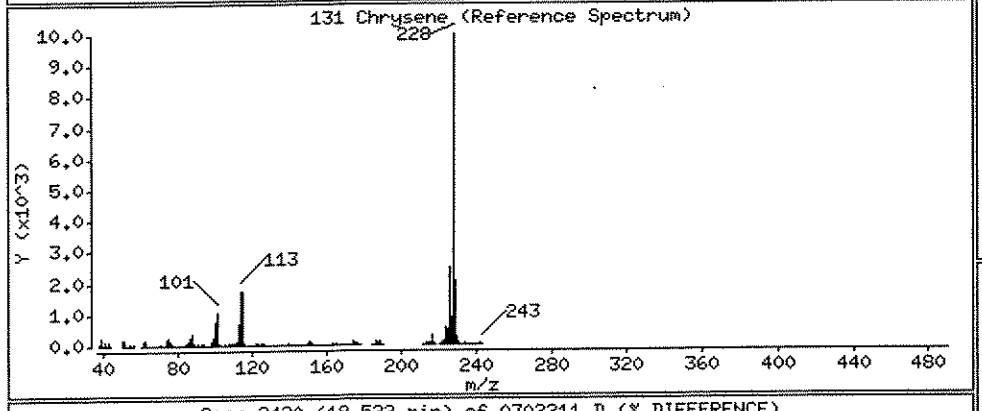
131 Chrysene Concentration: 1371 UG/KG

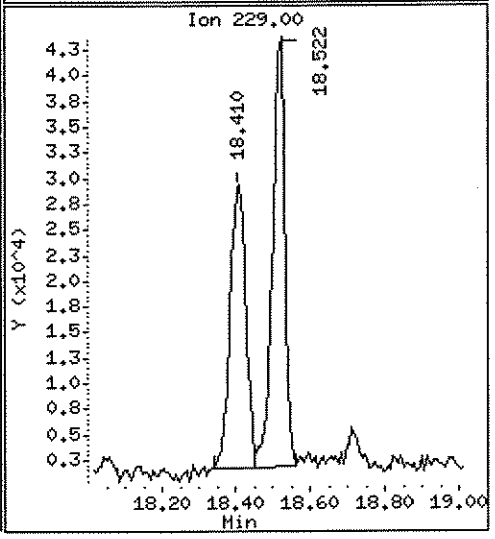


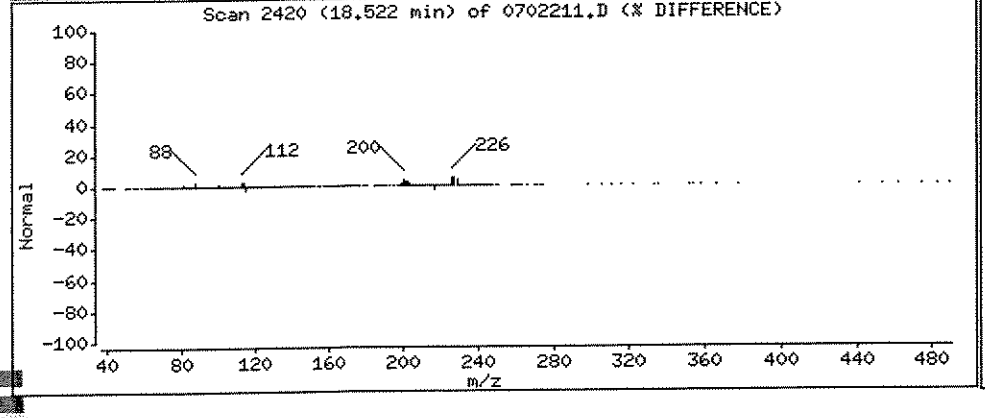












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

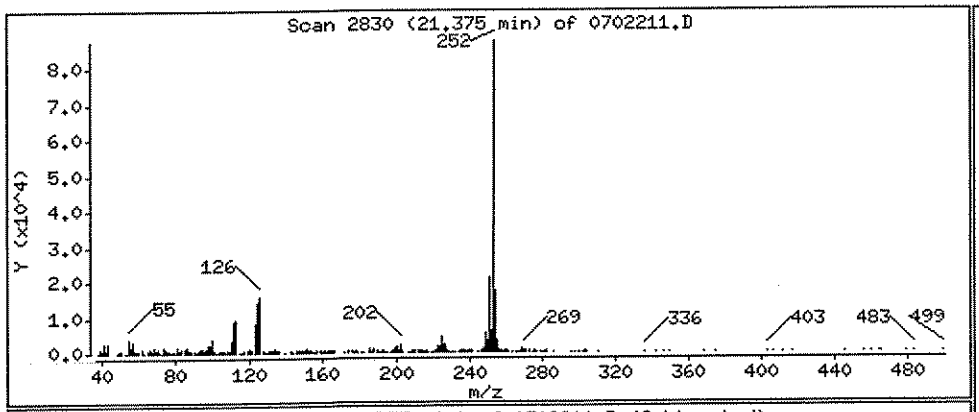
Client ID: 51DUP1S060706 Instrument: bna1.i

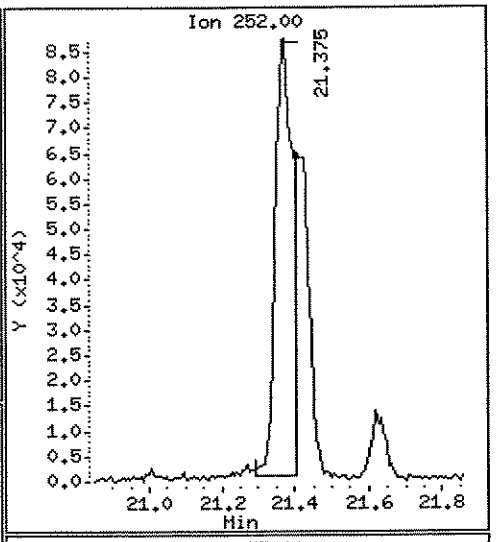
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

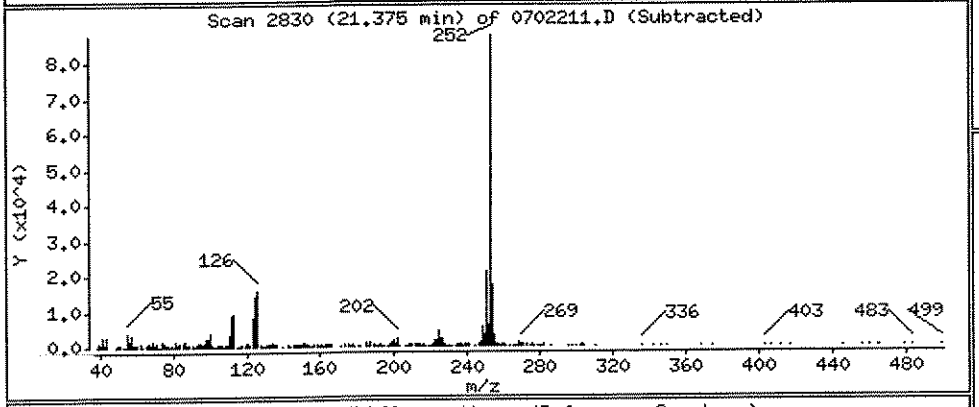
Volume Injected (uL): 0.5 Operator: SDB

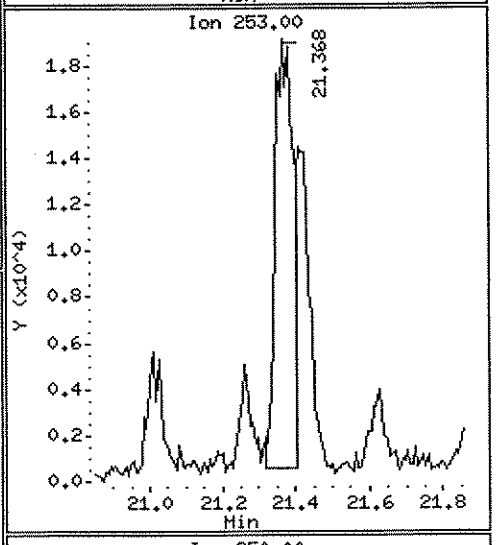
Column phase: fused silica Column diameter: 0.25

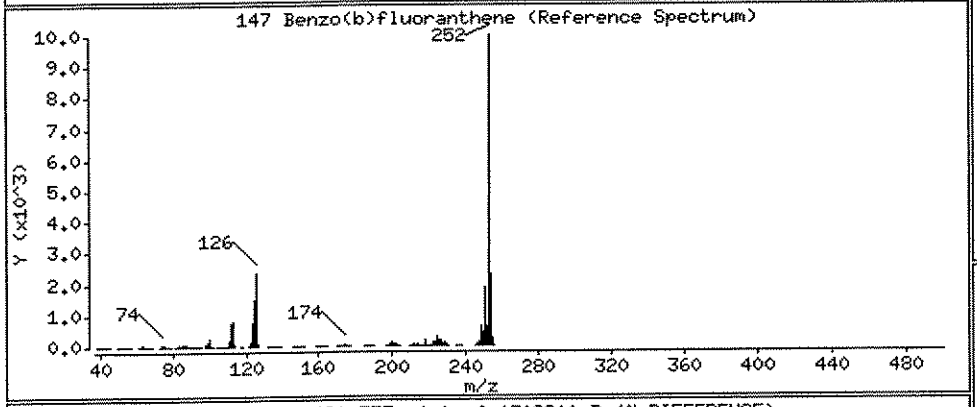
147 Benzo(b)fluoranthene Concentration: 1544 UG/KG

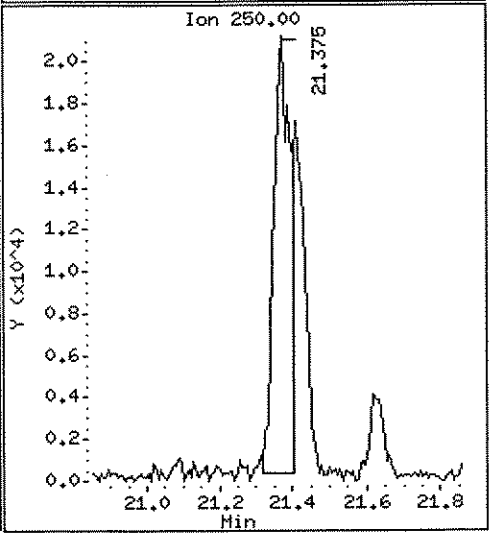


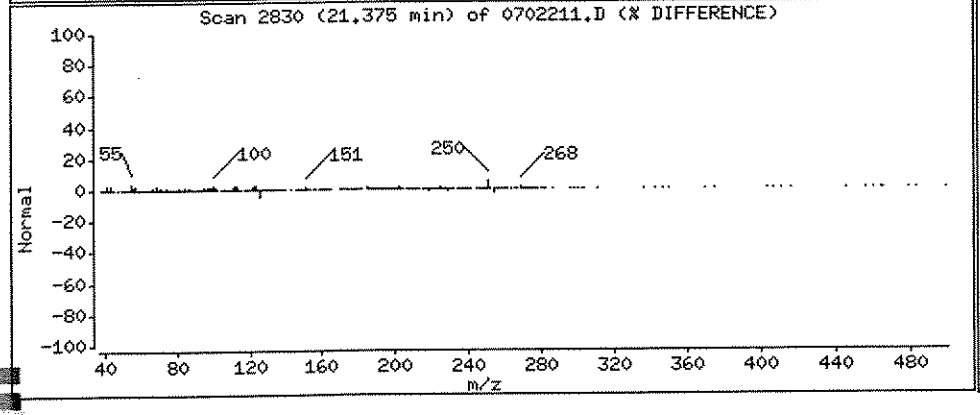












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

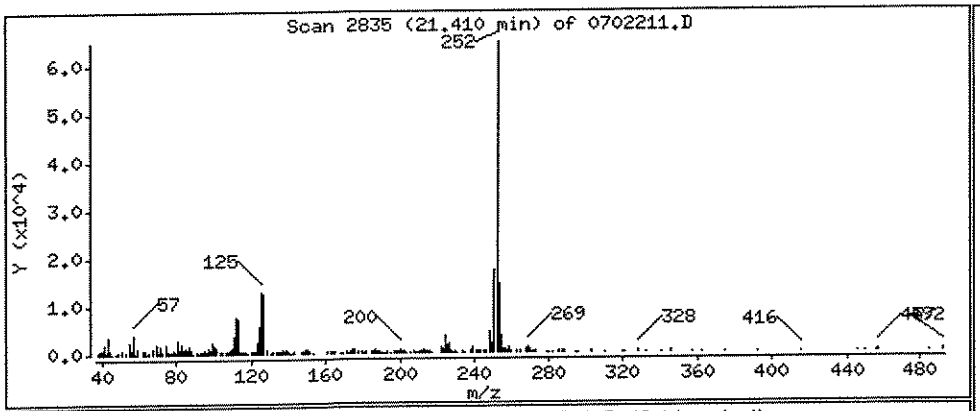
Operator: SDB

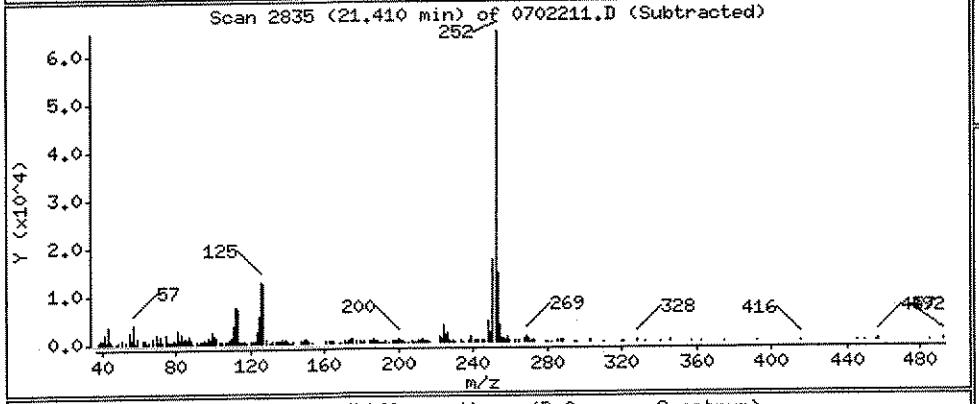
Column phase: fused silica

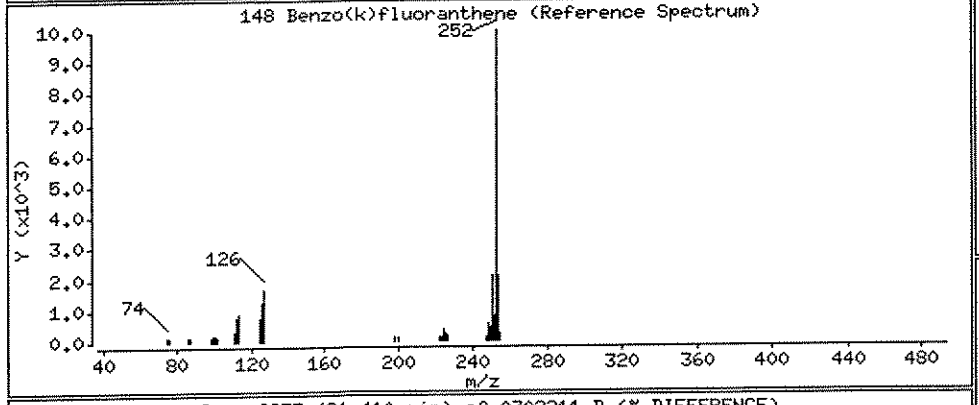
Column diameter: 0.25

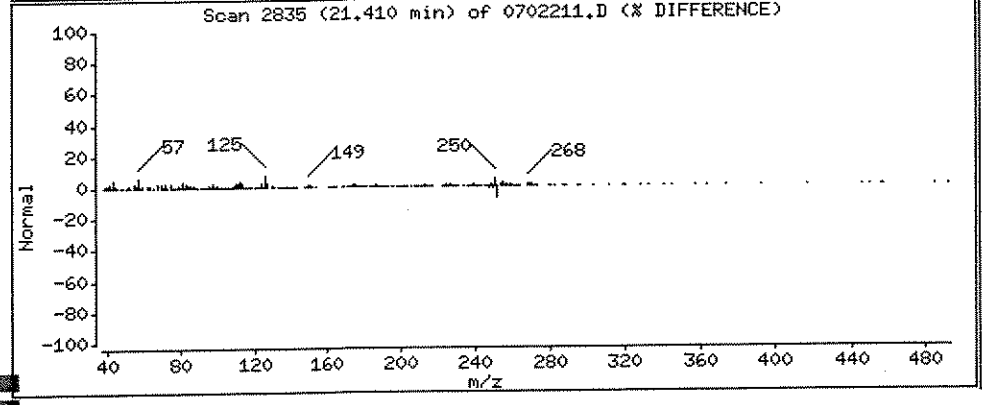
148 Benzo(k)fluoranthene

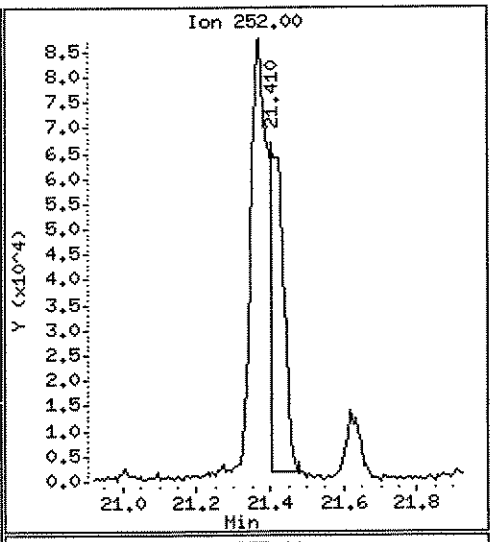
Concentration: 878.3 UG/KG

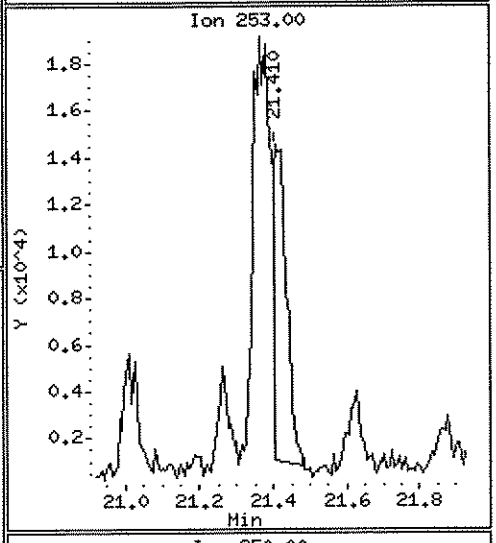


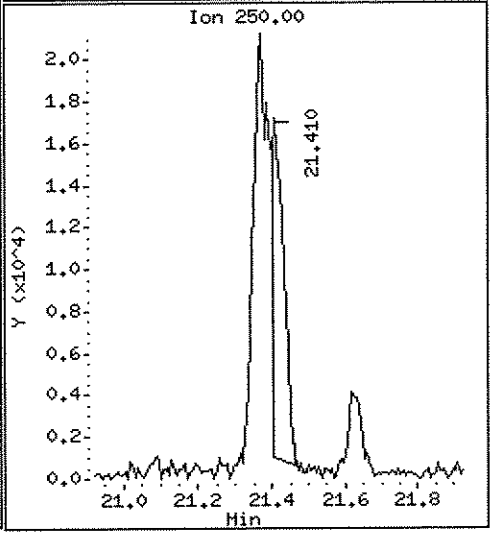












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

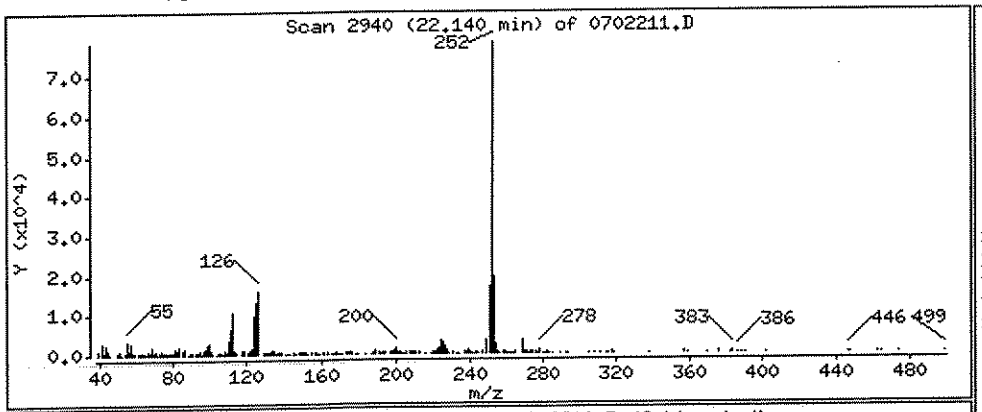
Operator: SDB

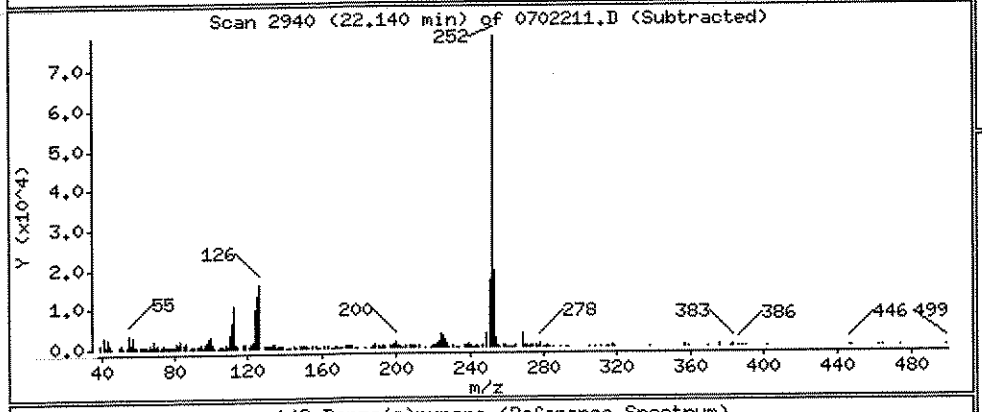
Column phase: fused silica

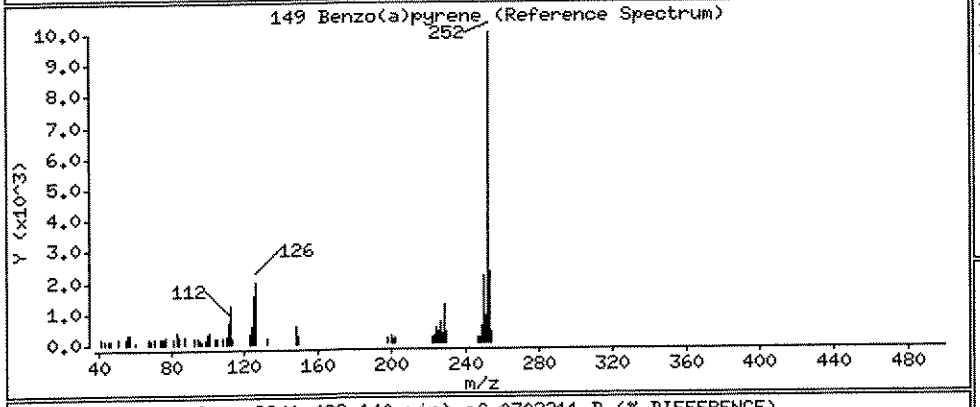
Column diameter: 0.25

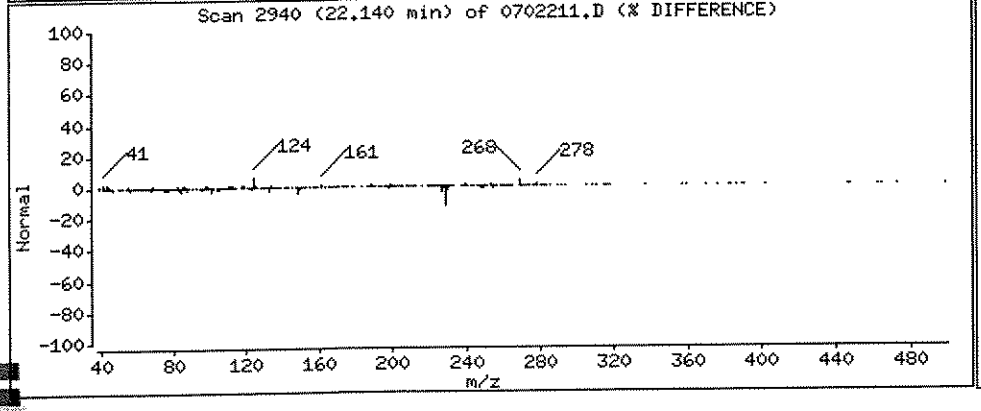
149 Benzo(a)pyrene

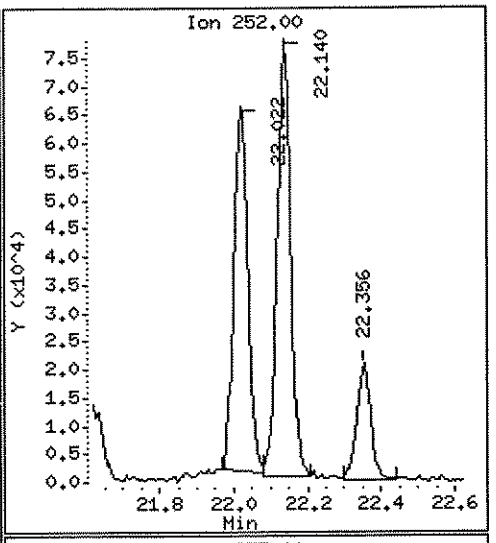
Concentration: 1249 UG/KG

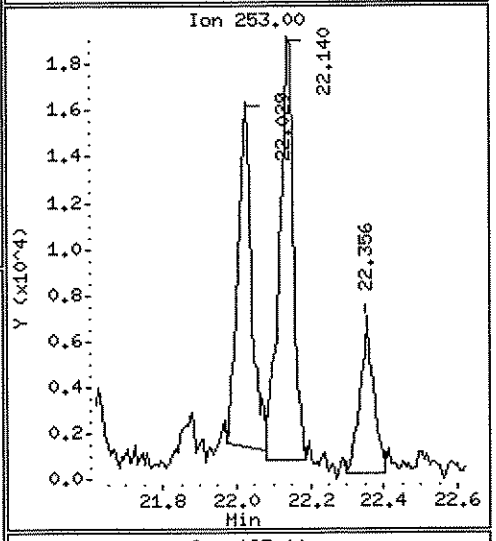


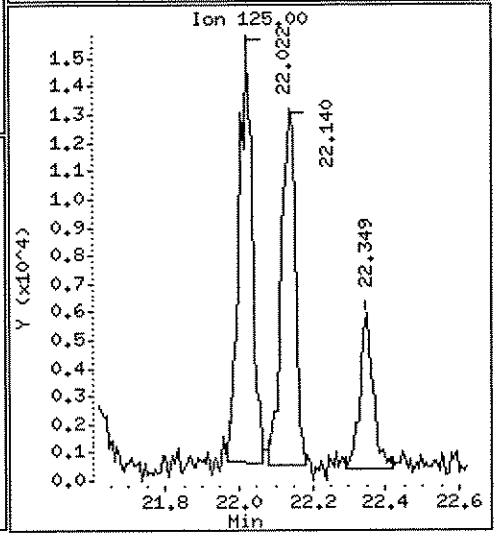












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

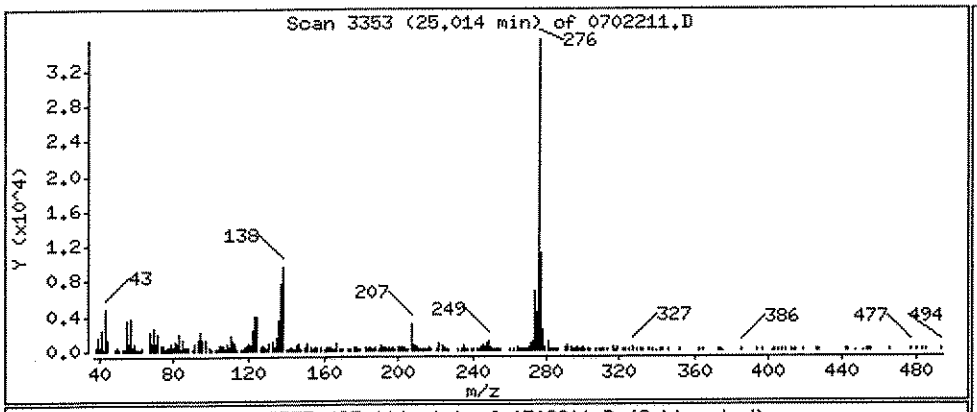
Client ID: 51DUP1S060706 Instrument: bna1.i

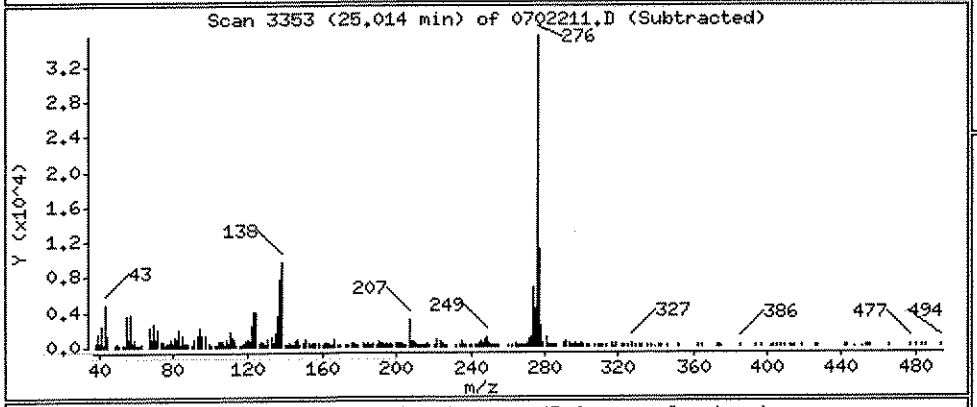
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

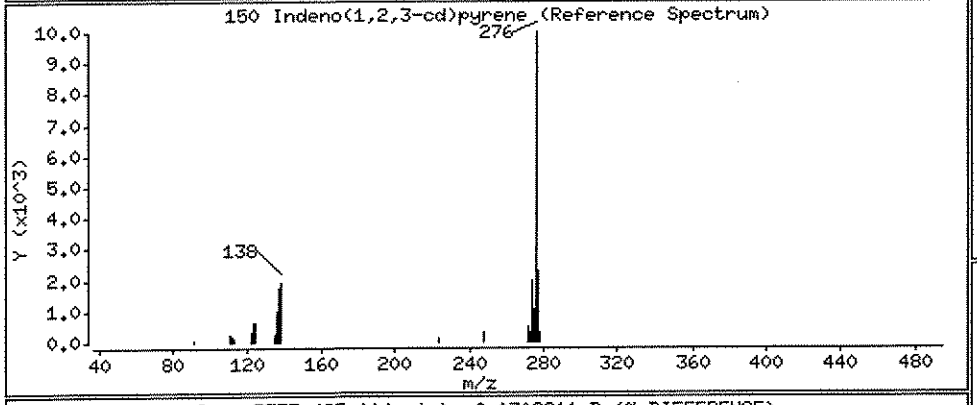
Volume Injected (uL): 0.5 Operator: SDB

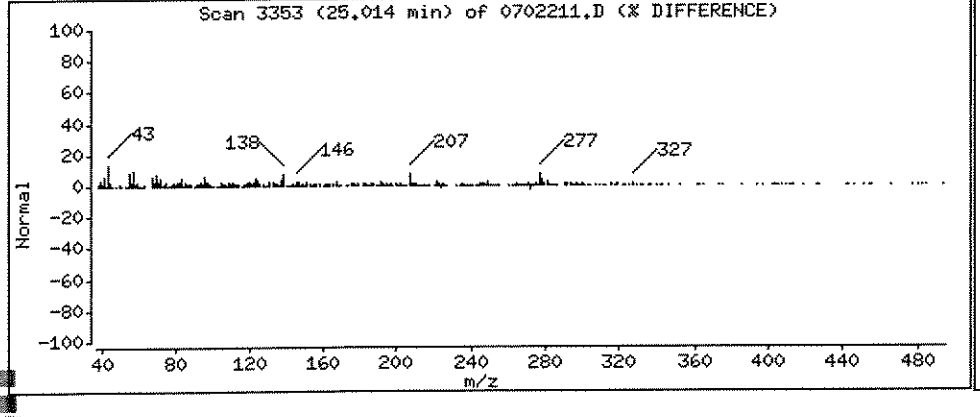
Column phase: fused silica Column diameter: 0.25

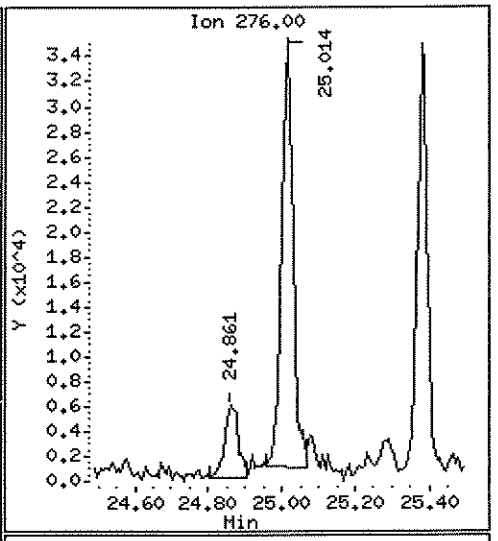
150 Indeno(1,2,3-cd)pyrene Concentration: 554.8 UG/KG

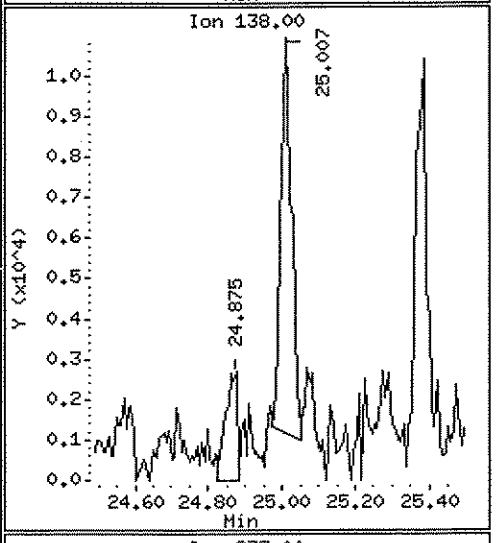


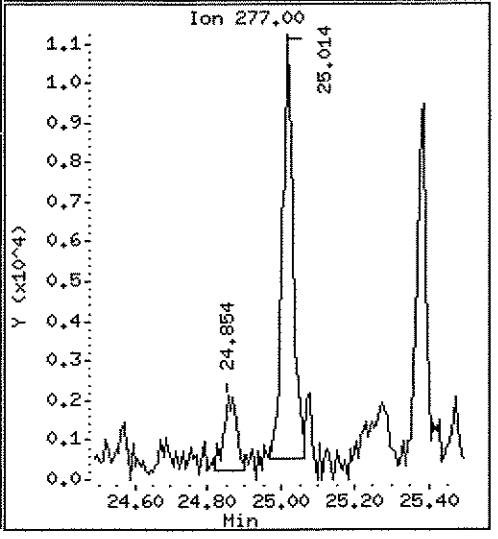












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

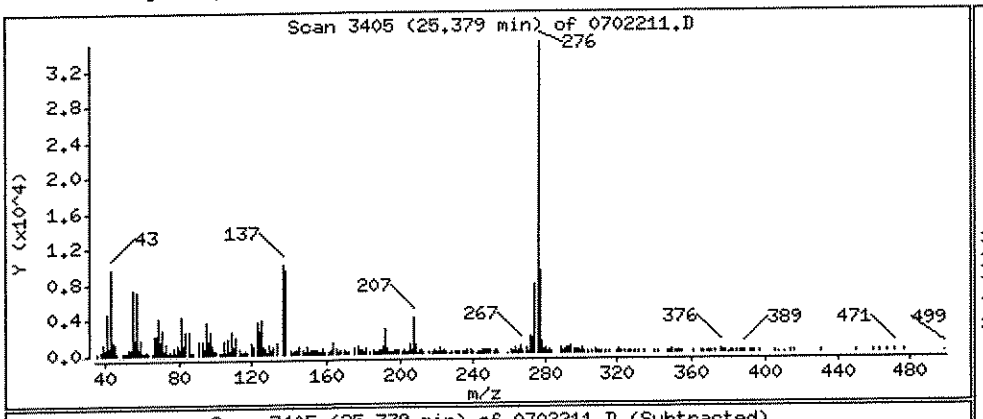
Operator: SDB

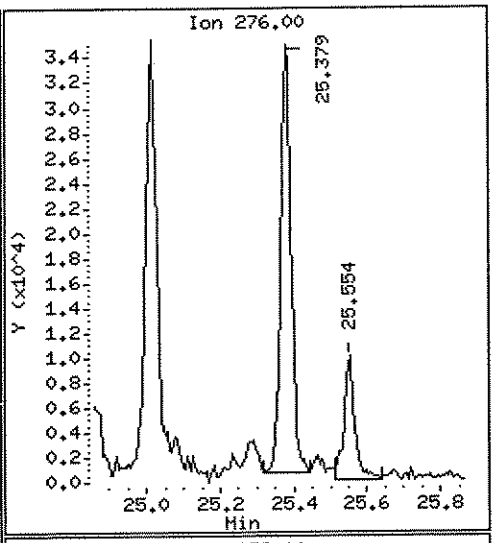
Column phase: fused silica

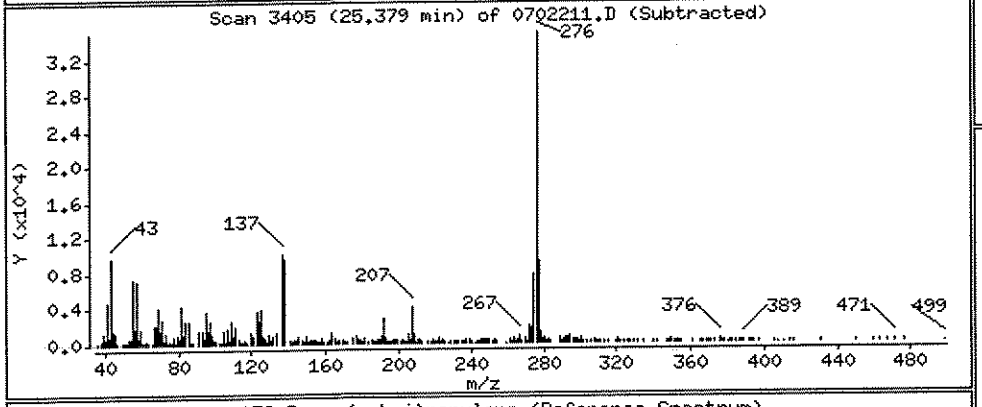
Column diameter: 0.25

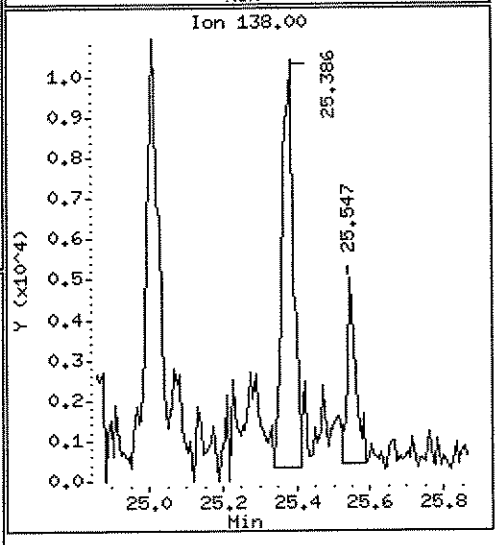
152 Benzo(g,h,i)perylene

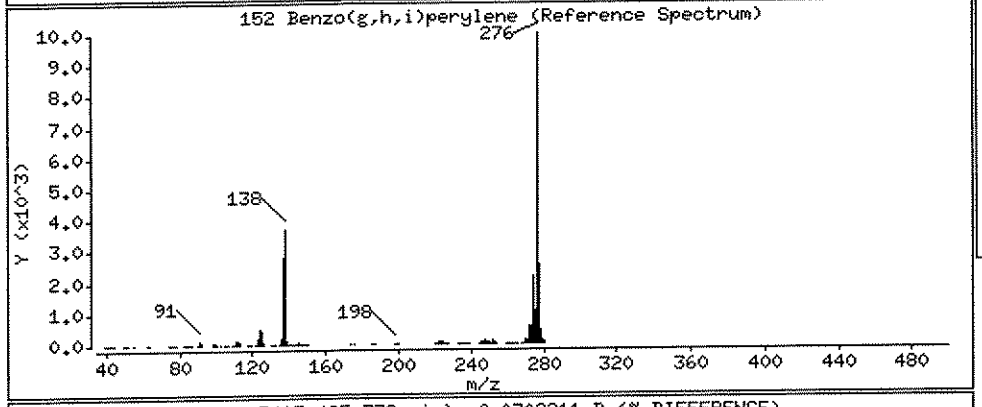
Concentration: 480.6 UG/KG

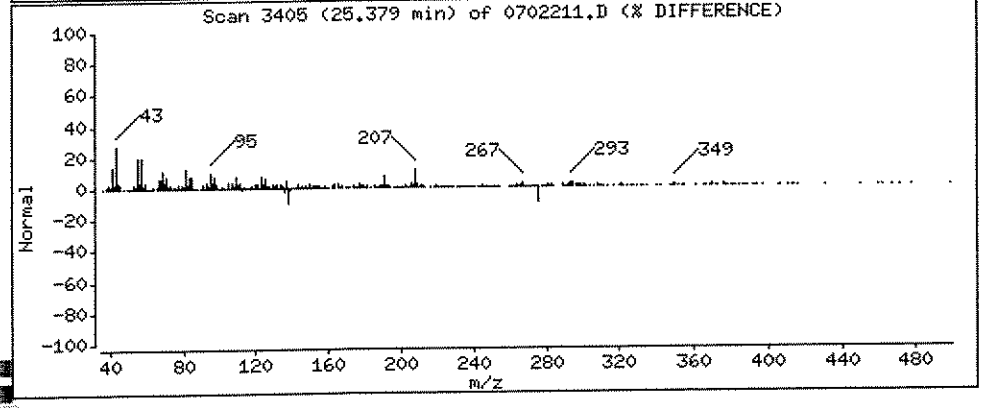












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211D

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:51

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	830	170	JD
208-96-8	Acenaphthylene	100	830		UD
120-12-7	Anthracene	100	830	280	JD
56-55-3	Benzo(a)anthracene	100	830	1400	D
205-99-2	Benzo(b)fluoranthene	100	830	2000	D
207-08-9	Benzo(k)fluoranthene	100	830	820	JD
191-24-2	Benzo(g,h,i)perylene	100	830	960	D
50-32-8	Benzo(a)pyrene	100	500	1700	D
218-01-9	Chrysene	100	830	1800	D
53-70-3	Dibenz(a,h)anthracene	100	500	300	JD
206-44-0	Fluoranthene	100	830	2400	D
86-73-7	Fluorene	100	830	160	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	830	1000	D
91-57-6	2-Methylnaphthalene	100	830		UD
90-12-0	1-Methylnaphthalene	250	830		UD
91-20-3	Naphthalene	100	830		UD
85-01-8	Phenanthrene	100	830	1600	D
129-00-0	Pyrene	100	830	2000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Lab Smp Id: 0607022-11 Client Smp ID: 51DUP1S060706
Inj Date : 11-JUL-2006 16:51
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.700	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	534771	40.0000	
* 31 Naphthalene-d8	136	5.231	5.240	(1.000)	1877607	40.0000	
$ 32 Nitrobenzene-d5	82	4.663	4.668	(0.891)	303193	14.7925	2465
* 65 Acenaphthene-d10	164	7.643	7.641	(1.000)	918759	40.0000	
$ 70 2-Fluorobiphenyl	172	6.547	6.555	(0.857)	462735	15.8266	2637
76 Acenaphthene	153	7.691	7.703	(1.006)	27184	1.02520	170.8(a)
84 Fluorene	166	8.718	8.727	(1.141)	26973	0.95109	158.5(a)
* 97 Phenanthrene-d10	188	10.921	10.923	(1.000)	1231851	40.0000	
106 Phenanthrene	178	10.970	10.986	(1.004)	326606	9.29899	1550
107 Anthracene	178	11.080	11.096	(1.015)	57613	1.66149	276.9(a)
110 Fluoranthene	202	14.185	14.195	(1.299)	493089	14.1803	2363
* 124 Chrysene-d12	240	18.334	18.333	(1.000)	923091	40.0000	
126 Pyrene	202	14.764	14.770	(0.805)	434782	11.7939	1965

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Report Date: 12-Jul-2006 12:13

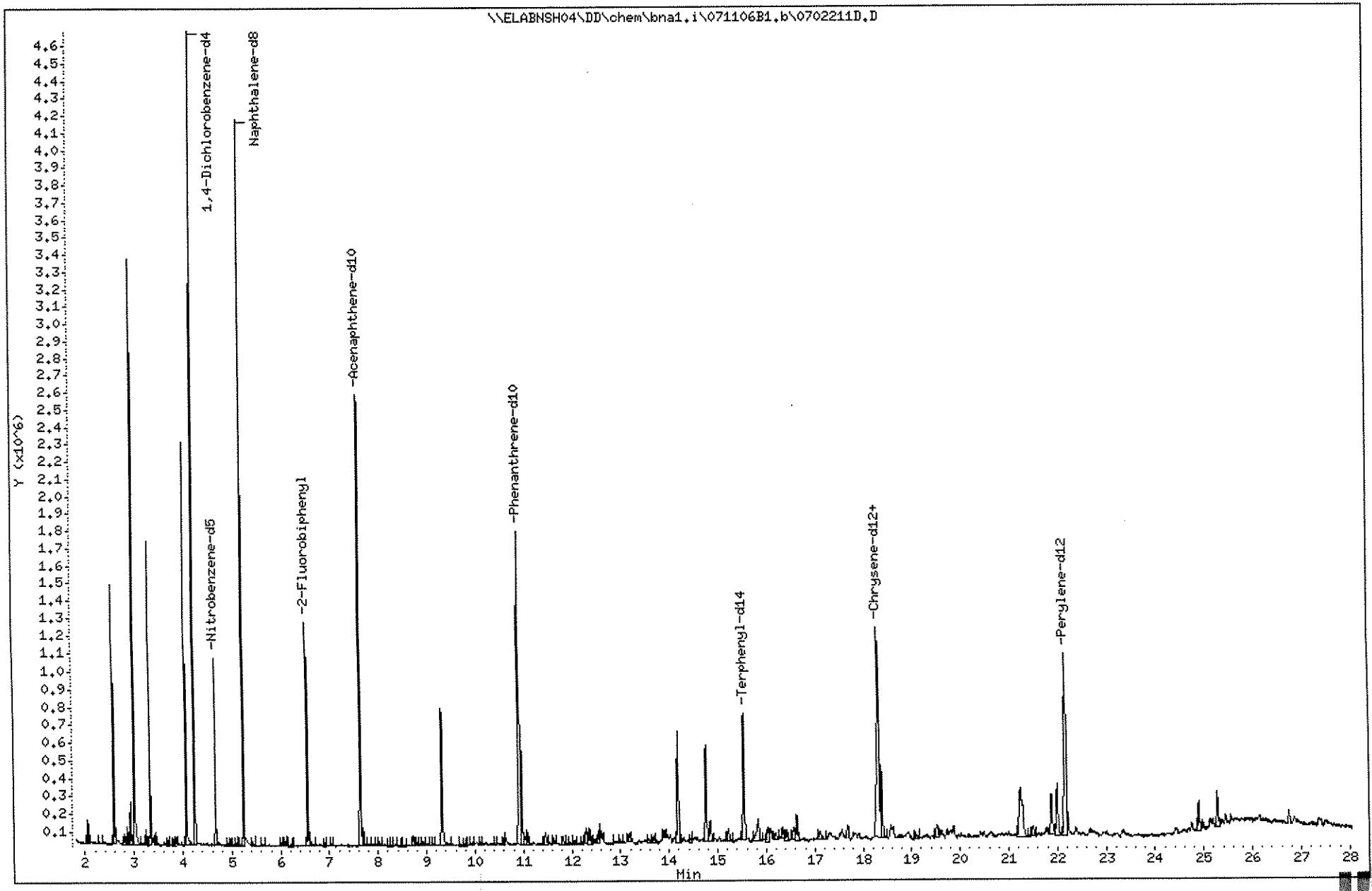
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.544	15.545	(0.848)	437937	18.7881	3131
130 Benzo(a)anthracene	228	18.285	18.291	(0.997)	248933	8.36972	1395
131 Chrysene	228	18.389	18.409	(1.003)	289721	10.6652	1777
* 145 Perylene-d12	264	22.178	22.175	(1.000)	903015	40.0000	
147 Benzo(b)fluoranthene	252	21.239	21.248	(0.958)	328674	11.8157	1969(M)
148 Benzo(k)fluoranthene	252	21.281	21.317	(0.960)	142306	4.93090	821.7(aM)
149 Benzo(a)pyrene	252	22.004	22.017	(0.992)	248303	10.3518	1725
150 Indeno(1,2,3-cd)pyrene	276	24.895	24.921	(1.123)	125241	6.11980	1020
151 Dibenz(a,h)anthracene	278	24.973	24.998	(1.126)	36697	1.78119	296.8(a)
152 Benzo(g,h,i)perylene	276	25.274	25.301	(1.140)	122165	5.75237	958.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Date : 11-JUL-2006 16:51
Client ID: 51DUP1S060706
Instrument: bna1.i
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000318



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Date : 11-JUL-2006 16:51

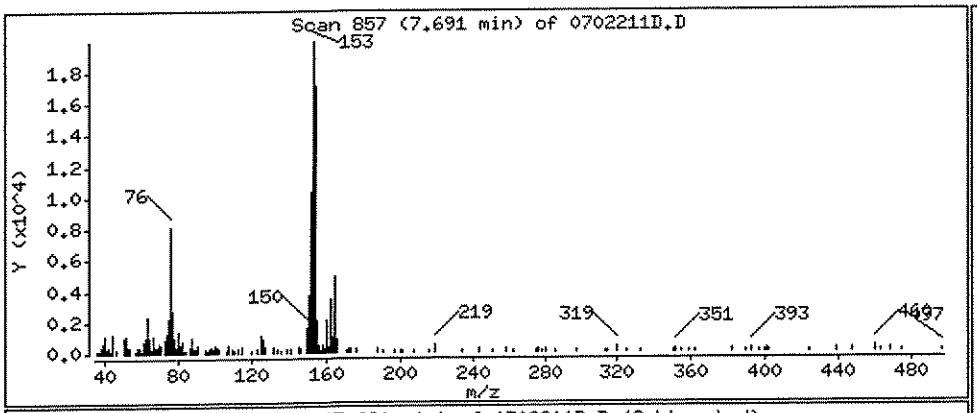
Client ID: 51DUP1S060706 Instrument: bna1.i

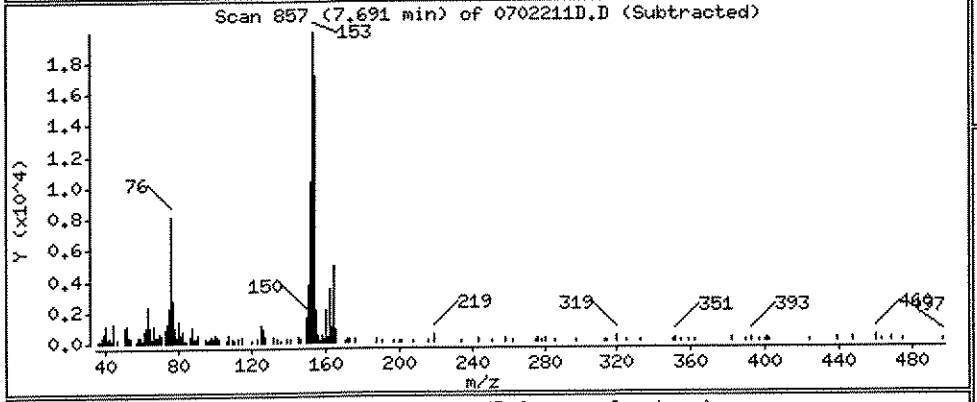
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

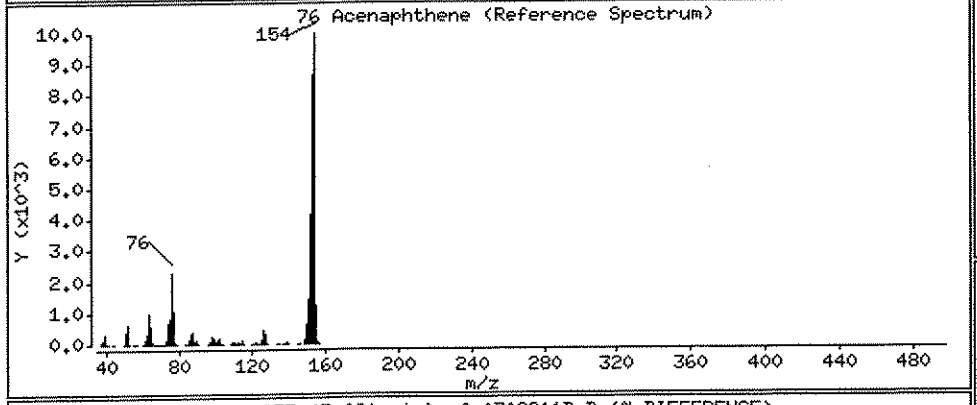
Volume Injected (uL): 0.5 Operator: SDB

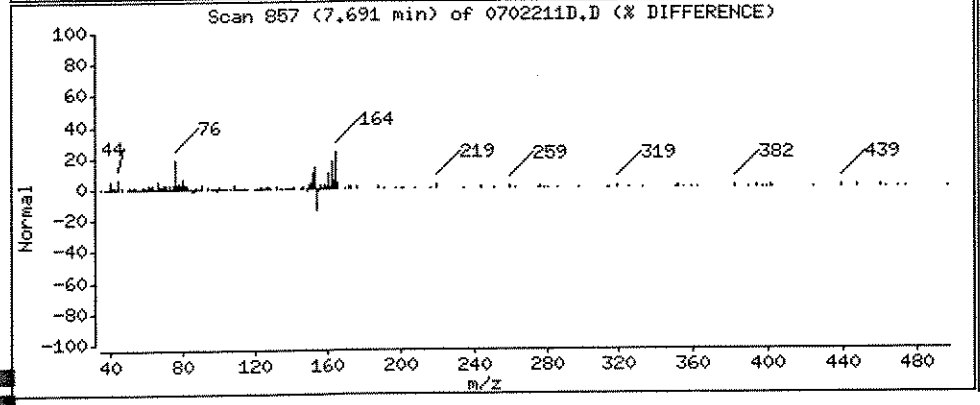
Column phase: fused silica Column diameter: 0.25

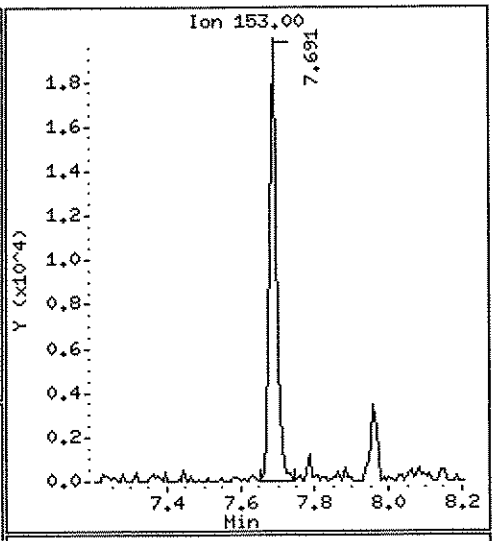
76 Acenaphthene Concentration: 170.8 UG/KG

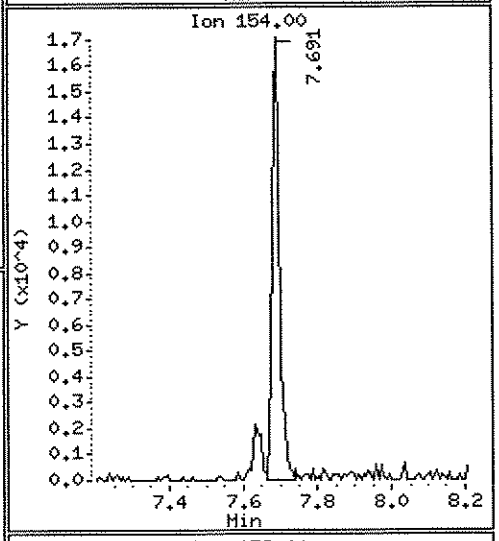


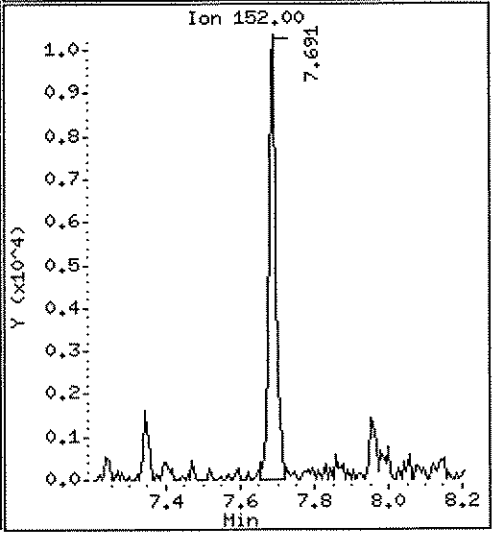












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

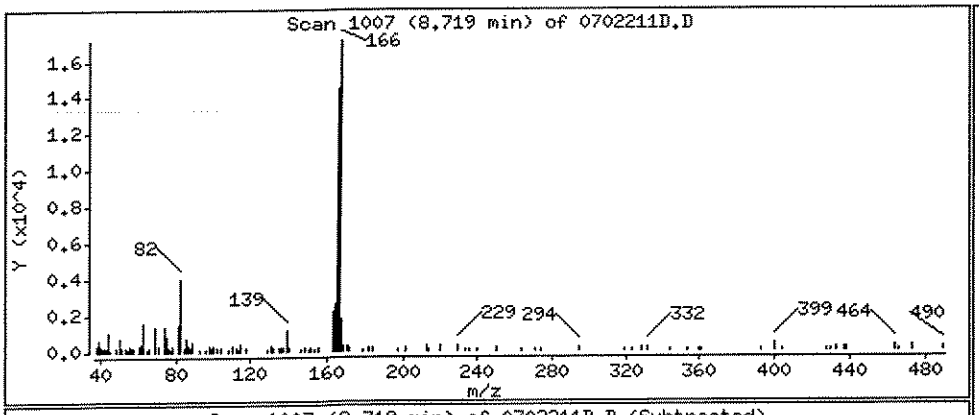
Client ID: 51DUP1S060706 Instrument: bna1.i

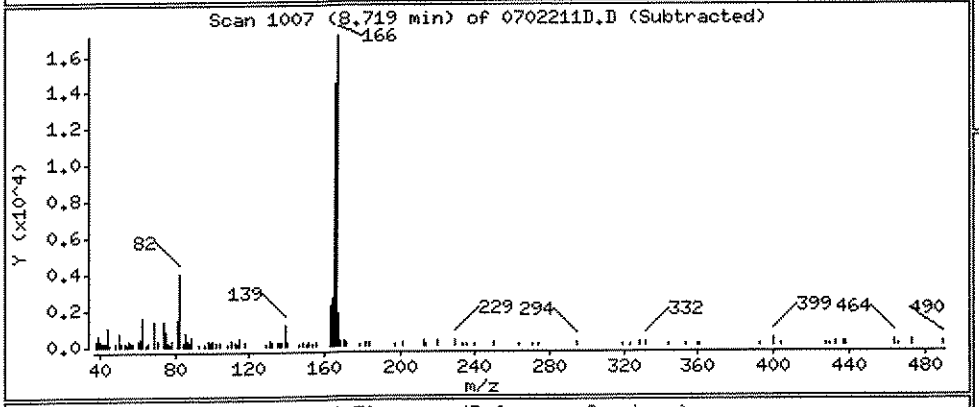
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

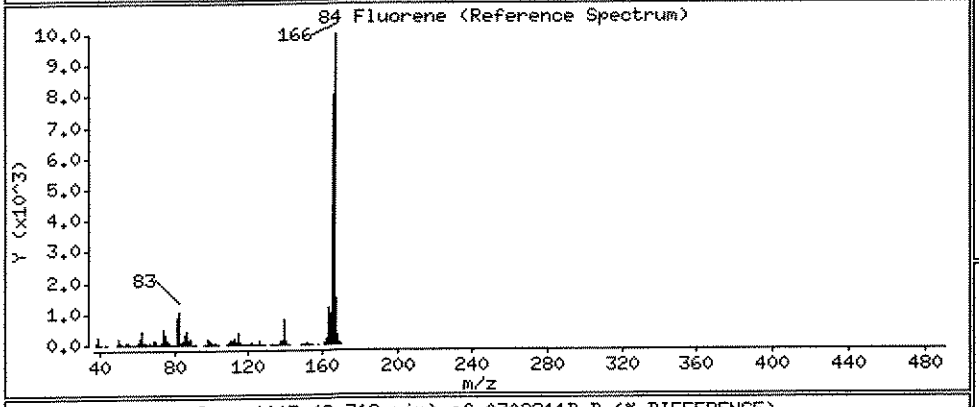
Volume Injected (uL): 0.5 Operator: SDB

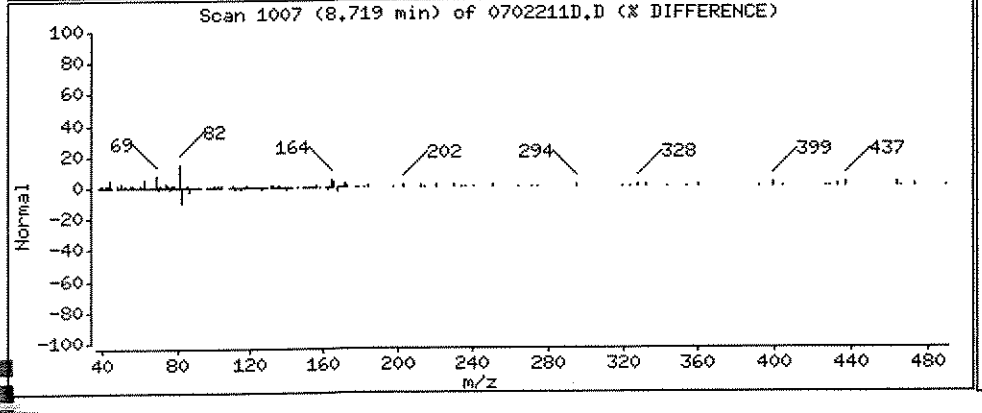
Column phase: fused silica Column diameter: 0.25

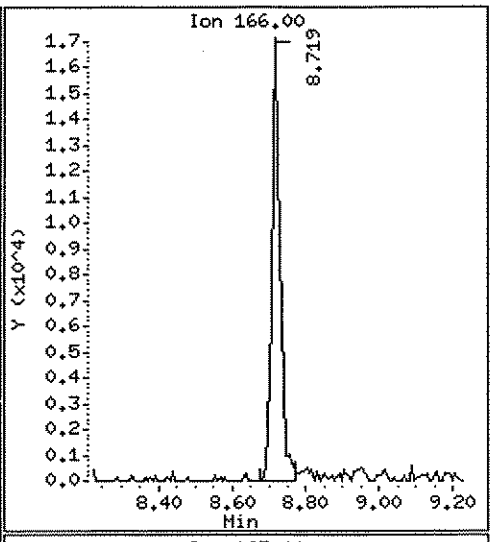
84 Fluorene Concentration: 158.5 UG/KG

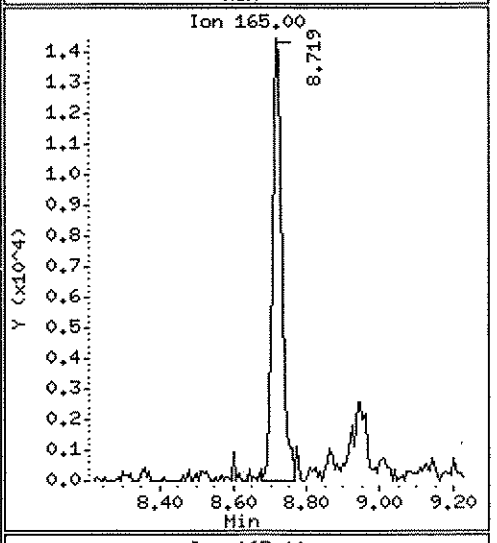


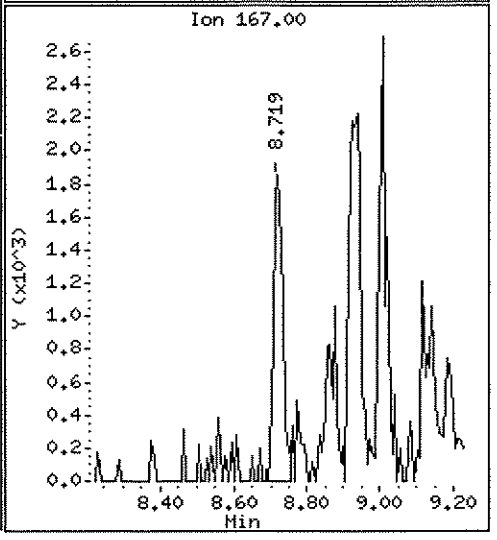












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Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

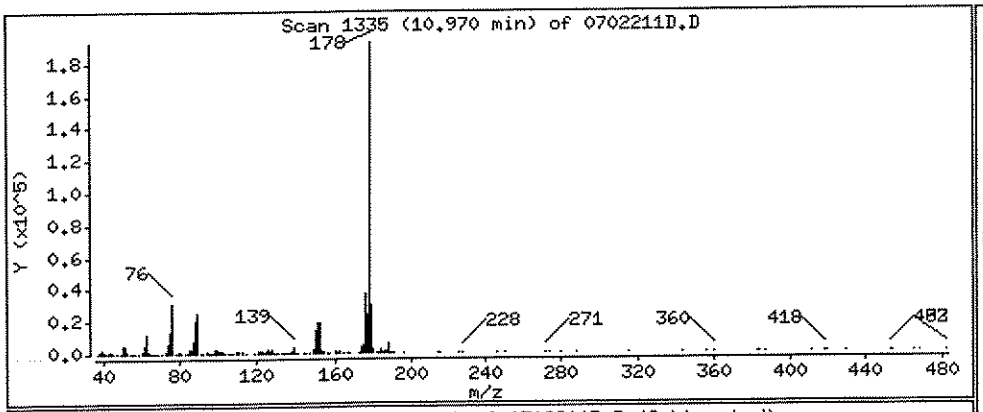
Operator: SDB

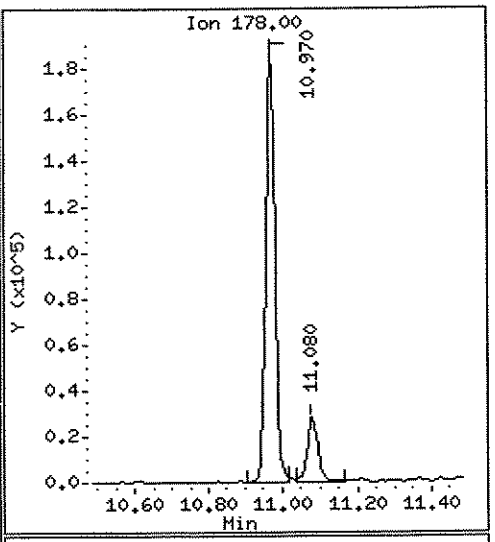
Column phase: fused silica

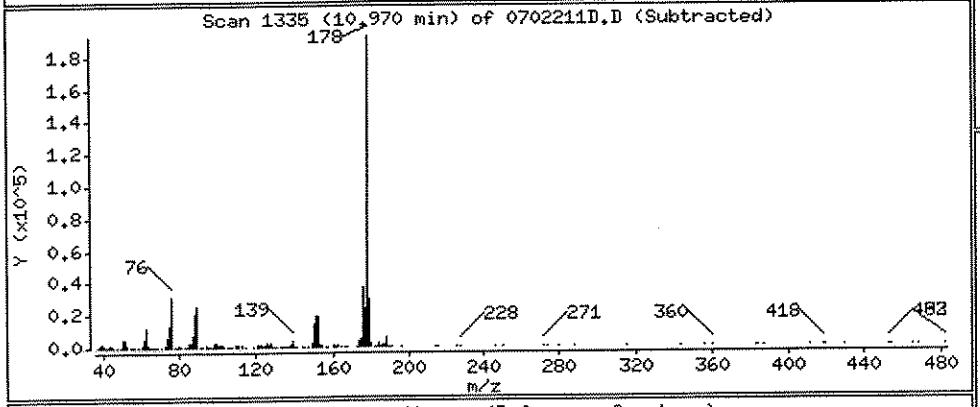
Column diameter: 0.25

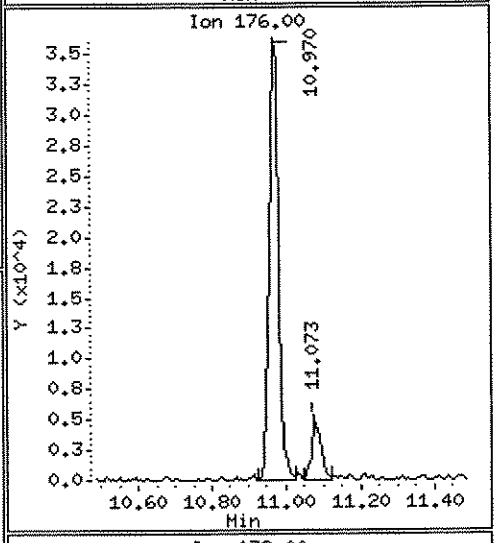
106 Phenanthrene

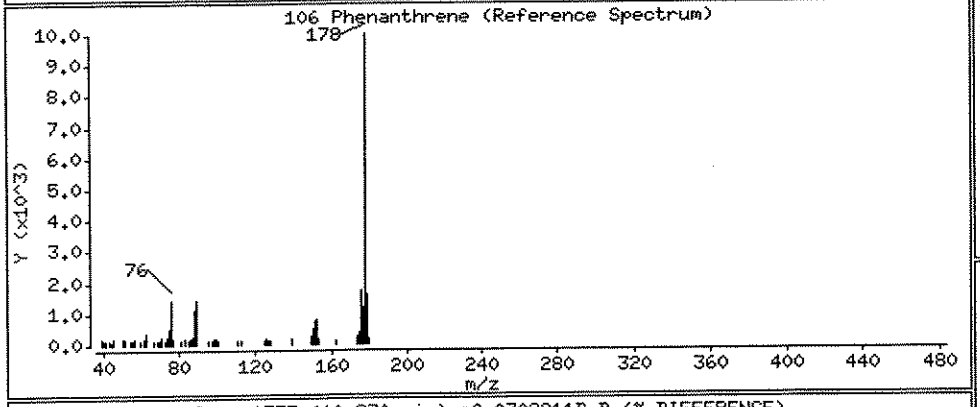
Concentration: 1550 UG/KG

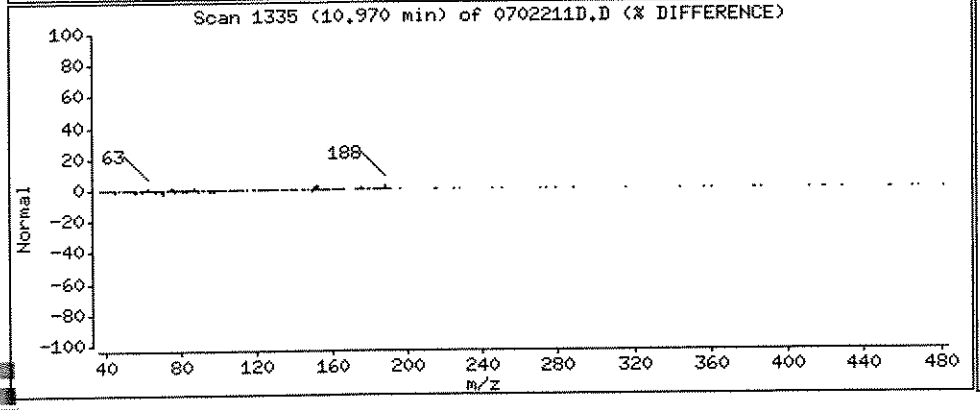


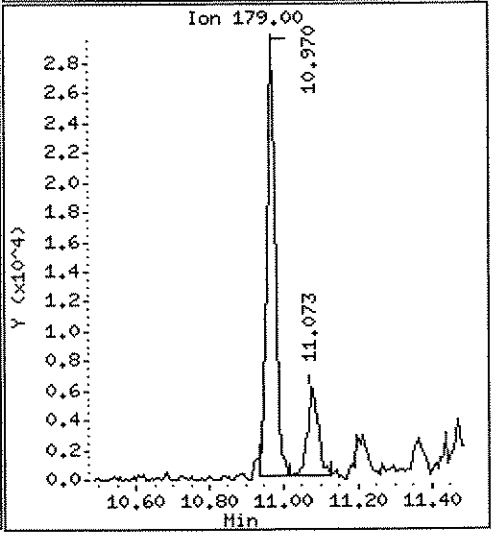












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Date : 11-JUL-2006 16:51

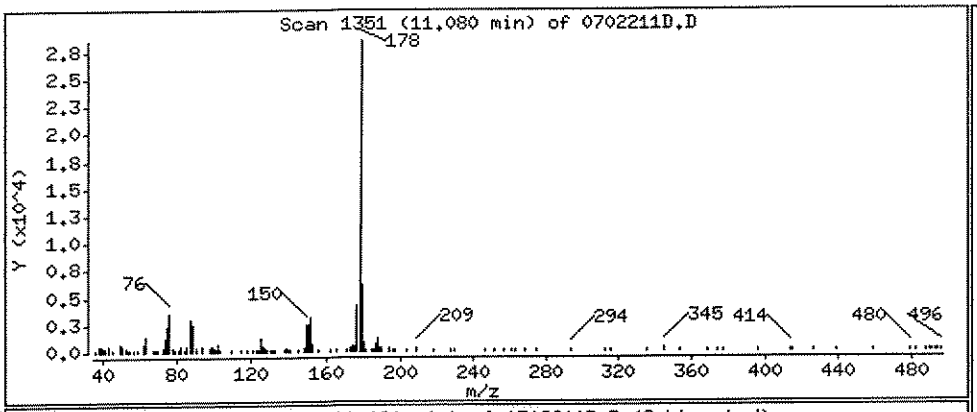
Client ID: 51DUP1S060706 Instrument: bna1.i

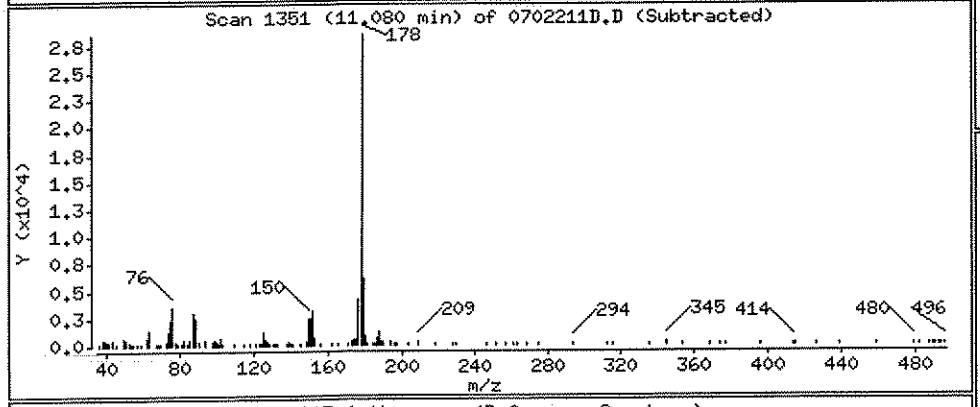
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

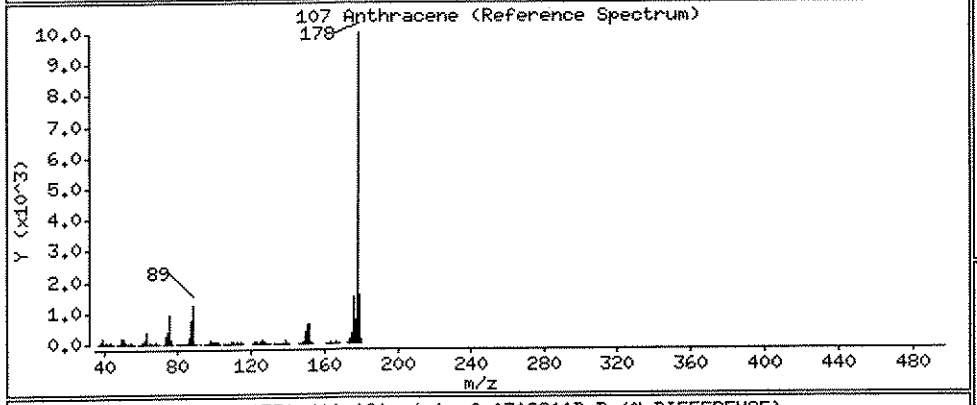
Volume Injected (uL): 0.5 Operator: SDB

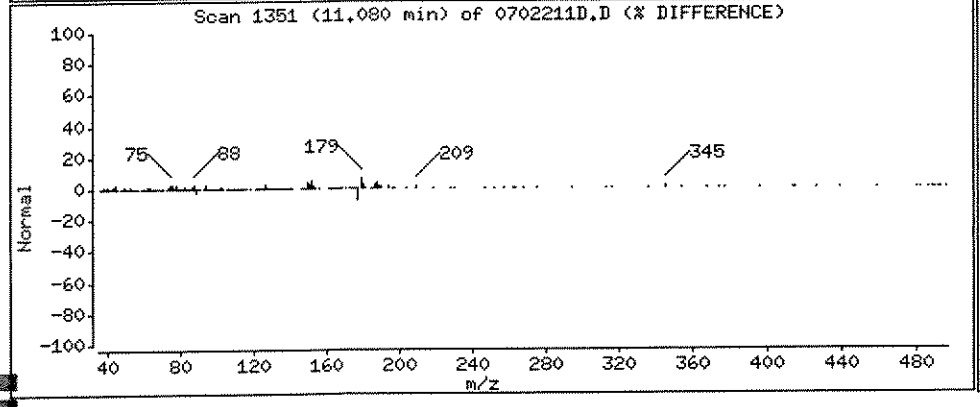
Column phase: fused silica Column diameter: 0.25

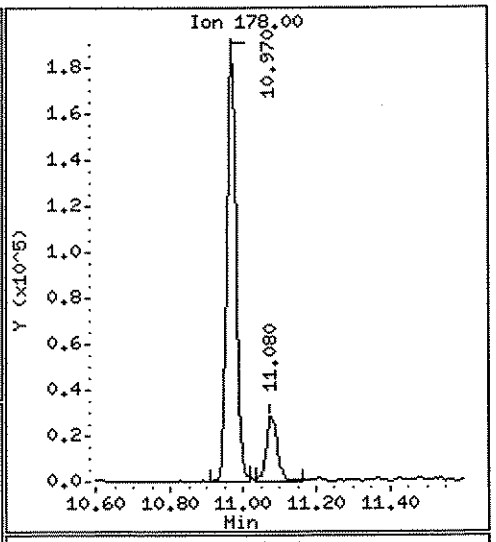
107 Anthracene Concentration: 276.9 UG/KG

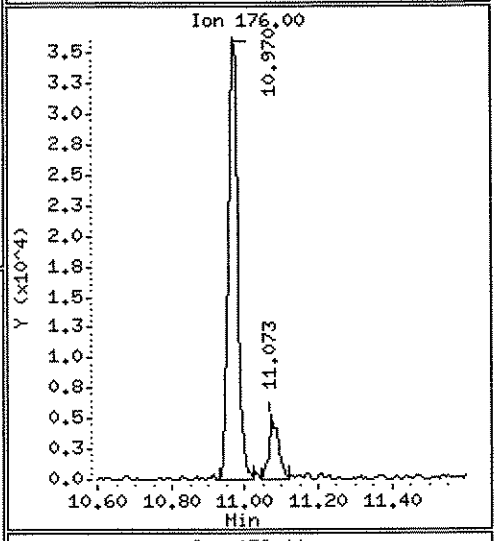


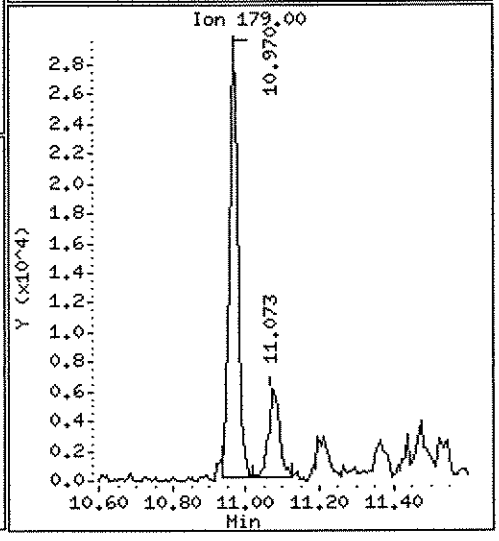












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

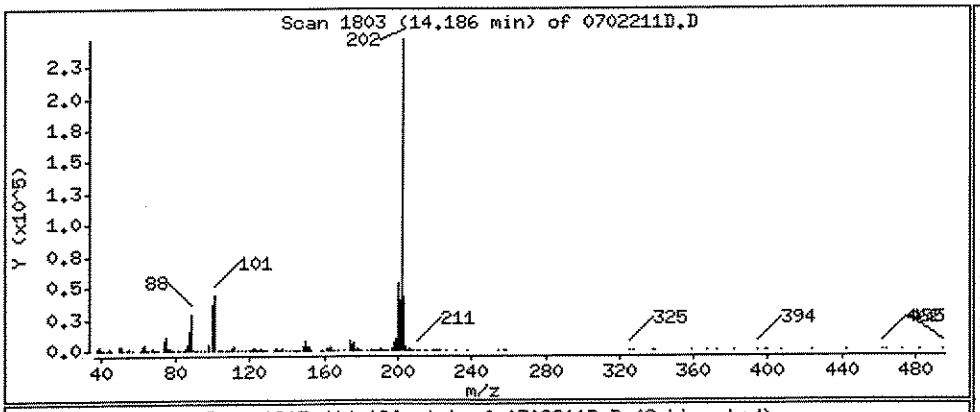
Client ID: 51DUP1S060706 Instrument: bna1.i

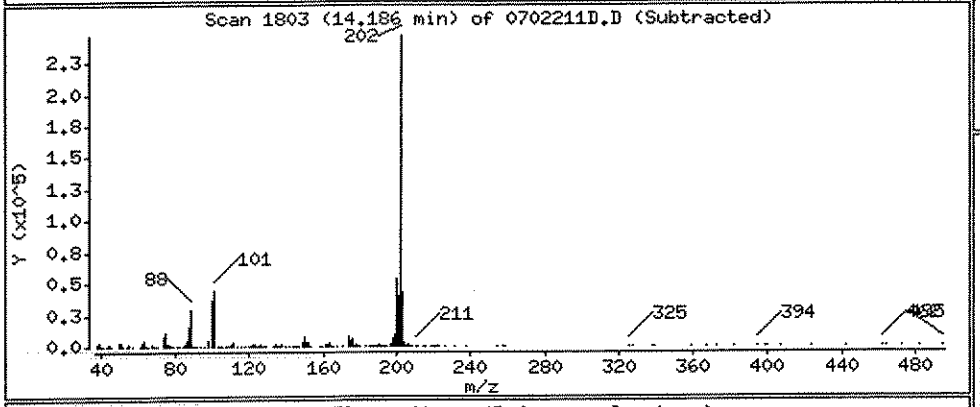
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

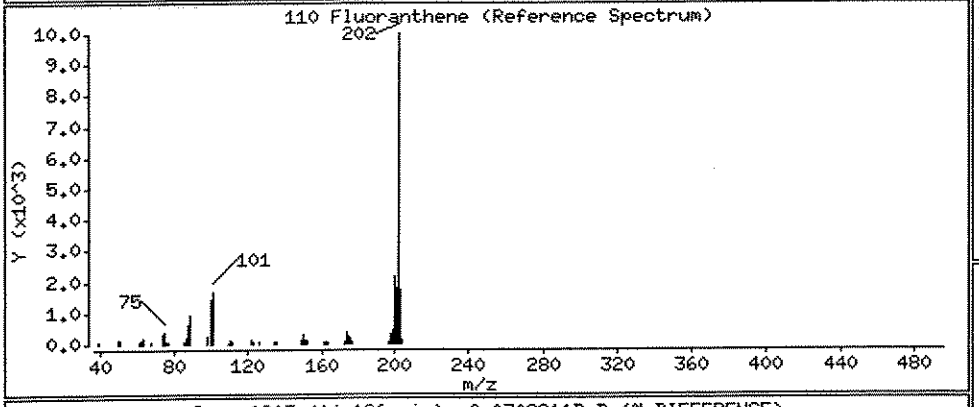
Volume Injected (uL): 0.5 Operator: SDB

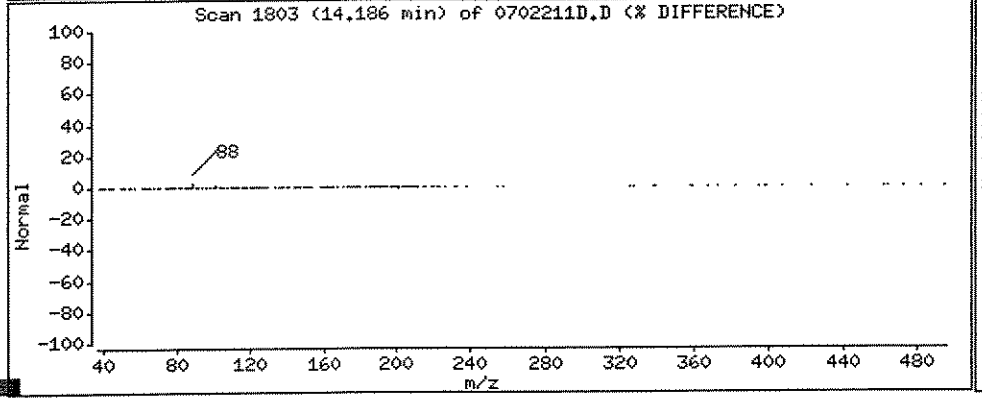
Column phase: fused silica Column diameter: 0.25

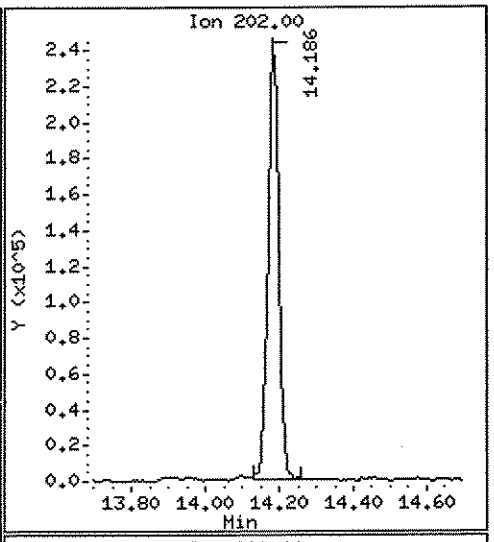
110 Fluoranthene Concentration: 2363 UG/KG

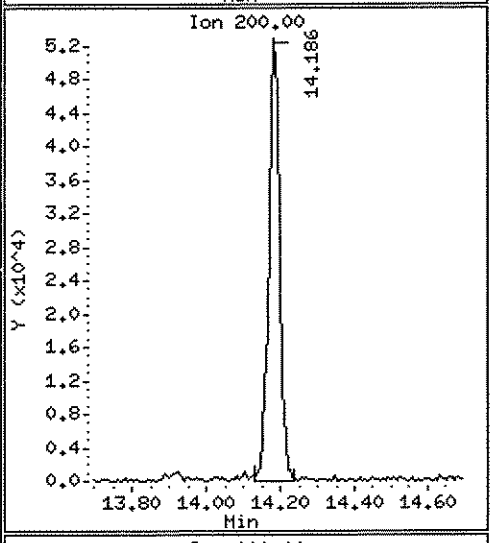


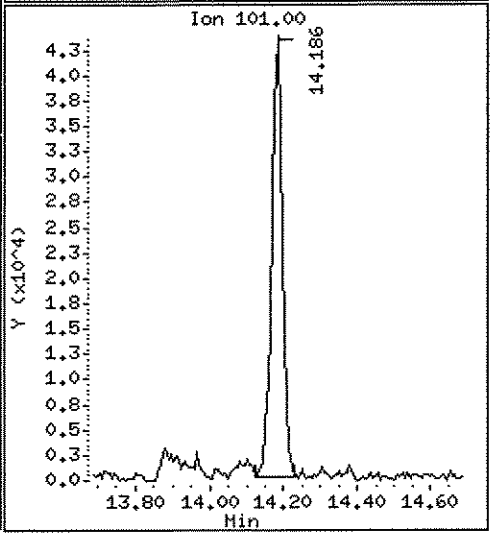












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

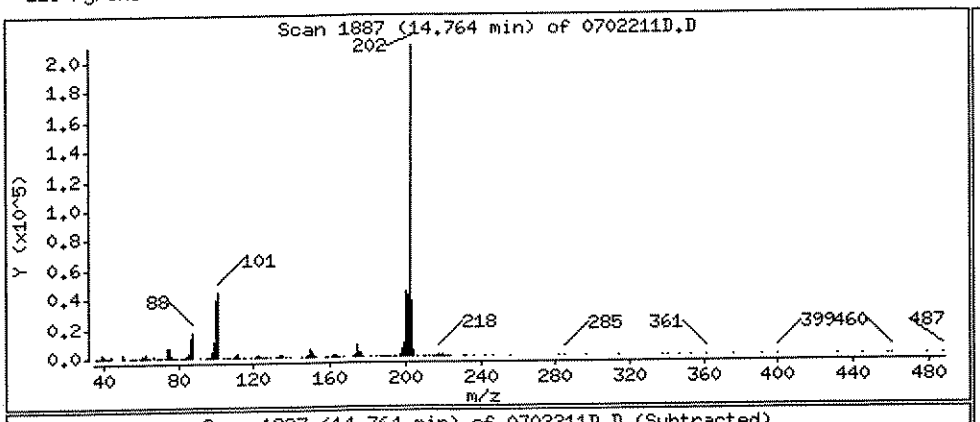
Operator: SDB

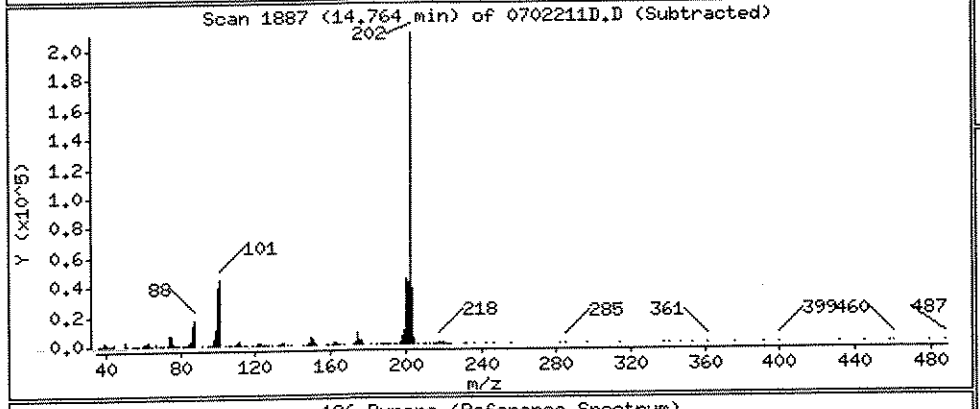
Column phase: fused silica

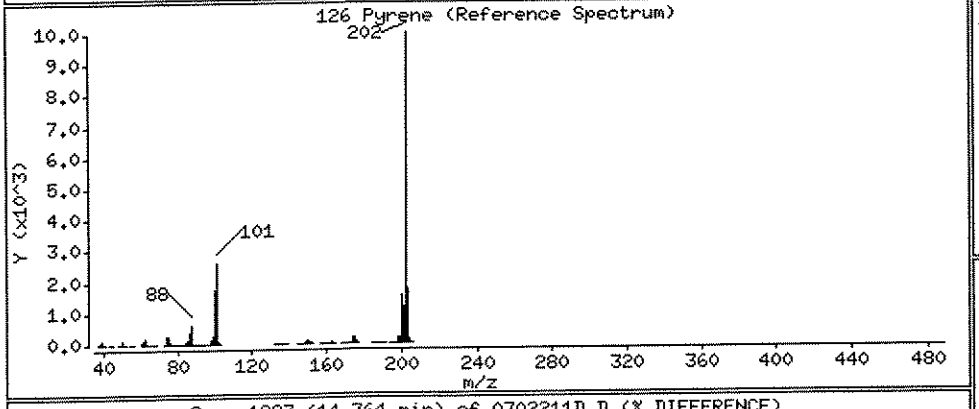
Column diameter: 0.25

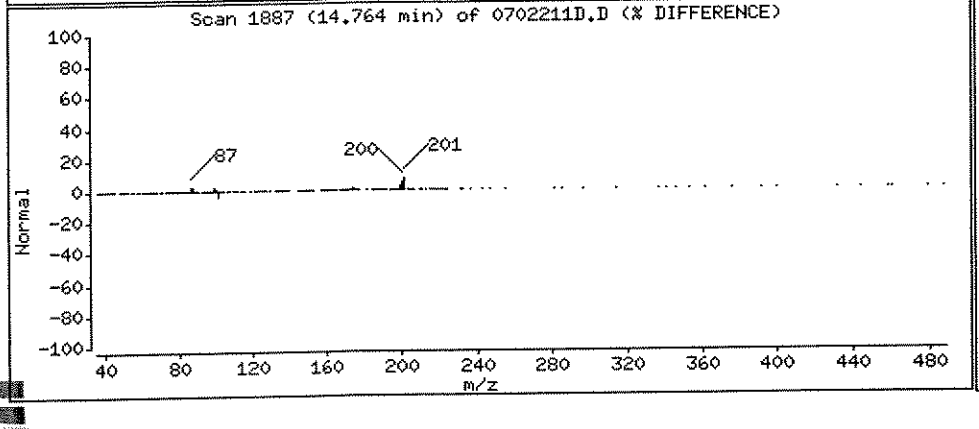
126 Pyrene

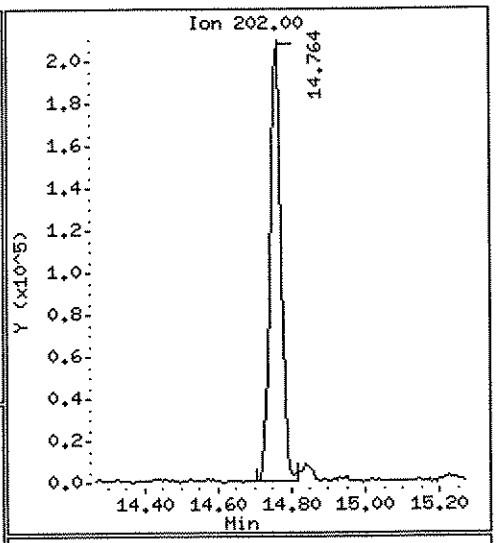
Concentration: 1965 UG/KG

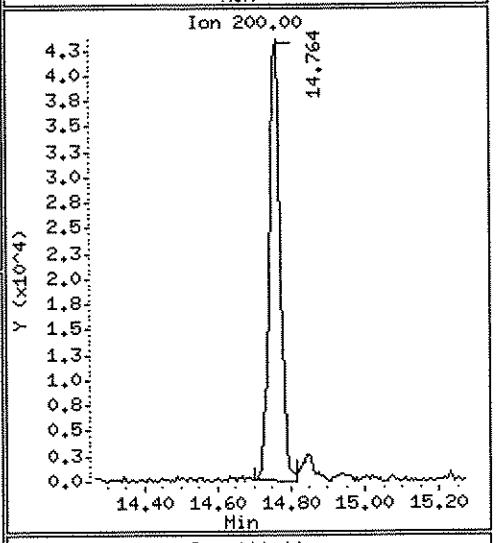


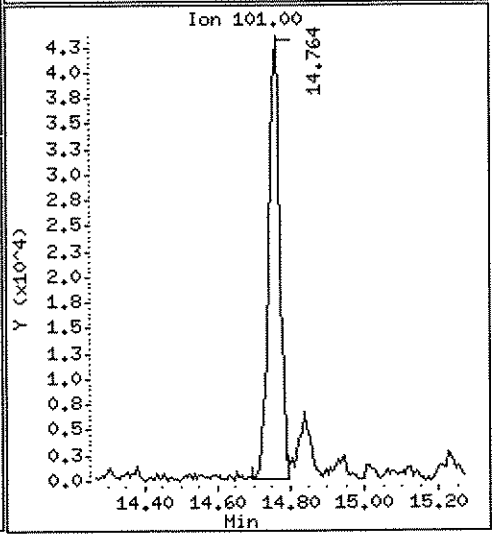












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

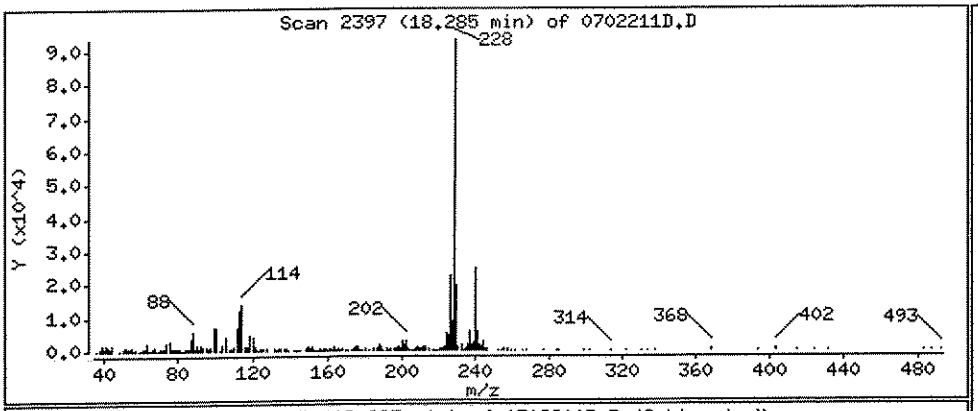
Client ID: 51DUP1S060706 Instrument: bna1.i

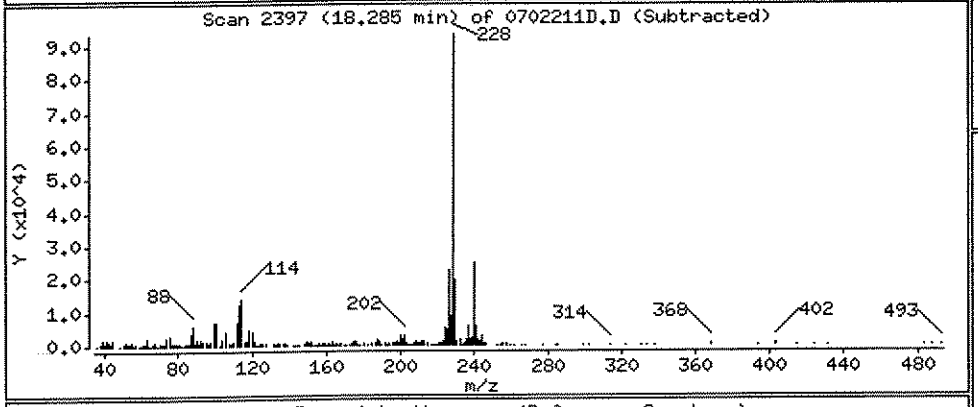
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

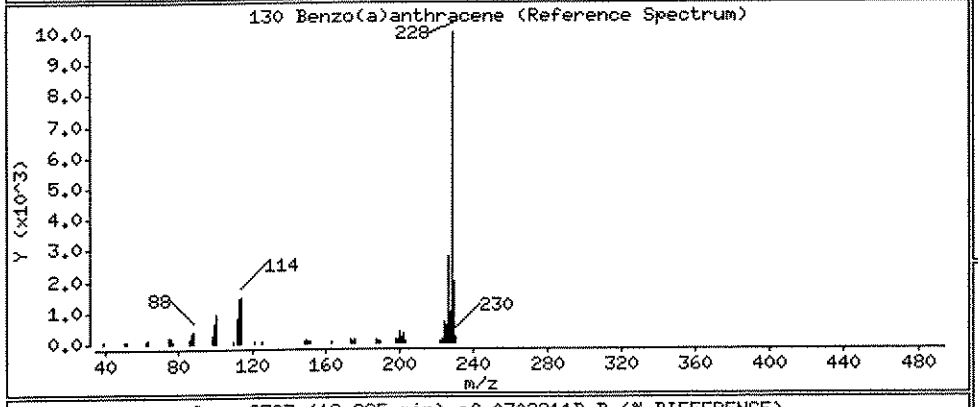
Volume Injected (uL): 0.5 Operator: SDB

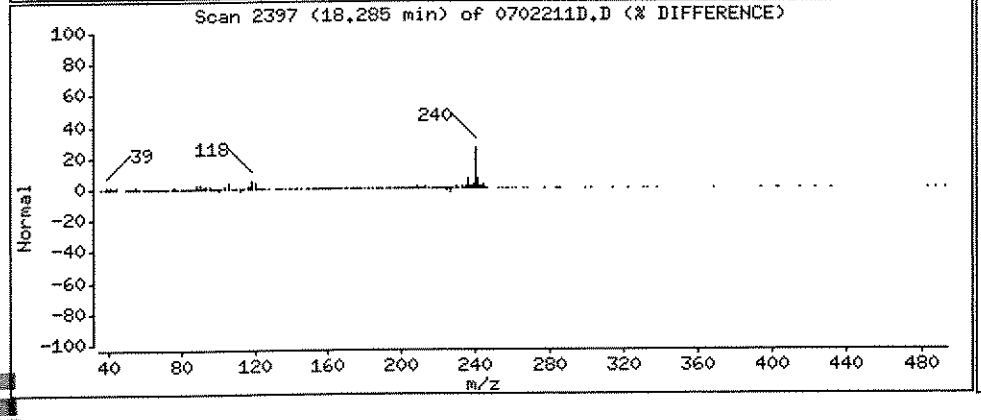
Column phase: fused silica Column diameter: 0.25

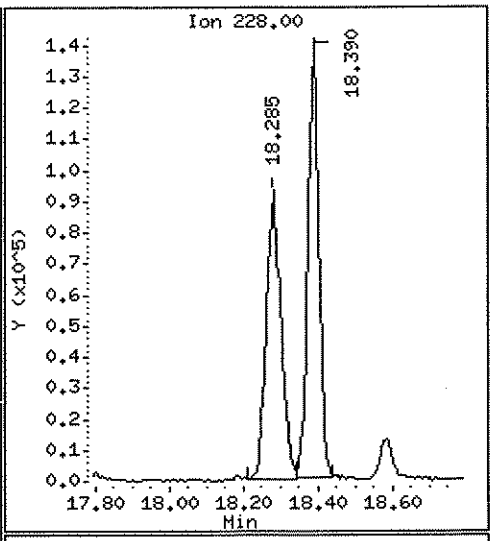
130 Benzo(a)anthracene Concentration: 1395 UG/KG

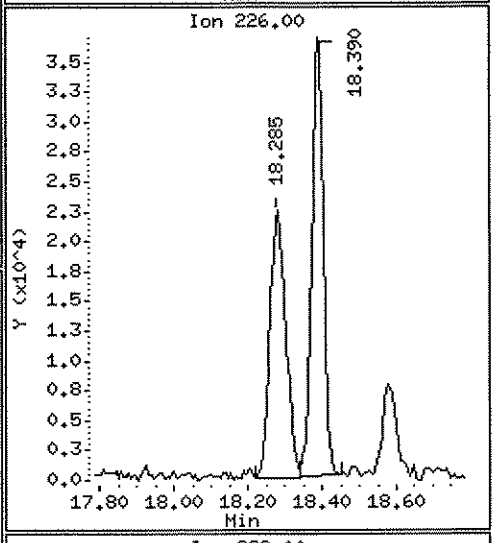


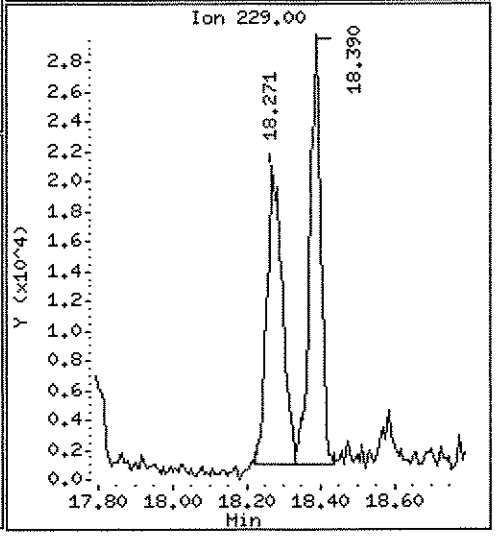












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

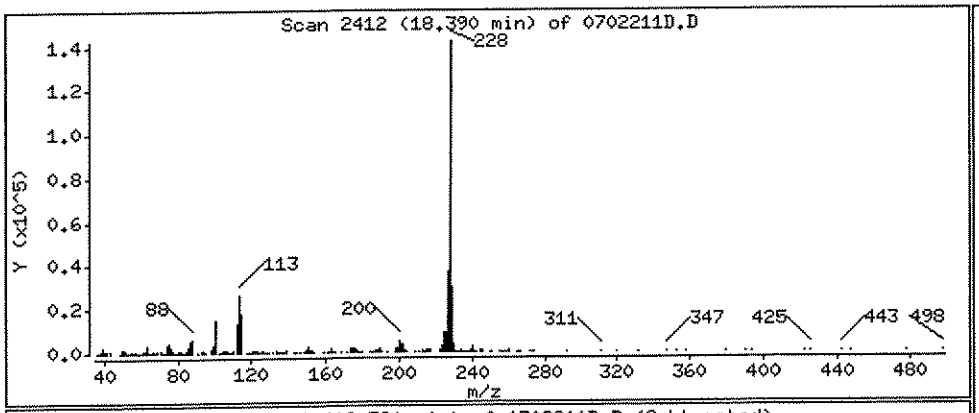
Operator: SDB

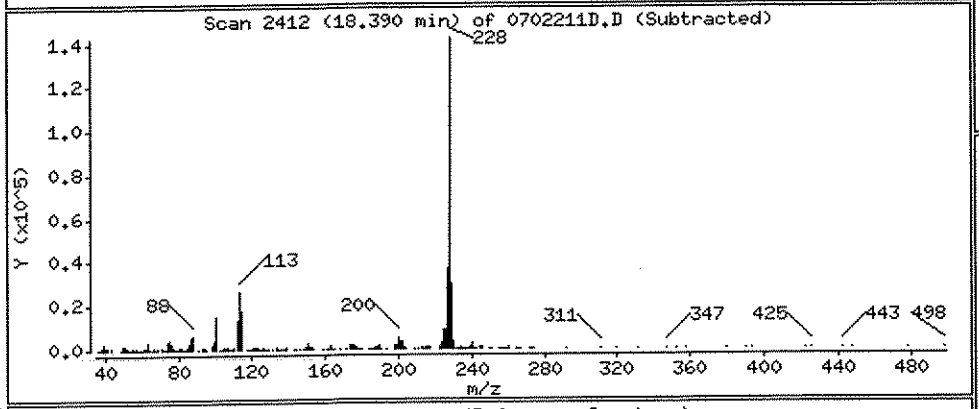
Column phase: fused silica

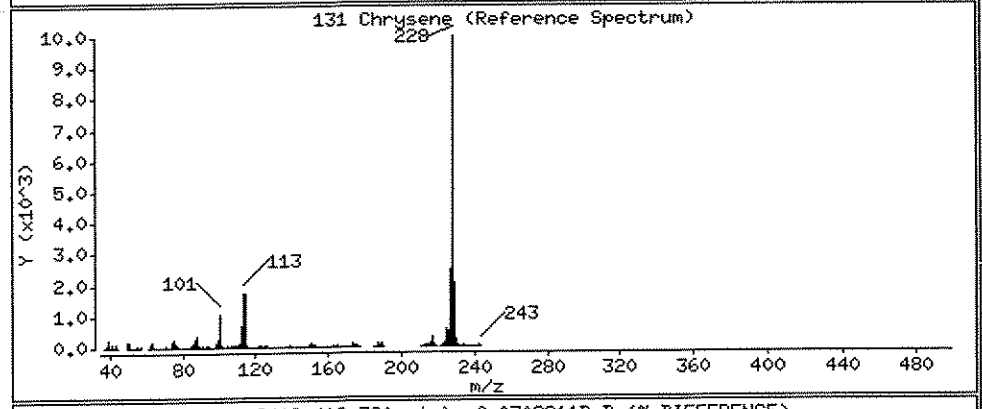
Column diameter: 0.25

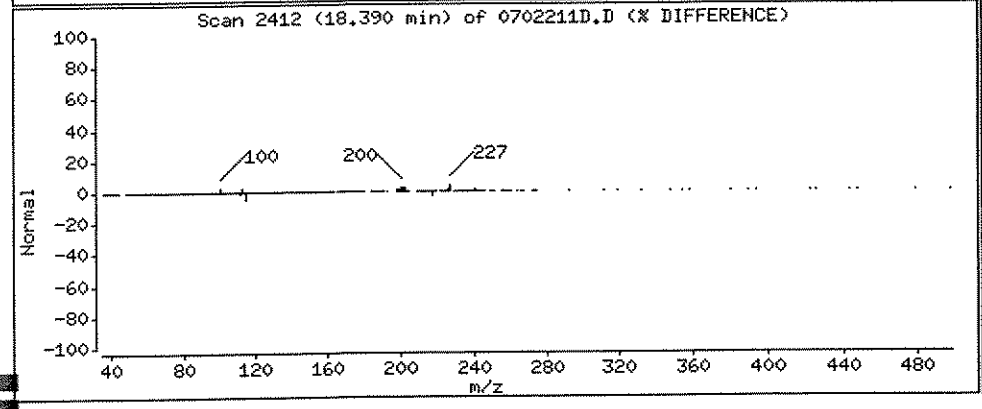
131 Chrysene

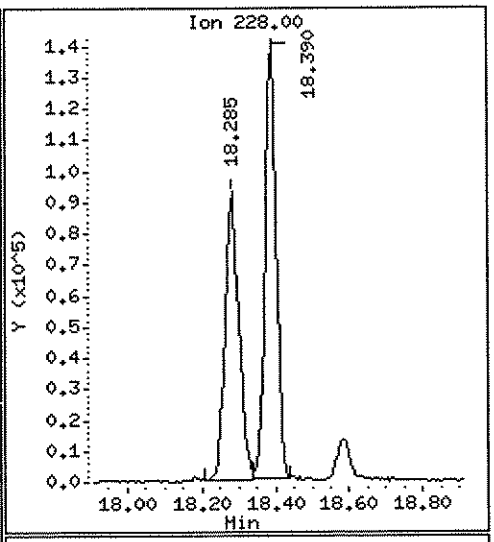
Concentration: 1777 UG/KG

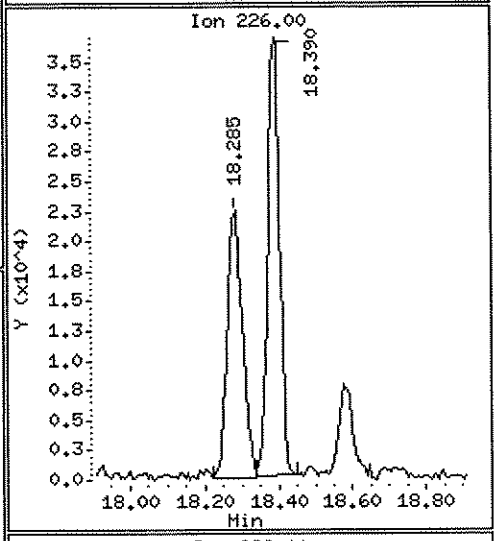


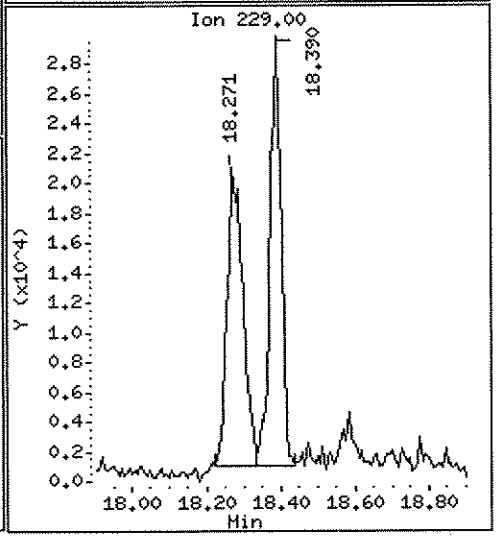












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

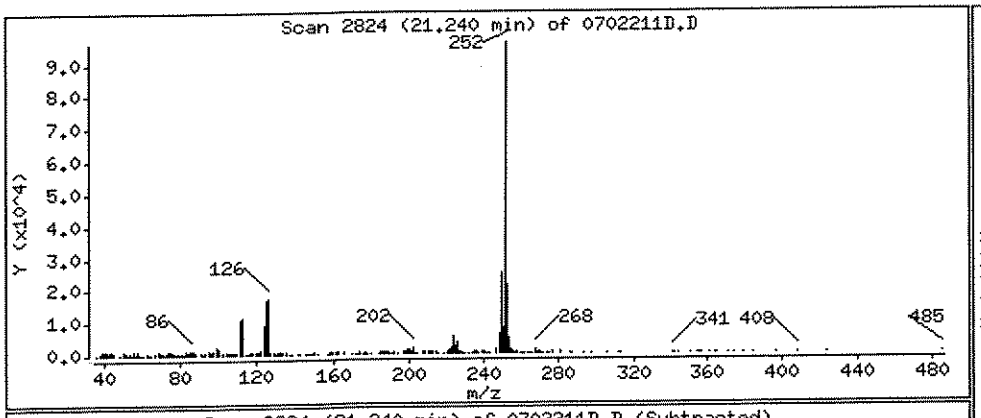
Operator: SDB

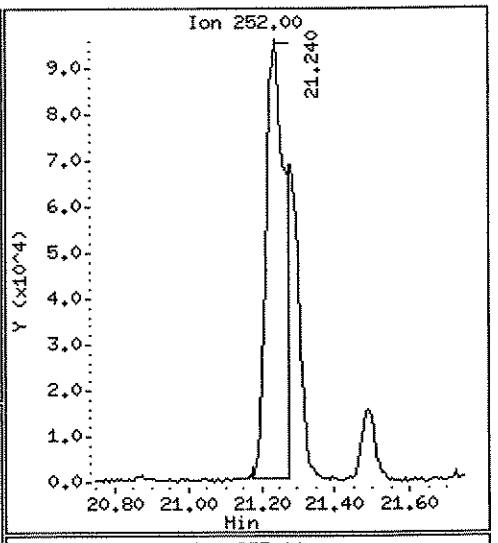
Column phase: fused silica

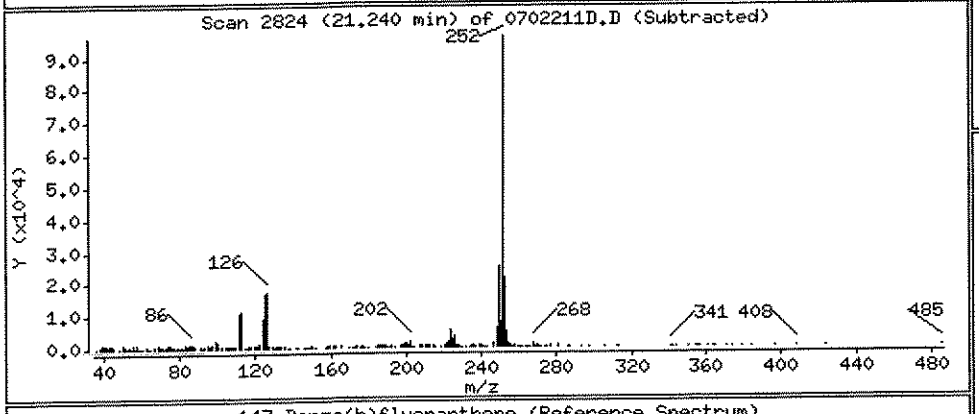
Column diameter: 0.25

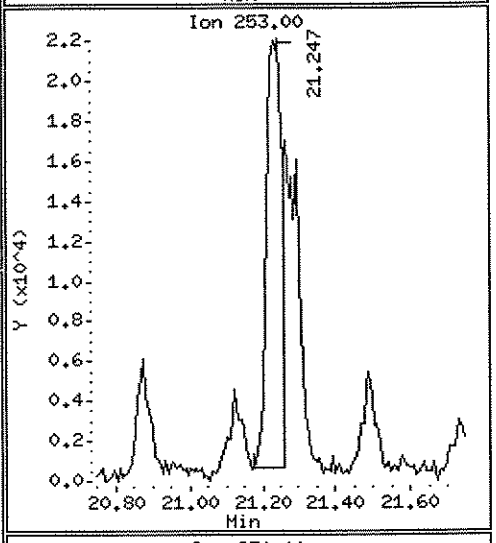
147 Benzo(b)fluoranthene

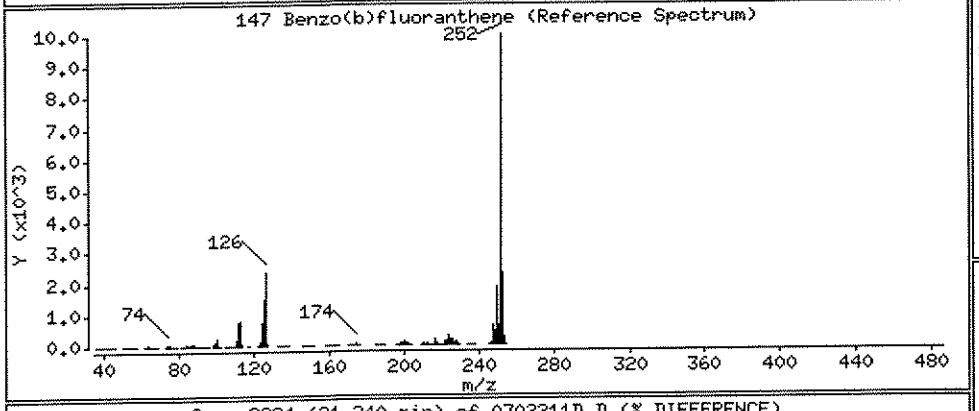
Concentration: 1969 UG/KG

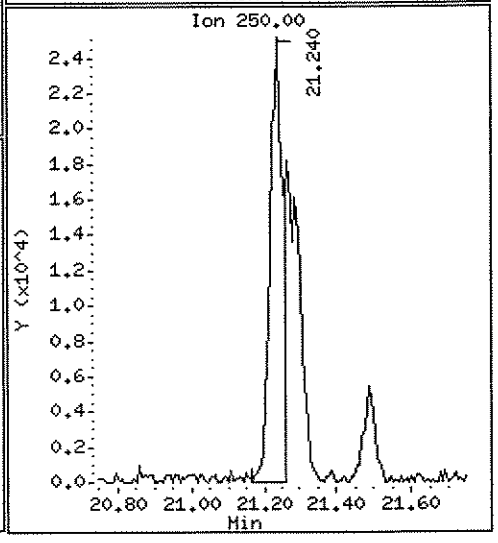


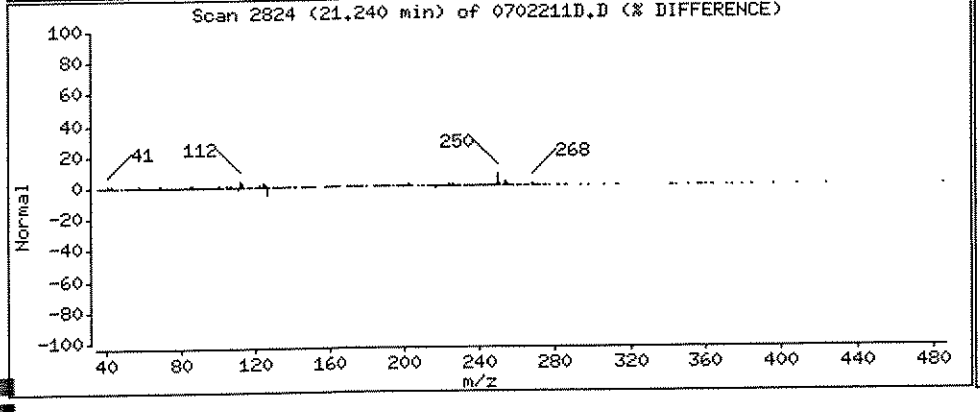












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

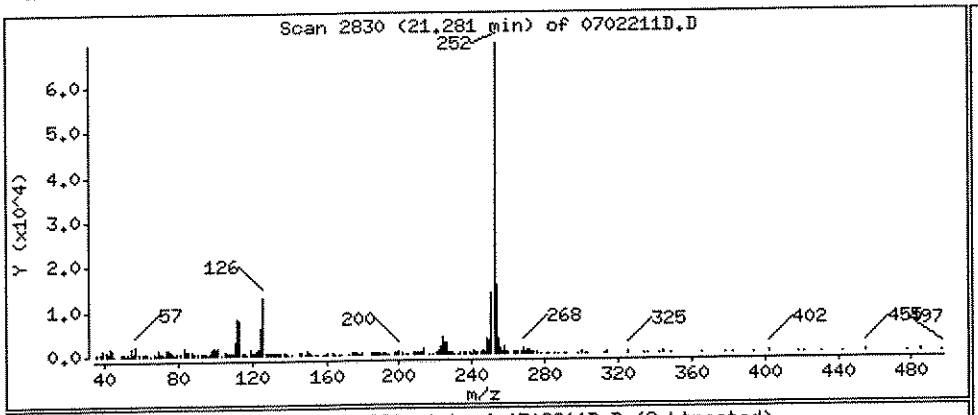
Operator: SDB

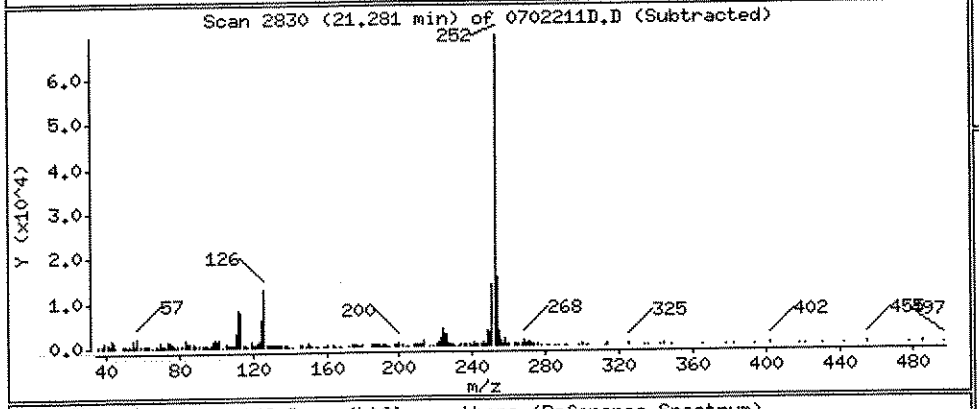
Column phase: fused silica

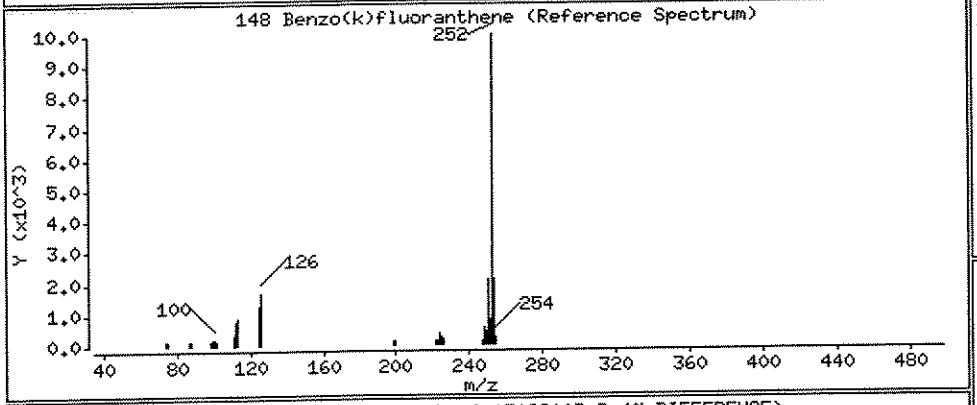
Column diameter: 0.25

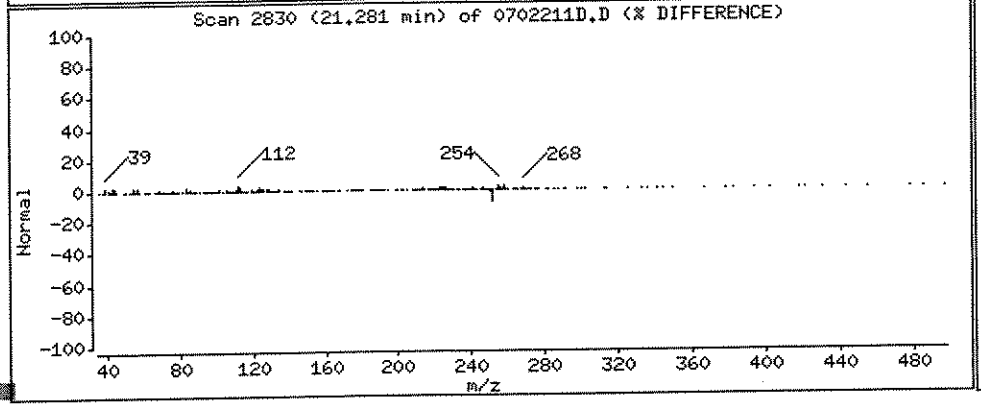
148 Benzo(k)fluoranthene

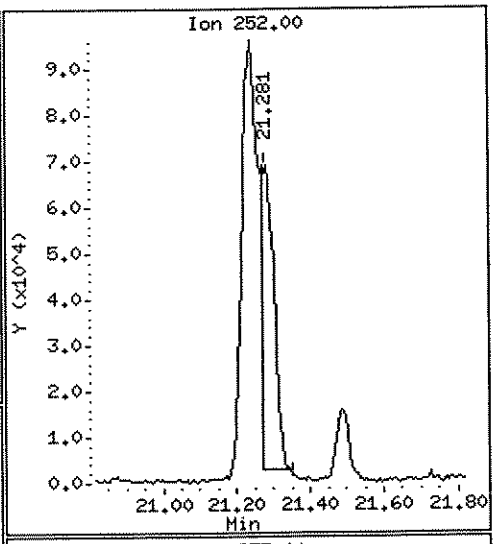
Concentration: 821.7 UG/KG

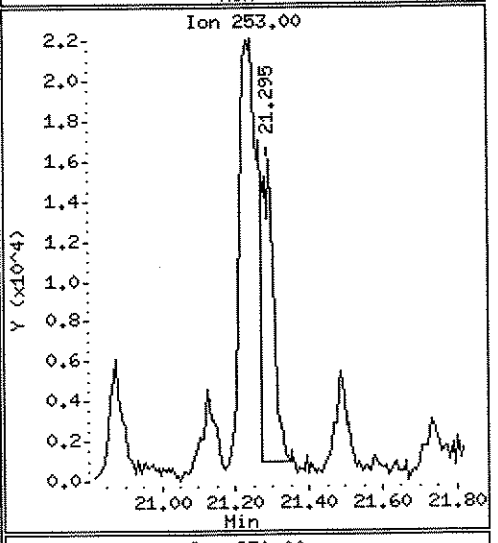


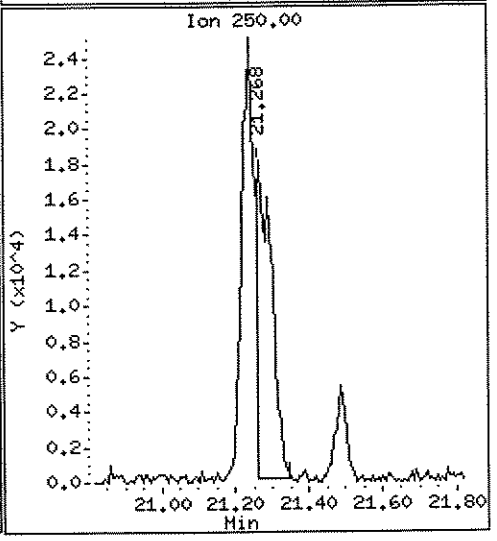












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

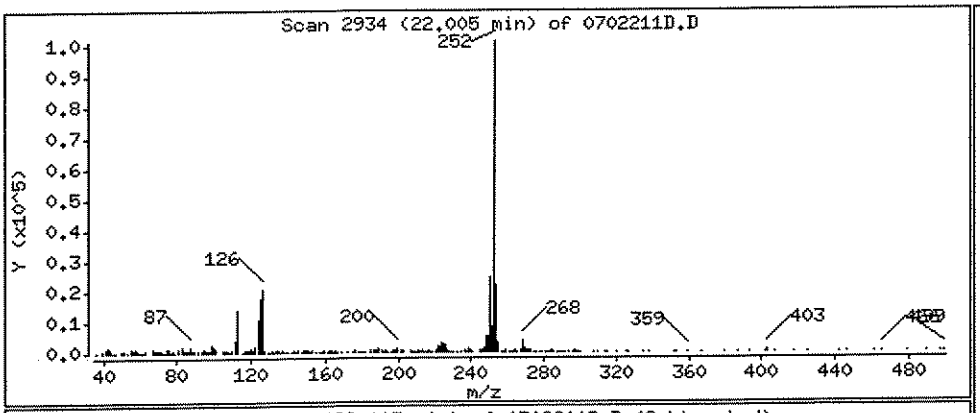
Operator: SDB

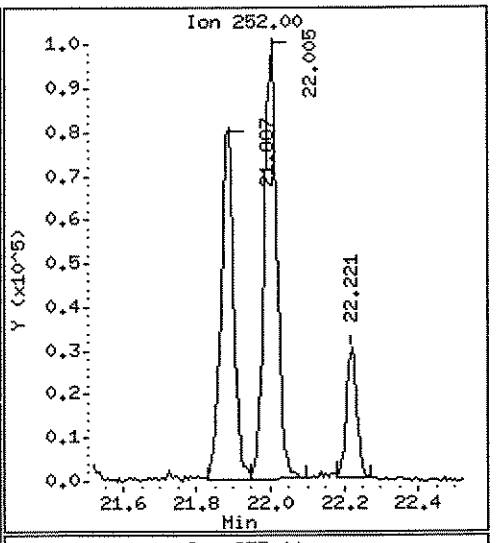
Column phase: fused silica

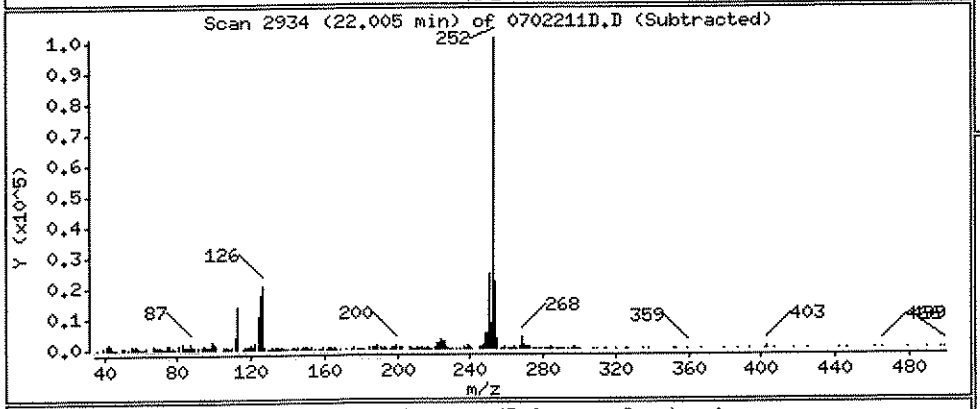
Column diameter: 0.25

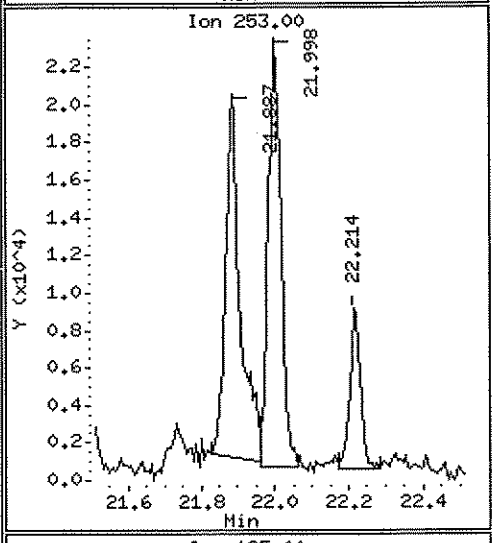
149 Benzo(a)pyrene

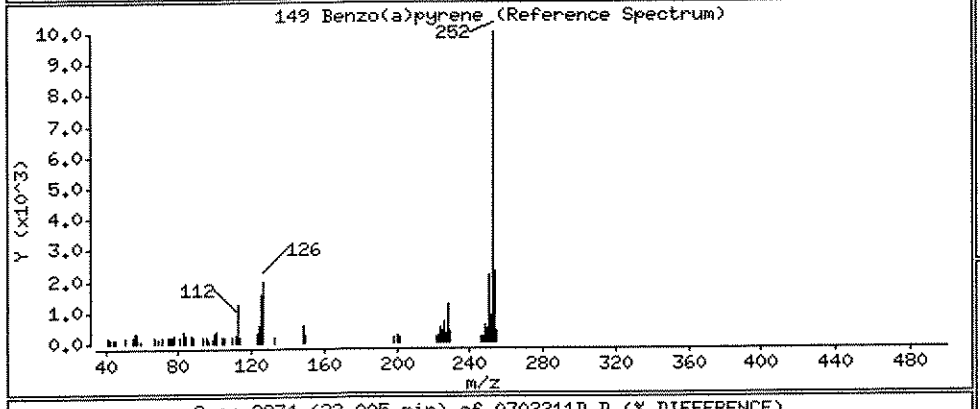
Concentration: 1725 UG/KG

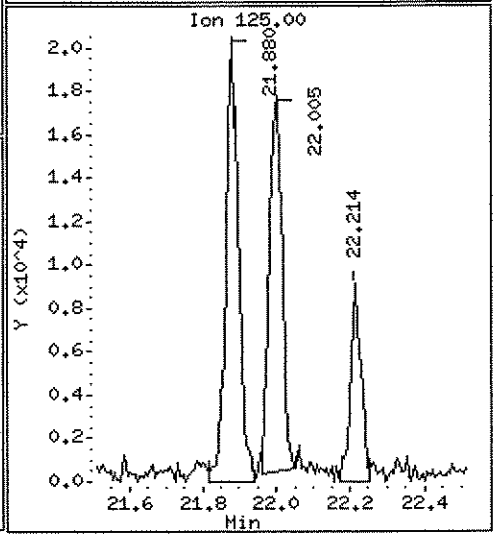


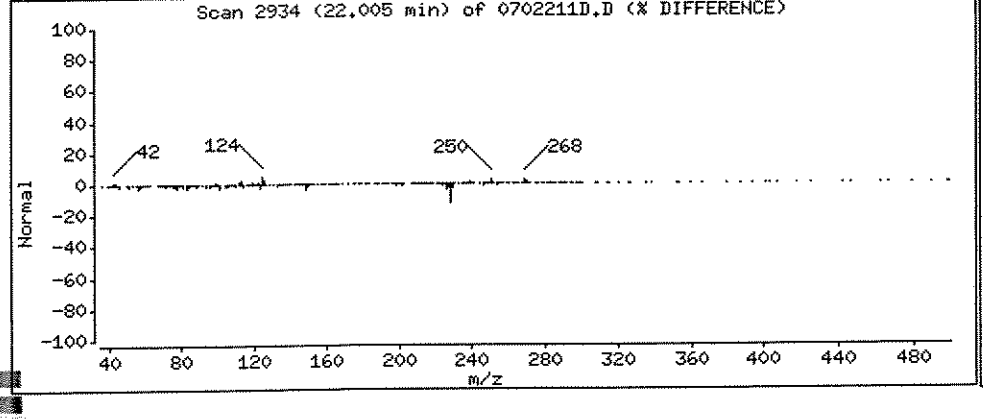












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

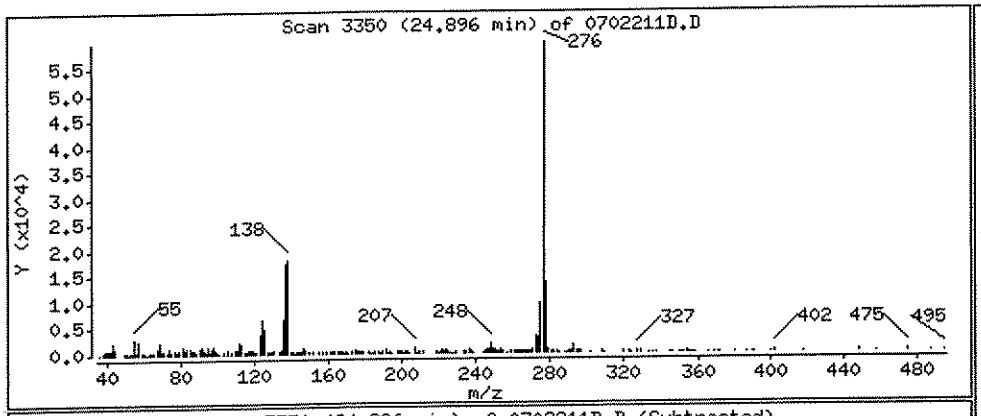
Operator: SDB

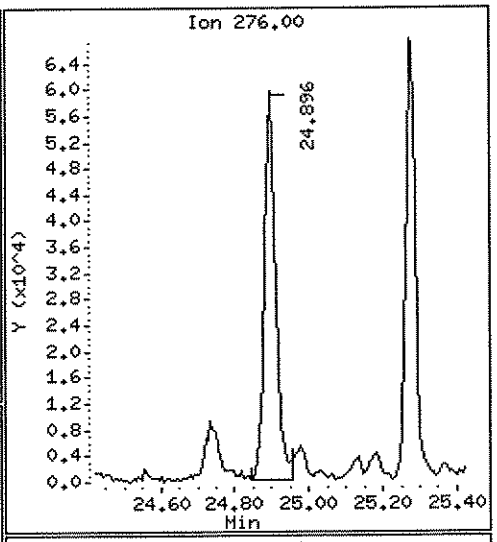
Column phase: fused silica

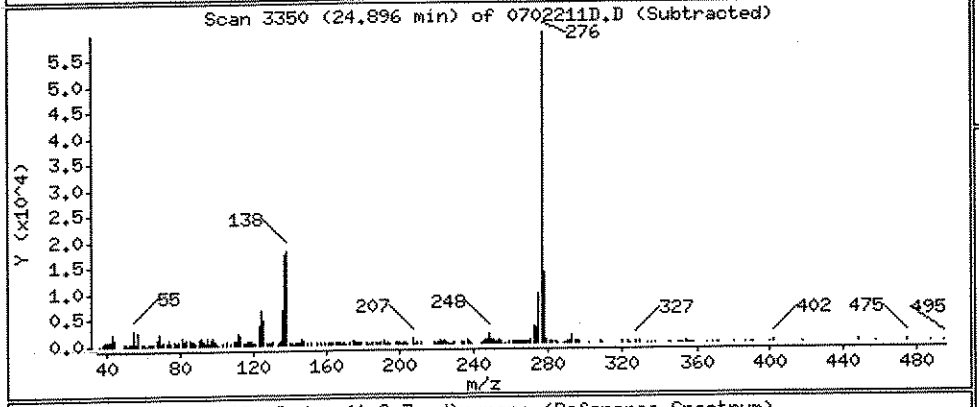
Column diameter: 0.25

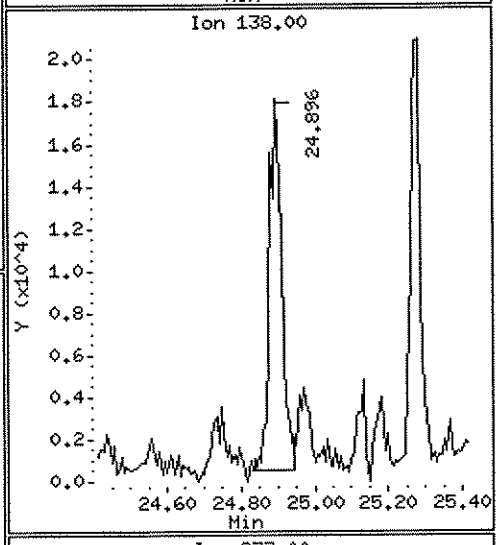
150 Indeno(1,2,3-cd)pyrene

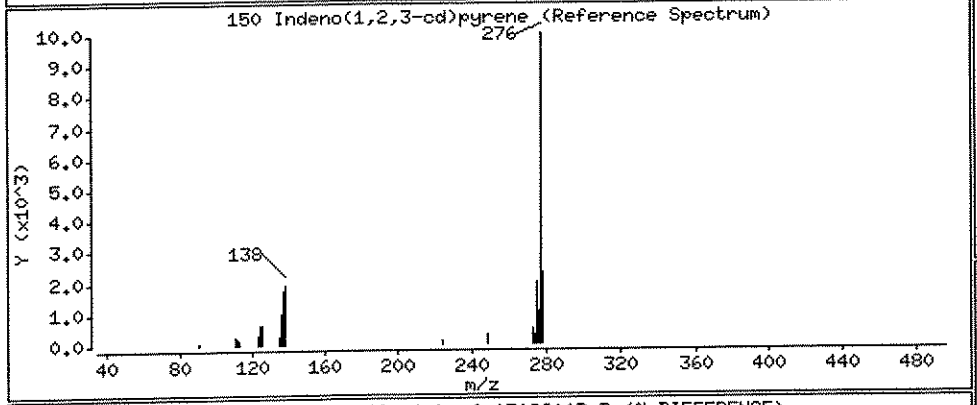
Concentration: 1020 UG/KG

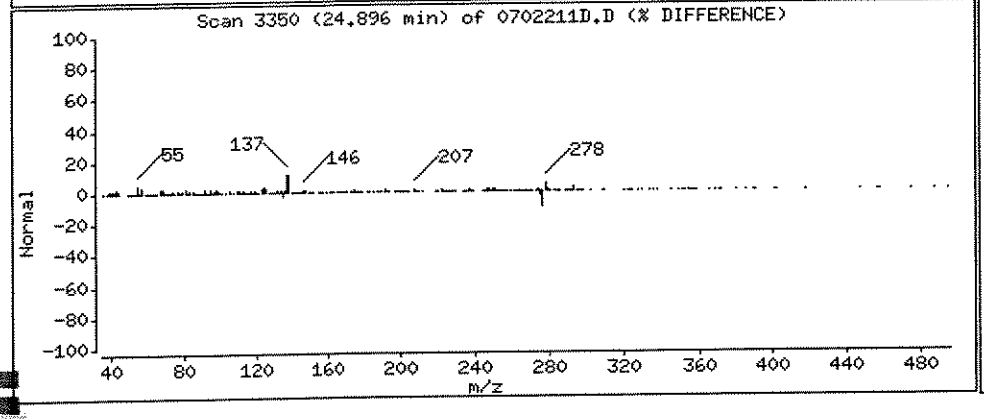


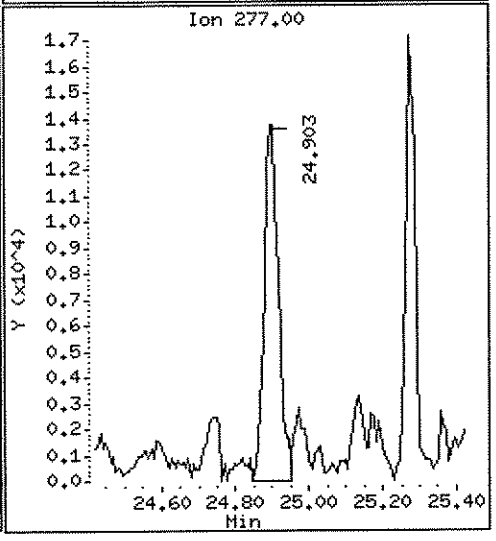












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

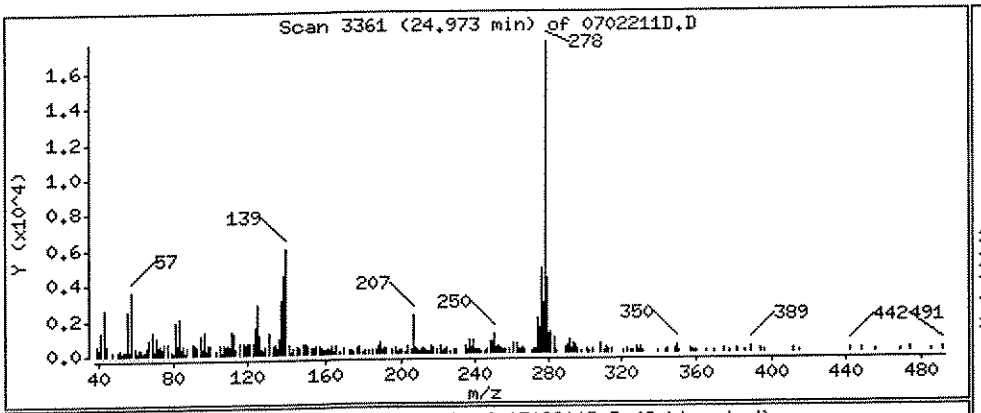
Operator: SDB

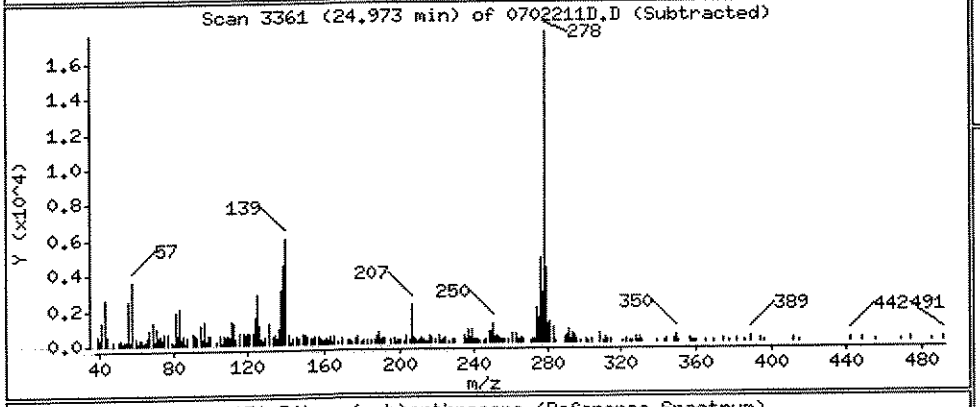
Column phase: fused silica

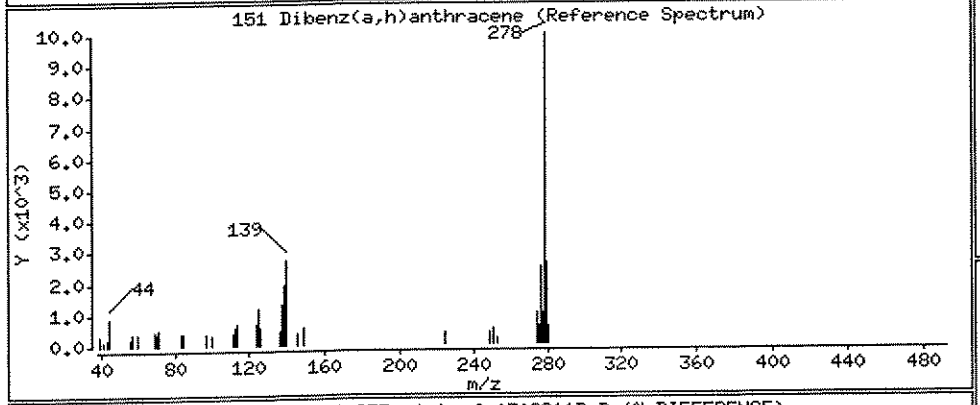
Column diameter: 0.25

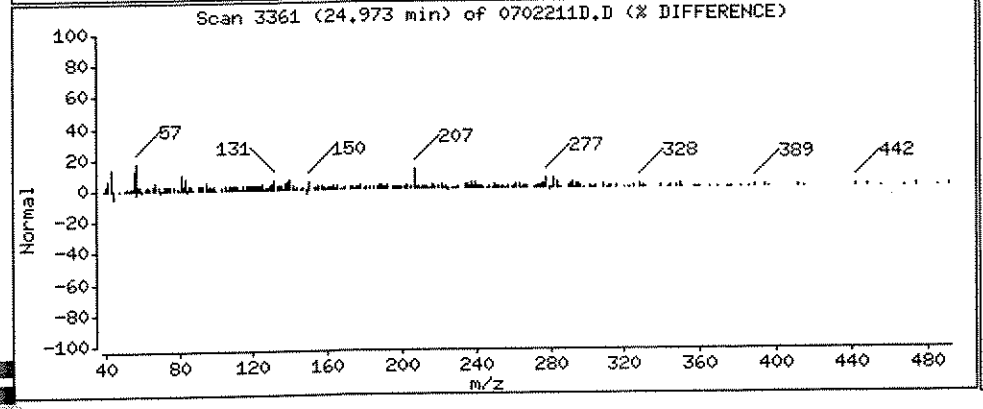
151 Dibenz(a,h)anthracene

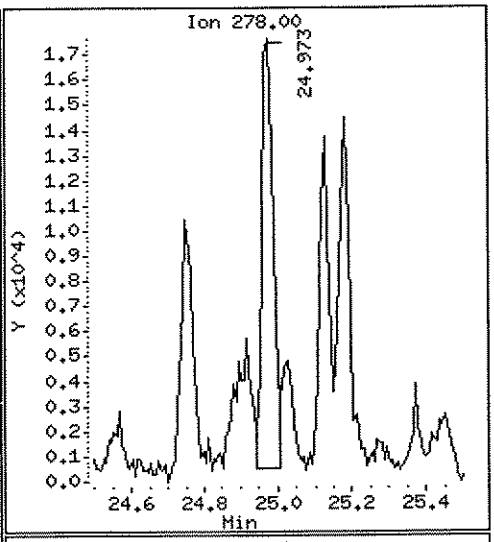
Concentration: 296.8 UG/KG

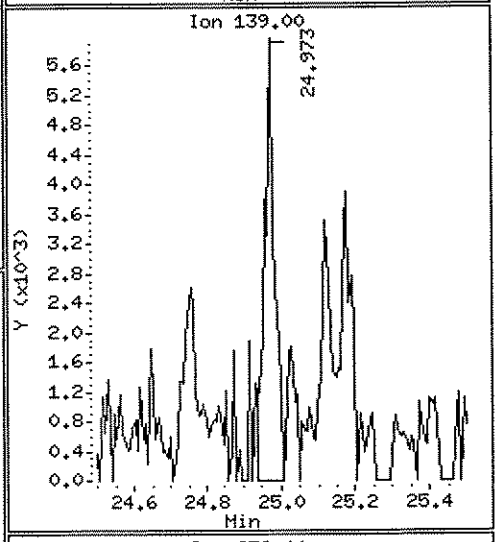


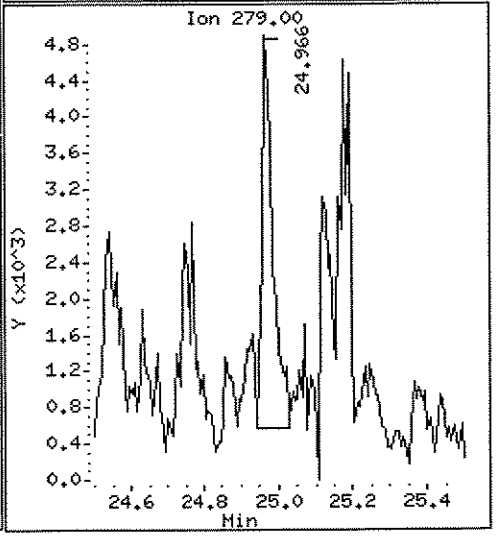












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

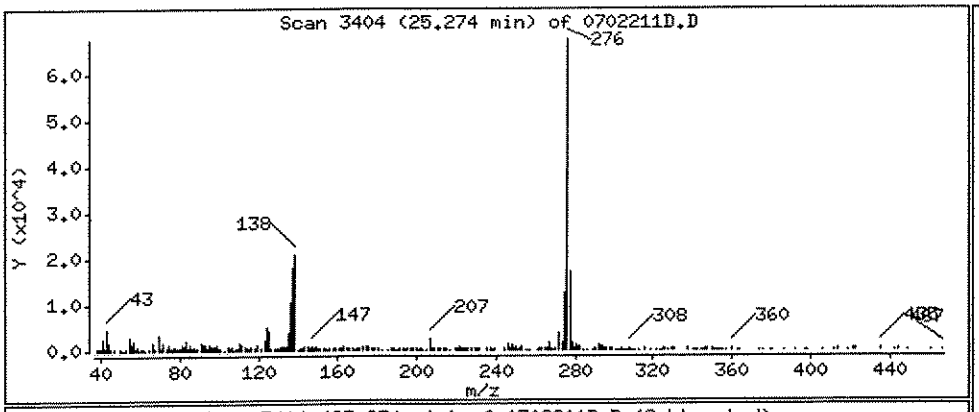
Client ID: 51DUP1S060706 Instrument: bna1.i

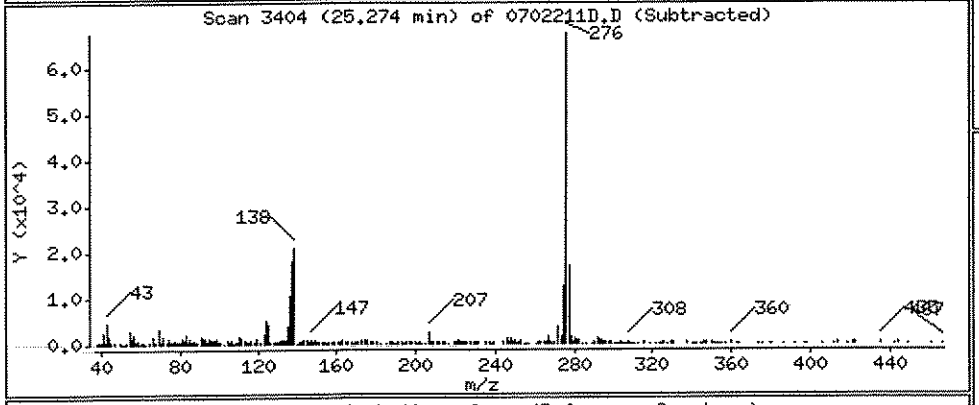
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

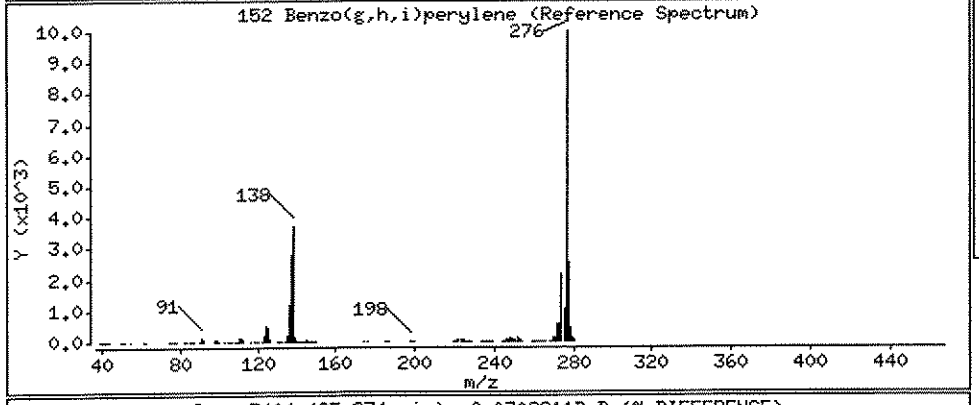
Volume Injected (uL): 0.5 Operator: SDB

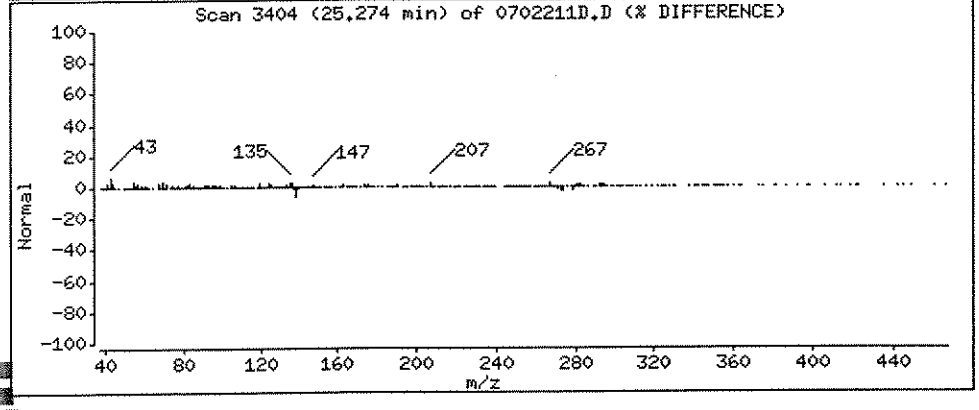
Column phase: fused silica Column diameter: 0.25

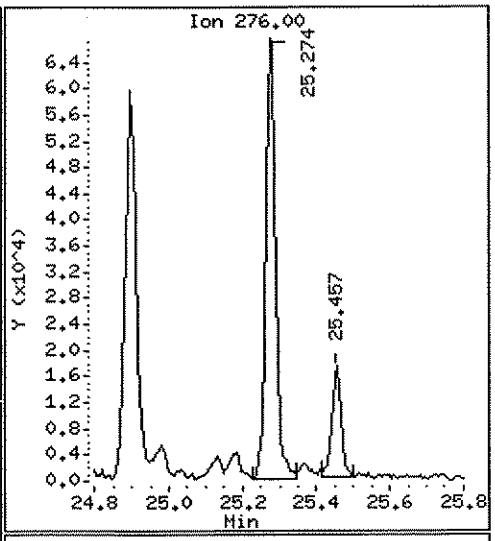
152 Benzo(g,h,i)perylene Concentration: 958.6 UG/KG

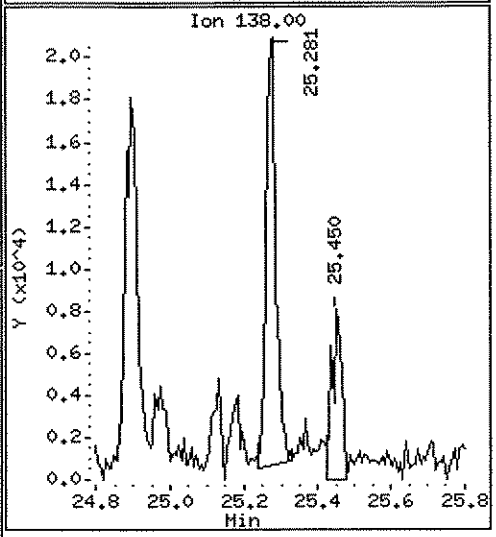












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FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF1: CAL001 RF2: APPC002 RF5: APPC005
RF10: APPC010 RF20: APPC020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Acenaphthene	1.196	1.253	1.229	1.193	1.233
Acenaphthylene	1.804	1.774	1.835	1.768	1.809
Anthracene	1.183	1.234	1.170	1.184	1.156
Benzo(a)anthracene	1.257	1.305	1.241	1.252	1.336
Benzo(b)fluoranthene	0.944	1.163	1.087	1.164	1.274
Benzo(k)fluoranthene	1.126	1.208	1.248	1.345	1.325
Benzo(g,h,i)perylene	0.758	0.895	0.887	0.905	1.029
Benzo(a)pyrene	0.826	0.928	0.974	1.022	1.117
Chrysene	1.056	1.160	1.158	1.178	1.230
Dibenz(a,h)anthracene	0.523	0.636	0.650	0.694	0.833
Fluoranthene	1.064	1.157	1.166	1.162	1.188
Fluorene	1.281	1.282	1.282	1.271	1.326
Indeno(1,2,3-cd)pyrene	0.466	0.654	0.650	0.683	0.873
2-Methylnaphthalene	0.587	0.678	0.578	0.610	0.624
1-Methylnaphthalene			0.609	0.582	0.545
Naphthalene	1.093	1.128	1.088	1.086	1.091
Phenanthrene	1.199	1.198	1.174	1.162	1.186
Pyrene	1.616	1.642	1.613	1.577	1.707
Nitrobenzene-d5	0.376	0.396	0.412	0.440	0.474
2-Fluorobiphenyl	1.394	1.388	1.399	1.321	1.365
Terphenyl-d14	0.985	0.980	1.003	1.001	1.081

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF30: APPC030 RF40: APPC050 RF50: APPC050
RF60: CALB060 RF70: APPC070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Acenaphthene	1.178	1.167	1.117	1.124	1.119
Acenaphthylene	1.704	1.701	1.598	1.634	1.605
Anthracene	1.133	1.125	1.104	1.096	1.070
Benzo(a)anthracene	1.288	1.302	1.360	1.285	1.306
Benzo(b)fluoranthene	1.270	1.285	1.214	1.232	1.322
Benzo(k)fluoranthene	1.282	1.310	1.185	1.291	1.355
Benzo(g,h,i)perylene	1.036	0.970	0.952	1.021	0.947
Benzo(a)pyrene	1.099	1.132	1.084	1.109	1.134
Chrysene	1.183	1.206	1.204	1.192	1.204
Dibenz(a,h)anthracene	0.885	0.891	0.850	0.934	0.878
Fluoranthene	1.139	1.148	1.124	1.147	1.106
Fluorene	1.278	1.256	1.222	1.232	1.183
Indeno(1,2,3-cd)pyrene	0.871	0.885	0.888	0.959	0.884
2-Methylnaphthalene	0.592	0.620	0.507	0.560	0.508
1-Methylnaphthalene	0.508		0.494		0.473
Naphthalene	1.018	1.044	0.881	0.957	0.921
Phenanthrene	1.156	1.162	1.092	1.110	1.110
Pyrene	1.601	1.589	1.560	1.485	1.694
Nitrobenzene-d5	0.458	0.474	0.417	0.456	0.443
2-Fluorobiphenyl	1.282	1.292	1.225	1.202	1.211
Terphenyl-d14	1.005	1.010	1.049	0.974	1.072

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF80: CALB080 RF90: CALB090 RF100: APPC100

COMPOUND	RF80	RF90	RF100
Acenaphthene	1.087	1.081	1.032
Acenaphthylene	1.566	1.566	1.500
Anthracene	1.071	1.052	1.059
Benzo(a)anthracene	1.280	1.260	1.282
Benzo(b)fluoranthene	1.341	1.326	1.396
Benzo(k)fluoranthene	1.363	1.364	1.218
Benzo(g,h,i)perylene	1.002	0.979	0.847
Benzo(a)pyrene	1.129	1.137	1.120
Chrysene	1.161	1.192	1.177
Dibenz(a,h)anthracene	0.940	0.953	0.893
Fluoranthene	1.095	1.074	1.110
Fluorene	1.160	1.137	1.139
Indeno(1,2,3-cd)pyrene	0.918	0.934	0.881
2-Methylnaphthalene	0.531	0.523	0.512
1-Methylnaphthalene			0.480
Naphthalene	0.905	0.883	0.833
Phenanthrene	1.102	1.081	1.094
Pyrene	1.624	1.609	1.450
Nitrobenzene-d5	0.449	0.439	0.443
2-Fluorobiphenyl	1.194	1.159	1.116
Terphenyl-d14	1.020	1.027	0.923

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.15441750	5.8
Acenaphthylene	AVRG		1.68179764	6.6
Anthracene	AVRG		1.12596159	5.0
Benzo(a)anthracene	AVRG		1.28880384	2.6
Benzo(b)fluoranthene	AVRG		1.23217359	9.8
Benzo(k)fluoranthene	AVRG		1.27838553	5.9
Benzo(g,h,i)perylene	AVRG		0.94072987	8.6
Benzo(a)pyrene	AVRG		1.06250762	9.2
Chrysene	AVRG		1.17713137	3.6
Dibenz(a,h)anthracene	LINR	0.00000000	0.91260774	0.996
Fluoranthene	AVRG		1.12912755	3.3
Fluorene	AVRG		1.23471408	5.0
Indeno(1,2,3-cd)pyrene	LINR	0.00000000	0.90651411	0.997
2-Methylnaphthalene	AVRG		0.57146291	9.4
1-Methylnaphthalene	AVRG		0.52716190	10.0
Naphthalene	AVRG		0.99452189	10.2
Phenanthrene	AVRG		1.14048637	3.8
Pyrene	AVRG		1.59746090	4.5
Nitrobenzene-d5	AVRG		0.43665056	6.7
2-Fluorobiphenyl	AVRG		1.27292566	7.5
Terphenyl-d14	AVRG		1.01005240	4.2

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
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Inj Date : 07-FEB-2006 10:38
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A002PPM;;;;;SV3382-2
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.940	4.940	(1.000)	520910	40.0000	
7	Pentachloroethane	167	4.722	4.722	(0.956)	16410	2.00000	2.378(a)
29	o-Toluidine	106	5.330	5.330	(1.079)	62008	2.00000	2.394(a)
* 31	Naphthalene-d8	136	6.160	6.160	(1.000)	1535824	40.0000	
52	1-Methylnaphthalene	141	7.293	7.293	(1.184)	58936	2.00000	2.814(a)
57	Hexachloropropene	213	6.329	6.329	(1.027)	16619	2.00000	2.125(a)
63	1,2,4,5-Tetrachlorobenzene	216	7.457	7.457	(1.211)	34491	2.00000	2.932(a)
* 65	Acenaphthene-d10	164	9.097	9.097	(1.000)	824732	40.0000	
88	m-Dinitrobenzene	168	8.692	8.692	(0.955)	6355	2.00000	1.355(aM)
89	Pentachlorobenzene	250	9.572	9.572	(1.052)	27399	2.00000	2.625(a)
93	5-Nitro-o-toluidine	152	10.484	10.484	(1.152)	11270	2.00000	1.602(a)
* 98	Phenanthrene-d10	188	12.719	12.719	(1.000)	1103815	40.0000	
113	sym-Trinitrobenzene	75	11.566	11.566	(0.909)	3160	2.00000	0.5567(aM)
115	4-Aminobiphenyl	169	12.343	12.343	(0.970)	40435	2.00000	1.796(a)

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Report Date: 08-Feb-2006 09:19

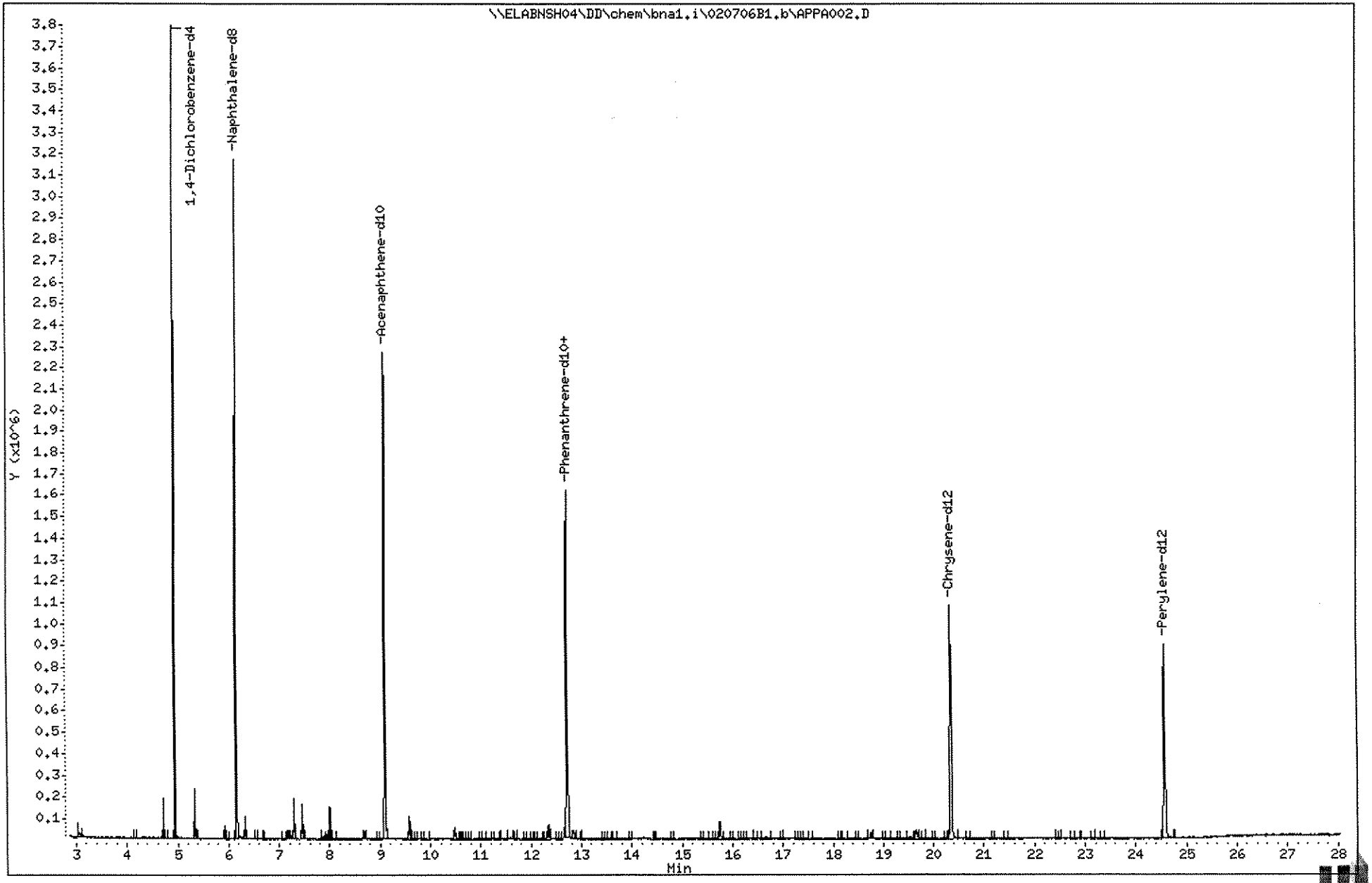
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.671	12.671	(0.996)	5296	2.00000	1.704(aM)
* 127 Chrysene-d12	240	20.348	20.348	(1.000)	770739	40.0000	
140 2-Acetylaminofluorene	181	19.653	19.653	(0.966)	17202	2.00000	1.730(a)
145 Isodrin	193	15.752	15.752	(0.774)	11921	2.00000	2.487(a)
146 Kepone	272	18.744	18.744	(0.921)	5467	2.00000	1.567(aM)
* 149 Perylene-d12	264	24.578	24.578	(1.000)	664886	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Date : 07-FEB-2006 10:38
Client ID: APP9A002PPM
Instrument: bna1.i
Sample Info: APP9A002PPM;;;;;SV3382-2
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000339



Empirical Laboratories

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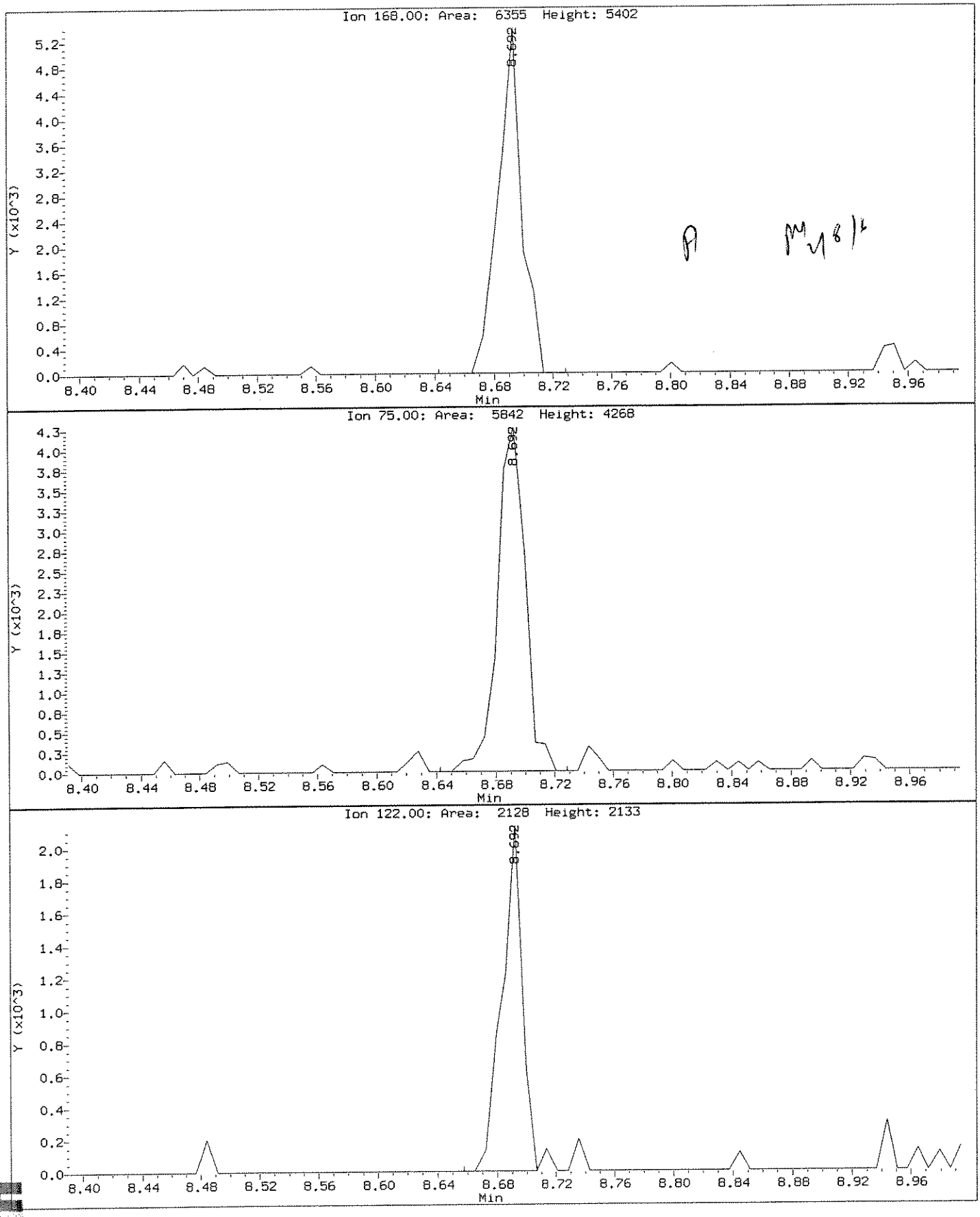
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: m-Dinitrobenzene
CAS Number: 99-65-0



Empirical Laboratories

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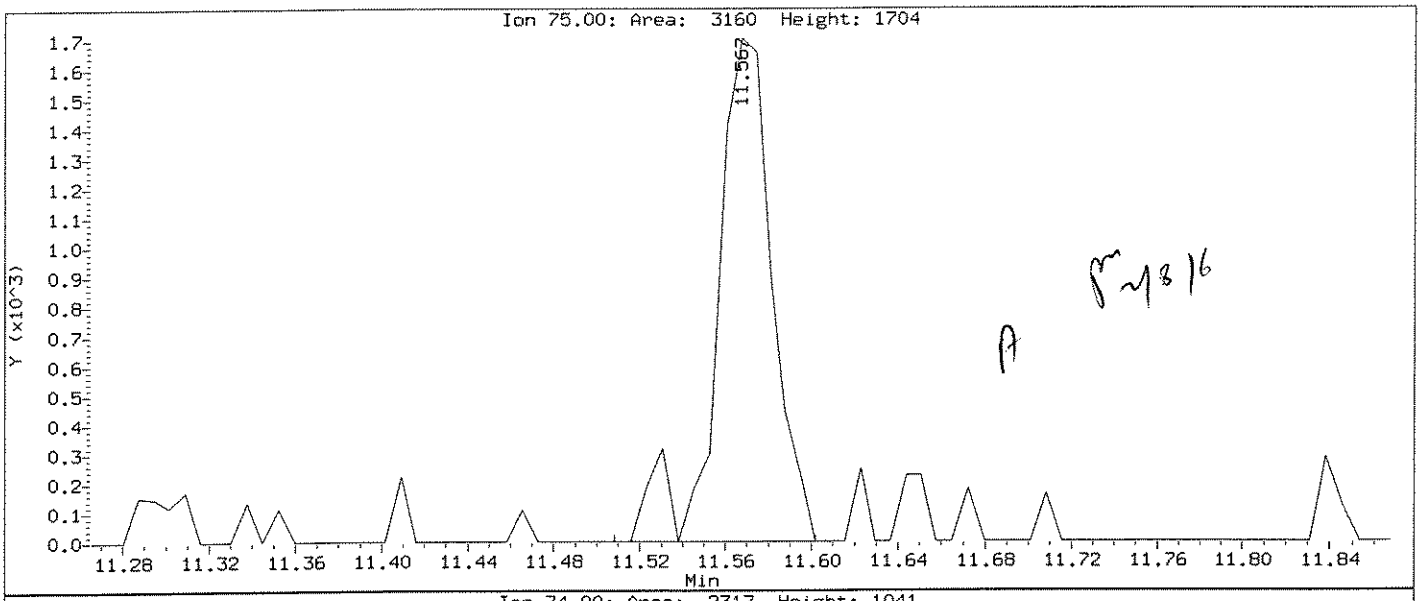
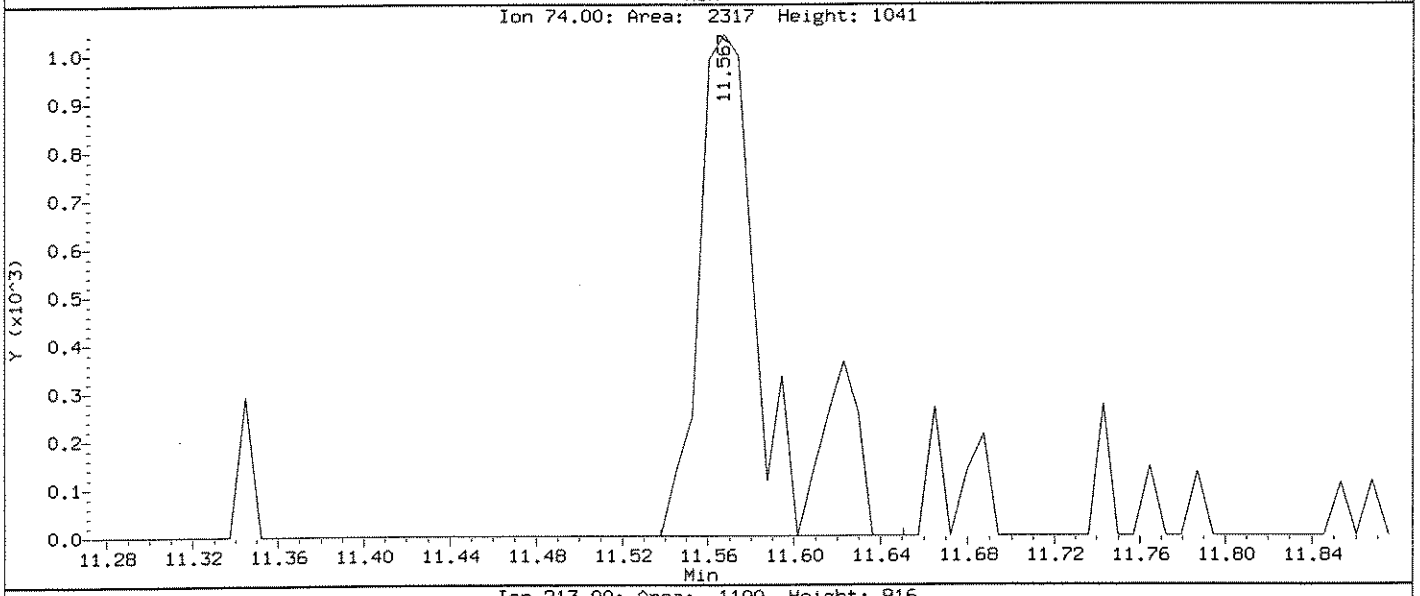
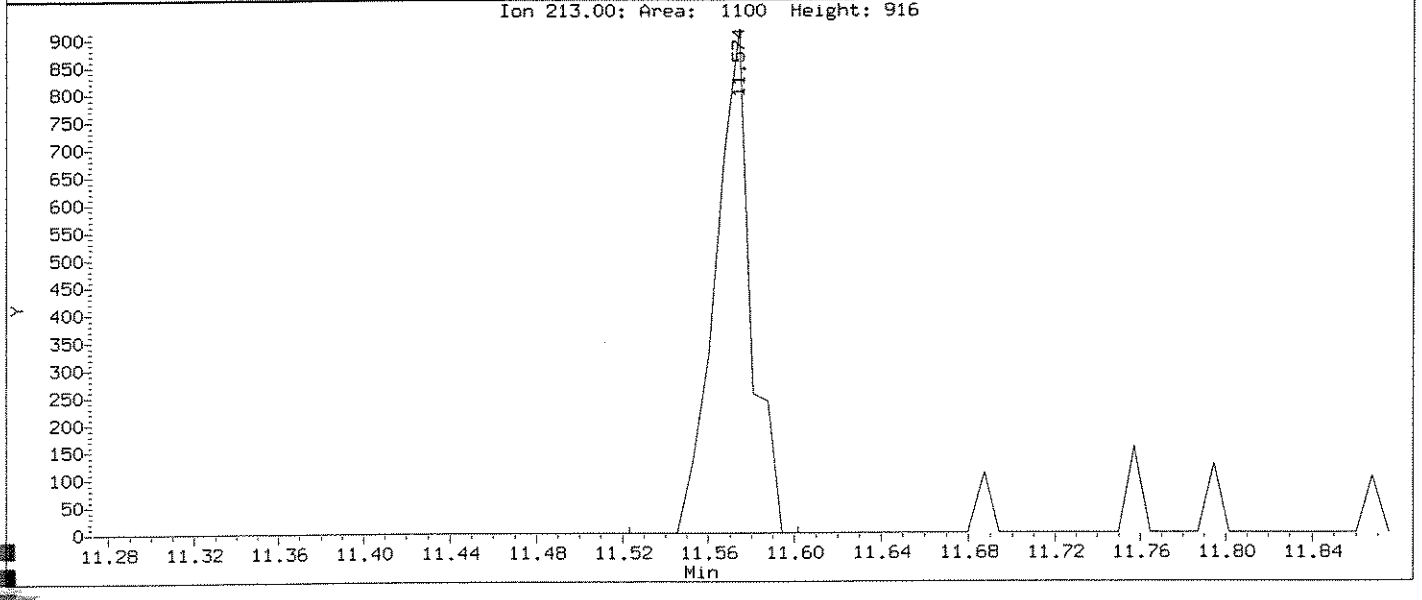
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: sym-Trinitrobenzene
CAS Number: 99-35-4







Empirical Laboratories

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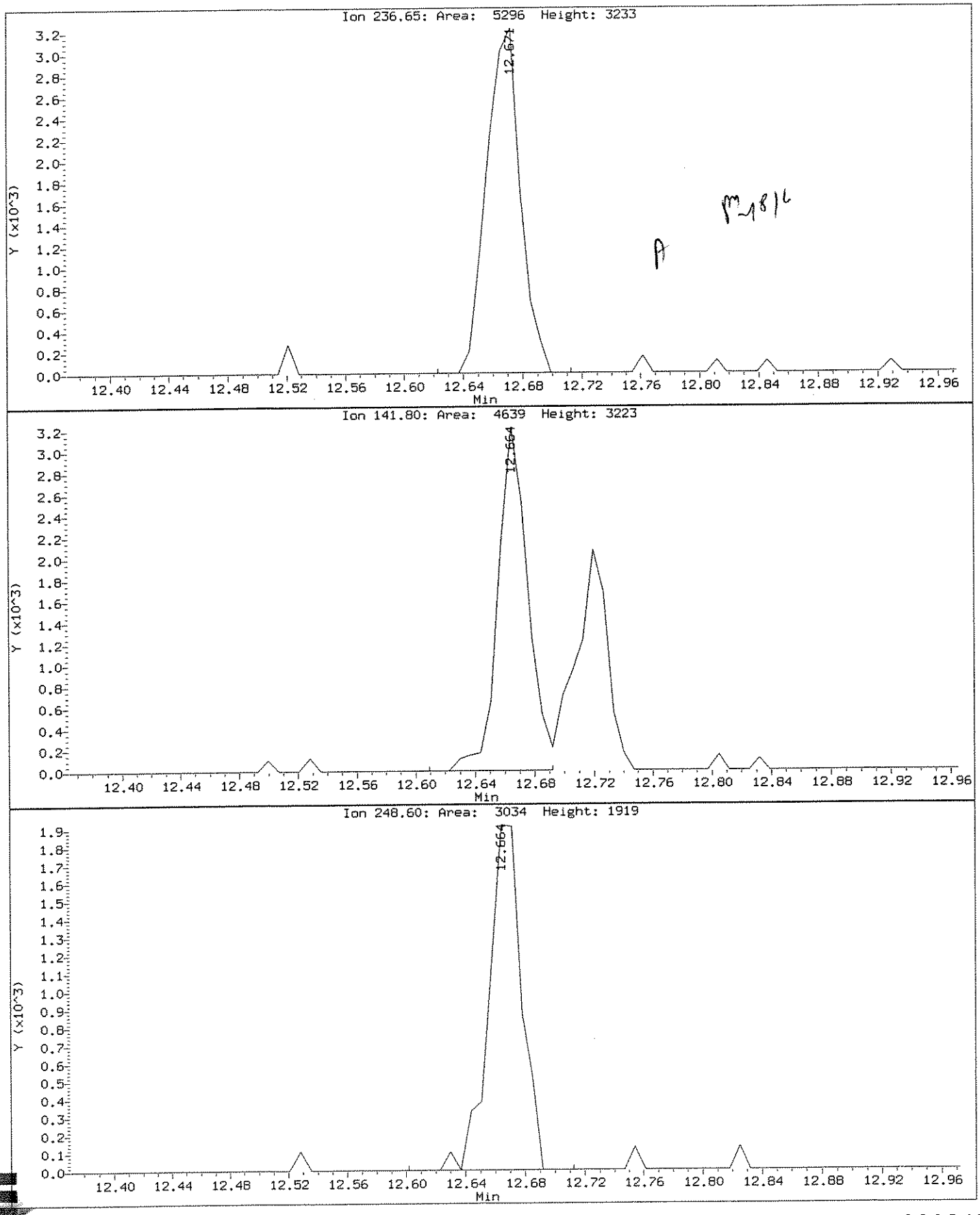
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: Pentachloronitrobenzene
CAS Number: 82-68-8



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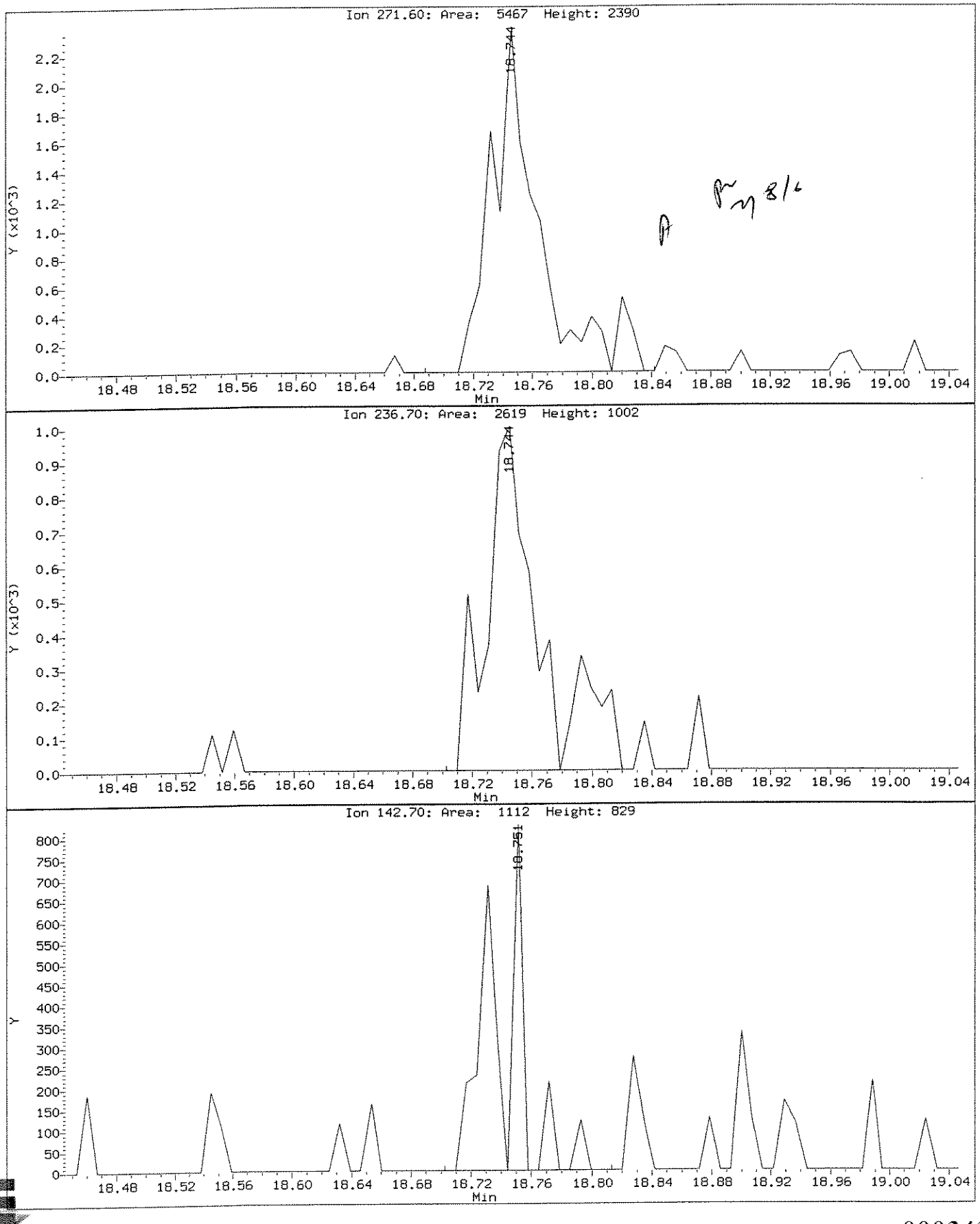
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: Kepone
CAS Number: 143-50-0



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Lab Smp Id: APP9A005PPM Client Smp ID: APP9A005PPM
Inj Date : 07-FEB-2006 11:13
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A005PPM;;;;;SV3382-3
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	507102	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.956)	36214	5.00000	5.390
	29 o-Toluidine	106	5.332	5.332	(1.080)	145788	5.00000	5.782
*	31 Naphthalene-d8	136	6.160	6.160	(1.000)	1540353	40.0000	
	52 1-Methylnaphthalene	141	7.289	7.289	(1.183)	123777	5.00000	5.892
	57 Hexachloropropene	213	6.327	6.327	(1.027)	41819	5.00000	5.331
	63 1,2,4,5-Tetrachlorobenzene	216	7.461	7.461	(1.211)	70907	5.00000	6.009
*	65 Acenaphthene-d10	164	9.101	9.101	(1.000)	793700	40.0000	
	88 m-Dinitrobenzene	168	8.687	8.687	(0.955)	13955	5.00000	3.091(a)
	89 Pentachlorobenzene	250	9.572	9.572	(1.052)	54551	5.00000	5.431
	93 5-Nitro-o-toluidine	152	10.482	10.482	(1.152)	30465	5.00000	4.501(a)
*	98 Phenanthrene-d10	188	12.720	12.720	(1.000)	1054689	40.0000	
	113 sym-Trinitrobenzene	75	11.569	11.569	(0.909)	10062	5.00000	1.850(a)
	115 4-Aminobiphenyl	169	12.339	12.339	(0.970)	105184	5.00000	4.890(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Report Date: 08-Feb-2006 09:19

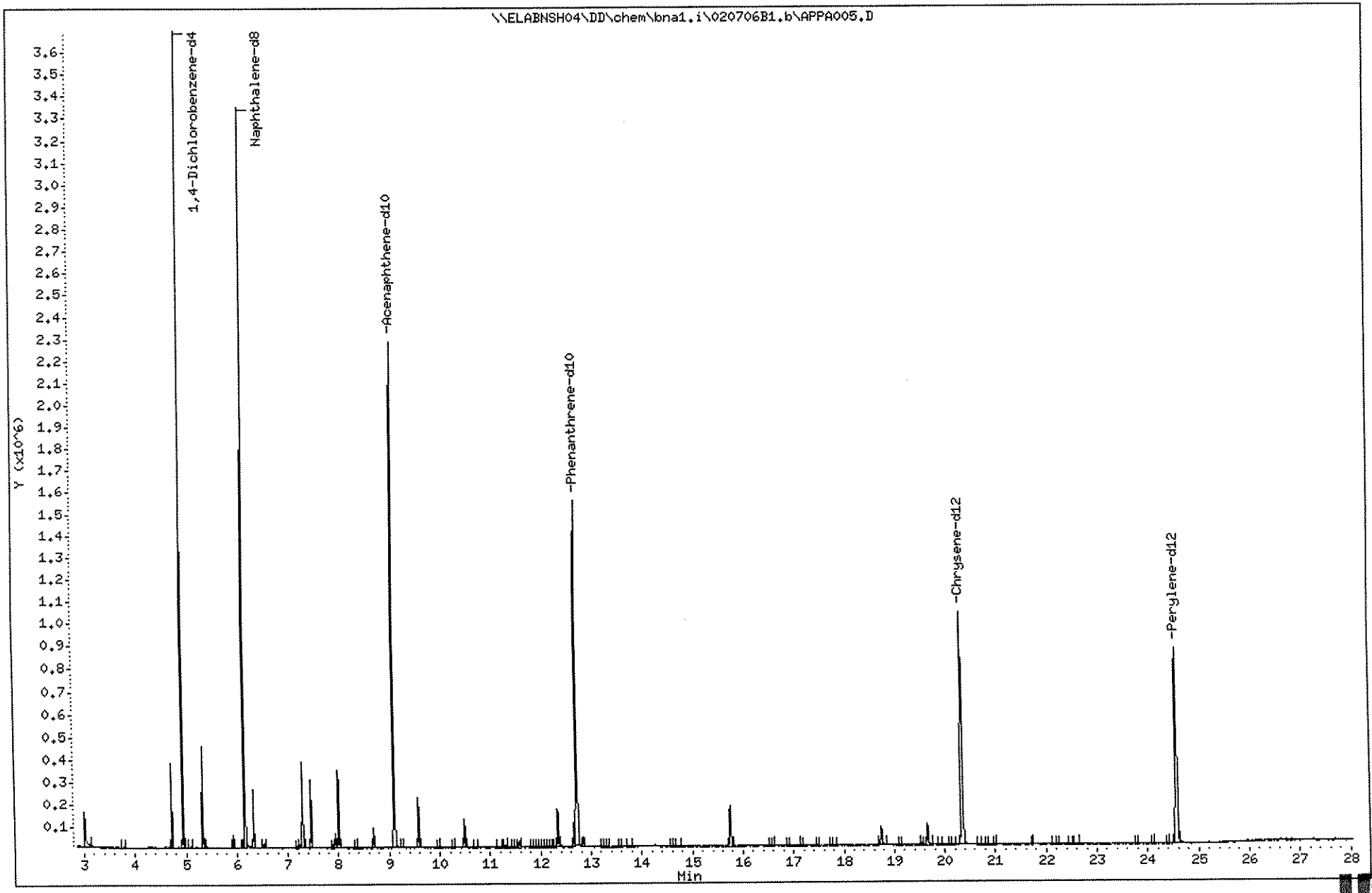
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.672	12.672	(0.996)	13772	5.00000	4.639(a)
* 127 Chrysene-d12	240	20.351	20.351	(1.000)	753846	40.0000	
140 2-Acetylaminofluorene	181	19.657	19.657	(0.966)	41747	5.00000	4.294(a)
145 Isodrin	193	15.757	15.757	(0.774)	25050	5.00000	5.343
146 Kepone	272	18.744	18.744	(0.921)	15117	5.00000	4.429(aM)
* 149 Perylene-d12	264	24.574	24.574	(1.000)	646136	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Date : 07-FEB-2006 11:13
Client ID: APP9A005PPM
Instrument: bna1.i
Sample Info: APP9A005PPM;;;;;SV3382-3
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000346



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Report Date: 08-Feb-2006 09:19

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Lab Smp Id: APP9A010PPM Client Smp ID: APP9A010PPM
Inj Date : 07-FEB-2006 11:49
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A010PPM;;;;;SV3382-4
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	511044	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.956)	70329	10.0000	10.39
	29 o-Toluidine	106	5.328	5.328	(1.079)	262563	10.0000	10.33
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1540265	40.0000	
	52 1-Methylnaphthalene	141	7.294	7.294	(1.184)	224105	10.0000	10.67
	57 Hexachloropropene	213	6.323	6.323	(1.027)	74519	10.0000	9.501
	63 1,2,4,5-Tetrachlorobenzene	216	7.456	7.456	(1.211)	128196	10.0000	10.86
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	758989	40.0000	
	88 m-Dinitrobenzene	168	8.693	8.693	(0.955)	33958	10.0000	7.866
	89 Pentachlorobenzene	250	9.580	9.580	(1.052)	93811	10.0000	9.768
	93 5-Nitro-o-toluidine	152	10.488	10.488	(1.152)	61845	10.0000	9.555
*	98 Phenanthrene-d10	188	12.722	12.722	(1.000)	984761	40.0000	
	113 sym-Trinitrobenzene	75	11.575	11.575	(0.910)	24670	10.0000	4.830(a)
	115 4-Aminobiphenyl	169	12.340	12.340	(0.970)	194353	10.0000	9.677

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Report Date: 08-Feb-2006 09:19

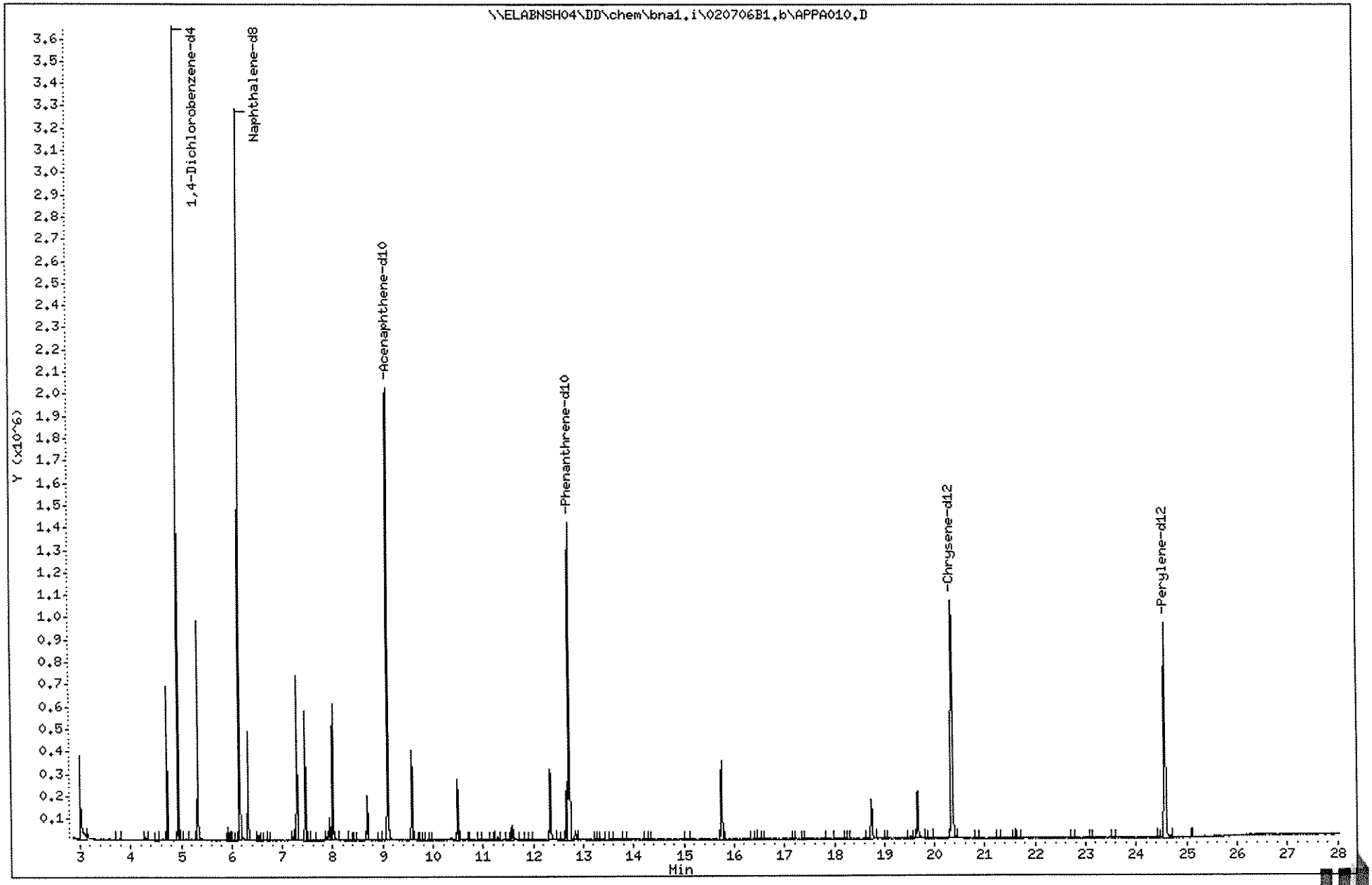
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.674	12.674	(0.996)	27653	10.0000	9.976
* 127 Chrysene-d12	240	20.352	20.352	(1.000)	750160	40.0000	
140 2-Acetylaminofluorene	181	19.663	19.663	(0.966)	99107	10.0000	10.24
145 Isodrin	193	15.752	15.752	(0.774)	44295	10.0000	9.494
146 Kepone	272	18.740	18.740	(0.921)	29279	10.0000	8.620
* 149 Perylene-d12	264	24.578	24.578	(1.000)	706107	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Date : 07-FEB-2006 11:49
Client ID: APP9A010PPM
Instrument: bna1.i
Sample Info: APP9A010PPM;;;;;SV3382-4
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000349



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Lab Smp Id: APP9A020PPM Client Smp ID: APP9A020PPM
Inj Date : 07-FEB-2006 12:25
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A020PPM;;;;;SV3382-5
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.939	4.939	(1.000)	492369	40.0000	
	7 Pentachloroethane	167	4.724	4.724	(0.956)	128799	20.0000	19.74
	29 o-Toluidine	106	5.331	5.331	(1.079)	502503	20.0000	20.53
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1497635	40.0000	
	52 1-Methylnaphthalene	141	7.292	7.292	(1.184)	416272	20.0000	20.38
	57 Hexachloropropene	213	6.324	6.324	(1.027)	145729	20.0000	19.11
	63 1,2,4,5-Tetrachlorobenzene	216	7.463	7.463	(1.212)	235121	20.0000	20.49
*	65 Acenaphthene-d10	164	9.098	9.098	(1.000)	746662	40.0000	
	88 m-Dinitrobenzene	168	8.696	8.696	(0.956)	72630	20.0000	17.10
	89 Pentachlorobenzene	250	9.583	9.583	(1.053)	181657	20.0000	19.23
	93 5-Nitro-o-toluidine	152	10.494	10.494	(1.153)	128444	20.0000	20.17
*	98 Phenanthrene-d10	188	12.729	12.729	(1.000)	944730	40.0000	
	113 sym-Trinitrobenzene	75	11.578	11.578	(0.910)	69375	20.0000	13.89
	115 4-Aminobiphenyl	169	12.350	12.350	(0.970)	390691	20.0000	20.28

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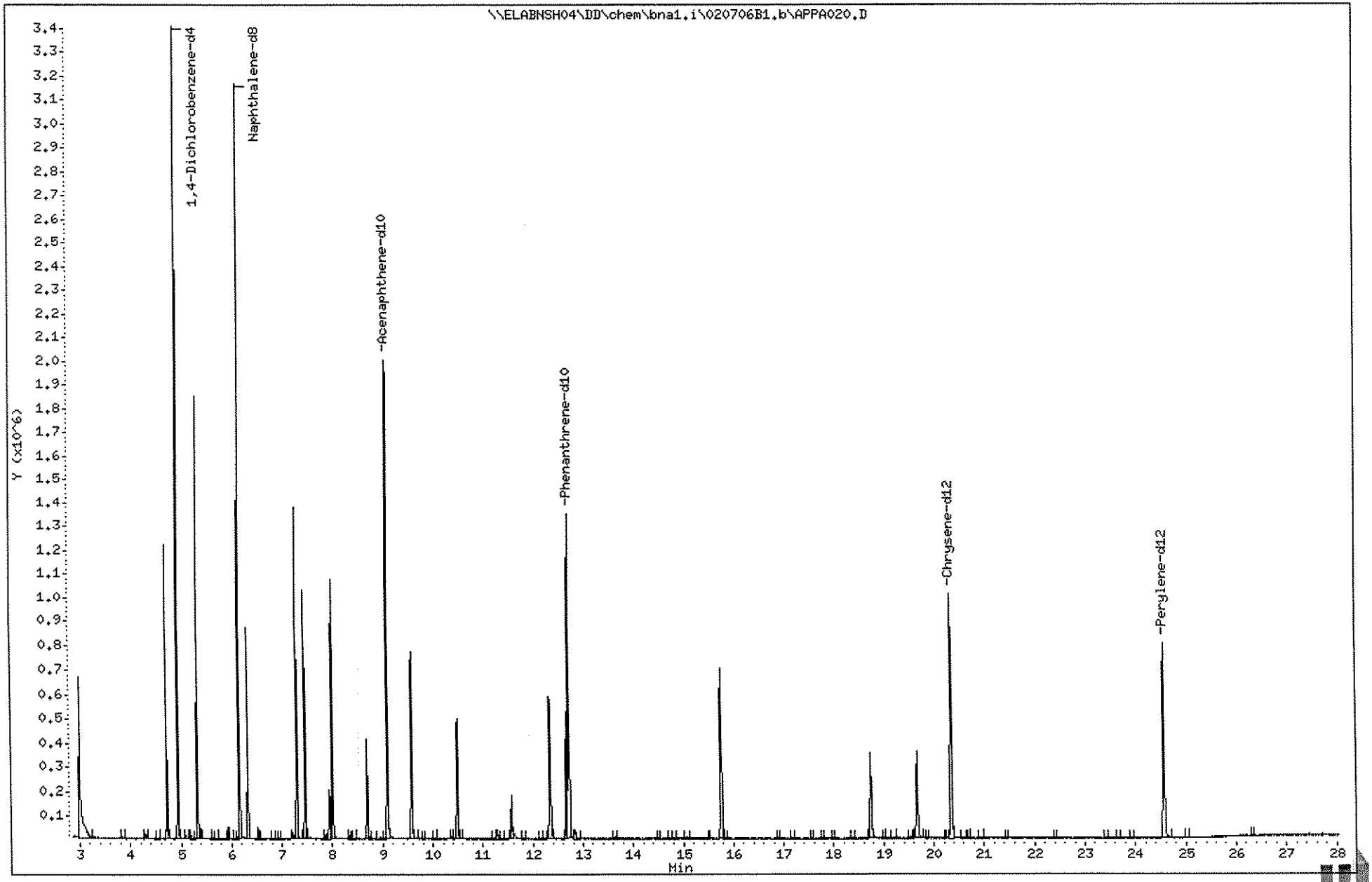
Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.674	12.674	(0.996)	55592	20.0000	20.90
* 127 Chrysene-d12	240	20.355	20.355	(1.000)	686461	40.0000	
140 2-Acetylaminofluorene	181	19.670	19.670	(0.966)	165615	20.0000	18.70
145 Isodrin	193	15.755	15.755	(0.774)	91774	20.0000	21.50
146 Kepone	272	18.743	18.743	(0.921)	66452	20.0000	21.38
* 149 Perylene-d12	264	24.571	24.571	(1.000)	565391	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Date : 07-FEB-2006 12:25
Client ID: APP9A020PPM
Instrument: bna1.i
Sample Info: APP9A020PPM;;;;;SV3382-5
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000352



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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Lab Smp Id: APP9A030PPM Client Smp ID: APP9A030PPM
Inj Date : 07-FEB-2006 13:01
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A030PPM;;;;;SV3382-6
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.942	4.942	(1.000)	490862	40.0000	
	7 Pentachloroethane	167	4.727	4.727	(0.957)	188672	30.0000	29.01
	29 o-Toluidine	106	5.329	5.329	(1.078)	722006	30.0000	29.58
*	31 Naphthalene-d8	136	6.160	6.160	(1.000)	1434840	40.0000	
	52 1-Methylnaphthalene	141	7.294	7.294	(1.184)	616755	30.0000	31.52
	57 Hexachloropropene	213	6.327	6.327	(1.027)	223716	30.0000	30.62
	63 1,2,4,5-Tetrachlorobenzene	216	7.462	7.462	(1.211)	336233	30.0000	30.59
*	65 Acenaphthene-d10	164	9.098	9.098	(1.000)	739268	40.0000	
	88 m-Dinitrobenzene	168	8.694	8.694	(0.956)	121920	30.0000	29.00
	89 Pentachlorobenzene	250	9.584	9.584	(1.053)	263212	30.0000	28.14
	93 5-Nitro-o-toluidine	152	10.497	10.497	(1.154)	196341	30.0000	31.14
*	98 Phenanthrene-d10	188	12.725	12.725	(1.000)	947876	40.0000	
	113 sym-Trinitrobenzene	75	11.579	11.579	(0.910)	143048	30.0000	27.66
	115 4-Aminobiphenyl	169	12.348	12.348	(0.970)	601294	30.0000	31.10

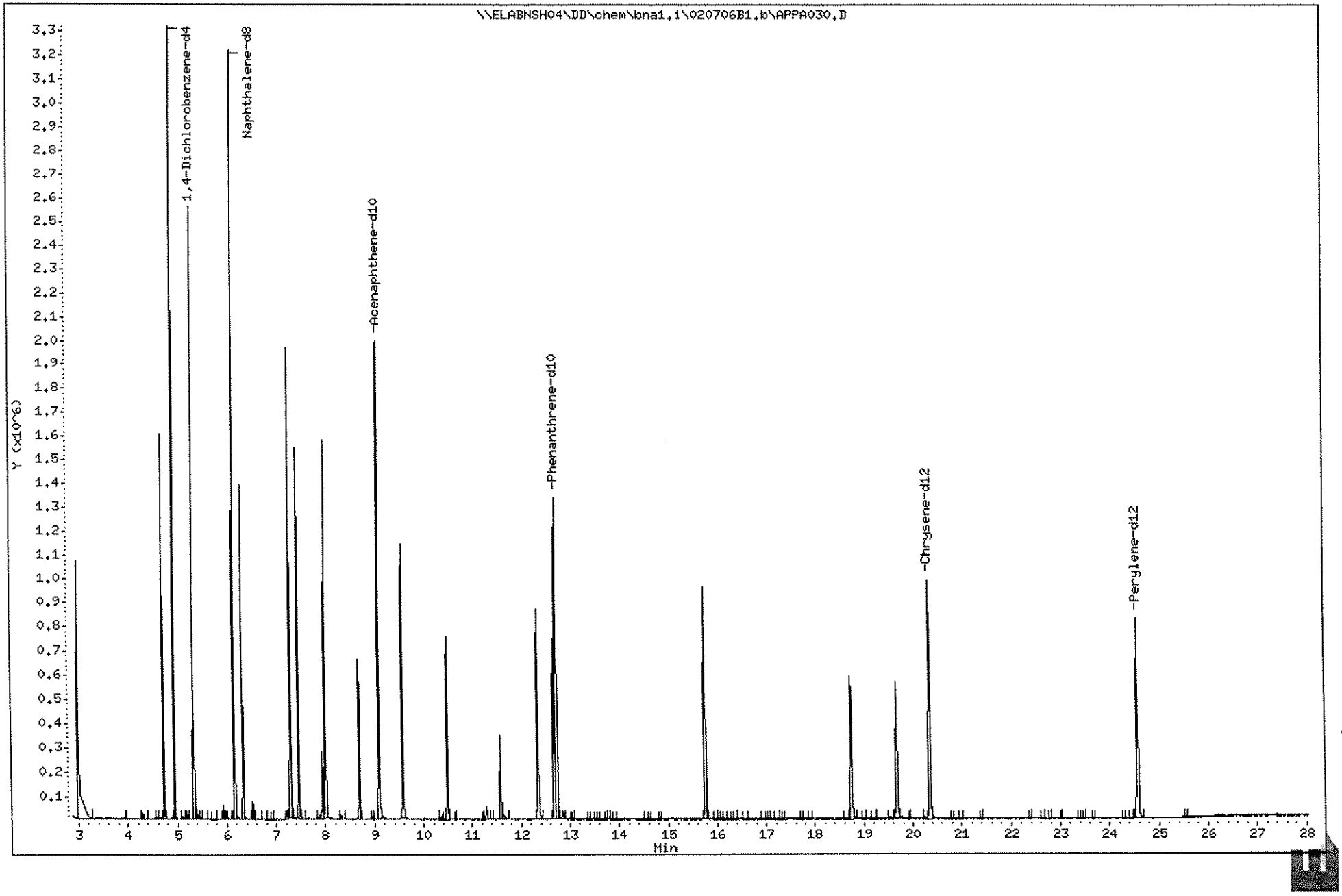
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.677	12.677	(0.996)	87223	30.0000	32.69
* 127 Chrysene-d12	240	20.350	20.350	(1.000)	695222	40.0000	
140 2-Acetylaminofluorene	181	19.672	19.672	(0.967)	269029	30.0000	30.00
145 Isodrin	193	15.756	15.756	(0.774)	126186	30.0000	29.18
146 Kepone	272	18.744	18.744	(0.921)	106169	30.0000	33.73
* 149 Perylene-d12	264	24.577	24.577	(1.000)	605787	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Date : 07-FEB-2006 13:01
Client ID: APP9A030PPM
Instrument: bna1.i
Sample Info: APP9A030PPM;;;;;SV3382-6
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000355



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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Report Date: 08-Feb-2006 09:19

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Lab Smp Id: APP9A050PPM Client Smp ID: APP9A050PPM
Inj Date : 07-FEB-2006 13:37
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A050PPM;;;;;SV3382-8
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.941	4.941	(1.000)	499533	40.0000	
	7 Pentachloroethane	167	4.726	4.726	(0.957)	307062	50.0000	46.40
	29 o-Toluidine	106	5.334	5.334	(1.080)	1169767	50.0000	47.10
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1565191	40.0000	
	52 1-Methylnaphthalene	141	7.303	7.303	(1.186)	1002462	50.0000	46.96
	57 Hexachloropropene	213	6.328	6.328	(1.028)	397768	50.0000	49.90
	63 1,2,4,5-Tetrachlorobenzene	216	7.465	7.465	(1.212)	551878	50.0000	46.03
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	777606	40.0000	
	88 m-Dinitrobenzene	168	8.700	8.700	(0.956)	228417	50.0000	51.65
	89 Pentachlorobenzene	250	9.586	9.586	(1.053)	455700	50.0000	46.31
	93 5-Nitro-o-toluidine	152	10.507	10.507	(1.154)	375563	50.0000	56.64
*	98 Phenanthrene-d10	188	12.737	12.737	(1.000)	1040888	40.0000	
	113 sym-Trinitrobenzene	75	11.593	11.593	(0.910)	324194	50.0000	53.33
	115 4-Aminobiphenyl	169	12.356	12.356	(0.970)	1133830	50.0000	53.41

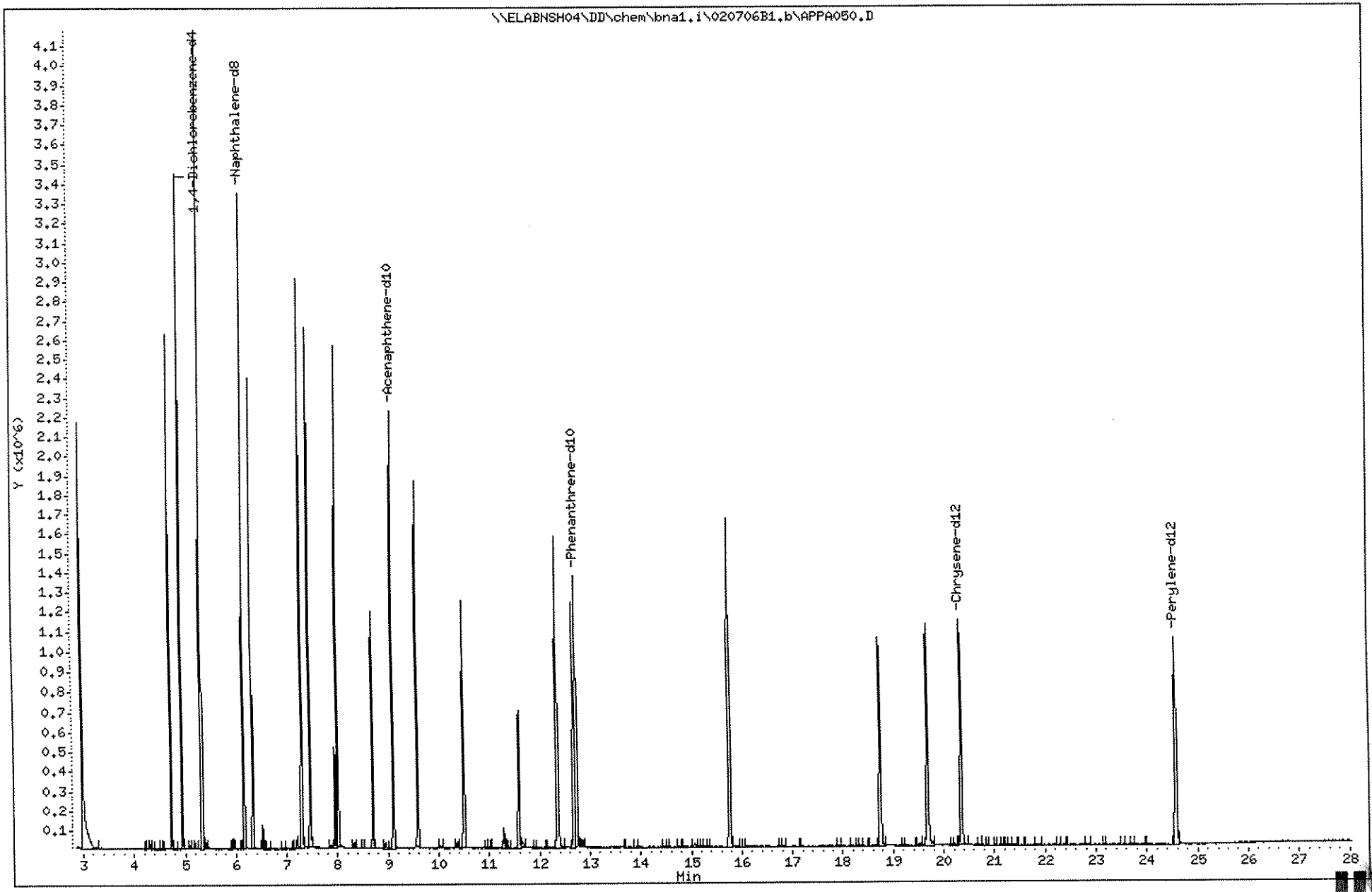
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.682	12.682	(0.996)	150279	50.0000	51.29
* 127 Chrysene-d12	240	20.358	20.358	(1.000)	814256	40.0000	
140 2-Acetylaminofluorene	181	19.694	19.694	(0.967)	607148	50.0000	57.81
145 Isodrin	193	15.761	15.761	(0.774)	226030	50.0000	44.63
146 Kepone	272	18.744	18.744	(0.921)	194790	50.0000	52.84
* 149 Perylene-d12	264	24.581	24.581	(1.000)	769226	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Date : 07-FEB-2006 13:37
Client ID: APP9A050PPM
Instrument: bna1.i
Sample Info: APP9A050PPM;;;;;SV3382-8
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000358



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Lab Smp Id: APP9A070PPM Client Smp ID: APP9A070PPM
Inj Date : 07-FEB-2006 14:13
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A070PPM;;;;;SV3382-10
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	457289	40.0000	
7	Pentachloroethane	167	4.726	4.726	(0.957)	385219	70.0000	63.59
29	o-Toluidine	106	5.334	5.334	(1.080)	1360728	70.0000	59.85
* 31	Naphthalene-d8	136	6.156	6.156	(1.000)	1418853	40.0000	
52	1-Methylnaphthalene	141	7.300	7.300	(1.186)	1186244	70.0000	61.30
57	Hexachloropropene	213	6.333	6.333	(1.029)	491944	70.0000	68.09
63	1,2,4,5-Tetrachlorobenzene	216	7.467	7.467	(1.213)	670213	70.0000	61.66
* 65	Acenaphthene-d10	164	9.104	9.104	(1.000)	687129	40.0000	
88	m-Dinitrobenzene	168	8.707	8.707	(0.956)	267302	70.0000	68.40
89	Pentachlorobenzene	250	9.587	9.587	(1.053)	554506	70.0000	63.77
93	5-Nitro-o-toluidine	152	10.518	10.518	(1.155)	455423	70.0000	77.72
* 98	Phenanthrene-d10	188	12.740	12.740	(1.000)	922768	40.0000	
113	sym-Trinitrobenzene	75	11.591	11.591	(0.910)	410158	70.0000	71.65
115	4-Aminobiphenyl	169	12.365	12.365	(0.971)	1317169	70.0000	69.99

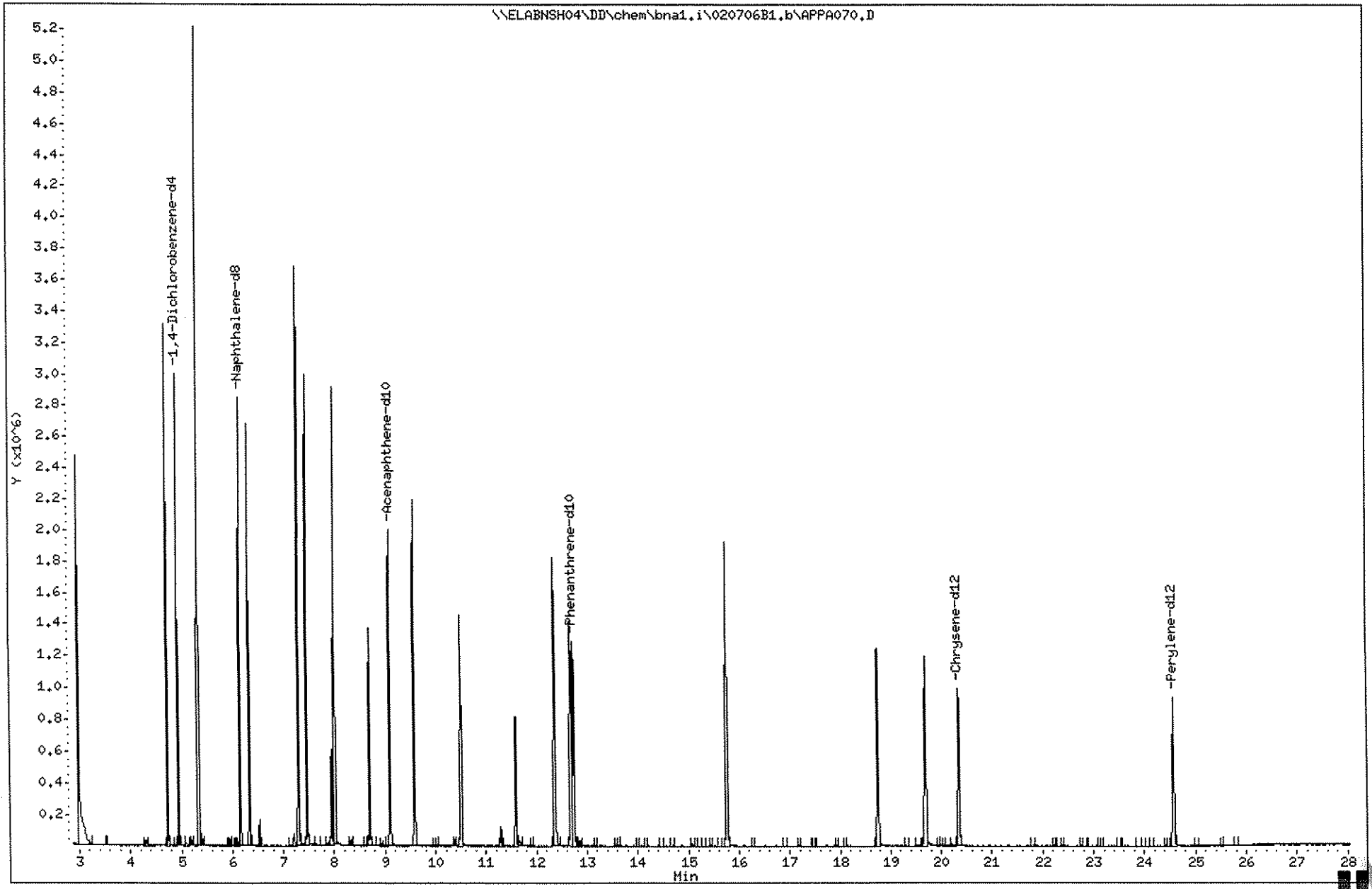
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.685	12.685	(0.996)	180195	70.0000	69.37
* 127 Chrysene-d12	240	20.356	20.356	(1.000)	702460	40.0000	
140 2-Acetylaminofluorene	181	19.696	19.696	(0.968)	683755	70.0000	75.47
145 Isodrin	193	15.767	15.767	(0.775)	272059	70.0000	62.27
146 Kepone	272	18.752	18.752	(0.921)	241191	70.0000	75.84
* 149 Perylene-d12	264	24.577	24.577	(1.000)	665008	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Date : 07-FEB-2006 14:13
Client ID: APP9A070PPM
Instrument: bna1.i
Sample Info: APP9A070PPM;;;;;SV3382-10
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000361



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Report Date: 08-Feb-2006 09:20

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Lab Smp Id: APP9A100PPM Client Smp ID: APP9A100PPM
Inj Date : 07-FEB-2006 14:49
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A100PPM;;;;;SV3382-13
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.941	4.941	(1.000)	465394	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.955)	556990	100.000	90.34
	29 o-Toluidine	106	5.339	5.339	(1.080)	1859824	100.000	80.37
*	31 Naphthalene-d8	136	6.158	6.158	(1.000)	1401462	40.0000	
	52 1-Methylnaphthalene	141	7.303	7.303	(1.186)	1663102	100.000	87.01
	57 Hexachloropropene	213	6.332	6.332	(1.028)	695408	100.000	97.44
	63 1,2,4,5-Tetrachlorobenzene	216	7.469	7.469	(1.213)	929660	100.000	86.59
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	688001	40.0000	
	88 m-Dinitrobenzene	168	8.711	8.711	(0.957)	396206	100.000	101.2(A)
	89 Pentachlorobenzene	250	9.595	9.595	(1.054)	772963	100.000	88.78
	93 5-Nitro-o-toluidine	152	10.526	10.526	(1.156)	617854	100.000	105.3(A)
*	98 Phenanthrene-d10	188	12.744	12.744	(1.000)	858148	40.0000	
	113 sym-Trinitrobenzene	75	11.604	11.604	(0.911)	595668	100.000	98.84
	115 4-Aminobiphenyl	169	12.368	12.368	(0.971)	1815589	100.000	103.7(A)

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Report Date: 08-Feb-2006 09:20

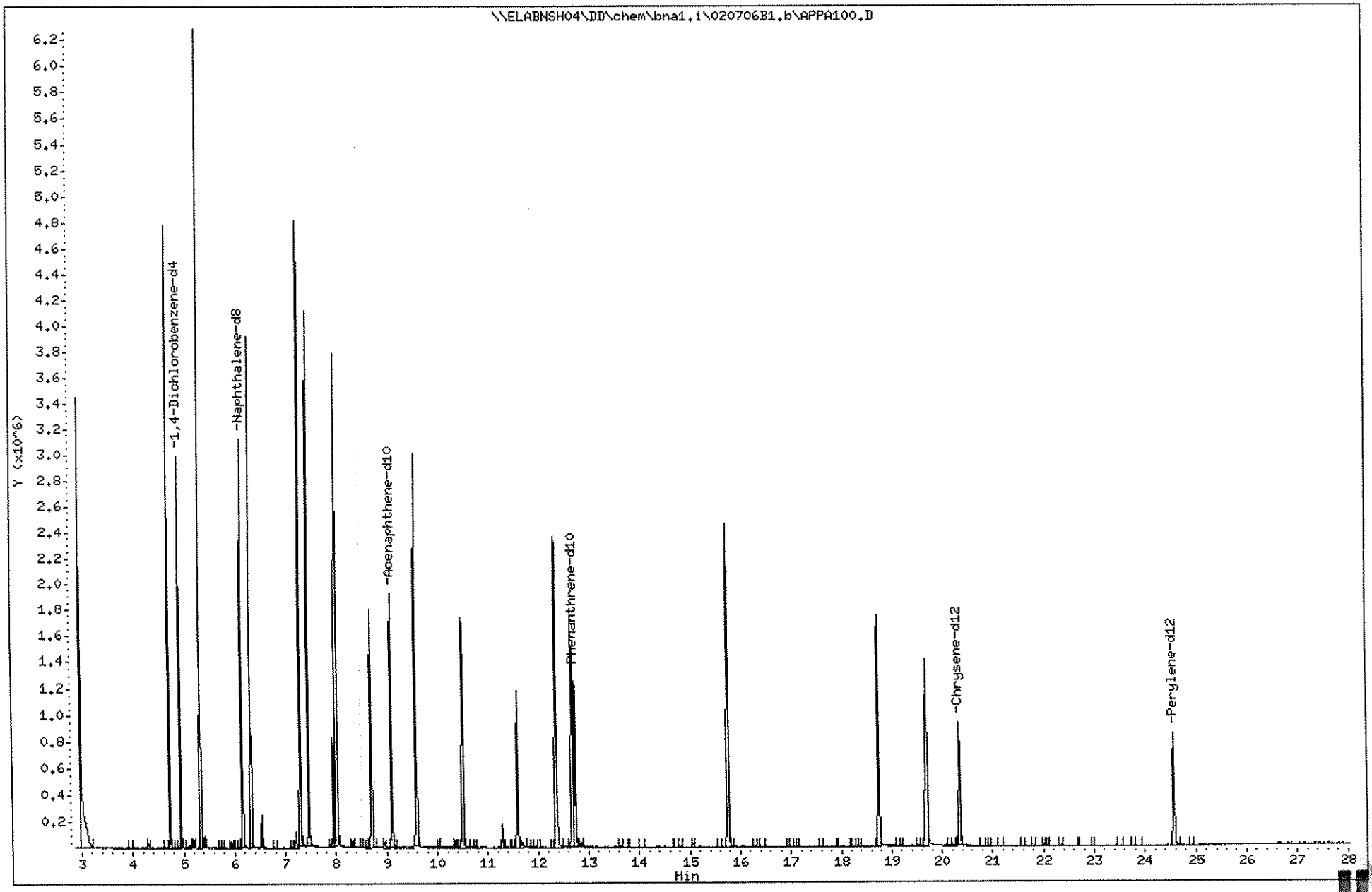
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.688	12.688	(0.996)	258645	100.000	107.1(A)
* 127 Chrysene-d12	240	20.358	20.358	(1.000)	652024	40.0000	
140 2-Acetylaminofluorene	181	19.707	19.707	(0.968)	909991	100.000	108.2(A)
145 Isodrin	193	15.763	15.763	(0.774)	368611	100.000	90.90
146 Kepone	272	18.752	18.752	(0.921)	335159	100.000	113.5(A)
* 149 Perylene-d12	264	24.571	24.571	(1.000)	614384	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Date : 07-FEB-2006 14:49
Client ID: APP9A100PPM
Instrument: bna1.i
Sample Info: APP9A100PPM;;;;;SV3382-13
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000364



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Lab Smp Id: ICV050PPM Client Smp ID: ICV050PPM
Inj Date : 07-FEB-2006 15:25
Operator : sdb Inst ID: bna1.i
Smp Info : ICV050PPM;;;;;SV3355
Misc Info : ;;;;;ppbna2.sub;SV3349
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna2.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.942	4.941	(1.000)	438049	40.0000	
$ 2 2-Fluorophenol	112	4.038	4.064	(0.817)	837422	53.4533	53.45
$ 3 Phenol-d6	99	4.708	4.738	(0.953)	954627	53.0297	53.03
4 Pyridine	79	2.991	3.034	(0.605)	821109	48.2507	48.25
5 N-Nitroso-di-methylamine	42	3.005	3.041	(0.608)	457024	44.3356	44.34
6 Aniline	93	4.728	4.758	(0.957)	771742	50.5557	50.56(H)
8 Phenol	94	4.715	4.745	(0.954)	952110	48.8213	48.82(H)
9 bis(2-Chloroethyl)ether	93	4.769	4.793	(0.965)	811322	49.0561	49.06
10 2-Chlorophenol	128	4.810	4.834	(0.973)	776263	51.5831	51.58
11 1,3-Dichlorobenzene	146	4.915	4.937	(0.994)	799618	48.3441	48.34(H)
12 1,4-Dichlorobenzene	146	4.956	4.978	(1.003)	714087	46.1050	46.10
13 Benzyl alcohol	108	5.074	5.102	(1.027)	422060	42.8950	42.89
14 1,2-Dichlorobenzene	146	5.108	5.129	(1.034)	730841	49.5366	49.54
15 2-Methylphenol	108	5.170	5.198	(1.046)	602188	45.8388	45.84

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	16 bis(2-Chloroisopropyl)ether	45	5.190	5.212	(1.050)	1125978	47.2575	47.26
	17 3-Methylphenol	108	5.294	5.321	(1.071)	628635	47.8121	47.81
	18 4-Methylphenol	108	5.294	5.321	(1.071)	628635	47.8090	47.81
	19 N-Nitroso-di-n-propylamine	70	5.321	5.363	(1.077)	535352	47.2499	47.25
	20 Hexachloroethane	117	5.369	5.390	(1.086)	351444	48.0553	48.06
*	31 Naphthalene-d8	136	6.162	6.158	(1.000)	1330428	40.0000	
$	32 Nitrobenzene-d5	82	5.438	5.466	(0.883)	777282	51.8672	51.87
	33 Nitrobenzene	77	5.459	5.486	(0.886)	732983	48.6966	48.70
	35 Isophorone	82	5.674	5.713	(0.921)	1438640	49.0909	49.09
	36 2-Nitrophenol	139	5.763	5.795	(0.935)	399909	50.6913	50.69
	38 2,4-Dimethylphenol	107	5.797	5.829	(0.941)	648281	45.5677	45.57
	39 Benzoic acid	105	5.935	6.022	(0.963)	419159	42.4811	42.48(M)
	40 bis(2-Chloroethoxy)methane	93	5.901	5.932	(0.958)	829403	48.5489	48.55
	43 2,4-Dichlorophenol	162	6.018	6.042	(0.977)	504405	47.0594	47.06
	46 1,2,4-Trichlorobenzene	180	6.114	6.139	(0.992)	543124	46.4303	46.43
	47 Naphthalene	128	6.190	6.215	(1.004)	1577133	46.2370	46.24
	48 4-Chloroaniline	127	6.278	6.304	(1.019)	722748	51.2178	51.22
	49 Hexachlorobutadiene	225	6.402	6.434	(1.039)	349809	51.8865	51.89
	50 4-Chloro-3-methylphenol	107	6.935	6.983	(1.125)	565980	49.5183	49.52
	51 2-Methylnaphthalene	141	7.126	7.162	(1.156)	944349	46.7100	46.71
	52 1-Methylnaphthalene	141	7.304	7.303	(1.185)	924786	50.9678	50.97 OK
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	711479	40.0000	
	66 Hexachlorocyclopentadiene	237	7.497	7.532	(0.824)	305113	63.9014	63.90(R)
	67 2,4,6-Trichlorophenol	196	7.649	7.690	(0.840)	334450	47.8874	47.89(H)
	68 2,4,5-Trichlorophenol	196	7.711	7.759	(0.847)	339836	46.7820	46.78
	69 2-Chloronaphthalene	162	7.952	8.000	(0.874)	951875	47.3812	47.38
$	70 2-Fluorobiphenyl	172	7.794	7.828	(0.856)	1135220	47.1992	47.20
	71 2-Nitroaniline	65	8.241	8.287	(0.905)	387862	49.1051	49.10
	72 Dimethylphthalate	163	8.704	8.754	(0.956)	1265658	47.1103	47.11
	73 Acenaphthylene	152	8.772	8.816	(0.964)	1537944	50.7983	50.80
	74 2,6-Dinitrotoluene	165	8.827	8.885	(0.970)	288954	50.1896	50.19
	75 3-Nitroaniline	138	9.117	9.180	(1.002)	316110	52.0781	52.08
	76 Acenaphthene	153	9.179	9.222	(1.008)	901952	44.0132	44.01
	77 2,4-Dinitrophenol	184	9.337	9.401	(1.026)	147156	46.7537	46.75(a)
	79 4-Nitrophenol	65	9.559	9.621	(1.050)	235984	48.1627	48.16
	80 Dibenzofuran	168	9.531	9.579	(1.047)	1358775	46.8846	46.88
	81 2,4-Dinitrotoluene	165	9.696	9.758	(1.065)	390204	50.2388	50.24
	82 Diethylphthalate	149	10.360	10.423	(1.138)	1230864	47.0707	47.07
	83 4-Chlorophenyl-phenylether	204	10.408	10.457	(1.143)	478181	47.4839	47.48
	84 Fluorene	166	10.339	10.395	(1.136)	1055885	47.0850	47.08
	85 4-Nitroaniline	138	10.574	10.657	(1.162)	271027	47.0909	47.09
*	98 Phenanthrene-d10	188	12.729	12.744	(1.000)	1019763	40.0000	
	99 1,2-Diphenylhydrazine	77	10.794	10.848	(0.848)	1403668	51.0645	51.06
	100 Carbazole	167	13.443	13.505	(1.056)	1111836	44.8793	44.88
	101 4,6-Dinitro-2-methylphenol	198	10.670	10.746	(0.838)	217430	51.8117	51.81
	102 N-Nitrosodiphenylamine	169	10.739	10.801	(0.844)	697897	48.3721	48.37
$	103 2,4,6-Tribromophenol	330	10.994	11.055	(0.864)	184174	54.7254	54.72

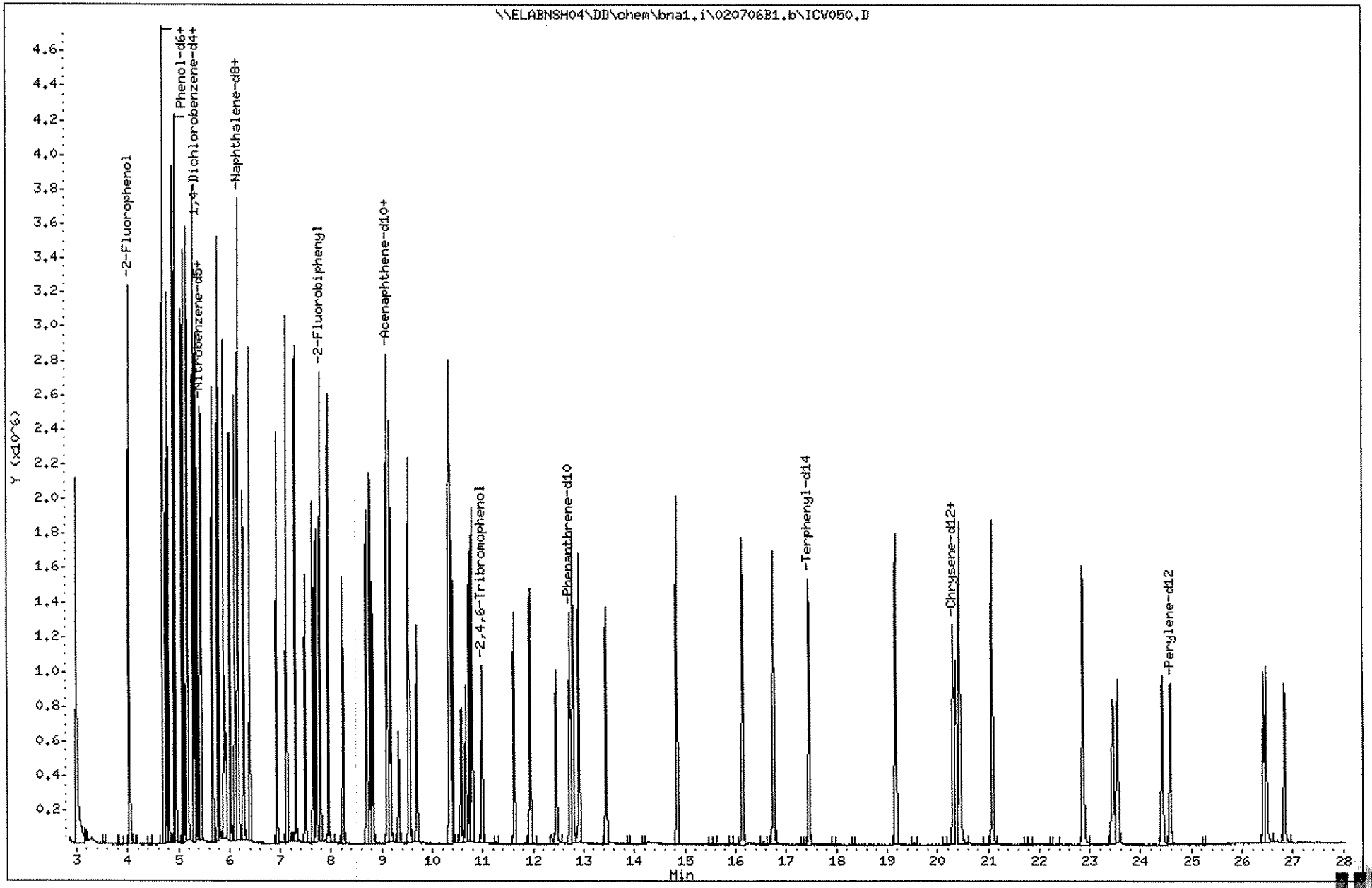
Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	104 4-Bromophenyl-phenylether	248	11.630	11.679	(0.914)	259522	42.2519	42.25
	105 Hexachlorobenzene	284	11.946	11.995	(0.939)	341501	48.2158	48.22
	106 Pentachlorophenol	266	12.454	12.510	(0.978)	204418	45.0409	45.04
	107 Phenanthrene	178	12.798	12.854	(1.005)	1347041	46.8768	46.88
	108 Anthracene	178	12.914	12.971	(1.015)	1302594	47.4591	47.46
	110 Di-n-butylphthalate	149	14.847	14.899	(1.166)	2185025	50.7914	50.79
	111 Fluoranthene	202	16.145	16.204	(1.268)	1456550	49.1326	49.13
*	127 Chrysene-d12	240	20.370	20.358	(1.000)	711666	40.0000	
	129 Pyrene	202	16.755	16.812	(0.823)	1458436	48.1669	48.17
$	130 Terphenyl-d14	244	17.460	17.510	(0.857)	894403	50.1138	50.11
	131 Butylbenzylphthalate	149	19.177	19.230	(0.941)	977413	55.6655	55.66
	132 3,3'-Dichlorobenzidine	252	20.461	20.503	(1.004)	316608	50.4295	50.43
	133 Benzo(a)anthracene	228	20.322	20.383	(0.998)	1154092	47.7969	47.80
	134 Chrysene	228	20.447	20.508	(1.004)	961573	45.6195	45.62
	135 Bis(2-ethylhexyl)phthalate	149	21.091	21.141	(1.035)	1165142	55.1332	55.13
*	149 Perylene-d12	264	24.586	24.571	(1.000)	673890	40.0000	
	150 Di-n-octylphthalate	149	22.874	22.927	(0.930)	1987561	54.8161	54.82
	151 Benzo(b)fluoranthene	252	23.464	23.547	(0.954)	1008177	46.5820	46.58(H)
	152 Benzo(k)fluoranthene	252	23.554	23.644	(0.958)	987765	45.4968	45.50
	153 Benzo(a)pyrene	252	24.440	24.508	(0.994)	893313	47.8121	47.81
	154 Indeno(1,2,3-cd)pyrene	276	26.431	26.480	(1.075)	721186	49.5883	49.59
	155 Dibenz(a,h)anthracene	278	26.480	26.529	(1.077)	682654	48.6822	48.68
	156 Benzo(g,h,i)perylene	276	26.837	26.893	(1.092)	699424	51.4336	51.43

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Date : 07-FEB-2006 15:25
Client ID: ICV050PPM
Instrument: bna1.i
Sample Info: ICV050PPM;;;;;SV3355
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Lab Smp Id: ICV050PPM Client Smp ID: ICV050PPM
Inj Date : 07-FEB-2006 15:25
Operator : sdb Inst ID: bna1.i
Smp Info : ICV050PPM;;;;;SV3355
Misc Info : ;;;;;ppbna2.sub;SV3349
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXSOX1.m
Meth Date : 08-Feb-2006 10:31 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna2.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

2/8/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.942	4.941	(1.000)	438049	40.0000	
$ 2 2-Fluorophenol	112	4.038	4.065	(0.817)	837422	53.4533	3564
$ 3 Phenol-d6	99	4.708	4.738	(0.953)	954627	53.0297	3535
4 Pyridine	79	2.991	3.034	(0.605)	821109	48.2507	3217
5 N-Nitroso-di-methylamine	42	3.005	3.041	(0.608)	457024	44.3356	2956
6 Aniline	93	4.728	4.759	(0.957)	771742	50.5557	3370(H)
8 Phenol	94	4.715	4.745	(0.954)	952110	48.8213	3255(H)
9 bis(2-Chloroethyl)ether	93	4.769	4.793	(0.965)	811322	49.0561	3270
10 2-Chlorophenol	128	4.810	4.834	(0.973)	776263	51.5831	3439
11 1,3-Dichlorobenzene	146	4.915	4.937	(0.994)	799618	48.3441	3223(H)
12 1,4-Dichlorobenzene	146	4.956	4.979	(1.003)	714087	46.1050	3074
13 Benzyl alcohol	108	5.074	5.102	(1.027)	422060	42.8950	2860
14 1,2-Dichlorobenzene	146	5.108	5.130	(1.034)	730841	49.5366	3302

2-8-06

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
	15	2-Methylphenol	108	5.170	5.198	(1.046)	602188	45.8388	3056
	16	bis(2-Chloroisopropyl)ether	45	5.190	5.212	(1.050)	1125978	47.2575	3150
	17	3-Methylphenol	108	5.294	5.322	(1.071)	628635	47.8121	3187
	18	4-Methylphenol	108	5.294	5.322	(1.071)	628635	47.8090	3187
	19	N-Nitroso-di-n-propylamine	70	5.321	5.363	(1.077)	535352	47.2499	3150
	20	Hexachloroethane	117	5.369	5.391	(1.086)	351444	48.0553	3204
*	31	Naphthalene-d8	136	6.162	6.158	(1.000)	1330428	40.0000	
$	32	Nitrobenzene-d5	82	5.438	5.466	(0.883)	777282	51.8672	3458
	33	Nitrobenzene	77	5.459	5.487	(0.886)	732983	48.6966	3246
	35	Isophorone	82	5.674	5.713	(0.921)	1438640	49.0909	3273
	36	2-Nitrophenol	139	5.763	5.795	(0.935)	399909	50.6913	3379
	38	2,4-Dimethylphenol	107	5.797	5.830	(0.941)	648281	45.5677	3038
	39	Benzoic acid	105	5.935	6.022	(0.963)	419159	42.4811	2832(M)
	40	bis(2-Chloroethoxy)methane	93	5.901	5.933	(0.958)	829403	48.5489	3236
	43	2,4-Dichlorophenol	162	6.018	6.043	(0.977)	504405	47.0594	3137
	46	1,2,4-Trichlorobenzene	180	6.114	6.139	(0.992)	543124	46.4303	3095
	47	Naphthalene	128	6.190	6.215	(1.004)	1577133	46.2370	3082
	48	4-Chloroaniline	127	6.278	6.304	(1.019)	722748	51.2178	3414
	49	Hexachlorobutadiene	225	6.402	6.435	(1.039)	349809	51.8865	3459
	50	4-Chloro-3-methylphenol	107	6.935	6.984	(1.125)	565980	49.5183	3301
	51	2-Methylnaphthalene	141	7.126	7.162	(1.156)	944349	46.7100	3114
	52	1-Methylnaphthalene	141	7.304	7.303	(1.185)	924786	50.9678	3398 OK
*	65	Acenaphthene-d10	164	9.103	9.103	(1.000)	711479	40.0000	
	66	Hexachlorocyclopentadiene	237	7.497	7.532	(0.824)	305113	63.9014	4260(R)
	67	2,4,6-Trichlorophenol	196	7.649	7.691	(0.840)	334450	47.8874	3192(H)
	68	2,4,5-Trichlorophenol	196	7.711	7.760	(0.847)	339836	46.7820	3119
	69	2-Chloronaphthalene	162	7.952	8.000	(0.874)	951875	47.3812	3159
$	70	2-Fluorobiphenyl	172	7.794	7.829	(0.856)	1135220	47.1992	3147
	71	2-Nitroaniline	65	8.241	8.288	(0.905)	387862	49.1051	3274
	72	Dimethylphthalate	163	8.704	8.754	(0.956)	1265658	47.1103	3141
	73	Acenaphthylene	152	8.772	8.816	(0.964)	1537944	50.7983	3386
	74	2,6-Dinitrotoluene	165	8.827	8.885	(0.970)	288954	50.1896	3346
	75	3-Nitroaniline	138	9.117	9.181	(1.002)	316110	52.0781	3472
	76	Acenaphthene	153	9.179	9.222	(1.008)	901952	44.0132	2934
	77	2,4-Dinitrophenol	184	9.337	9.401	(1.026)	147156	46.7537	3117(a)
	79	4-Nitrophenol	65	9.559	9.621	(1.050)	235984	48.1627	3211
	80	Dibenzofuran	168	9.531	9.580	(1.047)	1358775	46.8846	3126
	81	2,4-Dinitrotoluene	165	9.696	9.758	(1.065)	390204	50.2388	3349
	82	Diethylphthalate	149	10.360	10.423	(1.138)	1230864	47.0707	3138
	83	4-Chlorophenyl-phenylether	204	10.408	10.458	(1.143)	478181	47.4839	3166
	84	Fluorene	166	10.339	10.396	(1.136)	1055885	47.0850	3139
	85	4-Nitroaniline	138	10.574	10.657	(1.162)	271027	47.0909	3139
*	97	Phenanthrene-d10	188	12.729	12.744	(1.000)	1019763	40.0000	
	98	1,2-Diphenylhydrazine	77	10.794	10.849	(0.848)	1403668	51.0645	3404
	99	Carbazole	167	13.443	13.506	(1.056)	1111836	44.8793	2992
	100	4,6-Dinitro-2-methylphenol	198	10.670	10.746	(0.838)	217430	51.8117	3454
	101	N-Nitrosodiphenylamine	169	10.739	10.801	(0.844)	697897	48.3721	3225

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

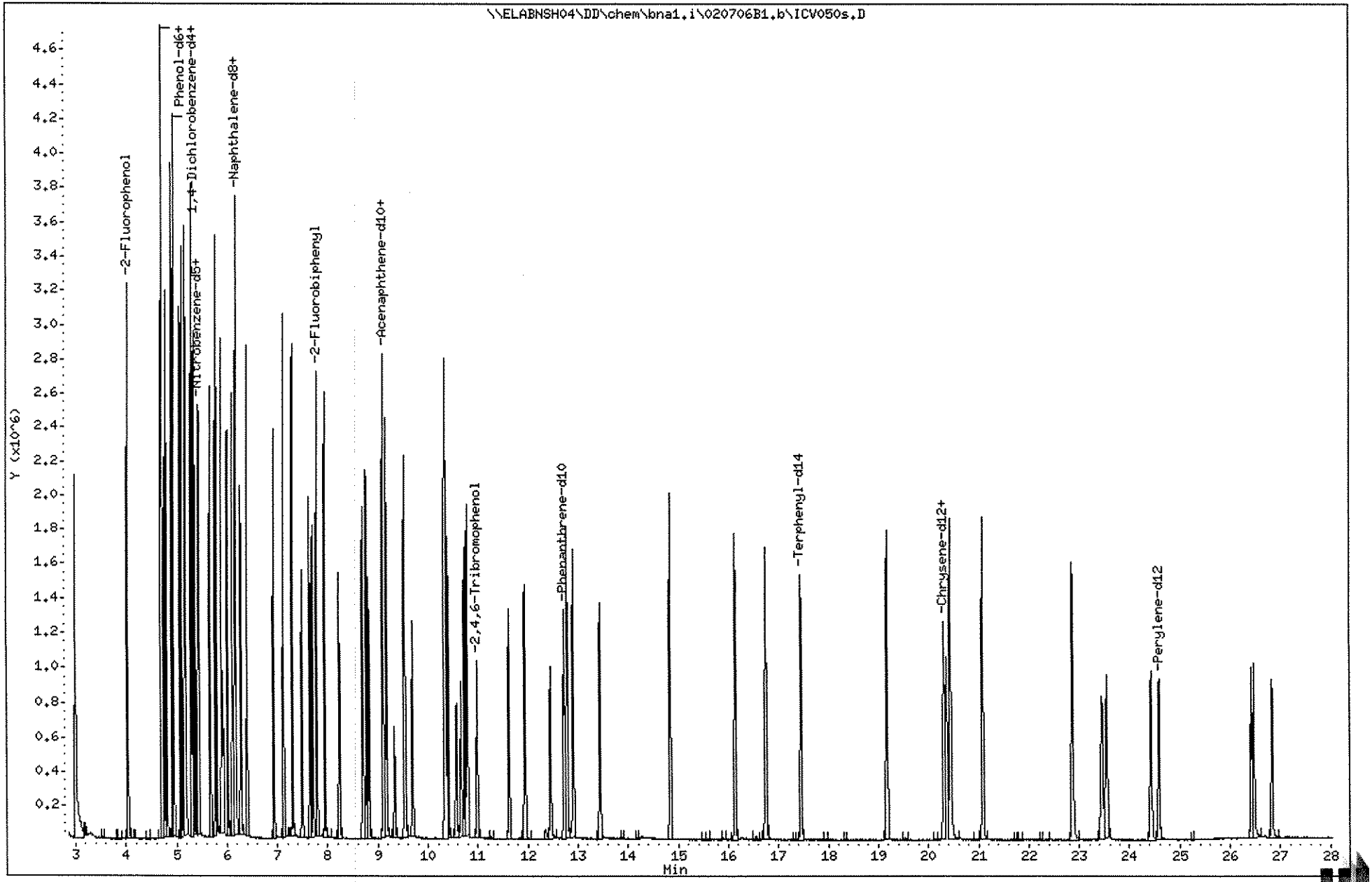
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
$ 102 2,4,6-Tribromophenol	330	10.994	11.056	(0.864)	184174	54.7254	3648
103 4-Bromophenyl-phenylether	248	11.630	11.680	(0.914)	259522	42.2519	2817
104 Hexachlorobenzene	284	11.946	11.996	(0.939)	341501	48.2158	3214
105 Pentachlorophenol	266	12.454	12.510	(0.978)	204418	45.0409	3003
106 Phenanthrene	178	12.798	12.855	(1.005)	1347041	46.8768	3125
107 Anthracene	178	12.914	12.972	(1.015)	1302594	47.4591	3164
109 Di-n-butylphthalate	149	14.847	14.900	(1.166)	2185025	50.7914	3386
110 Fluoranthene	202	16.145	16.204	(1.268)	1456550	49.1326	3276
* 124 Chrysene-d12	240	20.370	20.358	(1.000)	711666	40.0000	
126 Pyrene	202	16.755	16.812	(0.823)	1458436	48.1669	3211
$ 127 Terphenyl-d14	244	17.460	17.510	(0.857)	894403	50.1138	3341
128 Butylbenzylphthalate	149	19.177	19.230	(0.941)	977413	55.6655	3711
129 3,3'-Dichlorobenzidine	252	20.461	20.503	(1.004)	316608	50.4295	3362
130 Benzo(a)anthracene	228	20.322	20.384	(0.998)	1154092	47.7969	3186
131 Chrysene	228	20.447	20.508	(1.004)	961573	45.6195	3041
132 Bis(2-ethylhexyl)phthalate	149	21.091	21.141	(1.035)	1165142	55.1332	3676
* 145 Perylene-d12	264	24.586	24.571	(1.000)	673890	40.0000	
146 Di-n-octylphthalate	149	22.874	22.928	(0.930)	1987561	54.8161	3654
147 Benzo(b)fluoranthene	252	23.464	23.548	(0.954)	1008177	46.5820	3105(H)
148 Benzo(k)fluoranthene	252	23.554	23.645	(0.958)	987765	45.4968	3033
149 Benzo(a)pyrene	252	24.440	24.509	(0.994)	893313	47.8121	3187
150 Indeno(1,2,3-cd)pyrene	276	26.431	26.481	(1.075)	721186	49.5883	3306
151 Dibenz(a,h)anthracene	278	26.480	26.529	(1.077)	682654	48.6822	3245
152 Benzo(g,h,i)perylene	276	26.837	26.893	(1.092)	699424	51.4336	3429

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Date : 07-FEB-2006 15:25
Client ID: ICV050PPM
Instrument: bna1.i
Sample Info: ICV050PPM;;;;;SV3355
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000372



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
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Inj Date : 19-APR-2006 15:52
Operator : ADM Inst ID: bna1.i
Smp Info : CAL001PPM;;;;;SV3350-1
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mu/m/c

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	497331	40.0000	
$	2 2-Fluorophenol	112	4.003	4.003	(0.815)	36078	2.00000	2.094(a)
$	3 Phenol-d6	99	4.665	4.665	(0.949)	46038	2.00000	2.236(a)
	4 Pyridine	79	3.010	3.010	(0.613)	22473	1.00000	1.013(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	11180	1.00000	0.9717(a)
	6 Aniline	93	4.699	4.699	(0.956)	28952	1.00000	1.189(a)
	8 Phenol	94	4.672	4.672	(0.951)	28188	1.00000	1.197(aM)
	9 bis(2-Chloroethyl)ether	93	4.733	4.733	(0.963)	23284	1.00000	1.128(a)
	10 2-Chlorophenol	128	4.775	4.775	(0.972)	17889	1.00000	1.093(a)
	11 1,3-Dichlorobenzene	146	4.879	4.879	(0.993)	20759	1.00000	1.118(a)
	12 1,4-Dichlorobenzene	146	4.920	4.920	(1.001)	19560	1.00000	1.111(a)
	13 Benzyl alcohol	108	5.029	5.029	(1.024)	8658	1.00000	0.7732(a)
	14 1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	18530	1.00000	1.126(a)
	15 2-Methylphenol	108	5.132	5.132	(1.044)	15002	1.00000	0.9827(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	45268	1.00000	1.130(a)
	17 3-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	18 4-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	14317	1.00000	1.004(aM)
	20 Hexachloroethane	117	5.331	5.331	(1.085)	8158	1.00000	1.041(a)
*	31 Naphthalene-d8	136	6.112	6.112	(1.000)	1532117	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.882)	14389	1.00000	0.8603(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	14750	1.00000	0.8710(aM)
	35 Isophorone	82	5.629	5.629	(0.921)	36330	1.00000	1.007(aM)
	36 2-Nitrophenol	139	5.719	5.719	(0.936)	6425	1.00000	0.7152(aM)
	38 2,4-Dimethylphenol	107	5.747	5.747	(0.940)	14996	1.00000	1.032(a)
	40 bis(2-Chloroethoxy)methane	93	5.850	5.850	(0.957)	22515	1.00000	1.038(a)
	43 2,4-Dichlorophenol	162	5.960	5.960	(0.975)	11385	1.00000	0.9485(a)
	46 1,2,4-Trichlorobenzene	180	6.064	6.064	(0.992)	13522	1.00000	1.056(a)
	47 Naphthalene	128	6.132	6.132	(1.003)	41883	1.00000	1.099(a)
	48 4-Chloroaniline	127	6.222	6.222	(1.018)	16807	1.00000	1.079(a)
	49 Hexachlorobutadiene	225	6.359	6.359	(1.040)	6881	1.00000	1.062(aM)
	50 4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	10552	1.00000	0.8805(a)
	51 2-Methylnaphthalene	141	7.059	7.059	(1.155)	22486	1.00000	1.027(a)
	53 Acetophenone	105	5.256	5.256	(1.070)	24187	1.00000	1.187(a)
	64 Caprolactam	113	6.637	6.637	(1.086)	3534	1.00000	0.8093(a)
*	65 Acenaphthene-d10	164	9.016	9.016	(1.000)	753119	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	2536	1.00000	0.5635(aM)
	67 2,4,6-Trichlorophenol	196	7.572	7.572	(0.840)	6526	1.00000	0.9238(aM)
	68 2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	6661	1.00000	0.9102(aM)
	69 2-Chloronaphthalene	162	7.870	7.870	(0.873)	25059	1.00000	1.178(a)
$	70 2-Fluorobiphenyl	172	7.718	7.718	(0.856)	26249	1.00000	1.095(a)
	71 2-Nitroaniline	65	8.138	8.138	(0.903)	4791	1.00000	0.5782(aM)
	72 Dimethylphthalate	163	8.606	8.606	(0.955)	27050	1.00000	1.014(aM)
	73 Acenaphthylene	152	8.683	8.683	(0.963)	33963	1.00000	1.072(a)
	75 3-Nitroaniline	138	9.002	9.002	(0.998)	3590	1.00000	0.5529(a)
	76 Acenaphthene	153	9.077	9.077	(1.007)	22511	1.00000	1.036(a)
	80 Dibenzofuran	168	9.429	9.429	(1.046)	30159	1.00000	1.001(a)
	81 2,4-Dinitrotoluene	165	9.588	9.588	(1.063)	2574	1.00000	0.3478(aM)
	82 Diethylphthalate	149	10.247	10.247	(1.137)	82949	1.00000	3.246(a)
	83 4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	10891	1.00000	1.097(a)
	84 Fluorene	166	10.233	10.233	(1.135)	24120	1.00000	1.038(a)
	96 1,1'-Biphenyl	154	7.870	7.870	(0.873)	29634	1.00000	1.108(a)
*	98 Phenanthrene-d10	188	12.615	12.615	(1.000)	946499	40.0000	
	99 1,2-Diphenylhydrazine	77	10.681	10.681	(0.847)	34121	1.00000	1.072(a)
	100 Carbazole	167	13.320	13.320	(1.056)	27083	1.00000	1.041(aM)
	102 N-Nitrosodiphenylamine	169	10.618	10.618	(0.842)	15449	1.00000	1.040(a)
$	103 2,4,6-Tribromophenol	330	10.874	10.874	(0.862)	5864	2.00000	1.679(aM)
	104 4-Bromophenyl-phenylether	248	11.524	11.524	(0.913)	6598	1.00000	1.024(a)
	105 Hexachlorobenzene	284	11.825	11.825	(0.937)	7281	1.00000	1.027(a)
	106 Pentachlorophenol	266	12.332	12.332	(0.978)	1962	1.00000	0.4364(aM)
	107 Phenanthrene	178	12.664	12.664	(1.004)	28372	1.00000	1.051(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
108 Anthracene	178	12.787	12.787	(1.014)	27984	1.00000	1.050(a)
110 Di-n-butylphthalate	149	14.732	14.732	(1.168)	41275	1.00000	0.9393(aM)
111 Fluoranthene	202	15.998	15.998	(1.268)	25169	1.00000	0.9420(a)
* 127 Chrysene-d12	240	20.222	20.222	(1.000)	688321	40.0000	
129 Pyrene	202	16.606	16.606	(0.821)	27809	1.00000	1.012(a)
$ 130 Terphenyl-d14	244	17.326	17.326	(0.857)	16954	1.00000	0.9754(a)
131 Butylbenzylphthalate	149	19.048	19.048	(0.942)	13304	1.00000	0.7782(aM)
133 Benzo(a)anthracene	228	20.174	20.174	(0.998)	21634	1.00000	0.9755(a)
134 Chrysene	228	20.291	20.291	(1.003)	18180	1.00000	0.8975(a)
135 Bis(2-ethylhexyl)phthalate	149	20.976	20.976	(1.037)	17302	1.00000	0.7754(aM)
* 149 Perylene-d12	264	24.438	24.438	(1.000)	601750	40.0000	
150 Di-n-octylphthalate	149	22.745	22.745	(0.931)	17403	1.00000	0.5202(aM)
151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	14209	1.00000	0.7665(aM)
152 Benzo(k)fluoranthene	252	23.336	23.336	(0.955)	16941	1.00000	0.8809(aM)
153 Benzo(a)pyrene	252	24.254	24.254	(0.992)	12423	1.00000	0.7772(aM)
154 Indeno(1,2,3-cd)pyrene	276	26.310	26.310	(1.077)	7005	1.00000	0.5137(aM)
155 Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	7871	1.00000	0.5733(aM)
156 Benzo(g,h,i)perylene	276	26.701	26.701	(1.093)	11398	1.00000	0.8054(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Date : 19-APR-2006 15:52
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Sample Info: CAL001PPM;;;;;SV3350-1
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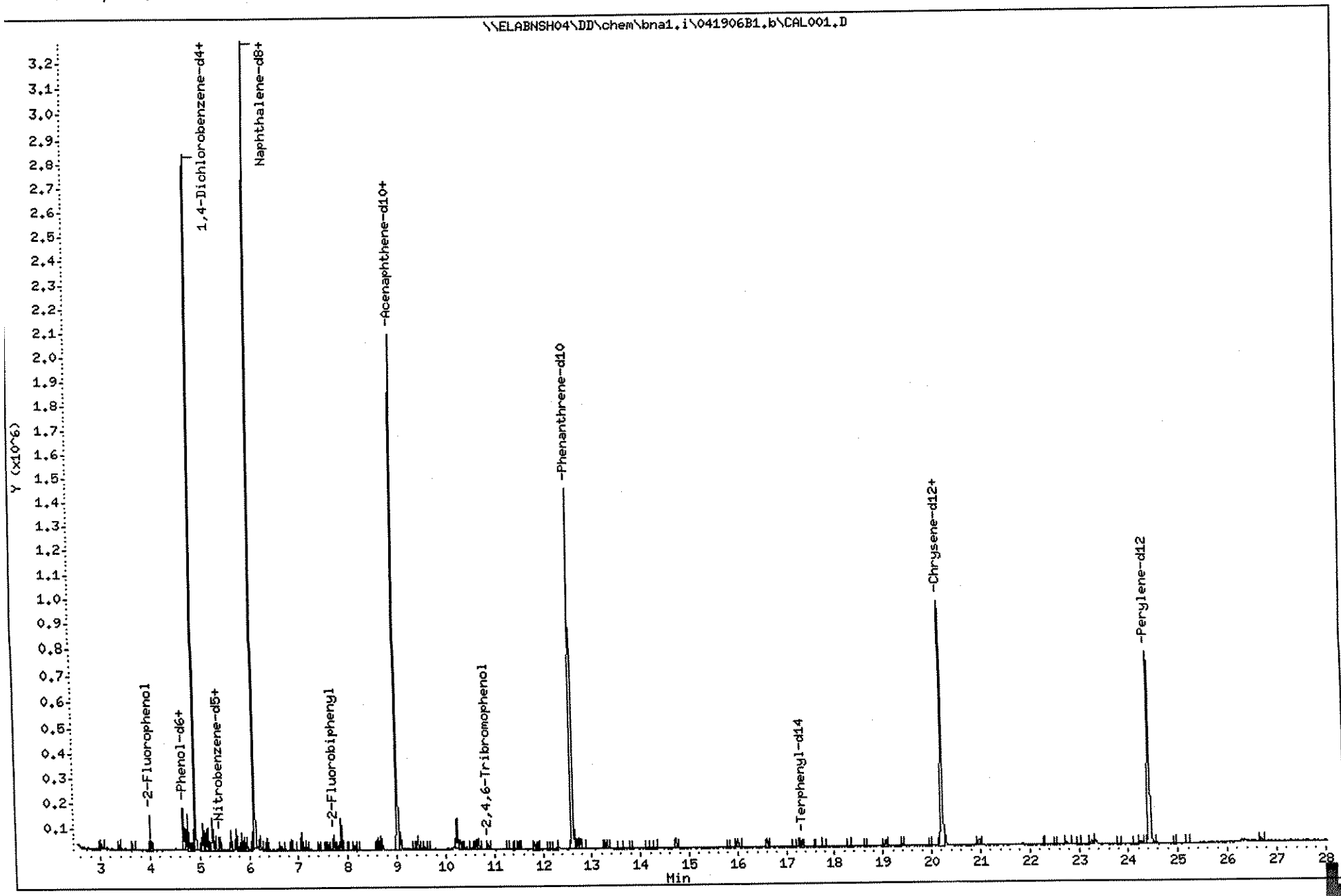
Column phase: fused silica

Instrument: bna1.i

Operator: ADM
Column diameter: 0.25

000376



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
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Inj Date : 19-APR-2006 16:28
Operator : ADM Inst ID: bna1.i
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	459672	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	68870	4.00000	4.325(a)
$	3 Phenol-d6	99	4.664	4.664	(0.950)	85094	4.00000	4.471(a)
	4 Pyridine	79	2.995	2.995	(0.610)	40772	2.00000	1.988(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	21276	2.00000	2.001(a)
	6 Aniline	93	4.698	4.698	(0.957)	51006	2.00000	2.337(a)
	8 Phenol	94	4.678	4.678	(0.952)	49628	2.00000	2.280(a)
	9 bis(2-Chloroethyl)ether	93	4.732	4.732	(0.963)	40532	2.00000	2.126(a)
	10 2-Chlorophenol	128	4.774	4.774	(0.972)	32874	2.00000	2.174(a)
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	36234	2.00000	2.112(a)
	12 1,4-Dichlorobenzene.	146	4.925	4.925	(1.003)	33995	2.00000	2.090(a)
	13 Benzyl alcohol	108	5.035	5.035	(1.025)	20674	2.00000	1.998(a)
	14 1,2-Dichlorobenzene	146	5.069	5.069	(1.032)	33357	2.00000	2.194(a)
	15 2-Methylphenol	108	5.131	5.131	(1.045)	29780	2.00000	2.110(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	83878	2.00000	2.266(aM)
	17 3-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	18 4-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	19 N-Nitroso-di-n-propylamine	70	5.277	5.277	(1.074)	26739	2.00000	2.028(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	15115	2.00000	2.087(a)
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1335461	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.883)	26415	2.00000	1.812(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	29840	2.00000	2.022(a)
	35 Isophorone	82	5.630	5.630	(0.921)	70649	2.00000	2.247(a)
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	11891	2.00000	1.518(aM)
	38 2,4-Dimethylphenol	107	5.747	5.747	(0.940)	29447	2.00000	2.325(a)
	39 Benzoic acid	105	5.803	5.803	(0.950)	7645	2.00000	0.9760(aM)
	40 bis(2-Chloroethoxy)methane	93	5.851	5.851	(0.957)	43588	2.00000	2.304(a)
	43 2,4-Dichlorophenol	162	5.961	5.961	(0.975)	21361	2.00000	2.042(a)
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	25796	2.00000	2.311(a)
	47 Naphthalene	128	6.132	6.132	(1.003)	75317	2.00000	2.268(a)
	48 4-Chloroaniline	127	6.221	6.221	(1.018)	30211	2.00000	2.224(a)
	49 Hexachlorobutadiene	225	6.359	6.359	(1.041)	12807	2.00000	2.268(a)
	50 4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	22172	2.00000	2.123(a)
	51 2-Methylnaphthalene	141	7.058	7.058	(1.155)	45240	2.00000	2.371(a)
	53 Acetophenone	105	5.256	5.256	(1.070)	45056	2.00000	2.392(a)
	64 Caprolactam	113	6.636	6.636	(1.086)	8282	2.00000	2.176(a)
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	715946	40.0000	
	66 Hexachlorocyclopentadiene	237	7.431	7.431	(0.824)	5499	2.00000	1.285(a)
	67 2,4,6-Trichlorophenol	196	7.570	7.570	(0.840)	11714	2.00000	1.744(a)
	68 2,4,5-Trichlorophenol	196	7.631	7.631	(0.847)	12083	2.00000	1.737(aM)
	69 2-Chloronaphthalene	162	7.873	7.873	(0.873)	44566	2.00000	2.203(a)
$	70 2-Fluorobiphenyl	172	7.714	7.714	(0.856)	49686	2.00000	2.181(a)
	71 2-Nitroaniline	65	8.143	8.143	(0.903)	10033	2.00000	1.274(a)
	72 Dimethylphthalate	163	8.610	8.610	(0.955)	54323	2.00000	2.142(aM)
	73 Acenaphthylene	152	8.681	8.681	(0.963)	63502	2.00000	2.110(a)
	74 2,6-Dinitrotoluene	165	8.729	8.729	(0.968)	5524	2.00000	0.9940(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	8965	2.00000	1.452(a)
	76 Acenaphthene	153	9.076	9.076	(1.007)	44844	2.00000	2.170(a)
	79 4-Nitrophenol	65	9.421	9.421	(1.045)	5069	2.00000	1.190(aM)
	80 Dibenzofuran	168	9.434	9.434	(1.047)	60824	2.00000	2.124(a)
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	7054	2.00000	1.003(aM)
	82 Diethylphthalate	149	10.248	10.248	(1.137)	91680	2.00000	3.774(a)
	83 4-Chlorophenyl-phenylether	204	10.303	10.303	(1.143)	19176	2.00000	2.031(a)
	84 Fluorene	166	10.234	10.234	(1.135)	45902	2.00000	2.077(a)
	85 4-Nitroaniline	138	10.422	10.422	(1.156)	7010	2.00000	1.324(a)
	96 1,1'-Biphenyl	154	7.866	7.866	(0.873)	59011	2.00000	2.322(a)
*	98 Phenanthrene-d10	188	12.612	12.612	(1.000)	883734	40.0000	
	99 1,2-Diphenylhydrazine	77	10.678	10.678	(0.847)	63016	2.00000	2.122(a)
	100 Carbazole	167	13.312	13.312	(1.056)	53036	2.00000	2.184(a)
	102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	30977	2.00000	2.234(a)
$	103 2,4,6-Tribromophenol	330	10.879	10.879	(0.863)	11540	4.00000	3.540(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	==========	====	==	======	======	========	=======	=======
104	4-Bromophenyl-phenylether	248	11.520	11.520	(0.913)	12791	2.00000	2.127(a)
105	Hexachlorobenzene	284	11.828	11.828	(0.938)	14101	2.00000	2.130(a)
106	Pentachlorophenol	266	12.334	12.334	(0.978)	4144	2.00000	0.9871(aM)
107	Phenanthrene	178	12.667	12.667	(1.004)	52935	2.00000	2.101(a)
108	Anthracene	178	12.784	12.784	(1.014)	54512	2.00000	2.191(a)
110	Di-n-butylphthalate	149	14.728	14.728	(1.168)	85620	2.00000	2.087(a)
111	Fluoranthene	202	16.003	16.003	(1.269)	51110	2.00000	2.049(a)
* 127	Chrysene-d12	240	20.225	20.225	(1.000)	672325	40.0000	
129	Pyrene	202	16.608	16.608	(0.821)	55190	2.00000	2.055(a)
$ 130	Terphenyl-d14	244	17.328	17.328	(0.857)	32936	2.00000	1.940(a)
131	Butylbenzylphthalate	149	19.055	19.055	(0.942)	27940	2.00000	1.673(a)
133	Benzo(a)anthracene	228	20.170	20.170	(0.997)	43857	2.00000	2.024(a)
134	Chrysene	228	20.287	20.287	(1.003)	39003	2.00000	1.971(a)
135	Bis(2-ethylhexyl)phthalate	149	20.977	20.977	(1.037)	37089	2.00000	1.702(aM)
* 149	Perylene-d12	264	24.442	24.442	(1.000)	644607	40.0000	
150	Di-n-octylphthalate	149	22.741	22.741	(0.930)	42134	2.00000	1.176(aM)
151	Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	37481	2.00000	1.888(a)
152	Benzo(k)fluoranthene	252	23.334	23.334	(0.955)	38940	2.00000	1.890(a)
153	Benzo(a)pyrene	252	24.260	24.260	(0.993)	29929	2.00000	1.748(a)
154	Indeno(1,2,3-cd)pyrene	276	26.304	26.304	(1.076)	21081	2.00000	1.443(a)
155	Dibenz(a,h)anthracene	278	26.359	26.359	(1.078)	20490	2.00000	1.393(a)
156	Benzo(g,h,i)perylene	276	26.700	26.700	(1.092)	28849	2.00000	1.903(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
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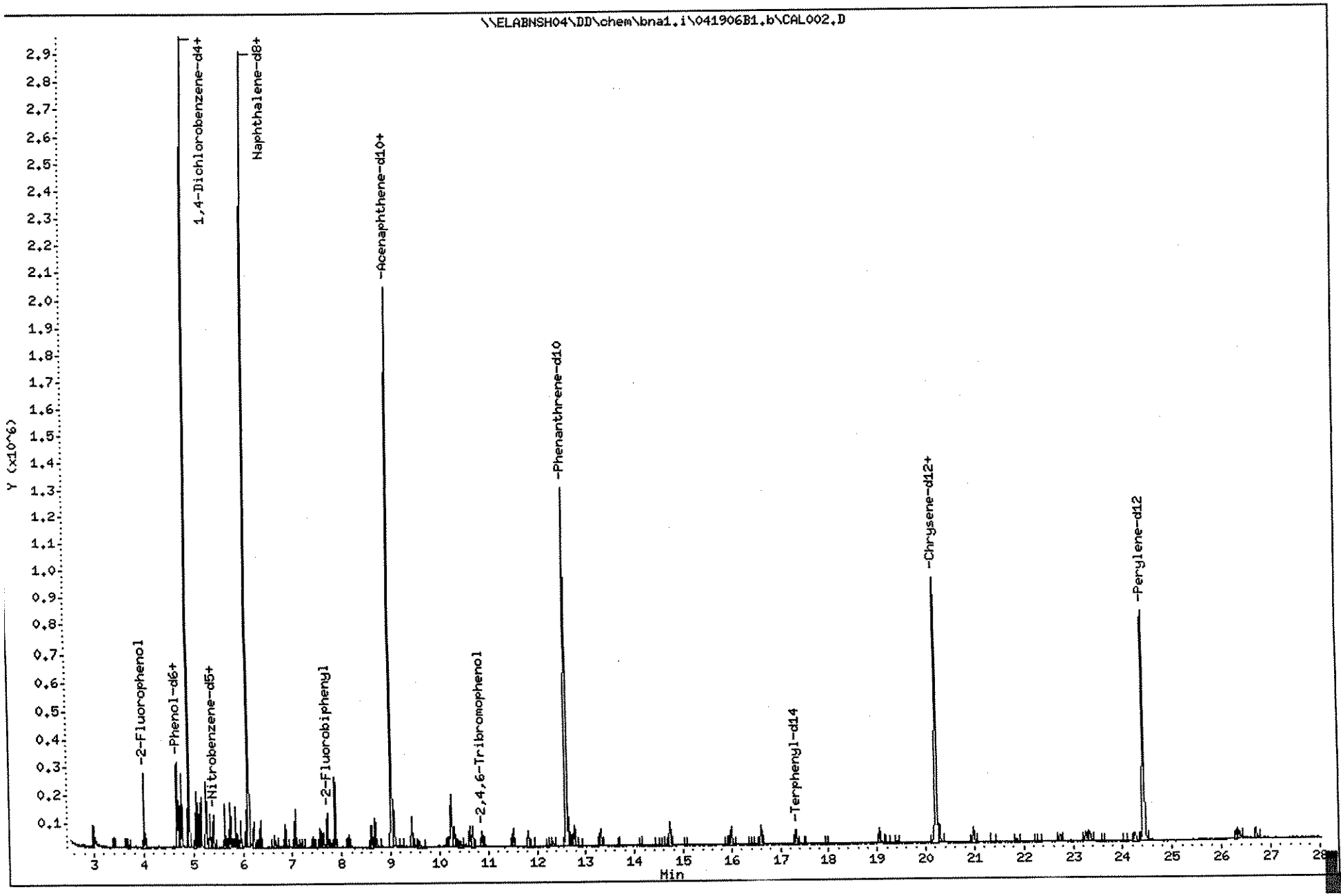
Client ID: CAL002PPM
Sample Info: CAL002PPM;;;;;SV3350-2
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000380



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

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Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
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Inj Date : 19-APR-2006 17:04
Operator : ADM Inst ID: bna1.i
Smp Info : CAL005PPM;;;;;SV3350-3
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	475614	40.0000	
$ 2	2-Fluorophenol	112	4.004	4.004	(0.815)	171345	10.0000	10.40
$ 3	Phenol-d6	99	4.665	4.665	(0.950)	215645	10.0000	10.95
4	Pyridine	79	2.983	2.983	(0.607)	93470	5.00000	4.406(aM)
5	N-Nitroso-di-methylamine	42	2.976	2.976	(0.606)	52719	5.00000	4.791(a)
6	Aniline	93	4.699	4.699	(0.957)	123379	5.00000	5.924
8	Phenol	94	4.679	4.679	(0.953)	123324	5.00000	5.476
9	bis(2-Chloroethyl)ether	93	4.733	4.733	(0.964)	102620	5.00000	5.201
10	2-Chlorophenol	128	4.775	4.775	(0.972)	85348	5.00000	5.454
11	1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	89714	5.00000	5.055
12	1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	90966	5.00000	5.404
13	Benzyl alcohol	108	5.036	5.036	(1.025)	53082	5.00000	4.957(a)
14	1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	83771	5.00000	5.326
15	2-Methylphenol	108	5.132	5.132	(1.045)	73753	5.00000	5.052

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	212876	5.00000	5.558
	17 3-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	18 4-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	67319	5.00000	4.935(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	37012	5.00000	4.939(a)
*	31 Naphthalene-d8	136	6.113	6.113	(1.000)	1420826	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.882)	73173	5.00000	4.718(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	80339	5.00000	5.116
	35 Isophorone	82	5.627	5.627	(0.920)	169909	5.00000	5.079
	36 2-Nitrophenol	139	5.716	5.716	(0.935)	34608	5.00000	4.154(a)
	38 2,4-Dimethylphenol	107	5.750	5.750	(0.941)	69848	5.00000	5.183(a)
	39 Benzoic acid	105	5.818	5.818	(0.952)	24938	5.00000	2.980(aM)
	40 bis(2-Chloroethoxy)methane	93	5.852	5.852	(0.957)	110579	5.00000	5.495
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	58290	5.00000	5.236
	46 1,2,4-Trichlorobenzene	180	6.065	6.065	(0.992)	62407	5.00000	5.255
	47 Naphthalene	128	6.134	6.134	(1.003)	193155	5.00000	5.468
	48 4-Chloroaniline	127	6.222	6.222	(1.018)	78431	5.00000	5.428
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	30279	5.00000	5.040
	50 4-Chloro-3-methylphenol	107	6.863	6.863	(1.123)	52760	5.00000	4.747(a)
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	102639	5.00000	5.056
	53 Acetophenone	105	5.255	5.255	(1.070)	108140	5.00000	5.548
	64 Caprolactam	113	6.623	6.623	(1.083)	22025	5.00000	5.439
*	65 Acenaphthene-d10	164	9.021	9.021	(1.000)	694890	40.0000	
	66 Hexachlorocyclopentadiene	237	7.438	7.438	(0.824)	16668	5.00000	4.014(a)
	67 2,4,6-Trichlorophenol	196	7.571	7.571	(0.839)	31616	5.00000	4.850(a)
	68 2,4,5-Trichlorophenol	196	7.626	7.626	(0.845)	32441	5.00000	4.804(a)
	69 2-Chloronaphthalene	162	7.868	7.868	(0.872)	108794	5.00000	5.541
$	70 2-Fluorobiphenyl	172	7.715	7.715	(0.855)	121535	5.00000	5.496
	71 2-Nitroaniline	65	8.146	8.146	(0.903)	34106	5.00000	4.461(a)
	72 Dimethylphthalate	163	8.607	8.607	(0.954)	126646	5.00000	5.146
	73 Acenaphthylene	152	8.683	8.683	(0.962)	159380	5.00000	5.455
	74 2,6-Dinitrotoluene	165	8.730	8.730	(0.968)	19532	5.00000	3.621(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	25055	5.00000	4.182(a)
	76 Acenaphthene	153	9.083	9.083	(1.007)	106758	5.00000	5.323
	77 2,4-Dinitrophenol	184	9.227	9.227	(1.023)	4038	5.00000	1.716(aM)
	79 4-Nitrophenol	65	9.435	9.435	(1.046)	14854	5.00000	3.594(a)
	80 Dibenzofuran	168	9.435	9.435	(1.046)	152747	5.00000	5.496
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	22756	5.00000	3.332(a)
	82 Diethylphthalate	149	10.251	10.251	(1.136)	144613	5.00000	6.133
	83 4-Chlorophenyl-phenylether	204	10.305	10.305	(1.142)	46998	5.00000	5.129
	84 Fluorene	166	10.230	10.230	(1.134)	111406	5.00000	5.194
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	20170	5.00000	3.924(a)
	96 1,1'-Biphenyl	154	7.868	7.868	(0.872)	144530	5.00000	5.859
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	911816	40.0000	
	99 1,2-Diphenylhydrazine	77	10.676	10.676	(0.846)	156696	5.00000	5.113
	100 Carbazole	167	13.314	13.314	(1.055)	127381	5.00000	5.083
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	6274	5.00000	1.927(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

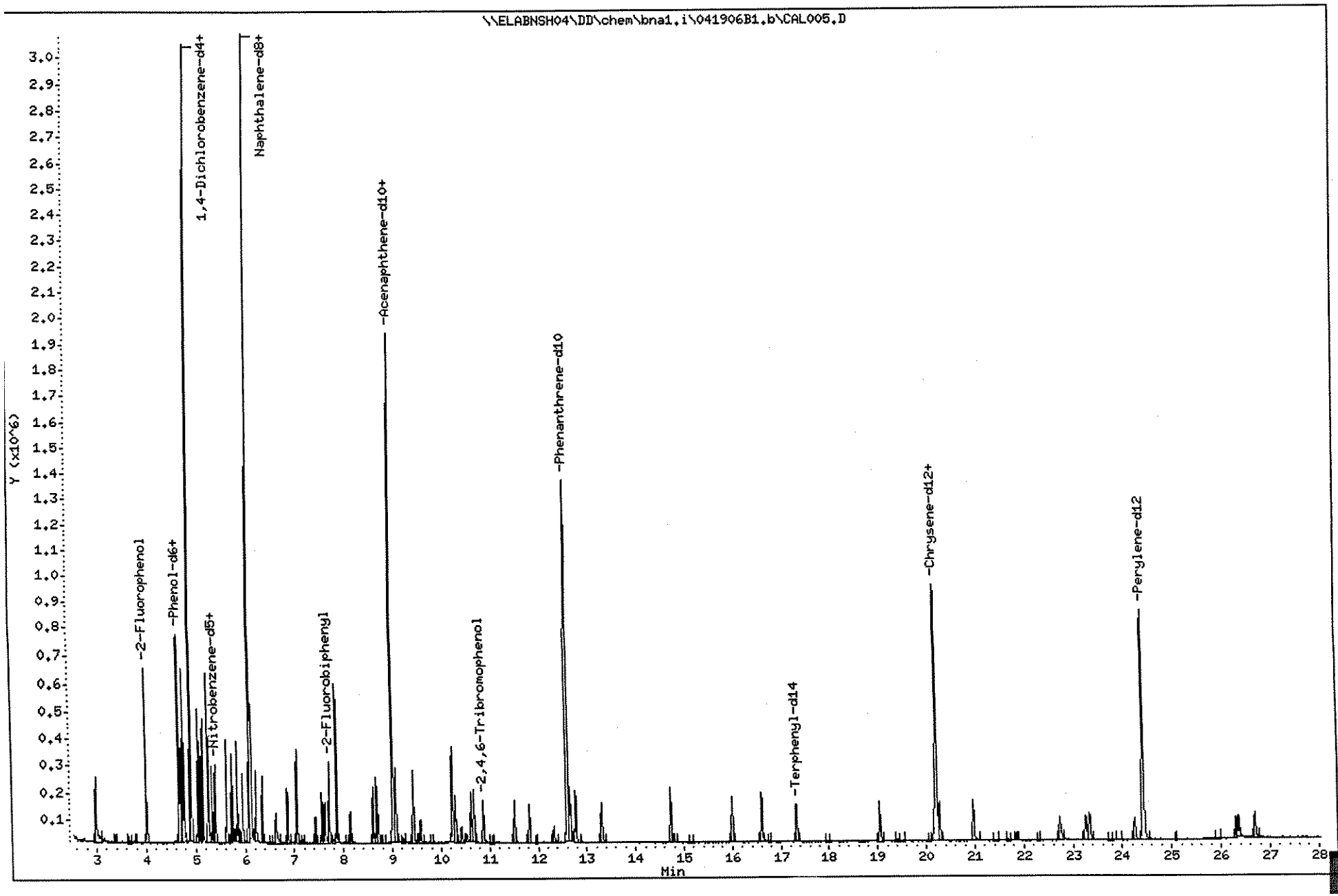
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.622	10.622	(0.842)	71989	5.00000	5.033
$ 103 2,4,6-Tribromophenol	330	10.882	10.882	(0.863)	29866	10.0000	8.878
104 4-Bromophenyl-phenylether	248	11.518	11.518	(0.913)	33042	5.00000	5.325
105 Hexachlorobenzene	284	11.826	11.826	(0.937)	35919	5.00000	5.258
106 Pentachlorophenol	266	12.338	12.338	(0.978)	13491	5.00000	3.114(a)
107 Phenanthrene	178	12.665	12.665	(1.004)	133874	5.00000	5.149
108 Anthracene	178	12.782	12.782	(1.013)	133385	5.00000	5.197
110 Di-n-butylphthalate	149	14.729	14.729	(1.167)	211721	5.00000	5.002
111 Fluoranthene	202	16.007	16.007	(1.269)	132887	5.00000	5.163
* 127 Chrysene-d12	240	20.223	20.223	(1.000)	672352	40.0000	
129 Pyrene	202	16.610	16.610	(0.821)	135545	5.00000	5.048
$ 130 Terphenyl-d14	244	17.321	17.321	(0.857)	84320	5.00000	4.966(a)
131 Butylbenzylphthalate	149	19.053	19.053	(0.942)	80968	5.00000	4.849(a)
133 Benzo(a)anthracene	228	20.169	20.169	(0.997)	104322	5.00000	4.816(a)
134 Chrysene	228	20.285	20.285	(1.003)	97332	5.00000	4.919(a)
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	94980	5.00000	4.358(a)
* 149 Perylene-d12	264	24.443	24.443	(1.000)	645197	40.0000	
150 Di-n-octylphthalate	149	22.746	22.746	(0.931)	124491	5.00000	3.471(a)
151 Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	87676	5.00000	4.411(a)
152 Benzo(k)fluoranthene	252	23.345	23.345	(0.955)	100619	5.00000	4.880(a)
153 Benzo(a)pyrene	252	24.255	24.255	(0.992)	78542	5.00000	4.583(a)
154 Indeno(1,2,3-cd)pyrene	276	26.311	26.311	(1.076)	52428	5.00000	3.586(a)
155 Dibenz(a,h)anthracene	278	26.360	26.360	(1.078)	52469	5.00000	3.564(a)
156 Benzo(g,h,i)perylene	276	26.695	26.695	(1.092)	71525	5.00000	4.714(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Date : 19-APR-2006 17:04
Client ID: CAL005PPM
Instrument: bna1.i
Sample Info: CAL005PPM;;;;;SV3350-3
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000384



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Lab Smp Id: CAL010PPM Client Smp ID: CAL010PPM
Inj Date : 19-APR-2006 17:41
Operator : ADM Inst ID: bna1.i
Smp Info : CAL010PPM;;;;;SV3350-4
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/20/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	451211	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	329284	20.0000	21.07
$	3 Phenol-d6	99	4.669	4.669	(0.951)	421244	20.0000	22.55
	4 Pyridine	79	2.980	2.980	(0.607)	204053	10.0000	10.14(a)
	5 N-Nitroso-di-methylamine	42	2.972	2.972	(0.605)	107740	10.0000	10.32
	6 Aniline	93	4.696	4.696	(0.956)	182559	10.0000	9.943
	8 Phenol	94	4.676	4.676	(0.952)	242634	10.0000	11.36
	9 bis(2-Chloroethyl)ether	93	4.738	4.738	(0.965)	202714	10.0000	10.83
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	157383	10.0000	10.60
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	180851	10.0000	10.74
	12 1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	170132	10.0000	10.65
	13 Benzyl alcohol	108	5.034	5.034	(1.025)	104367	10.0000	10.27
	14 1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	167450	10.0000	11.22
	15 2-Methylphenol	108	5.130	5.130	(1.045)	142427	10.0000	10.28

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	406264	10.0000	11.18
	17 3-Methylphenol	108	5.249	5.249	(1.069)	145547	10.0000	11.12(M)
	18 4-Methylphenol	108	5.249	5.249	(1.069)	145384	10.0000	11.11(M)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	143274	10.0000	11.07
	20 Hexachloroethane	117	5.330	5.330	(1.085)	75523	10.0000	10.62
*	31 Naphthalene-d8	136	6.108	6.108	(1.000)	1400300	40.0000	
$	32 Nitrobenzene-d5	82	5.392	5.392	(0.883)	153864	10.0000	10.06
	33 Nitrobenzene	77	5.413	5.413	(0.886)	162990	10.0000	10.53
	35 Isophorone	82	5.628	5.628	(0.921)	337864	10.0000	10.25
	36 2-Nitrophenol	139	5.717	5.717	(0.936)	73857	10.0000	8.995
	38 2,4-Dimethylphenol	107	5.745	5.745	(0.940)	141059	10.0000	10.62(a)
	39 Benzoic acid	105	5.827	5.827	(0.954)	60354	10.0000	7.253(aM)
	40 bis(2-Chloroethoxy)methane	93	5.854	5.854	(0.958)	210569	10.0000	10.62
	43 2,4-Dichlorophenol	162	5.958	5.958	(0.975)	113426	10.0000	10.34
	46 1,2,4-Trichlorobenzene	180	6.060	6.060	(0.992)	117341	10.0000	10.02
	47 Naphthalene	128	6.136	6.136	(1.004)	380277	10.0000	10.92
	48 4-Chloroaniline	127	6.225	6.225	(1.019)	148951	10.0000	10.46
	49 Hexachlorobutadiene	225	6.356	6.356	(1.041)	63250	10.0000	10.68
	50 4-Chloro-3-methylphenol	107	6.867	6.867	(1.124)	109973	10.0000	10.04
	51 2-Methylnaphthalene	141	7.061	7.061	(1.156)	213423	10.0000	10.67
	53 Acetophenone	105	5.255	5.255	(1.070)	210910	10.0000	11.40
	64 Caprolactam	113	6.629	6.629	(1.085)	34274	10.0000	8.588
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	725842	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.825)	33932	10.0000	7.824
	67 2,4,6-Trichlorophenol	196	7.575	7.575	(0.840)	67082	10.0000	9.852
	68 2,4,5-Trichlorophenol	196	7.630	7.630	(0.846)	68137	10.0000	9.660
	69 2-Chloronaphthalene	162	7.872	7.872	(0.873)	222381	10.0000	10.84
$	70 2-Fluorobiphenyl	172	7.713	7.713	(0.855)	239712	10.0000	10.38
	71 2-Nitroaniline	65	8.147	8.147	(0.903)	74506	10.0000	9.330(a)
	72 Dimethylphthalate	163	8.608	8.608	(0.954)	266177	10.0000	10.35
	73 Acenaphthylene	152	8.684	8.684	(0.963)	320879	10.0000	10.51
	74 2,6-Dinitrotoluene	165	8.732	8.732	(0.968)	48269	10.0000	8.567
	75 3-Nitroaniline	138	9.005	9.005	(0.998)	57620	10.0000	9.207(a)
	76 Acenaphthene	153	9.082	9.082	(1.007)	216491	10.0000	10.33
	77 2,4-Dinitrophenol	184	9.233	9.233	(1.024)	11927	10.0000	4.816(a)
	79 4-Nitrophenol	65	9.434	9.434	(1.046)	39392	10.0000	9.125(a)
	80 Dibenzofuran	168	9.434	9.434	(1.046)	303293	10.0000	10.45
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	60589	10.0000	8.494
	82 Diethylphthalate	149	10.256	10.256	(1.137)	282462	10.0000	11.47
	83 4-Chlorophenyl-phenylether	204	10.304	10.304	(1.142)	98876	10.0000	10.33
	84 Fluorene	166	10.235	10.235	(1.135)	230648	10.0000	10.29
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	44171	10.0000	8.228(a)
	96 1,1'-Biphenyl	154	7.865	7.865	(0.872)	290184	10.0000	11.26
*	98 Phenanthrene-d10	188	12.615	12.615	(1.000)	927460	40.0000	
	99 1,2-Diphenylhydrazine	77	10.684	10.684	(0.847)	325188	10.0000	10.43
	100 Carbazole	167	13.315	13.315	(1.055)	263893	10.0000	10.35
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	19387	10.0000	5.808(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

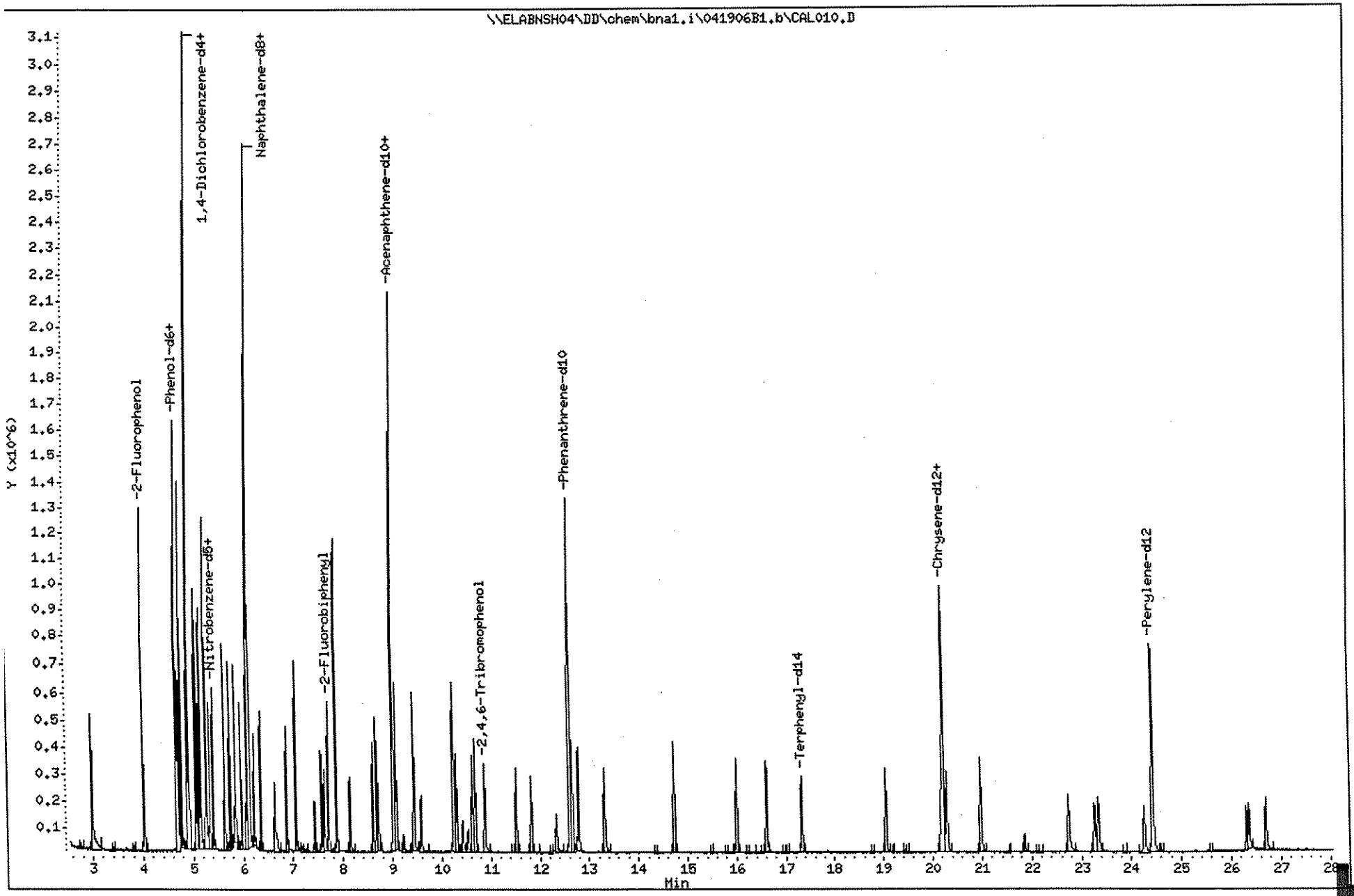
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	149668	10.0000	10.29
$	103 2,4,6-Tribromophenol	330	10.883	10.883	(0.863)	64685	20.0000	18.90
	104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	65210	10.0000	10.33
	105 Hexachlorobenzene	284	11.828	11.828	(0.938)	71643	10.0000	10.31
	106 Pentachlorophenol	266	12.335	12.335	(0.978)	34405	10.0000	7.809(a)
	107 Phenanthrene	178	12.670	12.670	(1.004)	269498	10.0000	10.19
	108 Anthracene	178	12.787	12.787	(1.014)	274651	10.0000	10.52
	110 Di-n-butylphthalate	149	14.735	14.735	(1.168)	449677	10.0000	10.44
	111 Fluoranthene	202	16.009	16.009	(1.269)	269448	10.0000	10.29
*	127 Chrysene-d12	240	20.227	20.227	(1.000)	676674	40.0000	
	129 Pyrene	202	16.612	16.612	(0.821)	266777	10.0000	9.872
$	130 Terphenyl-d14	244	17.326	17.326	(0.857)	169339	10.0000	9.910
	131 Butylbenzylphthalate	149	19.052	19.052	(0.942)	167331	10.0000	9.956
	133 Benzo(a)anthracene	228	20.179	20.179	(0.998)	211736	10.0000	9.712
	134 Chrysene	228	20.289	20.289	(1.003)	199340	10.0000	10.01
	135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	214066	10.0000	9.759
*	149 Perylene-d12	264	24.436	24.436	(1.000)	607007	40.0000	
	150 Di-n-octylphthalate	149	22.744	22.744	(0.931)	303554	10.0000	8.996
	151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	176724	10.0000	9.451
	152 Benzo(k)fluoranthene	252	23.342	23.342	(0.955)	204048	10.0000	10.52
	153 Benzo(a)pyrene	252	24.256	24.256	(0.993)	155167	10.0000	9.624
	154 Indeno(1,2,3-cd)pyrene	276	26.309	26.309	(1.077)	103651	10.0000	7.535
	155 Dibenz(a,h)anthracene	278	26.364	26.364	(1.079)	105250	10.0000	7.600
	156 Benzo(g,h,i)perylene	276	26.697	26.697	(1.093)	137357	10.0000	9.622

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Date : 19-APR-2006 17:41
Client ID: CAL010PPM
Instrument: bna1.i
Sample Info: CAL010PPM;;;;;SV3350-4
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000388



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Lab Smp Id: CAL020PPM Client Smp ID: CAL020PPM
Inj Date : 19-APR-2006 18:17
Operator : ADM Inst ID: bna1.i
Smp Info : CAL020PPM;;;;;SV3350-5
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH 2/16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	450379	40.0000	
$	2 2-Fluorophenol	112	4.006	4.006	(0.816)	696867	40.0000	44.67
$	3 Phenol-d6	99	4.676	4.676	(0.953)	837325	40.0000	44.90
	4 Pyridine	79	2.969	2.969	(0.605)	466100	20.0000	23.20
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	230605	20.0000	22.13
	6 Aniline	93	4.696	4.696	(0.957)	322468	20.0000	20.26
	8 Phenol	94	4.682	4.682	(0.954)	472819	20.0000	22.17
	9 bis(2-Chloroethyl)ether	93	4.737	4.737	(0.965)	395751	20.0000	21.18
	10 2-Chlorophenol	128	4.778	4.778	(0.973)	317071	20.0000	21.40
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	365029	20.0000	21.72
	12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	346837	20.0000	21.76
	13 Benzyl alcohol	108	5.033	5.033	(1.025)	221967	20.0000	21.89
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	326841	20.0000	21.94
	15 2-Methylphenol	108	5.136	5.136	(1.046)	296787	20.0000	21.47

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.157	5.157	(1.051)	790093	20.0000	21.78
	17 3-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	18 4-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	19 N-Nitroso-di-n-propylamine	70	5.280	5.280	(1.076)	274613	20.0000	21.26
	20 Hexachloroethane	117	5.335	5.335	(1.087)	152119	20.0000	21.44
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1389364	40.0000	
$	32 Nitrobenzene-d5	82	5.396	5.396	(0.883)	329513	20.0000	21.73
	33 Nitrobenzene	77	5.417	5.417	(0.886)	335345	20.0000	21.84
	35 Isophorone	82	5.630	5.630	(0.921)	677625	20.0000	20.72
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	177658	20.0000	21.81
	38 2,4-Dimethylphenol	107	5.748	5.748	(0.941)	272819	20.0000	20.70
	39 Benzoic acid	105	5.857	5.857	(0.959)	155745	20.0000	18.41(aM)
	40 bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.959)	418015	20.0000	21.24
	43 2,4-Dichlorophenol	162	5.960	5.960	(0.975)	234867	20.0000	21.58
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	252399	20.0000	21.73
	47 Naphthalene	128	6.138	6.138	(1.004)	757785	20.0000	21.94
	48 4-Chloroaniline	127	6.221	6.221	(1.018)	292038	20.0000	20.67
	49 Hexachlorobutadiene	225	6.358	6.358	(1.040)	125237	20.0000	21.32
	50 4-Chloro-3-methylphenol	107	6.876	6.876	(1.125)	231041	20.0000	21.26
	51 2-Methylnaphthalene	141	7.061	7.061	(1.155)	433542	20.0000	21.84
	53 Acetophenone	105	5.260	5.260	(1.071)	417425	20.0000	22.62
	64 Caprolactam	113	6.646	6.646	(1.087)	75217	20.0000	19.00
*	65 Acenaphthene-d10	164	9.020	9.020	(1.000)	697712	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	81904	20.0000	19.64
	67 2,4,6-Trichlorophenol	196	7.573	7.573	(0.840)	140462	20.0000	21.46
	68 2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	144400	20.0000	21.30
	69 2-Chloronaphthalene	162	7.876	7.876	(0.873)	439171	20.0000	22.28
$	70 2-Fluorobiphenyl	172	7.718	7.718	(0.856)	476178	20.0000	21.45
	71 2-Nitroaniline	65	8.151	8.151	(0.904)	164704	20.0000	21.46
	72 Dimethylphthalate	163	8.617	8.617	(0.955)	512687	20.0000	20.75
	73 Acenaphthylene	152	8.686	8.686	(0.963)	631061	20.0000	21.51
	74 2,6-Dinitrotoluene	165	8.733	8.733	(0.968)	106101	20.0000	19.59
	75 3-Nitroaniline	138	9.013	9.013	(0.999)	119722	20.0000	19.90(a)
	76 Acenaphthene	153	9.082	9.082	(1.007)	430062	20.0000	21.36
	77 2,4-Dinitrophenol	184	9.233	9.233	(1.024)	36080	20.0000	14.78(a)
	79 4-Nitrophenol	65	9.441	9.441	(1.047)	78728	20.0000	18.97(a)
	80 Dibenzofuran	168	9.441	9.441	(1.047)	597294	20.0000	21.40
	81 2,4-Dinitrotoluene	165	9.591	9.591	(1.063)	133829	20.0000	19.52
	82 Diethylphthalate	149	10.255	10.255	(1.137)	505710	20.0000	21.36
	83 4-Chlorophenyl-phenylether	204	10.310	10.310	(1.143)	187598	20.0000	20.39
	84 Fluorene	166	10.235	10.235	(1.135)	462776	20.0000	21.49
	85 4-Nitroaniline	138	10.441	10.441	(1.158)	94078	20.0000	18.23(a)
	96 1,1'-Biphenyl	154	7.869	7.869	(0.872)	563539	20.0000	22.75
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	894149	40.0000	
	99 1,2-Diphenylhydrazine	77	10.688	10.688	(0.847)	647315	20.0000	21.54
	100 Carbazole	167	13.318	13.318	(1.056)	499492	20.0000	20.33
	101 4,6-Dinitro-2-methylphenol	198	10.551	10.551	(0.836)	54723	20.0000	16.61(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.633	10.633	(0.843)	288892	20.0000	20.60
$ 103 2,4,6-Tribromophenol	330	10.881	10.881	(0.862)	141451	40.0000	42.88
104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	123696	20.0000	20.33
105 Hexachlorobenzene	284	11.834	11.834	(0.938)	135119	20.0000	20.17
106 Pentachlorophenol	266	12.342	12.342	(0.978)	75763	20.0000	17.84(a)
107 Phenanthrene	178	12.672	12.672	(1.004)	530235	20.0000	20.80
108 Anthracene	178	12.789	12.789	(1.014)	516667	20.0000	20.53
110 Di-n-butylphthalate	149	14.734	14.734	(1.168)	912958	20.0000	21.99
111 Fluoranthene	202	16.007	16.007	(1.269)	531348	20.0000	21.05
* 127 Chrysene-d12	240	20.228	20.228	(1.000)	640943	40.0000	
129 Pyrene	202	16.620	16.620	(0.822)	547094	20.0000	21.37
$ 130 Terphenyl-d14	244	17.334	17.334	(0.857)	346394	20.0000	21.40
131 Butylbenzylphthalate	149	19.050	19.050	(0.942)	345167	20.0000	21.68
133 Benzo(a)anthracene	228	20.180	20.180	(0.998)	428065	20.0000	20.73
134 Chrysene	228	20.297	20.297	(1.003)	394048	20.0000	20.89
135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	440244	20.0000	21.19
* 149 Perylene-d12	264	24.439	24.439	(1.000)	607539	40.0000	
150 Di-n-octylphthalate	149	22.747	22.747	(0.931)	692650	20.0000	20.51
151 Benzo(b)fluoranthene	252	23.272	23.272	(0.952)	387148	20.0000	20.69
152 Benzo(k)fluoranthene	252	23.354	23.354	(0.956)	402473	20.0000	20.73
153 Benzo(a)pyrene	252	24.260	24.260	(0.993)	339271	20.0000	21.02
154 Indeno(1,2,3-cd)pyrene	276	26.314	26.314	(1.077)	265116	20.0000	19.26
155 Dibenz(a,h)anthracene	278	26.369	26.369	(1.079)	253157	20.0000	18.26
156 Benzo(g,h,i)perylene	276	26.707	26.707	(1.093)	312710	20.0000	21.88

QC Flag Legend

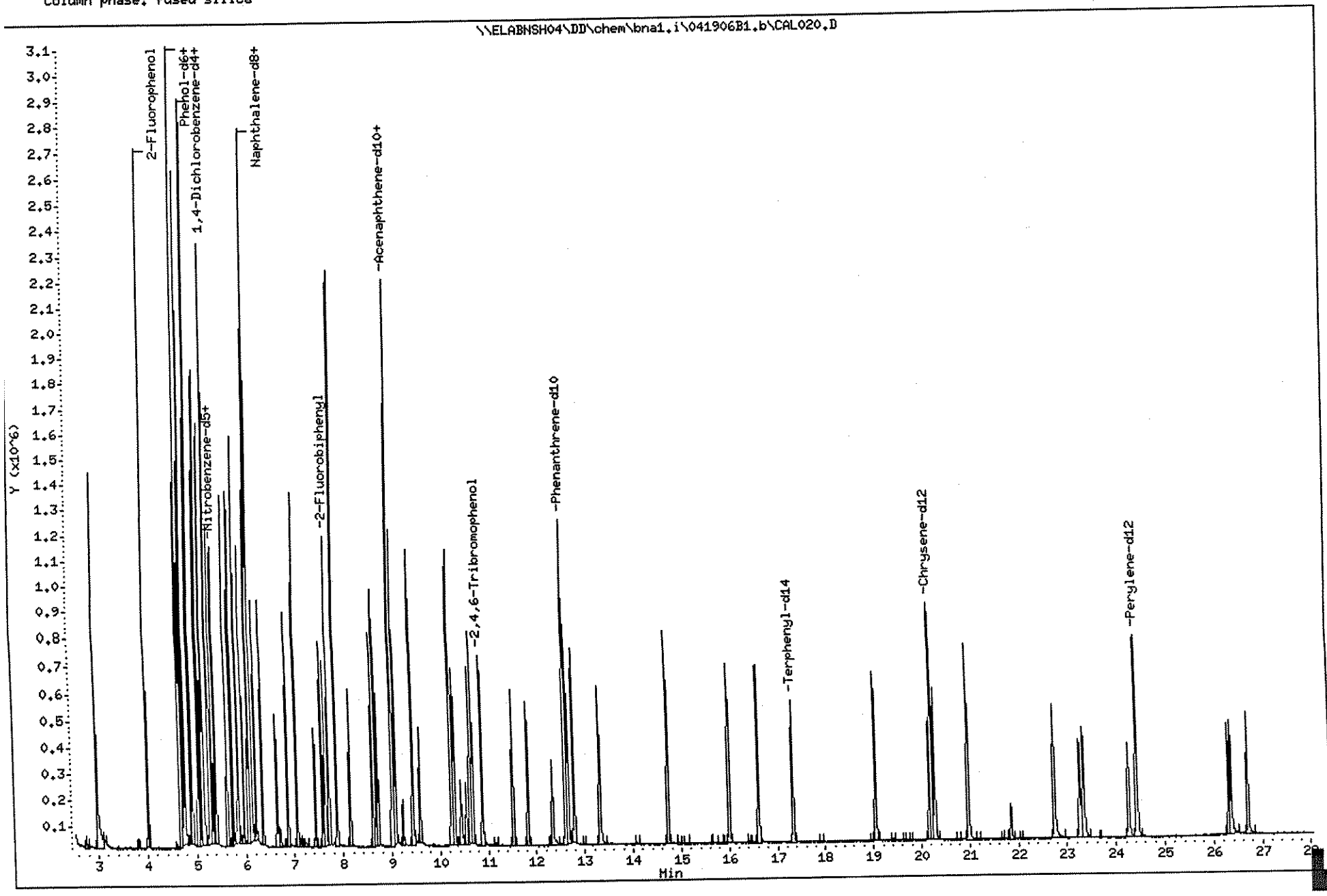
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Date : 19-APR-2006 18:17
Client ID: CAL020PPM
Sample Info: CAL020PPM;;;;;SV3350-5
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000392



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Lab Smp Id: CAL030PPM Client Smp ID: CAL030PPM
Inj Date : 19-APR-2006 18:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL030PPM;;;;;SV3350-6
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	464430	40.0000	
$	2 2-Fluorophenol	112	4.010	4.010	(0.816)	1010229	60.0000	62.80
$	3 Phenol-d6	99	4.673	4.673	(0.951)	1192818	60.0000	62.03
	4 Pyridine	79	2.974	2.974	(0.605)	605623	30.0000	29.23
	5 N-Nitroso-di-methylamine	42	2.981	2.981	(0.607)	331861	30.0000	30.89
	6 Aniline	93	4.701	4.701	(0.957)	430642	30.0000	28.59
	8 Phenol	94	4.687	4.687	(0.954)	673094	30.0000	30.61
	9 bis(2-Chloroethyl)ether	93	4.742	4.742	(0.965)	566971	30.0000	29.43
	10 2-Chlorophenol	128	4.776	4.776	(0.972)	466378	30.0000	30.52
	11 1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	528147	30.0000	30.47
	12 1,4-Dichlorobenzene	146	4.927	4.927	(1.003)	507205	30.0000	30.86
	13 Benzyl alcohol	108	5.037	5.037	(1.025)	327457	30.0000	31.31
	14 1,2-Dichlorobenzene	146	5.071	5.071	(1.032)	480377	30.0000	31.27
	15 2-Methylphenol	108	5.139	5.139	(1.046)	434863	30.0000	30.50

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.160	5.160	(1.050)	1139012	30.0000	30.46
	17 3-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	18 4-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	19 N-Nitroso-di-n-propylamine	70	5.284	5.284	(1.075)	407449	30.0000	30.59
	20 Hexachloroethane	117	5.332	5.332	(1.085)	227403	30.0000	31.08
*	31 Naphthalene-d8	136	6.114	6.114	(1.000)	1412532	40.0000	
$	32 Nitrobenzene-d5	82	5.400	5.400	(0.883)	485029	30.0000	31.46
	33 Nitrobenzene	77	5.414	5.414	(0.886)	497405	30.0000	31.86
	35 Isophorone	82	5.633	5.633	(0.921)	1016262	30.0000	30.56
	36 2-Nitrophenol	139	5.723	5.723	(0.936)	266463	30.0000	32.17
	38 2,4-Dimethylphenol	107	5.751	5.751	(0.941)	421700	30.0000	31.48
	39 Benzoic acid	105	5.874	5.874	(0.961)	265669	30.0000	30.04(M)
	40 bis(2-Chloroethoxy)methane	93	5.853	5.853	(0.957)	623397	30.0000	31.16
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	347064	30.0000	31.36
	46 1,2,4-Trichlorobenzene	180	6.066	6.066	(0.992)	358515	30.0000	30.36
	47 Naphthalene	128	6.135	6.135	(1.003)	1078056	30.0000	30.70
	48 4-Chloroaniline	127	6.224	6.224	(1.018)	427925	30.0000	29.79
	49 Hexachlorobutadiene	225	6.354	6.354	(1.039)	180165	30.0000	30.16
	50 4-Chloro-3-methylphenol	107	6.877	6.877	(1.125)	345748	30.0000	31.29
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	626848	30.0000	31.06
	53 Acetophenone	105	5.263	5.263	(1.071)	586107	30.0000	30.79
	64 Caprolactam	113	6.663	6.663	(1.090)	118291	30.0000	29.38
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	737007	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	130469	30.0000	29.62
	67 2,4,6-Trichlorophenol	196	7.577	7.577	(0.840)	212577	30.0000	30.75
	68 2,4,5-Trichlorophenol	196	7.639	7.639	(0.847)	226025	30.0000	31.56
	69 2-Chloronaphthalene	162	7.879	7.879	(0.874)	637892	30.0000	30.63
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	708455	30.0000	30.21
	71 2-Nitroaniline	65	8.154	8.154	(0.904)	256425	30.0000	31.62
	72 Dimethylphthalate	163	8.619	8.619	(0.956)	806666	30.0000	30.90
	73 Acenaphthylene	152	8.688	8.688	(0.963)	941664	30.0000	30.39
	74 2,6-Dinitrotoluene	165	8.736	8.736	(0.969)	171322	30.0000	29.95
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	192089	30.0000	30.23
	76 Acenaphthene	153	9.088	9.088	(1.008)	650998	30.0000	30.60
	77 2,4-Dinitrophenol	184	9.239	9.239	(1.024)	74027	30.0000	27.72(a)
	79 4-Nitrophenol	65	9.450	9.450	(1.048)	127528	30.0000	29.09
	80 Dibenzofuran	168	9.443	9.443	(1.047)	886023	30.0000	30.06
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	230417	30.0000	31.81
	82 Diethylphthalate	149	10.264	10.264	(1.138)	753378	30.0000	30.12
	83 4-Chlorophenyl-phenylether	204	10.312	10.312	(1.143)	297385	30.0000	30.60
	84 Fluorene	166	10.243	10.243	(1.136)	706258	30.0000	31.04
	85 4-Nitroaniline	138	10.456	10.456	(1.159)	159190	30.0000	29.20
	96 1,1'-Biphenyl	154	7.873	7.873	(0.873)	814600	30.0000	31.14
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	946325	40.0000	
	99 1,2-Diphenylhydrazine	77	10.689	10.689	(0.847)	964200	30.0000	30.31
	100 Carbazole	167	13.322	13.322	(1.056)	769275	30.0000	29.58
	101 4,6-Dinitro-2-methylphenol	198	10.558	10.558	(0.837)	107256	30.0000	29.81

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

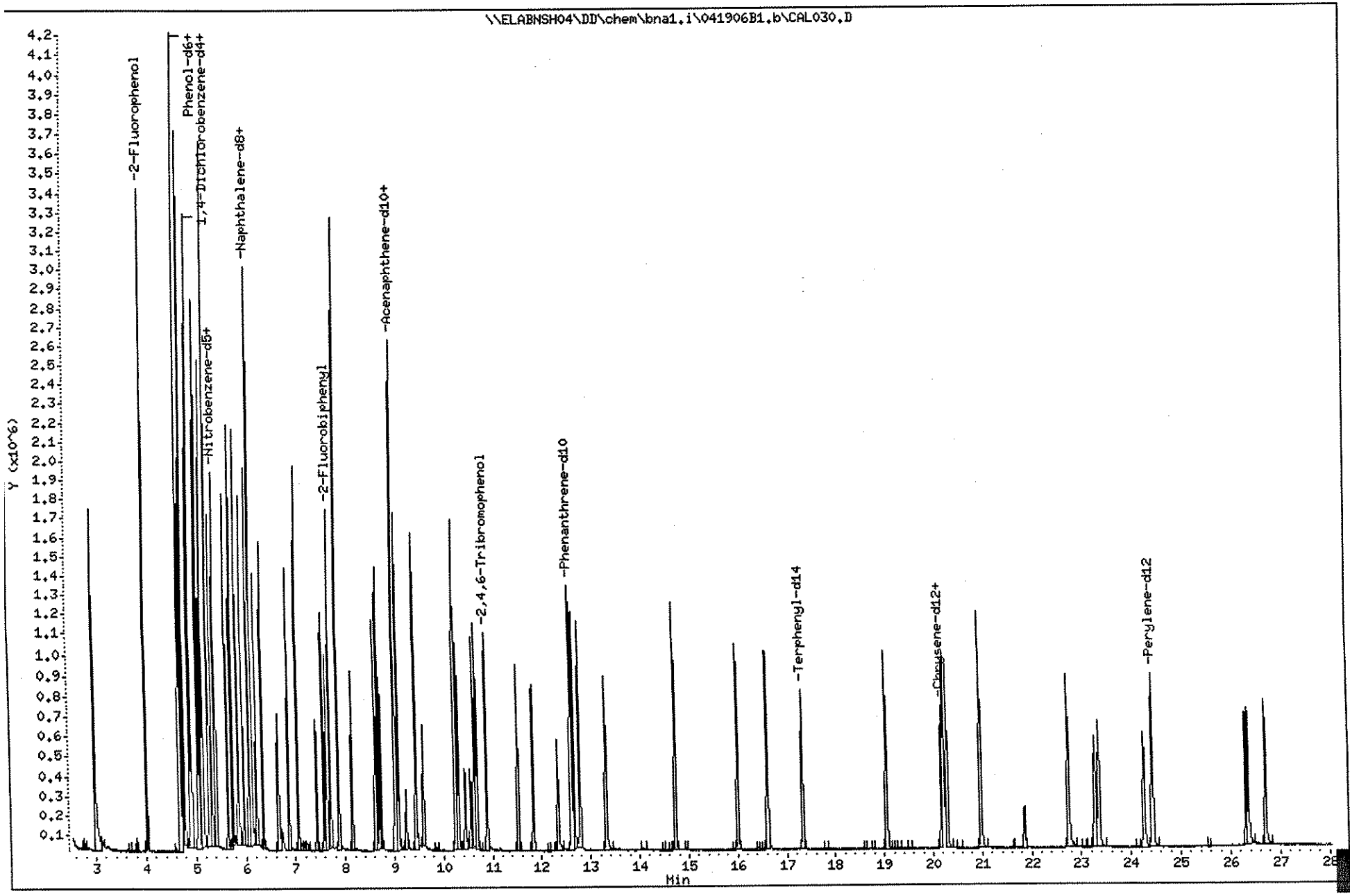
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.634	10.634	(0.843)	455975	30.0000	30.72
$ 103 2,4,6-Tribromophenol	330	10.888	10.888	(0.863)	229258	60.0000	65.67
104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	195029	30.0000	30.29
105 Hexachlorobenzene	284	11.838	11.838	(0.938)	218133	30.0000	30.77
106 Pentachlorophenol	266	12.342	12.342	(0.978)	136628	30.0000	30.39
107 Phenanthrene	178	12.680	12.680	(1.005)	820157	30.0000	30.40
108 Anthracene	178	12.797	12.797	(1.014)	804478	30.0000	30.20
110 Di-n-butylphthalate	149	14.736	14.736	(1.168)	1363073	30.0000	31.03
111 Fluoranthene	202	16.014	16.014	(1.269)	808227	30.0000	30.26
* 127 Chrysene-d12	240	20.232	20.232	(1.000)	698711	40.0000	
129 Pyrene	202	16.618	16.618	(0.821)	838844	30.0000	30.06
$ 130 Terphenyl-d14	244	17.334	17.334	(0.857)	526790	30.0000	29.86
131 Butylbenzylphthalate	149	19.055	19.055	(0.942)	528531	30.0000	30.46
133 Benzo(a)anthracene	228	20.184	20.184	(0.998)	674804	30.0000	29.97
134 Chrysene	228	20.301	20.301	(1.003)	620147	30.0000	30.16
135 Bis(2-ethylhexyl)phthalate	149	20.975	20.975	(1.037)	719235	30.0000	31.75
* 149 Perylene-d12	264	24.448	24.448	(1.000)	650081	40.0000	
150 Di-n-octylphthalate	149	22.746	22.746	(0.930)	1089806	30.0000	30.16
151 Benzo(b)fluoranthene	252	23.287	23.287	(0.953)	619083	30.0000	30.92
152 Benzo(k)fluoranthene	252	23.369	23.369	(0.956)	625224	30.0000	30.09
153 Benzo(a)pyrene	252	24.277	24.277	(0.993)	535702	30.0000	31.02
154 Indeno(1,2,3-cd)pyrene	276	26.320	26.320	(1.077)	424860	30.0000	28.84
155 Dibenz(a,h)anthracene	278	26.375	26.375	(1.079)	431599	30.0000	29.10
156 Benzo(g,h,i)perylene	276	26.717	26.717	(1.093)	505330	30.0000	33.05

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Date : 19-APR-2006 18:53
Client ID: CAL030PPM
Instrument: bna1.i
Sample Info: CAL030PPM;;;;;SV3350-6
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000396



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Lab Smp Id: CAL040PPM Client Smp ID: CAL040PPM
Inj Date : 19-APR-2006 19:29
Operator : ADM Inst ID: bna1.i
Smp Info : CAL040PPM;;;;;SV3350-7
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MMlc

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	416144	40.0000	
$ 2	2-Fluorophenol	112	4.007	4.007	(0.816)	1131144	80.0000	78.47
$ 3	Phenol-d6	99	4.678	4.678	(0.953)	1345512	80.0000	78.09
4	Pyridine	79	2.970	2.970	(0.605)	695183	40.0000	37.45(M)
5	N-Nitroso-di-methylamine	42	2.970	2.970	(0.605)	402275	40.0000	41.78
6	Aniline	93	4.699	4.699	(0.957)	497578	40.0000	40.71
8	Phenol	94	4.685	4.685	(0.954)	803609	40.0000	40.78
9	bis(2-Chloroethyl)ether	93	4.740	4.740	(0.965)	688737	40.0000	39.90
10	2-Chlorophenol	128	4.781	4.781	(0.973)	544377	40.0000	39.76
11	1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	624141	40.0000	40.19
12	1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	598793	40.0000	40.66
13	Benzyl alcohol	108	5.041	5.041	(1.026)	400526	40.0000	42.75
14	1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	565444	40.0000	41.08
15	2-Methylphenol	108	5.137	5.137	(1.046)	518506	40.0000	40.59

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	1339018	40.0000	39.96
	17 3-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	18 4-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	19 N-Nitroso-di-n-propylamine	70	5.288	5.288	(1.077)	479316	40.0000	40.16
	20 Hexachloroethane	117	5.336	5.336	(1.086)	265277	40.0000	40.46
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1245095	40.0000	
$	32 Nitrobenzene-d5	82	5.398	5.398	(0.883)	589998	40.0000	43.41
	33 Nitrobenzene	77	5.418	5.418	(0.887)	591594	40.0000	42.99
	35 Isophorone	82	5.638	5.638	(0.923)	1207688	40.0000	41.20
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	344956	40.0000	47.25
	38 2,4-Dimethylphenol	107	5.754	5.754	(0.942)	482772	40.0000	40.88
	39 Benzoic acid	105	5.884	5.884	(0.963)	349002	40.0000	43.24(M)
	40 bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.958)	719625	40.0000	40.81
	43 2,4-Dichlorophenol	162	5.967	5.967	(0.976)	409374	40.0000	41.97
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	434342	40.0000	41.74
	47 Naphthalene	128	6.139	6.139	(1.004)	1299869	40.0000	41.99
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	517261	40.0000	40.85
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	218690	40.0000	41.54
	50 4-Chloro-3-methylphenol	107	6.879	6.879	(1.126)	416049	40.0000	42.72
	51 2-Methylnaphthalene	141	7.064	7.064	(1.156)	771360	40.0000	43.36
	53 Acetophenone	105	5.267	5.267	(1.072)	667599	40.0000	39.14
	64 Caprolactam	113	6.667	6.667	(1.091)	145150	40.0000	40.90
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	664636	40.0000	
	66 Hexachlorocyclopentadiene	237	7.435	7.435	(0.824)	154155	40.0000	38.82
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.840)	262550	40.0000	42.11
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.847)	272749	40.0000	42.23
	69 2-Chloronaphthalene	162	7.875	7.875	(0.873)	743993	40.0000	39.62
$	70 2-Fluorobiphenyl	172	7.724	7.724	(0.856)	858727	40.0000	40.60
	71 2-Nitroaniline	65	8.156	8.156	(0.904)	315501	40.0000	43.14
	72 Dimethylphthalate	163	8.622	8.622	(0.956)	958109	40.0000	40.70
	73 Acenaphthylene	152	8.691	8.691	(0.964)	1130377	40.0000	40.45
	74 2,6-Dinitrotoluene	165	8.739	8.739	(0.969)	217178	40.0000	42.10
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	243351	40.0000	42.47
	76 Acenaphthene	153	9.088	9.088	(1.008)	775519	40.0000	40.43
	77 2,4-Dinitrophenol	184	9.238	9.238	(1.024)	102868	40.0000	41.01(a)
	79 4-Nitrophenol	65	9.457	9.457	(1.049)	171301	40.0000	43.34
	80 Dibenzofuran	168	9.443	9.443	(1.047)	1083574	40.0000	40.76
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	274029	40.0000	41.96
	82 Diethylphthalate	149	10.267	10.267	(1.138)	898163	40.0000	39.82
	83 4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	351190	40.0000	40.07
	84 Fluorene	166	10.240	10.240	(1.135)	834875	40.0000	40.69
	85 4-Nitroaniline	138	10.459	10.459	(1.160)	214239	40.0000	43.58
	96 1,1'-Biphenyl	154	7.875	7.875	(0.873)	946749	40.0000	40.13
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	864701	40.0000	
	99 1,2-Diphenylhydrazine	77	10.693	10.693	(0.847)	1158233	40.0000	39.85
	100 Carbazole	167	13.323	13.323	(1.056)	976062	40.0000	41.07
	101 4,6-Dinitro-2-methylphenol	198	10.562	10.562	(0.837)	134713	40.0000	39.91

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.638	10.638	(0.843)	531630	40.0000	39.19
$ 103 2,4,6-Tribromophenol	330	10.892	10.892	(0.863)	269677	80.0000	84.54
104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	234101	40.0000	39.79
105 Hexachlorobenzene	284	11.838	11.838	(0.938)	256776	40.0000	39.64
106 Pentachlorophenol	266	12.344	12.344	(0.978)	167421	40.0000	40.76
107 Phenanthrene	178	12.680	12.680	(1.005)	1004785	40.0000	40.75
108 Anthracene	178	12.797	12.797	(1.014)	972588	40.0000	39.96
110 Di-n-butylphthalate	149	14.740	14.740	(1.168)	1632749	40.0000	40.67
111 Fluoranthene	202	16.015	16.015	(1.269)	992534	40.0000	40.66
* 127 Chrysene-d12	240	20.229	20.229	(1.000)	649905	40.0000	
129 Pyrene	202	16.623	16.623	(0.822)	1032872	40.0000	39.79
$ 130 Terphenyl-d14	244	17.333	17.333	(0.857)	656143	40.0000	39.98
131 Butylbenzylphthalate	149	19.061	19.061	(0.942)	663983	40.0000	41.14
133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	846472	40.0000	40.42
134 Chrysene	228	20.305	20.305	(1.004)	783477	40.0000	40.96
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	890148	40.0000	42.25
* 149 Perylene-d12	264	24.444	24.444	(1.000)	607758	40.0000	
150 Di-n-octylphthalate	149	22.742	22.742	(0.930)	1414627	40.0000	41.87
151 Benzo(b)fluoranthene	252	23.286	23.286	(0.953)	781022	40.0000	41.72
152 Benzo(k)fluoranthene	252	23.368	23.368	(0.956)	796060	40.0000	40.98
153 Benzo(a)pyrene	252	24.278	24.278	(0.993)	688181	40.0000	42.63
154 Indeno(1,2,3-cd)pyrene	276	26.322	26.322	(1.077)	537683	40.0000	39.04
155 Dibenz(a,h)anthracene	278	26.370	26.370	(1.079)	541386	40.0000	39.04
156 Benzo(g,h,i)perylene	276	26.721	26.721	(1.093)	589362	40.0000	41.23

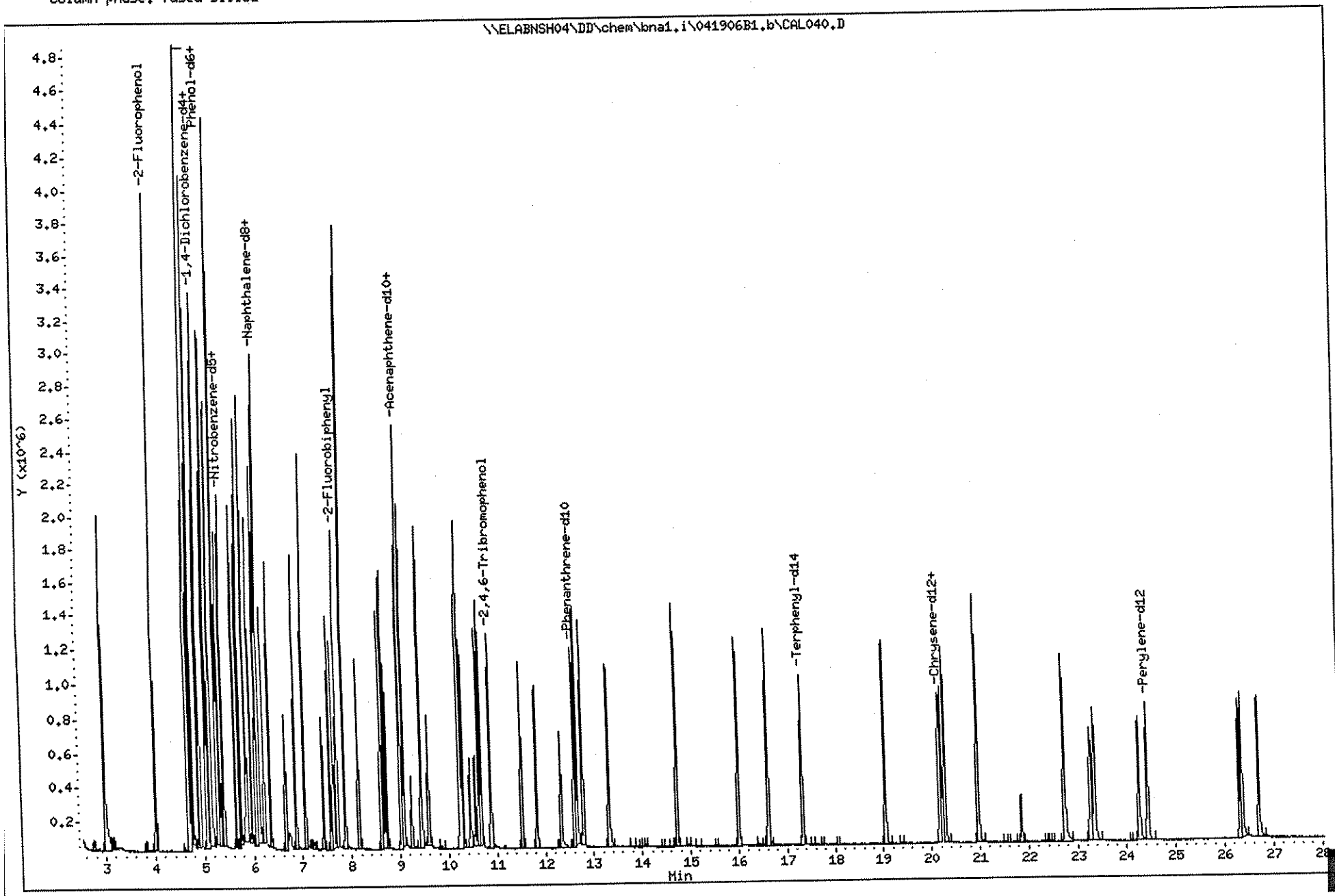
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Date : 19-APR-2006 19:29
Client ID: CAL040PPM
Sample Info: CAL040PPM;;;;;SV3350-7
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000400



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Lab Smp Id: CAL050PPM Client Smp ID: CAL050PPM
Inj Date : 19-APR-2006 20:05
Operator : ADM Inst ID: bna1.i
Smp Info : CAL050PPM;;;;;SV3350-8
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH 4/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	426841	40.0000	
$ 2 2-Fluorophenol	112	4.006	4.006	(0.816)	1394783	100.000	94.34
$ 3 Phenol-d6	99	4.676	4.676	(0.953)	1610208	100.000	91.11
4 Pyridine	79	2.964	2.964	(0.604)	943706	50.0000	49.56
5 N-Nitroso-di-methylamine	42	2.971	2.971	(0.605)	465853	50.0000	47.18
6 Aniline	93	4.703	4.703	(0.958)	1013897	50.0000	114.4(A)
8 Phenol	94	4.690	4.690	(0.955)	971534	50.0000	48.07
9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	821295	50.0000	46.38
10 2-Chlorophenol	128	4.778	4.778	(0.973)	710847	50.0000	50.62
11 1,3-Dichlorobenzene	146	4.882	4.882	(0.994)	744061	50.0000	46.71
12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	723387	50.0000	47.88
13 Benzyl alcohol	108	5.038	5.038	(1.026)	471992	50.0000	49.11
14 1,2-Dichlorobenzene	146	5.073	5.073	(1.033)	661473	50.0000	46.86
15 2-Methylphenol	108	5.135	5.135	(1.046)	630476	50.0000	48.12

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.B\CAL050.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.162	5.162	(1.052)	1578511	50.0000	45.92
	17 3-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	18 4-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	19 N-Nitroso-di-n-propylamine	70	5.286	5.286	(1.077)	586957	50.0000	47.94
	20 Hexachloroethane	117	5.334	5.334	(1.087)	323168	50.0000	48.05
*	31 Naphthalene-d8	136	6.117	6.117	(1.000)	1389508	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	723668	50.0000	47.71
	33 Nitrobenzene	77	5.416	5.416	(0.885)	699190	50.0000	45.53
	35 Isophorone	82	5.642	5.642	(0.922)	1461773	50.0000	44.68
	36 2-Nitrophenol	139	5.718	5.718	(0.935)	405832	50.0000	49.81
	38 2,4-Dimethylphenol	107	5.752	5.752	(0.940)	626896	50.0000	47.57
	39 Benzoic acid	105	5.903	5.903	(0.965)	448357	50.0000	48.97(M)
	40 bis(2-Chloroethoxy)methane	93	5.855	5.855	(0.957)	870457	50.0000	44.23
	43 2,4-Dichlorophenol	162	5.965	5.965	(0.975)	506423	50.0000	46.52
	46 1,2,4-Trichlorobenzene	180	6.061	6.061	(0.991)	517334	50.0000	44.54
	47 Naphthalene	128	6.137	6.137	(1.003)	1531061	50.0000	44.32
	48 4-Chloroaniline	127	6.227	6.227	(1.018)	720936	50.0000	51.02
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	268626	50.0000	45.72
	50 4-Chloro-3-methylphenol	107	6.885	6.885	(1.126)	514534	50.0000	47.34
	51 2-Methylnaphthalene	141	7.069	7.069	(1.156)	881205	50.0000	44.39
	53 Acetophenone	105	5.265	5.265	(1.073)	790123	50.0000	45.17
	64 Caprolactam	113	6.680	6.680	(1.092)	181604	50.0000	45.86
*	65 Acenaphthene-d10	164	9.022	9.022	(1.000)	677103	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	206574	50.0000	51.06
	67 2,4,6-Trichlorophenol	196	7.576	7.576	(0.840)	317582	50.0000	50.00
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.847)	334236	50.0000	50.80
	69 2-Chloronaphthalene	162	7.879	7.879	(0.873)	907587	50.0000	47.44
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	1036824	50.0000	48.12
	71 2-Nitroaniline	65	8.161	8.161	(0.905)	390061	50.0000	52.36
	72 Dimethylphthalate	163	8.628	8.628	(0.956)	1160123	50.0000	48.38
	73 Acenaphthylene	152	8.690	8.690	(0.963)	1352274	50.0000	47.50
	74 2,6-Dinitrotoluene	165	8.745	8.745	(0.969)	276761	50.0000	52.66
	75 3-Nitroaniline	138	9.029	9.029	(1.001)	299073	50.0000	51.23
	76 Acenaphthene	153	9.090	9.090	(1.008)	945069	50.0000	48.36
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.025)	146562	50.0000	54.64
	79 4-Nitrophenol	65	9.460	9.460	(1.049)	209395	50.0000	52.00
	80 Dibenzofuran	168	9.447	9.447	(1.047)	1308607	50.0000	48.32
	81 2,4-Dinitrotoluene	165	9.605	9.605	(1.065)	347886	50.0000	52.28
	82 Diethylphthalate	149	10.266	10.266	(1.138)	1085993	50.0000	47.26
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.143)	439071	50.0000	49.18
	84 Fluorene	166	10.245	10.245	(1.136)	1034771	50.0000	49.51
	85 4-Nitroaniline	138	10.465	10.465	(1.160)	266944	50.0000	53.30
	96 1,1'-Biphenyl	154	7.879	7.879	(0.873)	1131842	50.0000	47.09
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	895080	40.0000	
	99 1,2-Diphenylhydrazine	77	10.699	10.699	(0.848)	1400421	50.0000	46.55
	100 Carbazole	167	13.332	13.332	(1.057)	1184038	50.0000	48.14
	101 4,6-Dinitro-2-methylphenol	198	10.568	10.568	(0.838)	188363	50.0000	52.06

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.D\CAL050.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.644	10.644	(0.844)	663507	50.0000	47.25
$	103 2,4,6-Tribromophenol	330	10.898	10.898	(0.864)	349988	100.000	106.0(A)
	104 4-Bromophenyl-phenylether	248	11.532	11.532	(0.914)	288124	50.0000	47.31
	105 Hexachlorobenzene	284	11.844	11.844	(0.939)	317118	50.0000	47.29
	106 Pentachlorophenol	266	12.351	12.351	(0.979)	211144	50.0000	49.66
	107 Phenanthrene	178	12.681	12.681	(1.005)	1221426	50.0000	47.86
	108 Anthracene	178	12.804	12.804	(1.015)	1235438	50.0000	49.03
	110 Di-n-butylphthalate	149	14.741	14.741	(1.168)	1993207	50.0000	47.97
	111 Fluoranthene	202	16.018	16.018	(1.269)	1257210	50.0000	49.76
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	647428	40.0000	
	129 Pyrene	202	16.628	16.628	(0.822)	1262183	50.0000	48.82
$	130 Terphenyl-d14	244	17.340	17.340	(0.857)	848795	50.0000	51.92
	131 Butylbenzylphthalate	149	19.062	19.062	(0.942)	826767	50.0000	51.42
	133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	1100974	50.0000	52.78
	134 Chrysene	228	20.312	20.312	(1.004)	974329	50.0000	51.14
	135 Bis(2-ethylhexyl)phthalate	149	20.982	20.982	(1.037)	1136949	50.0000	54.17
*	149 Perylene-d12	264	24.443	24.443	(1.000)	688233	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	1736325	50.0000	45.38
	151 Benzo(b)fluoranthene	252	23.293	23.293	(0.953)	1043986	50.0000	49.24
	152 Benzo(k)fluoranthene	252	23.382	23.382	(0.957)	1019570	50.0000	46.35
	153 Benzo(a)pyrene	252	24.285	24.285	(0.994)	932801	50.0000	51.02
	154 Indeno(1,2,3-cd)pyrene	276	26.324	26.324	(1.077)	763675	50.0000	48.96
	155 Dibenz(a,h)anthracene	278	26.380	26.380	(1.079)	731520	50.0000	46.59
	156 Benzo(g,h,i)perylene	276	26.729	26.729	(1.094)	819253	50.0000	50.61

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Date : 19-APR-2006 20:05
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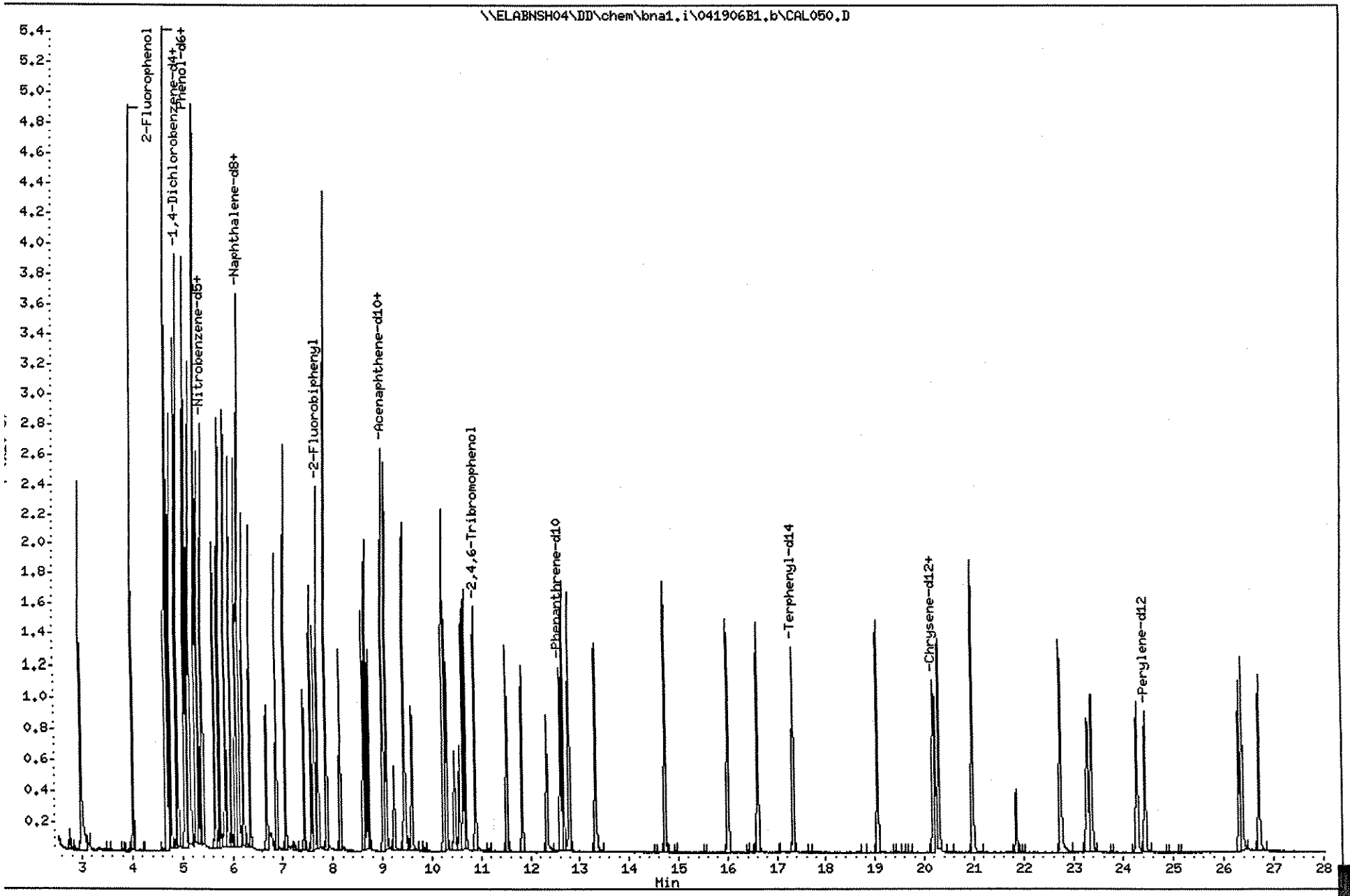
Instrument: bna1.i
Sample Info: CAL050PPM;;;;;SV3350-8
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000404



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
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Inj Date : 19-APR-2006 20:41
Operator : ADM Inst ID: bna1.i
Smp Info : CAL060PPM;;;;;SV3350-9
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MJMC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	346547	40.0000	
$	2 2-Fluorophenol	112	4.004	4.004	(0.816)	1393005	120.000	116.0(A)
$	3 Phenol-d6	99	4.676	4.676	(0.953)	1670274	120.000	116.4(A)
	4 Pyridine	79	2.956	2.956	(0.602)	944907	60.0000	61.13
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	490843	60.0000	61.22
	6 Aniline	93	4.697	4.697	(0.957)	589493	60.0000	68.21
	8 Phenol	94	4.690	4.690	(0.955)	919741	60.0000	56.05
	9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	864560	60.0000	60.14
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	659441	60.0000	57.84
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	772055	60.0000	59.70
	12 1,4-Dichlorobenzene	146	4.923	4.923	(1.003)	716692	60.0000	58.43
	13 Benzyl alcohol	108	5.039	5.039	(1.027)	479538	60.0000	61.46
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	666044	60.0000	58.11
	15 2-Methylphenol	108	5.135	5.135	(1.046)	628825	60.0000	59.11

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.156	5.156	(1.050)	1610415	60.0000	57.71
	17 3-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	18 4-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	19 N-Nitroso-di-n-propylamine	70	5.287	5.287	(1.077)	585339	60.0000	58.89
	20 Hexachloroethane	117	5.335	5.335	(1.087)	324975	60.0000	59.52
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1067027	40.0000	
$	32 Nitrobenzene-d5	82	5.396	5.396	(0.883)	730272	60.0000	62.70
	33 Nitrobenzene	77	5.417	5.417	(0.886)	724122	60.0000	61.40
	35 Isophorone	82	5.637	5.637	(0.922)	1461141	60.0000	58.16
	36 2-Nitrophenol	139	5.719	5.719	(0.936)	414451	60.0000	66.24
	38 2,4-Dimethylphenol	107	5.753	5.753	(0.942)	573890	60.0000	56.71
	39 Benzoic acid	105	5.904	5.904	(0.966)	463519	60.0000	63.06(M)
	40 bis(2-Chloroethoxy)methane	93	5.856	5.856	(0.958)	883190	60.0000	58.44
	43 2,4-Dichlorophenol	162	5.966	5.966	(0.976)	502273	60.0000	60.08
	46 1,2,4-Trichlorobenzene	180	6.062	6.062	(0.992)	508466	60.0000	57.01
	47 Naphthalene	128	6.138	6.138	(1.004)	1531321	60.0000	57.72
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	626869	60.0000	57.77
	49 Hexachlorobutadiene	225	6.358	6.358	(1.040)	265793	60.0000	58.91
	50 4-Chloro-3-methylphenol	107	6.880	6.880	(1.126)	513775	60.0000	61.56
	51 2-Methylnaphthalene	141	7.065	7.065	(1.156)	897226	60.0000	58.86
	53 Acetophenone	105	5.266	5.266	(1.073)	790617	60.0000	55.67
	64 Caprolactam	113	6.681	6.681	(1.093)	190694	60.0000	62.70
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	557024	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.825)	201477	60.0000	60.53
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.841)	329890	60.0000	63.14
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.848)	334706	60.0000	61.83
	69 2-Chloronaphthalene	162	7.882	7.882	(0.874)	894517	60.0000	56.84
$	70 2-Fluorobiphenyl	172	7.725	7.725	(0.857)	1004156	60.0000	56.65
	71 2-Nitroaniline	65	8.157	8.157	(0.905)	395529	60.0000	64.54
	72 Dimethylphthalate	163	8.624	8.624	(0.957)	1170259	60.0000	59.32
	73 Acenaphthylene	152	8.686	8.686	(0.963)	1365262	60.0000	58.29
	74 2,6-Dinitrotoluene	165	8.741	8.741	(0.970)	276121	60.0000	63.86
	75 3-Nitroaniline	138	9.029	9.029	(1.002)	314116	60.0000	65.41
	76 Acenaphthene	153	9.091	9.091	(1.008)	939345	60.0000	58.43
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.026)	147077	60.0000	64.10
	79 4-Nitrophenol	65	9.468	9.468	(1.050)	222415	60.0000	67.14
	80 Dibenzofuran	168	9.448	9.448	(1.048)	1331507	60.0000	59.77
	81 2,4-Dinitrotoluene	165	9.606	9.606	(1.065)	356478	60.0000	65.12
	82 Diethylphthalate	149	10.271	10.271	(1.139)	1074515	60.0000	56.85
	83 4-Chlorophenyl-phenylether	204	10.313	10.313	(1.144)	436159	60.0000	59.38
	84 Fluorene	166	10.244	10.244	(1.136)	1029059	60.0000	59.85
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	285115	60.0000	69.20
	96 1,1'-Biphenyl	154	7.875	7.875	(0.874)	1114873	60.0000	56.38
*	98 Phenanthrene-d10	188	12.619	12.619	(1.000)	753681	40.0000	
	99 1,2-Diphenylhydrazine	77	10.697	10.697	(0.848)	1423240	60.0000	56.18
	100 Carbazole	167	13.332	13.332	(1.056)	1236436	60.0000	59.70
	101 4,6-Dinitro-2-methylphenol	198	10.573	10.573	(0.838)	191799	60.0000	61.16

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

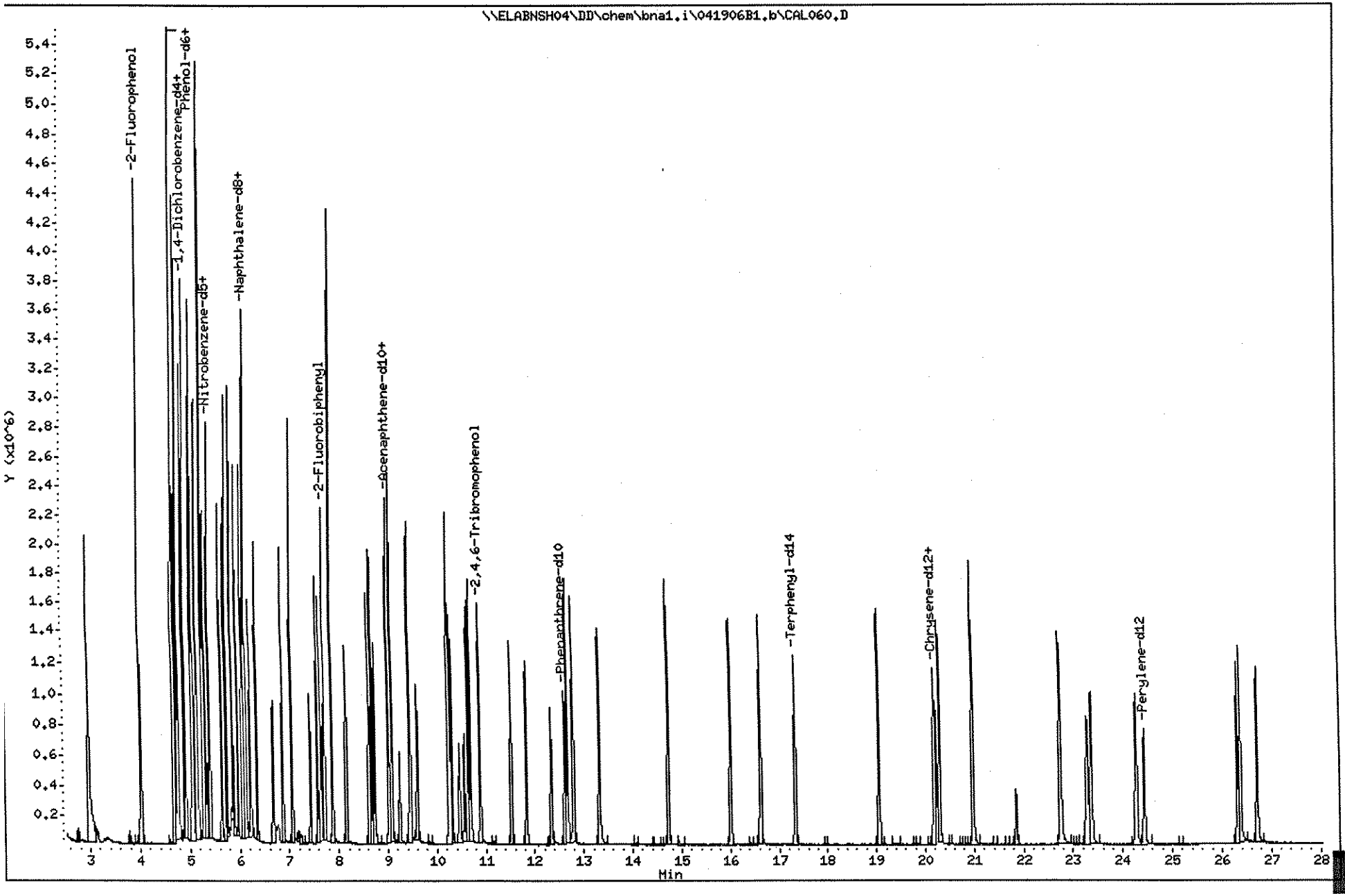
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.642	10.642	(0.843)	684957	60.0000	57.93
$ 103 2,4,6-Tribromophenol	330	10.896	10.896	(0.863)	345236	120.000	124.2(A)
104 4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	294644	60.0000	57.45
105 Hexachlorobenzene	284	11.841	11.841	(0.938)	319630	60.0000	56.61
106 Pentachlorophenol	266	12.343	12.343	(0.978)	215024	60.0000	60.06
107 Phenanthrene	178	12.681	12.681	(1.005)	1254669	60.0000	58.39
108 Anthracene	178	12.805	12.805	(1.015)	1238697	60.0000	58.39
110 Di-n-butylphthalate	149	14.742	14.742	(1.168)	2011711	60.0000	57.49
111 Fluoranthene	202	16.023	16.023	(1.270)	1297131	60.0000	60.97
* 127 Chrysene-d12	240	20.232	20.232	(1.000)	576436	40.0000	
129 Pyrene	202	16.632	16.632	(0.822)	1283874	60.0000	55.77
$ 130 Terphenyl-d14	244	17.335	17.335	(0.857)	842167	60.0000	57.86
131 Butylbenzylphthalate	149	19.063	19.063	(0.942)	874398	60.0000	61.08
133 Benzo(a)anthracene	228	20.191	20.191	(0.998)	1111140	60.0000	59.83
134 Chrysene	228	20.308	20.308	(1.004)	1030757	60.0000	60.76
135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	1135176	60.0000	60.75
* 149 Perylene-d12	264	24.442	24.442	(1.000)	554238	40.0000	
150 Di-n-octylphthalate	149	22.749	22.749	(0.931)	1815279	60.0000	58.92
151 Benzo(b)fluoranthene	252	23.295	23.295	(0.953)	1023868	60.0000	59.97
152 Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1073440	60.0000	60.60
153 Benzo(a)pyrene	252	24.283	24.283	(0.993)	922340	60.0000	62.65
154 Indeno(1,2,3-cd)pyrene	276	26.326	26.326	(1.077)	797190	60.0000	63.47
155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	776403	60.0000	61.40
156 Benzo(g,h,i)perylene	276	26.726	26.726	(1.093)	849219	60.0000	65.15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Date : 19-APR-2006 20:41
Client ID: CAL060PPM
Instrument: bna1.i
Sample Info: CAL060PPM;;;;;SV3350-9
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000408



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Lab Smp Id: CAL070PPM Client Smp ID: CAL070PPM
Inj Date : 19-APR-2006 21:17
Operator : ADM Inst ID: bna1.i
Smp Info : CAL070PPM;;;;;SV3350-10
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mn/mc

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.915	4.915	(1.000)	356087	40.0000	
$ 2	2-Fluorophenol	112	4.005	4.005	(0.815)	1726249	140.000	140.0(A)
$ 3	Phenol-d6	99	4.681	4.681	(0.953)	1955298	140.000	132.6(A)
4	Pyridine	79	2.968	2.968	(0.604)	1140339	70.0000	71.79
5	N-Nitroso-di-methylamine	42	2.974	2.974	(0.605)	564112	70.0000	68.48
6	Aniline	93	4.702	4.702	(0.957)	659657	70.0000	77.65
8	Phenol	94	4.688	4.688	(0.954)	1063294	70.0000	63.06
9	bis(2-Chloroethyl)ether	93	4.743	4.743	(0.965)	967706	70.0000	65.51
10	2-Chlorophenol	128	4.784	4.784	(0.973)	777670	70.0000	66.38
11	1,3-Dichlorobenzene	146	4.887	4.887	(0.994)	913023	70.0000	68.71
12	1,4-Dichlorobenzene	146	4.929	4.929	(1.003)	852332	70.0000	67.63
13	Benzyl alcohol	108	5.045	5.045	(1.026)	553670	70.0000	69.06
14	1,2-Dichlorobenzene	146	5.079	5.079	(1.033)	778386	70.0000	66.10
15	2-Methylphenol	108	5.140	5.140	(1.046)	730358	70.0000	66.82

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	1873601	70.0000	65.34
	17 3-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.36(H)
	18 4-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.37(H)
	19 N-Nitroso-di-n-propylamine	70	5.292	5.292	(1.077)	686163	70.0000	67.18
	20 Hexachloroethane	117	5.333	5.333	(1.085)	392042	70.0000	69.88
*	31 Naphthalene-d8	136	6.115	6.115	(1.000)	1106528	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	858803	70.0000	71.10
	33 Nitrobenzene	77	5.422	5.422	(0.887)	840170	70.0000	68.70
	35 Isophorone	82	5.642	5.642	(0.923)	1719973	70.0000	66.02
	36 2-Nitrophenol	139	5.724	5.724	(0.936)	492380	70.0000	75.89
	38 2,4-Dimethylphenol	107	5.758	5.758	(0.942)	682599	70.0000	65.04
	39 Benzoic acid	105	5.909	5.909	(0.966)	517866	70.0000	67.01(M)
	40 bis(2-Chloroethoxy)methane	93	5.861	5.861	(0.958)	1015334	70.0000	64.78
	43 2,4-Dichlorophenol	162	5.971	5.971	(0.976)	584957	70.0000	67.48
	46 1,2,4-Trichlorobenzene	180	6.067	6.067	(0.992)	638907	70.0000	69.08
	47 Naphthalene	128	6.142	6.142	(1.004)	1784366	70.0000	64.86
	48 4-Chloroaniline	127	6.225	6.225	(1.018)	706313	70.0000	62.76
	49 Hexachlorobutadiene	225	6.356	6.356	(1.039)	312907	70.0000	66.88
	50 4-Chloro-3-methylphenol	107	6.884	6.884	(1.126)	608276	70.0000	70.28
	51 2-Methylnaphthalene	141	7.068	7.068	(1.156)	984687	70.0000	62.29
	53 Acetophenone	105	5.271	5.271	(1.072)	904661	70.0000	61.99
	64 Caprolactam	113	6.692	6.692	(1.094)	227965	70.0000	72.28
*	65 Acenaphthene-d10	164	9.018	9.018	(1.000)	570025	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	199940	70.0000	58.70
	67 2,4,6-Trichlorophenol	196	7.583	7.583	(0.841)	374761	70.0000	70.09
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.848)	387285	70.0000	69.92
	69 2-Chloronaphthalene	162	7.886	7.886	(0.874)	1031414	70.0000	64.04
$	70 2-Fluorobiphenyl	172	7.728	7.728	(0.857)	1208004	70.0000	66.59
	71 2-Nitroaniline	65	8.160	8.160	(0.905)	452096	70.0000	72.08
	72 Dimethylphthalate	163	8.627	8.627	(0.957)	1373041	70.0000	68.01
	73 Acenaphthylene	152	8.689	8.689	(0.964)	1600955	70.0000	66.80
	74 2,6-Dinitrotoluene	165	8.751	8.751	(0.970)	324126	70.0000	73.25
	75 3-Nitroaniline	138	9.032	9.032	(1.002)	324303	70.0000	65.99
	76 Acenaphthene	153	9.094	9.094	(1.008)	1116149	70.0000	67.85
	77 2,4-Dinitrophenol	184	9.252	9.252	(1.026)	162510	70.0000	67.99
	79 4-Nitrophenol	65	9.470	9.470	(1.050)	221749	70.0000	65.41
	80 Dibenzofuran	168	9.450	9.450	(1.048)	1523389	70.0000	66.82
	81 2,4-Dinitrotoluene	165	9.607	9.607	(1.065)	407281	70.0000	72.71
	82 Diethylphthalate	149	10.272	10.272	(1.139)	1297373	70.0000	67.07
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.144)	513049	70.0000	68.26
	84 Fluorene	166	10.251	10.251	(1.137)	1180279	70.0000	67.08
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	265517	70.0000	62.98
	96 1,1'-Biphenyl	154	7.879	7.879	(0.874)	1283268	70.0000	63.42
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	694954	40.0000	
	99 1,2-Diphenylhydrazine	77	10.698	10.698	(0.848)	1610960	70.0000	68.97
	100 Carbazole	167	13.330	13.330	(1.057)	1271070	70.0000	66.55
	101 4,6-Dinitro-2-methylphenol	198	10.574	10.574	(0.838)	205794	70.0000	69.18

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102	N-Nitrosodiphenylamine	169	10.649	10.649	(0.844)	761903	70.0000	69.89
$ 103	2,4,6-Tribromophenol	330	10.896	10.896	(0.864)	386238	140.000	150.6(A)
104	4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	338155	70.0000	71.51
105	Hexachlorobenzene	284	11.841	11.841	(0.939)	370833	70.0000	71.22
106	Pentachlorophenol	266	12.348	12.348	(0.979)	242378	70.0000	73.42
107	Phenanthrene	178	12.685	12.685	(1.005)	1350093	70.0000	68.14
108	Anthracene	178	12.802	12.802	(1.015)	1301163	70.0000	66.51
110	Di-n-butylphthalate	149	14.747	14.747	(1.169)	2295255	70.0000	71.14
111	Fluoranthene	202	16.025	16.025	(1.270)	1344877	70.0000	68.56
* 127	Chrysene-d12	240	20.229	20.229	(1.000)	453976	40.0000	
129	Pyrene	202	16.632	16.632	(0.822)	1346204	70.0000	74.25
$ 130	Terphenyl-d14	244	17.339	17.339	(0.857)	851735	70.0000	74.30
131	Butylbenzylphthalate	149	19.060	19.060	(0.942)	908313	70.0000	80.56
133	Benzo(a)anthracene	228	20.188	20.188	(0.998)	1037608	70.0000	70.94
134	Chrysene	228	20.305	20.305	(1.004)	956853	70.0000	71.62
135	Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1186218	70.0000	80.60
* 149	Perylene-d12	264	24.439	24.439	(1.000)	367952	40.0000	
150	Di-n-octylphthalate	149	22.746	22.746	(0.931)	1659995	70.0000	81.16
151	Benzo(b)fluoranthene	252	23.290	23.290	(0.953)	851399	70.0000	75.12
152	Benzo(k)fluoranthene	252	23.373	23.373	(0.956)	872371	70.0000	74.18
153	Benzo(a)pyrene	252	24.280	24.280	(0.993)	730032	70.0000	74.69
154	Indeno(1,2,3-cd)pyrene	276	26.317	26.317	(1.077)	568920	70.0000	68.22
155	Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	565396	70.0000	67.35
156	Benzo(g,h,i)perylene	276	26.723	26.723	(1.093)	609575	70.0000	70.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Date : 19-APR-2006 21:17
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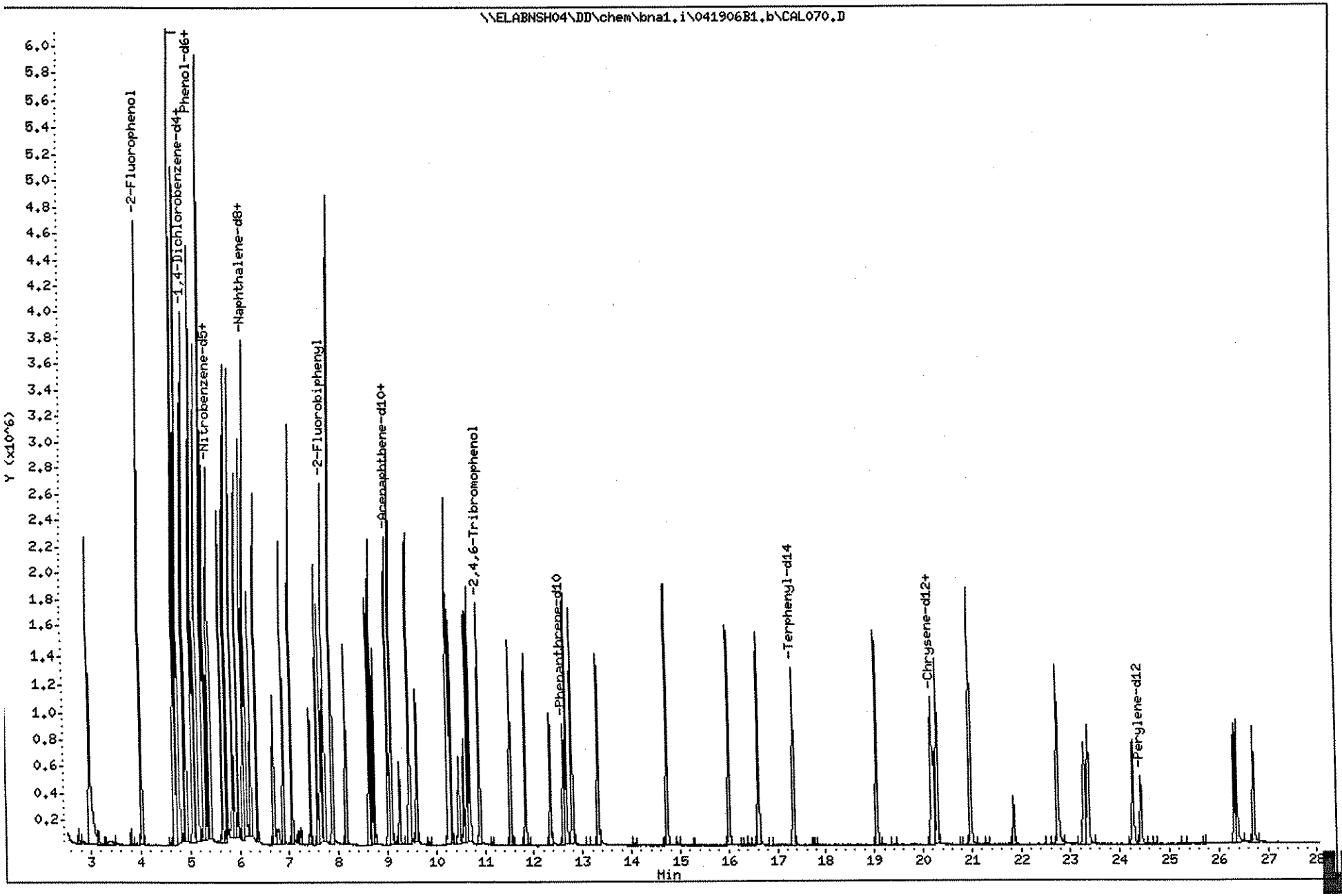
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000412



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
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Inj Date : 19-APR-2006 21:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL080PPM;;;;;SV3350-11
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 12 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MMC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.916	4.916	(1.000)	395752	40.0000	
$	2 2-Fluorophenol	112	4.009	4.009	(0.816)	2081876	160.000	151.9(A)
$	3 Phenol-d6	99	4.683	4.683	(0.953)	2340308	160.000	142.8(A)
	4 Pyridine	79	2.969	2.969	(0.604)	1426222	80.0000	80.79
	5 N-Nitroso-di-methylamine	42	2.977	2.977	(0.606)	711587	80.0000	77.72
	6 Aniline	93	4.704	4.704	(0.957)	796870	80.0000	88.28
	8 Phenol	94	4.696	4.696	(0.955)	1281093	80.0000	68.36
	9 bis(2-Chloroethyl)ether	93	4.745	4.745	(0.965)	1209383	80.0000	73.66
	10 2-Chlorophenol	128	4.786	4.786	(0.974)	942065	80.0000	72.36
	11 1,3-Dichlorobenzene	146	4.888	4.888	(0.994)	1096078	80.0000	74.22
	12 1,4-Dichlorobenzene	146	4.930	4.930	(1.003)	1022524	80.0000	73.00
	13 Benzyl alcohol	108	5.046	5.046	(1.026)	705637	80.0000	79.19
	14 1,2-Dichlorobenzene	146	5.080	5.080	(1.033)	934784	80.0000	71.42
	15 2-Methylphenol	108	5.142	5.142	(1.046)	946682	80.0000	77.93

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.B\CAL080.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.163	5.163	(1.050)	2261747	80.0000	70.97
	17 3-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.47(H)
	18 4-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.48(H)
	19 N-Nitroso-di-n-propylamine	70	5.293	5.293	(1.077)	881543	80.0000	77.66
	20 Hexachloroethane	117	5.335	5.335	(1.085)	472769	80.0000	75.82
*	31 Naphthalene-d8	136	6.118	6.118	(1.000)	1203800	40.0000	
$	32 Nitrobenzene-d5	82	5.403	5.403	(0.883)	1080921	80.0000	82.26
	33 Nitrobenzene	77	5.424	5.424	(0.887)	1029846	80.0000	77.40
	35 Isophorone	82	5.643	5.643	(0.922)	2239710	80.0000	79.02
	36 2-Nitrophenol	139	5.726	5.726	(0.936)	621853	80.0000	88.10
	38 2,4-Dimethylphenol	107	5.760	5.760	(0.942)	863479	80.0000	75.63
	39 Benzoic acid	105	5.932	5.932	(0.970)	728367	80.0000	81.74(M)
	40 bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1273696	80.0000	74.70
	43 2,4-Dichlorophenol	162	5.973	5.973	(0.976)	738222	80.0000	78.27
	46 1,2,4-Trichlorobenzene	180	6.070	6.070	(0.992)	766782	80.0000	76.20
	47 Naphthalene	128	6.145	6.145	(1.004)	2178652	80.0000	72.79
	48 4-Chloroaniline	127	6.228	6.228	(1.018)	911216	80.0000	74.43
	49 Hexachlorobutadiene	225	6.359	6.359	(1.039)	382800	80.0000	75.21
	50 4-Chloro-3-methylphenol	107	6.895	6.895	(1.127)	745093	80.0000	79.13
	51 2-Methylnaphthalene	141	7.073	7.073	(1.156)	1278310	80.0000	74.33
	53 Acetophenone	105	5.273	5.273	(1.073)	1098616	80.0000	67.74
	64 Caprolactam	113	6.709	6.709	(1.097)	298993	80.0000	87.15
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	638693	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	265315	80.0000	69.52
	67 2,4,6-Trichlorophenol	196	7.589	7.589	(0.841)	489740	80.0000	81.74
	68 2,4,5-Trichlorophenol	196	7.650	7.650	(0.848)	514213	80.0000	82.85
	69 2-Chloronaphthalene	162	7.891	7.891	(0.875)	1285870	80.0000	71.25
$	70 2-Fluorobiphenyl	172	7.726	7.726	(0.856)	1525820	80.0000	75.07
	71 2-Nitroaniline	65	8.172	8.172	(0.906)	590850	80.0000	84.08
	72 Dimethylphthalate	163	8.639	8.639	(0.957)	1742705	80.0000	77.04
	73 Acenaphthylene	152	8.694	8.694	(0.963)	2000820	80.0000	74.51
	74 2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	428011	80.0000	86.33
	75 3-Nitroaniline	138	9.044	9.044	(1.002)	442346	80.0000	80.33
	76 Acenaphthene	153	9.099	9.099	(1.008)	1388632	80.0000	75.33
	77 2,4-Dinitrophenol	184	9.264	9.264	(1.027)	224478	80.0000	79.07
	79 4-Nitrophenol	65	9.484	9.484	(1.051)	311541	80.0000	82.02
	80 Dibenzofuran	168	9.456	9.456	(1.048)	1908351	80.0000	74.71
	81 2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	538354	80.0000	85.77
	82 Diethylphthalate	149	10.279	10.279	(1.139)	1600023	80.0000	73.82
	83 4-Chlorophenyl-phenylether	204	10.321	10.321	(1.144)	648220	80.0000	76.97
	84 Fluorene	166	10.252	10.252	(1.136)	1482422	80.0000	75.19
	85 4-Nitroaniline	138	10.486	10.486	(1.162)	389539	80.0000	82.46
	96 1,1'-Biphenyl	154	7.884	7.884	(0.874)	1547927	80.0000	68.28
*	98 Phenanthrene-d10	188	12.623	12.623	(1.000)	798658	40.0000	
	99 1,2-Diphenylhydrazine	77	10.706	10.706	(0.848)	2056035	80.0000	76.59
	100 Carbazole	167	13.339	13.339	(1.057)	1678116	80.0000	76.46
	101 4,6-Dinitro-2-methylphenol	198	10.589	10.589	(0.839)	293532	80.0000	81.64

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

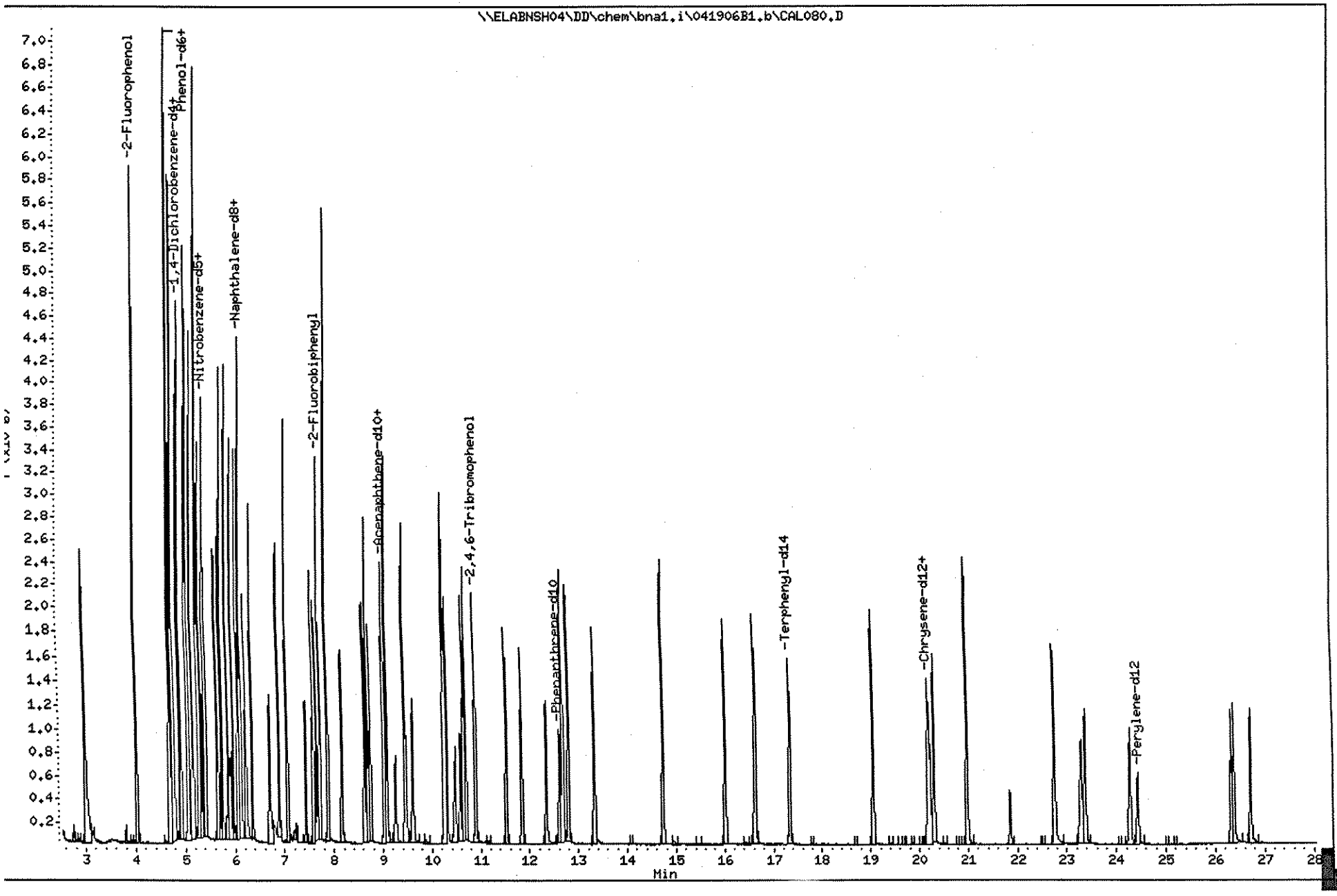
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	==========	====	==	======	======	========	=======	=======
102	N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	980696	80.0000	78.28
$ 103	2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	495160	160.000	168.0(A)
104	4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	422843	80.0000	77.81
105	Hexachlorobenzene	284	11.852	11.852	(0.939)	470372	80.0000	78.61
106	Pentachlorophenol	266	12.355	12.355	(0.979)	331611	80.0000	87.40
107	Phenanthrene	178	12.692	12.692	(1.005)	1760261	80.0000	77.30
108	Anthracene	178	12.810	12.810	(1.015)	1711507	80.0000	76.13
110	Di-n-butylphthalate	149	14.749	14.749	(1.168)	2917698	80.0000	78.69
111	Fluoranthene	202	16.025	16.025	(1.269)	1748791	80.0000	77.57
* 127	Chrysene-d12	240	20.236	20.236	(1.000)	547234	40.0000	
129	Pyrene	202	16.638	16.638	(0.822)	1777310	80.0000	81.32
$ 130	Terphenyl-d14	244	17.341	17.341	(0.857)	1116593	80.0000	80.80
131	Butylbenzylphthalate	149	19.065	19.065	(0.942)	1162263	80.0000	85.51
133	Benzo(a)anthracene	228	20.194	20.194	(0.998)	1401014	80.0000	79.46
134	Chrysene	228	20.319	20.319	(1.004)	1270601	80.0000	78.90
135	Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1483644	80.0000	83.63
* 149	Perylene-d12	264	24.439	24.439	(1.000)	432695	40.0000	
150	Di-n-octylphthalate	149	22.750	22.750	(0.931)	2192931	80.0000	91.17
151	Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1160679	80.0000	87.08
152	Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1179401	80.0000	85.29
153	Benzo(a)pyrene	252	24.287	24.287	(0.994)	976923	80.0000	85.00
154	Indeno(1,2,3-cd)pyrene	276	26.327	26.327	(1.077)	794180	80.0000	80.99
155	Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	813592	80.0000	82.41
156	Benzo(g,h,i)perylene	276	26.726	26.726	(1.094)	867281	80.0000	85.23

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Date : 19-APR-2006 21:53
Client ID: CAL080PPM
Instrument: bna1.i
Sample Info: CAL080PPM;;;;;SV3350-11
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000416



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Lab Smp Id: CAL090PPM Client Smp ID: CAL090PPM
Inj Date : 19-APR-2006 22:28
Operator : ADM Inst ID: bna1.i
Smp Info : CAL090PPM;;;;;SV3350-12
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 13 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/MC

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	4.910	4.910	(1.000)	362602	40.0000	
$ 2 2-Fluorophenol	112	4.009	4.009	(0.817)	2068431	180.000	164.7(A)
$ 3 Phenol-d6	99	4.684	4.684	(0.954)	2343173	180.000	156.1(A)
4 Pyridine	79	2.961	2.961	(0.603)	1480765	90.0000	91.55
5 N-Nitroso-di-methylamine	42	2.968	2.968	(0.605)	724870	90.0000	86.41
6 Aniline	93	4.705	4.705	(0.958)	772474	90.0000	96.38
8 Phenol	94	4.691	4.691	(0.955)	1290924	90.0000	75.19
9 bis(2-Chloroethyl)ether	93	4.746	4.746	(0.967)	1269164	90.0000	84.37
10 2-Chlorophenol	128	4.780	4.780	(0.974)	963655	90.0000	80.78
11 1,3-Dichlorobenzene	146	4.883	4.883	(0.994)	1129431	90.0000	83.47
12 1,4-Dichlorobenzene	146	4.924	4.924	(1.003)	1043033	90.0000	81.28
13 Benzyl alcohol	108	5.041	5.041	(1.027)	741617	90.0000	90.84
14 1,2-Dichlorobenzene	146	5.075	5.075	(1.034)	949483	90.0000	79.17
15 2-Methylphenol	108	5.144	5.144	(1.048)	979037	90.0000	87.96

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16	bis(2-Chloroisopropyl)ether	45	5.164	5.164	(1.052)	2295270	90.0000	78.61
	17	3-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.19(H)
	18	4-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.20(H)
	19	N-Nitroso-di-n-propylamine	70	5.294	5.294	(1.078)	902265	90.0000	86.75
	20	Hexachloroethane	117	5.335	5.335	(1.087)	488296	90.0000	85.47
*	31	Naphthalene-d8	136	6.117	6.117	(1.000)	1119140	40.0000	
$	32	Nitrobenzene-d5	82	5.404	5.404	(0.883)	1105555	90.0000	90.49
	33	Nitrobenzene	77	5.425	5.425	(0.887)	1085442	90.0000	87.75
	35	Isophorone	82	5.643	5.643	(0.922)	2323363	90.0000	88.18
	36	2-Nitrophenol	139	5.726	5.726	(0.936)	647312	90.0000	98.64
	38	2,4-Dimethylphenol	107	5.760	5.760	(0.942)	879533	90.0000	82.86
	39	Benzoic acid	105	5.932	5.932	(0.970)	738142	90.0000	86.98(M)
	40	bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1309663	90.0000	82.62
	43	2,4-Dichlorophenol	162	5.973	5.973	(0.976)	758064	90.0000	86.46
	46	1,2,4-Trichlorobenzene	180	6.069	6.069	(0.992)	776197	90.0000	82.98
	47	Naphthalene	128	6.138	6.138	(1.003)	2223716	90.0000	79.92
	48	4-Chloroaniline	127	6.228	6.228	(1.018)	933486	90.0000	82.02
	49	Hexachlorobutadiene	225	6.359	6.359	(1.039)	402337	90.0000	85.02
	50	4-Chloro-3-methylphenol	107	6.894	6.894	(1.127)	782367	90.0000	89.38
	51	2-Methylnaphthalene	141	7.072	7.072	(1.156)	1316111	90.0000	82.32
	53	Acetophenone	105	5.273	5.273	(1.074)	1135952	90.0000	76.44
	64	Caprolactam	113	6.716	6.716	(1.098)	307219	90.0000	96.32
*	65	Acenaphthene-d10	164	9.023	9.023	(1.000)	587079	40.0000	
	66	Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	263921	90.0000	75.23
	67	2,4,6-Trichlorophenol	196	7.587	7.587	(0.841)	502860	90.0000	91.31
	68	2,4,5-Trichlorophenol	196	7.656	7.656	(0.849)	523695	90.0000	91.80
	69	2-Chloronaphthalene	162	7.891	7.891	(0.874)	1298286	90.0000	78.27
$	70	2-Fluorobiphenyl	172	7.725	7.725	(0.856)	1531161	90.0000	81.96
	71	2-Nitroaniline	65	8.172	8.172	(0.906)	598573	90.0000	92.67
	72	Dimethylphthalate	163	8.639	8.639	(0.957)	1790422	90.0000	86.11
	73	Acenaphthylene	152	8.694	8.694	(0.964)	2068463	90.0000	83.80
	74	2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	434041	90.0000	95.25
	75	3-Nitroaniline	138	9.044	9.044	(1.002)	451488	90.0000	89.20
	76	Acenaphthene	153	9.098	9.098	(1.008)	1427523	90.0000	84.25
	77	2,4-Dinitrophenol	184	9.263	9.263	(1.027)	237311	90.0000	86.61
	79	4-Nitrophenol	65	9.483	9.483	(1.051)	322059	90.0000	92.24
	80	Dibenzofuran	168	9.456	9.456	(1.048)	1955300	90.0000	83.28
	81	2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	541533	90.0000	93.86
	82	Diethylphthalate	149	10.280	10.280	(1.139)	1634486	90.0000	82.04
	83	4-Chlorophenyl-phenylether	204	10.322	10.322	(1.144)	657995	90.0000	85.00
	84	Fluorene	166	10.253	10.253	(1.136)	1501597	90.0000	82.86
	85	4-Nitroaniline	138	10.493	10.493	(1.163)	392226	90.0000	90.33
	96	1,1'-Biphenyl	154	7.884	7.884	(0.874)	1575314	90.0000	75.59
*	98	Phenanthrene-d10	188	12.622	12.622	(1.000)	737835	40.0000	
	99	1,2-Diphenylhydrazine	77	10.707	10.707	(0.848)	2094798	90.0000	84.47
	100	Carbazole	167	13.335	13.335	(1.057)	1689423	90.0000	83.32
	101	4,6-Dinitro-2-methylphenol	198	10.590	10.590	(0.839)	301518	90.0000	88.07

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	988459	90.0000	85.40
$	103 2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	492679	180.000	181.0(A)
	104 4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	433478	90.0000	86.34
	105 Hexachlorobenzene	284	11.846	11.846	(0.939)	490901	90.0000	88.81
	106 Pentachlorophenol	266	12.354	12.354	(0.979)	330160	90.0000	94.19
	107 Phenanthrene	178	12.691	12.691	(1.005)	1795214	90.0000	85.33
	108 Anthracene	178	12.815	12.815	(1.015)	1746191	90.0000	84.08
	110 Di-n-butylphthalate	149	14.746	14.746	(1.168)	3055200	90.0000	89.19
	111 Fluoranthene	202	16.032	16.032	(1.270)	1782543	90.0000	85.58
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	497031	40.0000	
	129 Pyrene	202	16.637	16.637	(0.822)	1799703	90.0000	90.67
$	130 Terphenyl-d14	244	17.349	17.349	(0.857)	1148902	90.0000	91.54
	131 Butylbenzylphthalate	149	19.065	19.065	(0.942)	1186712	90.0000	96.13
	133 Benzo(a)anthracene	228	20.202	20.202	(0.998)	1409032	90.0000	87.98
	134 Chrysene	228	20.318	20.318	(1.004)	1333323	90.0000	91.16
	135 Bis(2-ethylhexyl)phthalate	149	20.988	20.988	(1.037)	1548288	90.0000	96.09
*	149 Perylene-d12	264	24.442	24.442	(1.000)	405286	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	2305162	90.0000	102.3(A)
	151 Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1208798	90.0000	96.82
	152 Benzo(k)fluoranthene	252	23.385	23.385	(0.957)	1243514	90.0000	96.00
	153 Benzo(a)pyrene	252	24.292	24.292	(0.994)	1037058	90.0000	96.33
	154 Indeno(1,2,3-cd)pyrene	276	26.328	26.328	(1.077)	851481	90.0000	92.70
	155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	869312	90.0000	94.01
	156 Benzo(g,h,i)perylene	276	26.733	26.733	(1.094)	893198	90.0000	93.71

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Date : 19-APR-2006 22:28
Client ID: CAL090PPM
Instrument: bna1.i
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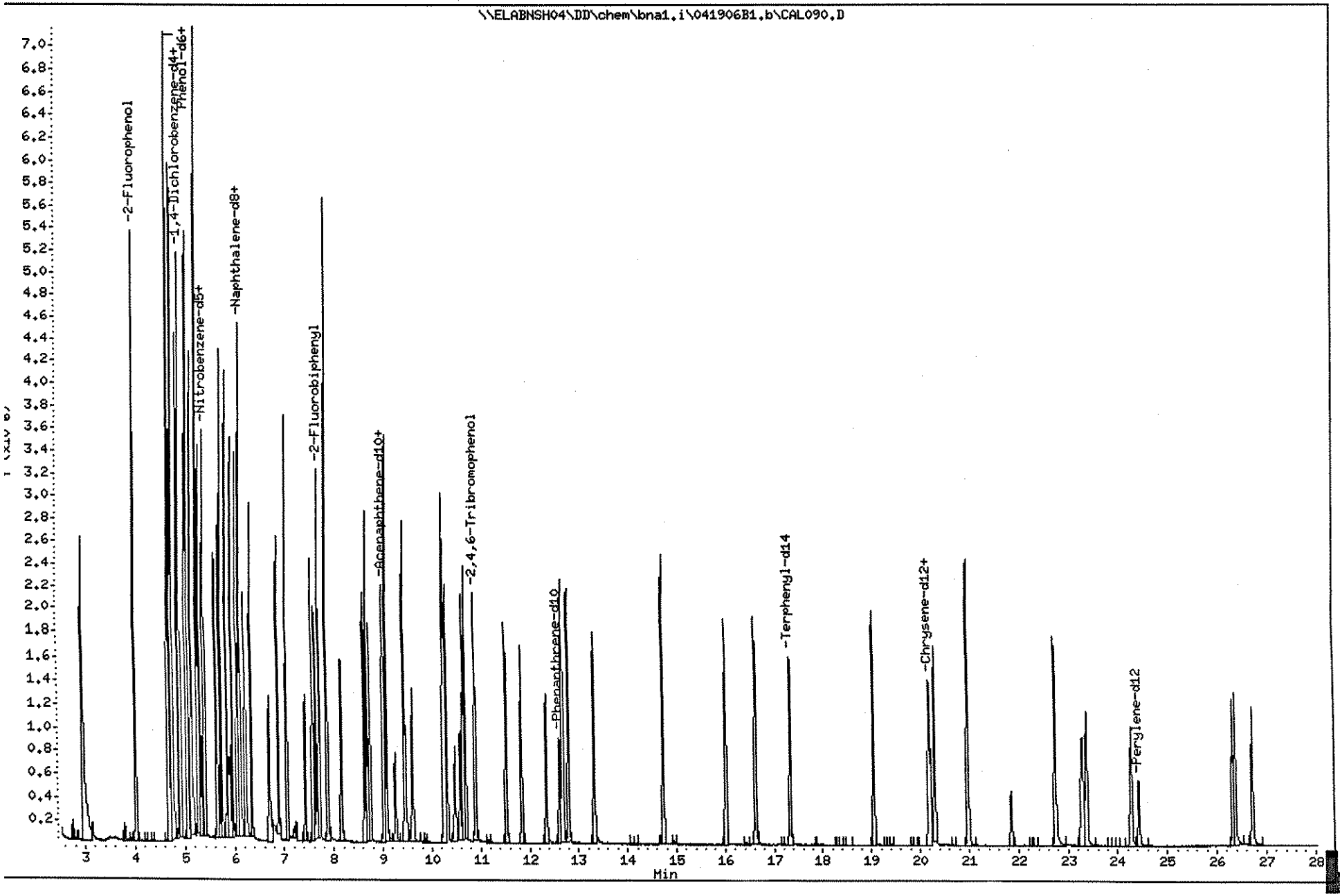
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000420



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Lab Smp Id: CAL100PPM Client Smp ID: CAL100PPM
Inj Date : 19-APR-2006 23:04
Operator : ADM Inst ID: bna1.i
Smp Info : CAL100PPM;;;;;SV3350-13
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 14 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/MC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.914	4.914	(1.000)	405811	40.0000	
$	2 2-Fluorophenol	112	4.014	4.014	(0.817)	2416155	200.000	171.9(A)
$	3 Phenol-d6	99	4.687	4.687	(0.954)	2760384	200.000	164.3(A)
	4 Pyridine	79	2.967	2.967	(0.604)	1745541	100.000	96.43
	5 N-Nitroso-di-methylamine	42	2.980	2.980	(0.607)	922574	100.000	98.27
	6 Aniline	93	4.708	4.708	(0.958)	934422	100.000	108.9(A)
	8 Phenol	94	4.702	4.702	(0.957)	1532153	100.000	79.74
	9 bis(2-Chloroethyl)ether	93	4.749	4.749	(0.966)	1555603	100.000	92.40
	10 2-Chlorophenol	128	4.783	4.783	(0.973)	1148806	100.000	86.05
	11 1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	1313595	100.000	86.74
	12 1,4-Dichlorobenzene	146	4.928	4.928	(1.003)	1222693	100.000	85.13
	13 Benzyl alcohol	108	5.051	5.051	(1.028)	923081	100.000	101.0(A)
	14 1,2-Dichlorobenzene	146	5.079	5.079	(1.034)	1073685	100.000	80.00
	15 2-Methylphenol	108	5.147	5.147	(1.048)	1202388	100.000	96.52

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	2710555	100.000	82.94
	17 3-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.11(H)
	18 4-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.12(H)
	19 N-Nitroso-di-n-propylamine	70	5.305	5.305	(1.080)	1126036	100.000	96.74
	20 Hexachloroethane	117	5.333	5.333	(1.085)	573760	100.000	89.74
*	31 Naphthalene-d8	136	6.116	6.116	(1.000)	1277943	40.0000	
$	32 Nitrobenzene-d5	82	5.409	5.409	(0.884)	1416051	100.000	101.5(A)
	33 Nitrobenzene	77	5.429	5.429	(0.888)	1349092	100.000	95.52
	35 Isophorone	82	5.656	5.656	(0.925)	2920935	100.000	97.08
	36 2-Nitrophenol	139	5.725	5.725	(0.936)	801557	100.000	107.0(A)
	38 2,4-Dimethylphenol	107	5.766	5.766	(0.943)	1100618	100.000	90.81
	39 Benzoic acid	105	5.958	5.958	(0.974)	1057702	100.000	100.9(A)
	40 bis(2-Chloroethoxy)methane	93	5.868	5.868	(0.960)	1615752	100.000	89.27
	43 2,4-Dichlorophenol	162	5.979	5.979	(0.978)	942543	100.000	94.14
	46 1,2,4-Trichlorobenzene	180	6.068	6.068	(0.992)	951116	100.000	89.04
	47 Naphthalene	128	6.143	6.143	(1.004)	2662428	100.000	83.79
	48 4-Chloroaniline	127	6.226	6.226	(1.018)	1181026	100.000	90.87(M)
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	476029	100.000	88.10
	50 4-Chloro-3-methylphenol	107	6.900	6.900	(1.128)	971006	100.000	97.14
	51 2-Methylnaphthalene	141	7.072	7.072	(1.156)	1634250	100.000	89.51
	53 Acetophenone	105	5.278	5.278	(1.074)	1361350	100.000	81.86
	64 Caprolactam	113	6.736	6.736	(1.101)	382420	100.000	105.0(A)
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	684968	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.824)	424741	100.000	103.8(A)
	67 2,4,6-Trichlorophenol	196	7.594	7.594	(0.842)	647723	100.000	100.8(A)
	68 2,4,5-Trichlorophenol	196	7.662	7.662	(0.849)	679681	100.000	102.1(A)
	69 2-Chloronaphthalene	162	7.897	7.897	(0.875)	1609689	100.000	83.17
$	70 2-Fluorobiphenyl	172	7.731	7.731	(0.857)	1910349	100.000	87.64
	71 2-Nitroaniline	65	8.178	8.178	(0.906)	828450	100.000	109.9(A)
	72 Dimethylphthalate	163	8.645	8.645	(0.958)	2224891	100.000	91.71
	73 Acenaphthylene	152	8.700	8.700	(0.964)	2569052	100.000	89.20
	74 2,6-Dinitrotoluene	165	8.762	8.762	(0.971)	578158	100.000	108.7(A)
	75 3-Nitroaniline	138	9.058	9.058	(1.004)	664775	100.000	112.6(A)
	76 Acenaphthene	153	9.106	9.106	(1.009)	1767405	100.000	89.40
	77 2,4-Dinitrophenol	184	9.270	9.270	(1.027)	373175	100.000	101.2(A)
	79 4-Nitrophenol	65	9.504	9.504	(1.053)	498418	100.000	122.3(A)
	80 Dibenzofuran	168	9.462	9.462	(1.049)	2532148	100.000	92.44
	81 2,4-Dinitrotoluene	165	9.634	9.634	(1.068)	749880	100.000	111.4(A)
	82 Diethylphthalate	149	10.294	10.294	(1.141)	2030573	100.000	87.36
	83 4-Chlorophenyl-phenylether	204	10.328	10.328	(1.145)	841580	100.000	93.18
	84 Fluorene	166	10.259	10.259	(1.137)	1950834	100.000	92.27
	85 4-Nitroaniline	138	10.513	10.513	(1.165)	640626	100.000	126.4(A)
	96 1,1'-Biphenyl	154	7.890	7.890	(0.874)	1878750	100.000	77.27
*	98 Phenanthrene-d10	188	12.629	12.629	(1.000)	897598	40.0000	
	99 1,2-Diphenylhydrazine	77	10.720	10.720	(0.849)	2922027	100.000	96.86
	100 Carbazole	167	13.352	13.352	(1.057)	2455839	100.000	99.56
	101 4,6-Dinitro-2-methylphenol	198	10.609	10.609	(0.840)	446432	100.000	100.1(A)

Data File: \\ELABNSH04\DD\chem\bnal.i\041906B1.D\CAL100.D
Report Date: 20-Apr-2006 14:25

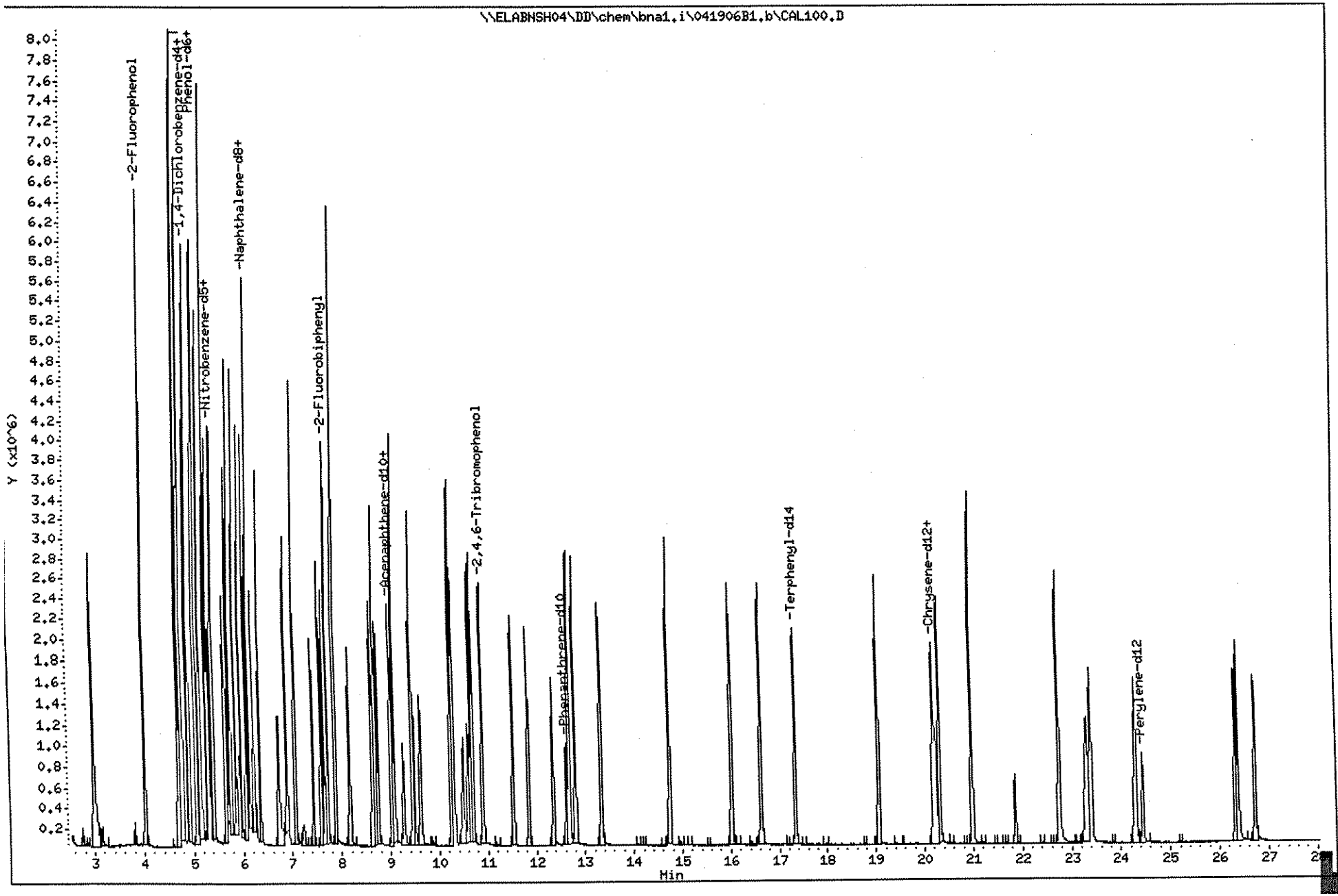
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.672	10.672	(0.845)	1319581	100.000	93.72
$	103 2,4,6-Tribromophenol	330	10.920	10.920	(0.865)	657394	200.000	198.5(A)
	104 4-Bromophenyl-phenylether	248	11.545	11.545	(0.914)	571547	100.000	93.58
	105 Hexachlorobenzene	284	11.854	11.854	(0.939)	621615	100.000	92.44
	106 Pentachlorophenol	266	12.361	12.361	(0.979)	474713	100.000	111.3(A)
	107 Phenanthrene	178	12.705	12.705	(1.006)	2454608	100.000	95.91
	108 Anthracene	178	12.823	12.823	(1.015)	2377225	100.000	94.08
	110 Di-n-butylphthalate	149	14.753	14.753	(1.168)	3805527	100.000	91.32
	111 Fluoranthene	202	16.042	16.042	(1.270)	2490336	100.000	98.29
*	127 Chrysene-d12	240	20.256	20.256	(1.000)	693596	40.0000	
	129 Pyrene	202	16.647	16.647	(0.822)	2514423	100.000	90.77
$	130 Terphenyl-d14	244	17.355	17.355	(0.857)	1600764	100.000	91.40
	131 Butylbenzylphthalate	149	19.072	19.072	(0.942)	1650098	100.000	95.79
	133 Benzo(a)anthracene	228	20.214	20.214	(0.998)	2223330	100.000	99.49
	134 Chrysene	228	20.338	20.338	(1.004)	2041530	100.000	100.0(A)
	135 Bis(2-ethylhexyl)phthalate	149	20.992	20.992	(1.036)	2229718	100.000	99.17
*	149 Perylene-d12	264	24.462	24.462	(1.000)	667141	40.0000	
	150 Di-n-octylphthalate	149	22.759	22.759	(0.930)	3720192	100.000	100.3(A)
	151 Benzo(b)fluoranthene	252	23.328	23.328	(0.954)	2327837	100.000	113.3(A)
	152 Benzo(k)fluoranthene	252	23.425	23.425	(0.958)	2031015	100.000	95.26
	153 Benzo(a)pyrene	252	24.317	24.317	(0.994)	1868496	100.000	105.4(A)
	154 Indeno(1,2,3-cd)pyrene	276	26.346	26.346	(1.077)	1470143	100.000	97.24
	155 Dibenz(a,h)anthracene	278	26.401	26.401	(1.079)	1490218	100.000	97.90
	156 Benzo(g,h,i)perylene	276	26.744	26.744	(1.093)	1412666	100.000	90.04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Date : 19-APR-2006 23:04
Client ID: CAL100PPM
Instrument: bna1.i
Sample Info: CAL100PPM;;;;;SV3350-13
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000424



Empirical Laboratories

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF0.1: PAH001 RF0.2: PAH002 RF0.4: PAH003
RF0.6: PAH004 RF0.8: PAHLOW05

COMPOUND	RF0.1	RF0.2	RF0.4	RF0.6	RF0.8
Acenaphthene	0.978	0.948	0.976	1.001	
Acenaphthylene	1.606	1.440	1.533	1.580	
Anthracene	1.012	0.933	0.997	1.101	
Benzo(a)anthracene	1.112	1.078	1.100	1.165	
Benzo(b)fluoranthene	1.221	1.269	1.234	1.395	
Benzo(k)fluoranthene	1.294	1.254	1.288	1.347	
Benzo(g,h,i)perylene	0.898	0.780	0.805	0.859	
Benzo(a)pyrene	1.123	0.982	1.041	1.086	
Chrysene	1.133	1.081	1.101	1.162	
Dibenz(a,h)anthracene	0.698	0.691	0.726	0.689	
Fluoranthene	1.091	1.028	1.061	1.130	
Fluorene	1.114	1.086	1.137	1.188	
Indeno(1,2,3-cd)pyrene	0.718	0.688	0.827	0.808	
2-Methylnaphthalene	0.506	0.490	0.521	0.518	
1-Methylnaphthalene	0.544	0.541	0.537	0.557	
Naphthalene	1.033	0.947	0.940	0.978	
Phenanthrene	1.106	1.047	1.050	1.140	
Pyrene	1.406	1.364	1.478	1.516	
Nitrobenzene-d5	0.140	0.133	0.161	0.159	
2-Fluorobiphenyl	1.224	1.107	1.202	1.184	
Terphenyl-d14	0.963	0.862	0.932	0.933	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF1: PAH006 RF2: PAHLOW07 RF2.5: PAH008
RF5: PAH009 RF7.5: PAHLOW10

COMPOUND	RF1	RF2	RF2.5	RF5	RF7.5
Acenaphthene	1.018		1.013	1.063	
Acenaphthylene	1.691		1.652	1.739	
Anthracene	1.107		1.113	1.150	
Benzo(a)anthracene	1.147		1.176	1.237	
Benzo(b)fluoranthene	1.370		1.455	1.502	
Benzo(k)fluoranthene	1.372		1.380	1.510	
Benzo(g,h,i)perylene	0.842		0.812	0.858	
Benzo(a)pyrene	1.132		1.154	1.226	
Chrysene	1.158		1.158	1.217	
Dibenz(a,h)anthracene	0.756		0.758	0.825	
Fluoranthene	1.175		1.138	1.198	
Fluorene	1.243		1.218	1.265	
Indeno(1,2,3-cd)pyrene	0.792		0.800	0.842	
2-Methylnaphthalene	0.534		0.524	0.547	
1-Methylnaphthalene	0.554		0.528	0.567	
Naphthalene	0.986		0.958	1.005	
Phenanthrene	1.145		1.113	1.158	
Pyrene	1.479		1.540	1.644	
Nitrobenzene-d5	0.175		0.188	0.219	
2-Fluorobiphenyl	1.232		1.228	1.264	
Terphenyl-d14	0.920		0.952	0.999	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF10: PAH011 RF15: PAHLOW12 RF20: PAH013

COMPOUND	RF10	RF15	RF20
Acenaphthene	1.059		1.021
Acenaphthylene	1.725		1.365
Anthracene	1.142		0.950
Benzo(a)anthracene	1.248		1.216
Benzo(b)fluoranthene	1.468		1.512
Benzo(k)fluoranthene	1.520		1.461
Benzo(g,h,i)perylene	0.837		0.864
Benzo(a)pyrene	1.235		1.260
Chrysene	1.189		1.150
Dibenz(a,h)anthracene	0.834		0.873
Fluoranthene	1.175		1.000
Fluorene	1.254		1.194
Indeno(1,2,3-cd)pyrene	0.857		0.906
2-Methylnaphthalene	0.538		0.531
1-Methylnaphthalene	0.549		0.551
Naphthalene	0.988		0.792
Phenanthrene	1.161		0.943
Pyrene	1.602		1.347
Nitrobenzene-d5	0.240		0.262
2-Fluorobiphenyl	1.255		1.159
Terphenyl-d14	0.987		1.020

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.00859922	3.8
Acenaphthylene	AVRG		1.59235903	8.0
Anthracene	AVRG		1.05614919	7.9
Benzo(a)anthracene	AVRG		1.16454143	5.2
Benzo(b)fluoranthene	AVRG		1.38070945	8.3
Benzo(k)fluoranthene	AVRG		1.38076579	7.0
Benzo(g,h,i)perylene	AVRG		0.83961210	4.2
Benzo(a)pyrene	AVRG		1.13766615	8.2
Chrysene	AVRG		1.14984769	3.6
Dibenz(a,h)anthracene	AVRG		0.76118804	8.9
Fluoranthene	AVRG		1.11063449	6.3
Fluorene	AVRG		1.18887180	5.4
Indeno(1,2,3-cd)pyrene	AVRG		0.80427558	8.3
2-Methylnaphthalene	AVRG		0.52309280	3.3
1-Methylnaphthalene	AVRG		0.54766113	2.1
Naphthalene	AVRG		0.95861266	7.2
Phenanthrene	AVRG		1.09594991	6.5
Pyrene	AVRG		1.48619522	6.8
Nitrobenzene-d5	LINR	0.00000000	0.25594367	0.995
2-Fluorobiphenyl	AVRG		1.20621177	4.1
Terphenyl-d14	AVRG		0.95206285	5.0

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Lab Smp Id: PAHCCV0.10PPM Client Smp ID: PAHCCV0.10PPM
Inj Date : 21-APR-2006 16:28 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.10PPM;;;;;SV3490-1
Misc Info : ;;;;;;pahsurr.sub;3459
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
10-4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	268691	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1002947	1.00000	
$	4 Nitrobenzene-d5	82	6.718	6.718	(0.820)	14013	0.10000	0.05459(aM)
	5 Naphthalene	128	8.225	8.225	(1.004)	103637	0.10000	0.1078
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	50704	0.10000	0.09665(a)
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	54528	0.10000	0.09927(a)
*	8 Acenaphthene-d10	164	12.300	12.300	(1.000)	632514	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.875)	77412	0.10000	0.1015
	11 Acenaphthylene	152	11.924	11.924	(0.969)	101588	0.10000	0.1009(M)
	12 Acenaphthene	153	12.369	12.369	(1.006)	61848	0.10000	0.09695(a)
	15 Fluorene	166	13.590	13.590	(1.105)	70472	0.10000	0.09372(a)
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1000931	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.003)	110752	0.10000	0.1010

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Report Date: 22-Apr-2006 08:16

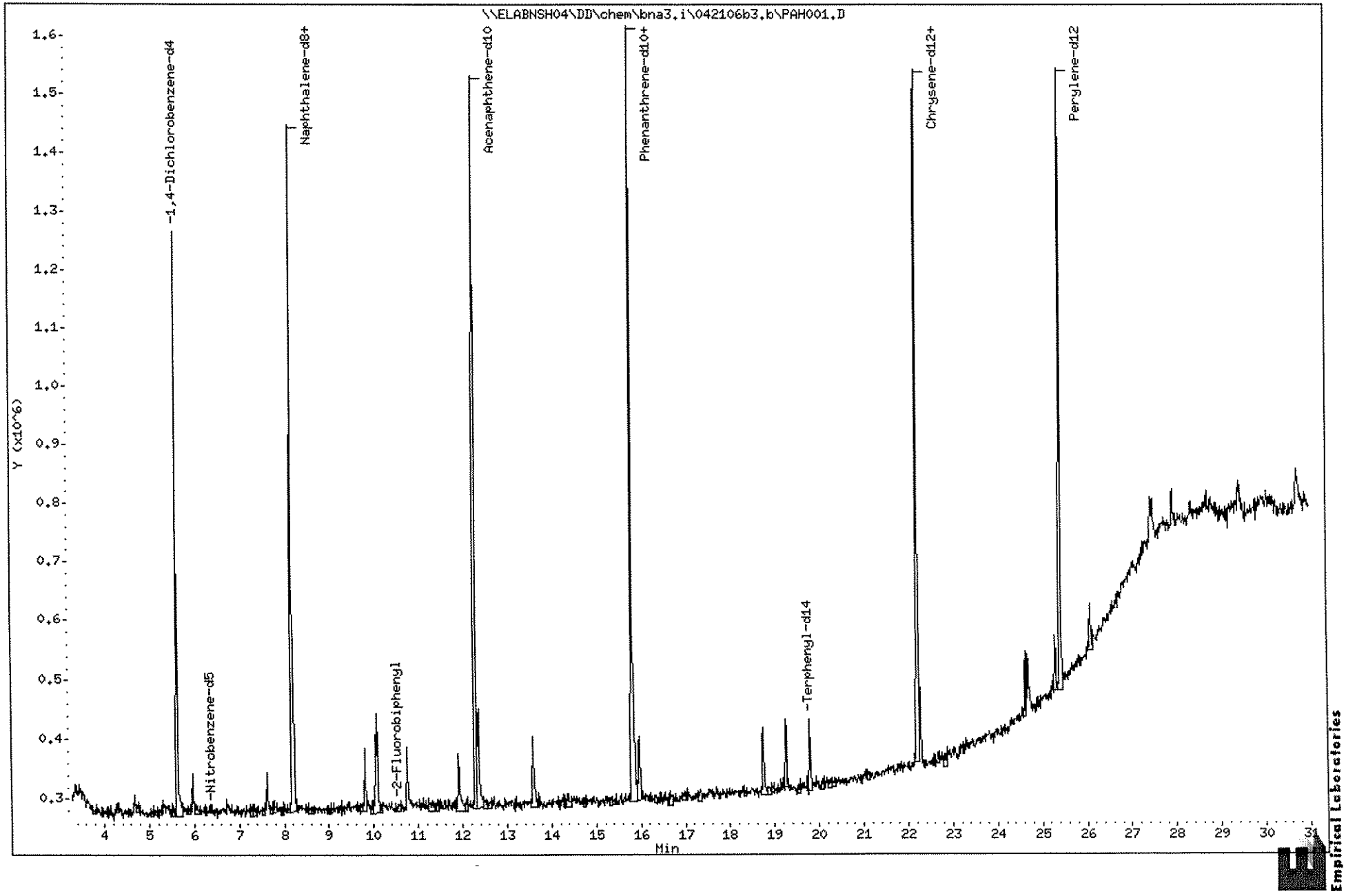
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	101289	0.10000	0.09581(a)
	19 Fluoranthene	202	18.751	18.751	(1.186)	109173	0.10000	0.09821(a)
*	20 Chrysene-d12	240	22.233	22.233	(1.000)	830583	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	116743	0.10000	0.09457(a)
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	80001	0.10000	0.1012
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	92361	0.10000	0.09549(a)
	24 Chrysene	228	22.290	22.290	(1.003)	94125	0.10000	0.09856(a)
*	25 Perylene-d12	264	25.430	25.430	(1.000)	683436	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	83465	0.10000	0.08845(a)
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	88445	0.10000	0.09372(a)
	28 Benzo(a)pyrene	252	25.315	25.315	(0.996)	76772	0.10000	0.09874(a)
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	49108	0.10000	0.08934(a)
	30 Dibenz(a,h)anthracene	278	27.519	27.519	(1.082)	47722	0.10000	0.09173(a)
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	61387	0.10000	0.1070

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Date : 21-APR-2006 16:28
Client ID: PAHCCV0.10PPM
Instrument: bna3.i
Sample Info: PAHCCV0.10PPM;;;;;SV3490-1
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

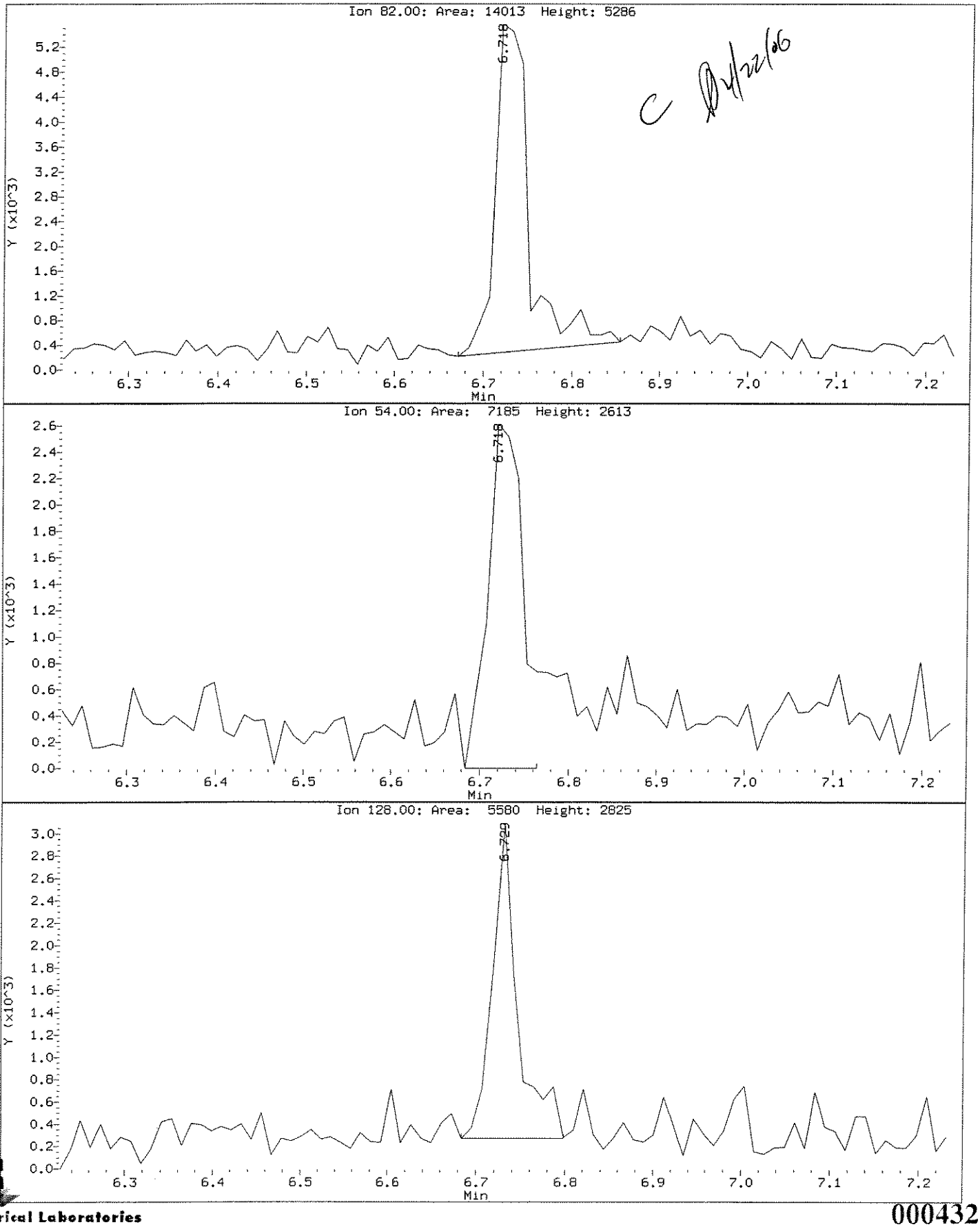
000431



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Injection Date: 21-APR-2006 16:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

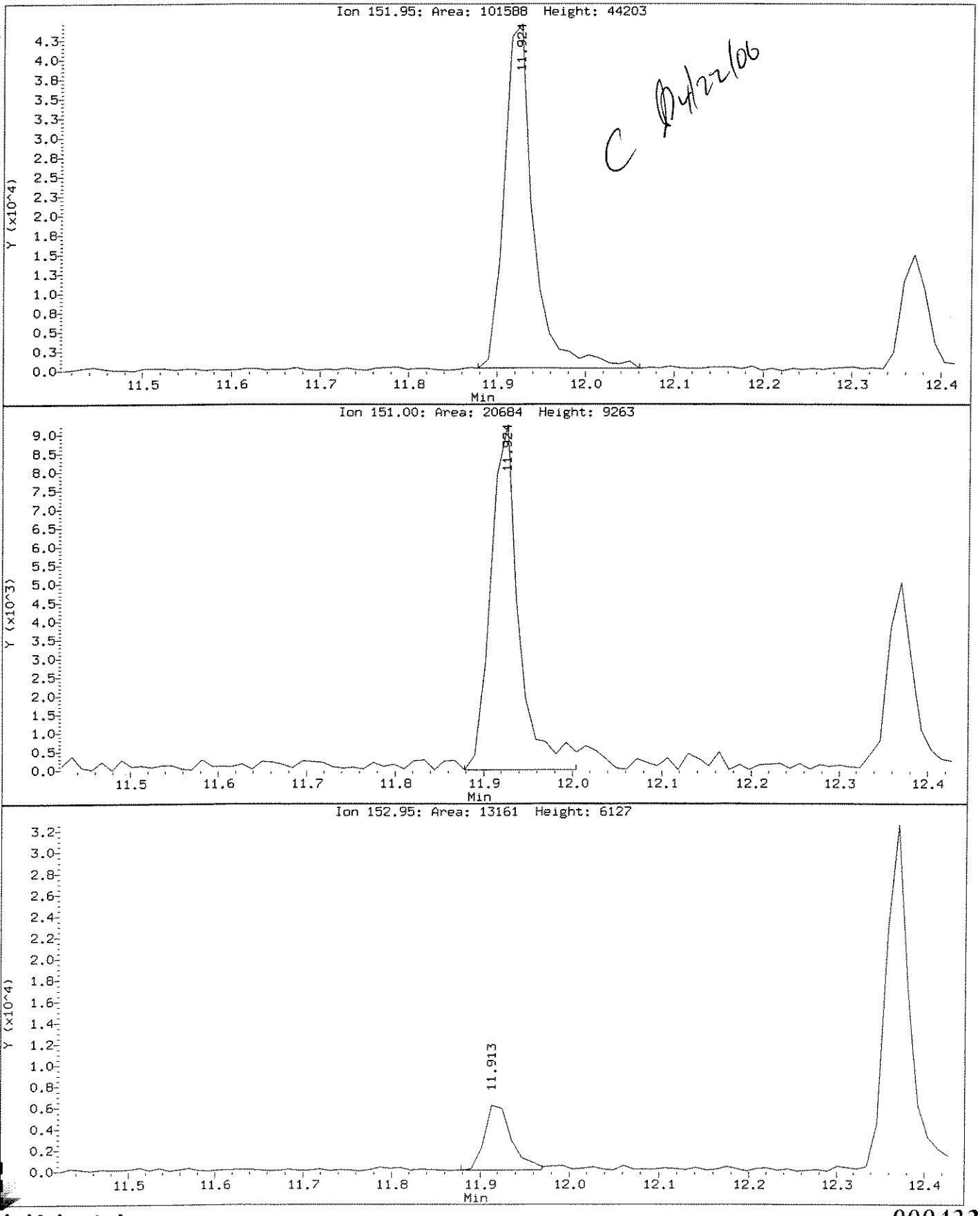
Compound: Nitrobenzene-d5
CAS Number: 4165-60-0



C 4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Injection Date: 21-APR-2006 16:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

Compound: Acenaphthylene
CAS Number: 208-96-8



C 4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Lab Smp Id: PAHCCV0.20PPM Client Smp ID: PAHCCV0.20PPM
Inj Date : 21-APR-2006 17:08 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.20PPM;;;;;SV3490-2
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	287217	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1102562	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	29257	0.20000	0.1037
	5 Naphthalene	128	8.226	8.226	(1.004)	208840	0.20000	0.1976
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	107973	0.20000	0.1872
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	119332	0.20000	0.1976
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	693083	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	153463	0.20000	0.1836
	11 Acenaphthylene	152	11.913	11.913	(0.969)	199575	0.20000	0.1808
	12 Acenaphthene	153	12.370	12.370	(1.007)	131420	0.20000	0.1880
	15 Fluorene	166	13.592	13.592	(1.106)	150557	0.20000	0.1827
*	16 Phenanthrene-d10	188	15.818	15.818	(1.000)	1100008	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	230260	0.20000	0.1910

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.978	15.978	(1.010)	205329	0.20000	0.1767
	19 Fluoranthene	202	18.752	18.752	(1.185)	226241	0.20000	0.1852
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	884931	1.00000	
	21 Pyrene	202	19.266	19.266	(0.866)	241490	0.20000	0.1836
$	22 Terphenyl-d14	244	19.791	19.791	(0.890)	152668	0.20000	0.1812
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	190838	0.20000	0.1852
	24 Chrysene	228	22.291	22.291	(1.003)	191396	0.20000	0.1881
*	25 Perylene-d12	264	25.431	25.431	(1.000)	659251	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	167314	0.20000	0.1838
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	165364	0.20000	0.1817
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	129460	0.20000	0.1726
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	90772	0.20000	0.1712(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	91148	0.20000	0.1816
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	102911	0.20000	0.1859

QC Flag Legend

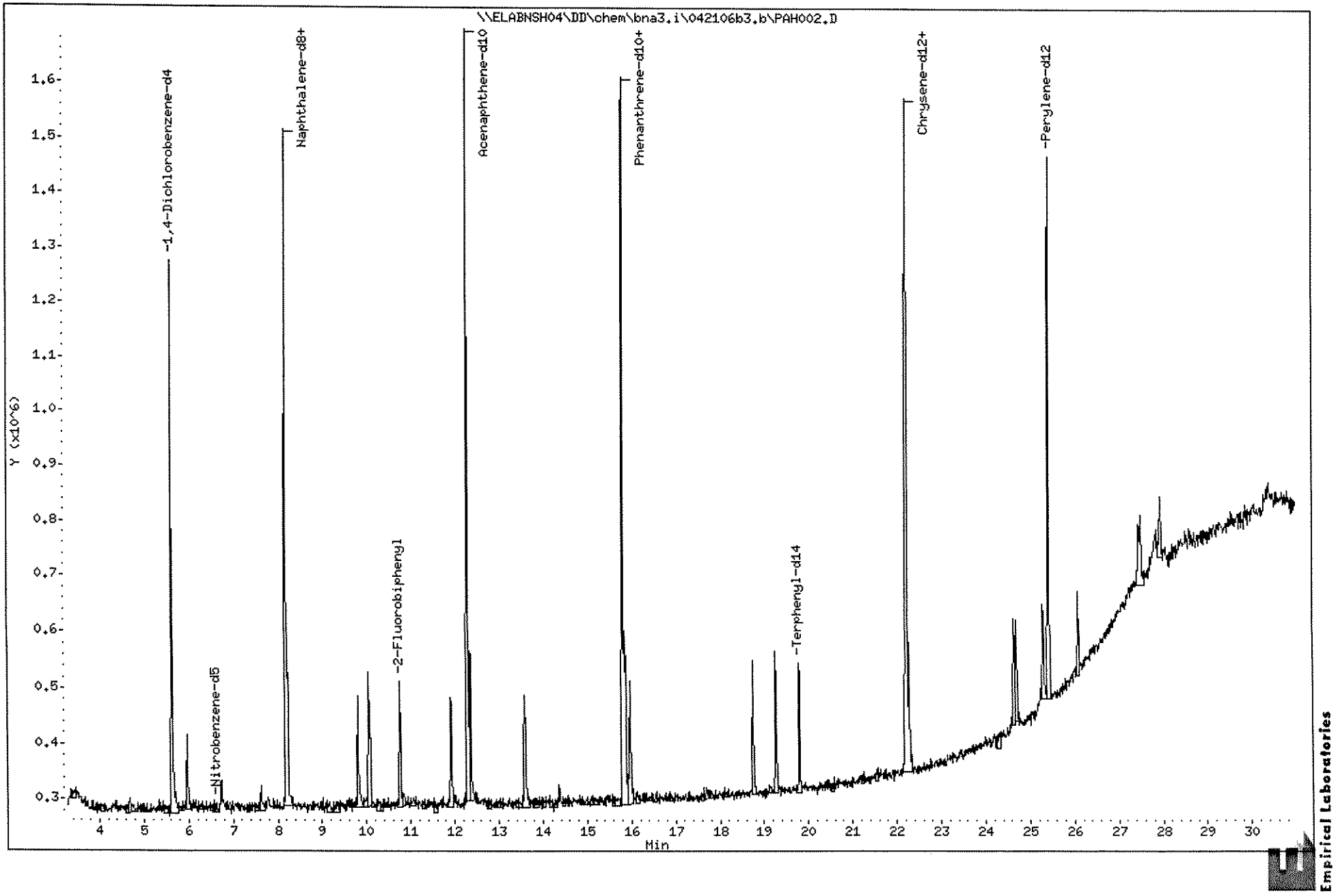
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Date : 21-APR-2006 17:08
Client ID: PAHCCV0.20PPM
Sample Info: PAHCCV0.20PPM;;;;;SV3490-2
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

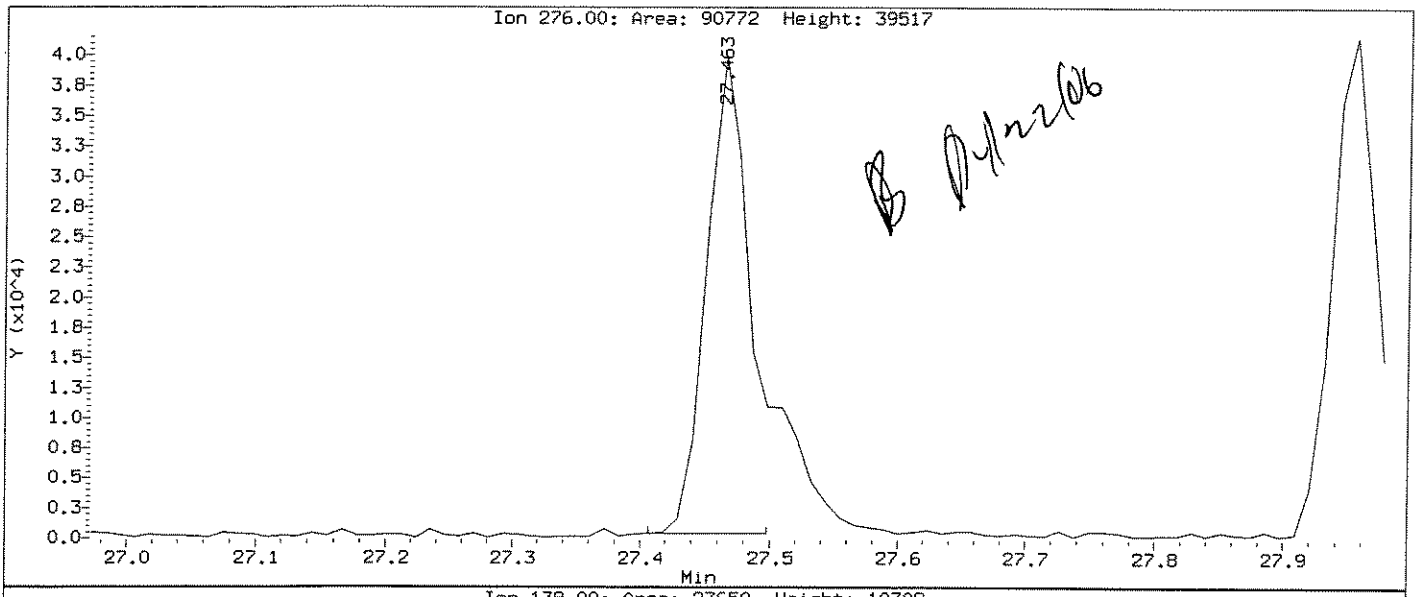
000436

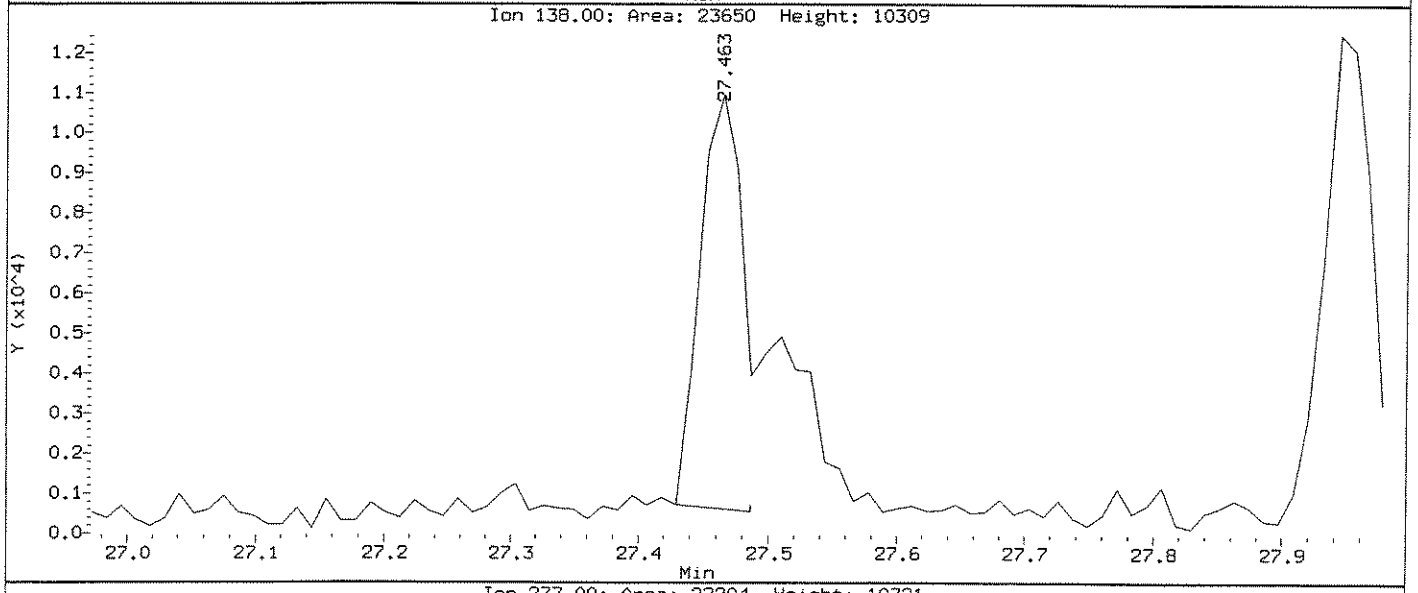


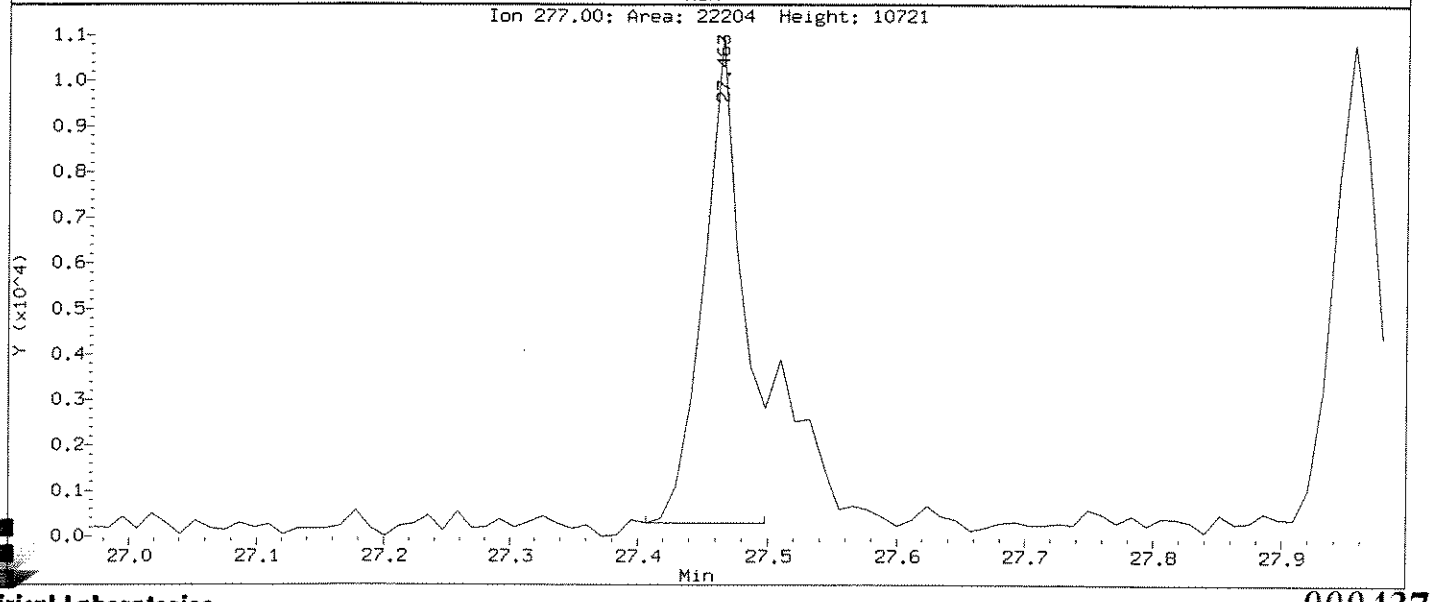
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Injection Date: 21-APR-2006 17:08
Instrument: bna3.i
Client Sample ID: PAHCCV0.20PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Lab Smp Id: PAHCCV0.40PPM Client Smp ID: PAHCCV0.40PPM
Inj Date : 21-APR-2006 17:48 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.40PPM;;;;;SV3490-3
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	302877	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1115729	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	71751	0.40000	0.2513
	5 Naphthalene	128	8.225	8.225	(1.004)	419539	0.40000	0.3922
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	232515	0.40000	0.3984
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	239779	0.40000	0.3924
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	694561	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	334012	0.40000	0.3987
	11 Acenaphthylene	152	11.924	11.924	(0.970)	425811	0.40000	0.3850
	12 Acenaphthene	153	12.369	12.369	(1.007)	271253	0.40000	0.3872
	15 Fluorene	166	13.579	13.579	(1.105)	315782	0.40000	0.3824
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1082317	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	454618	0.40000	0.3833

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	431691	0.40000	0.3776
	19 Fluoranthene	202	18.751	18.751	(1.185)	459347	0.40000	0.3821
*	20 Chrysene-d12	240	22.222	22.222	(1.000)	808078	1.00000	
	21 Pyrene	202	19.265	19.265	(0.867)	477723	0.40000	0.3978
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	301254	0.40000	0.3916
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	355700	0.40000	0.3780
	24 Chrysene	228	22.290	22.290	(1.003)	355759	0.40000	0.3829
*	25 Perylene-d12	264	25.430	25.430	(1.000)	592716	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	292455	0.40000	0.3574
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	305339	0.40000	0.3731
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	246925	0.40000	0.3662
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	196006	0.40000	0.4112(M)
	30 Dibenz(a,h)anthracene	278	27.508	27.508	(1.082)	172186	0.40000	0.3816
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	190964	0.40000	0.3837

QC Flag Legend

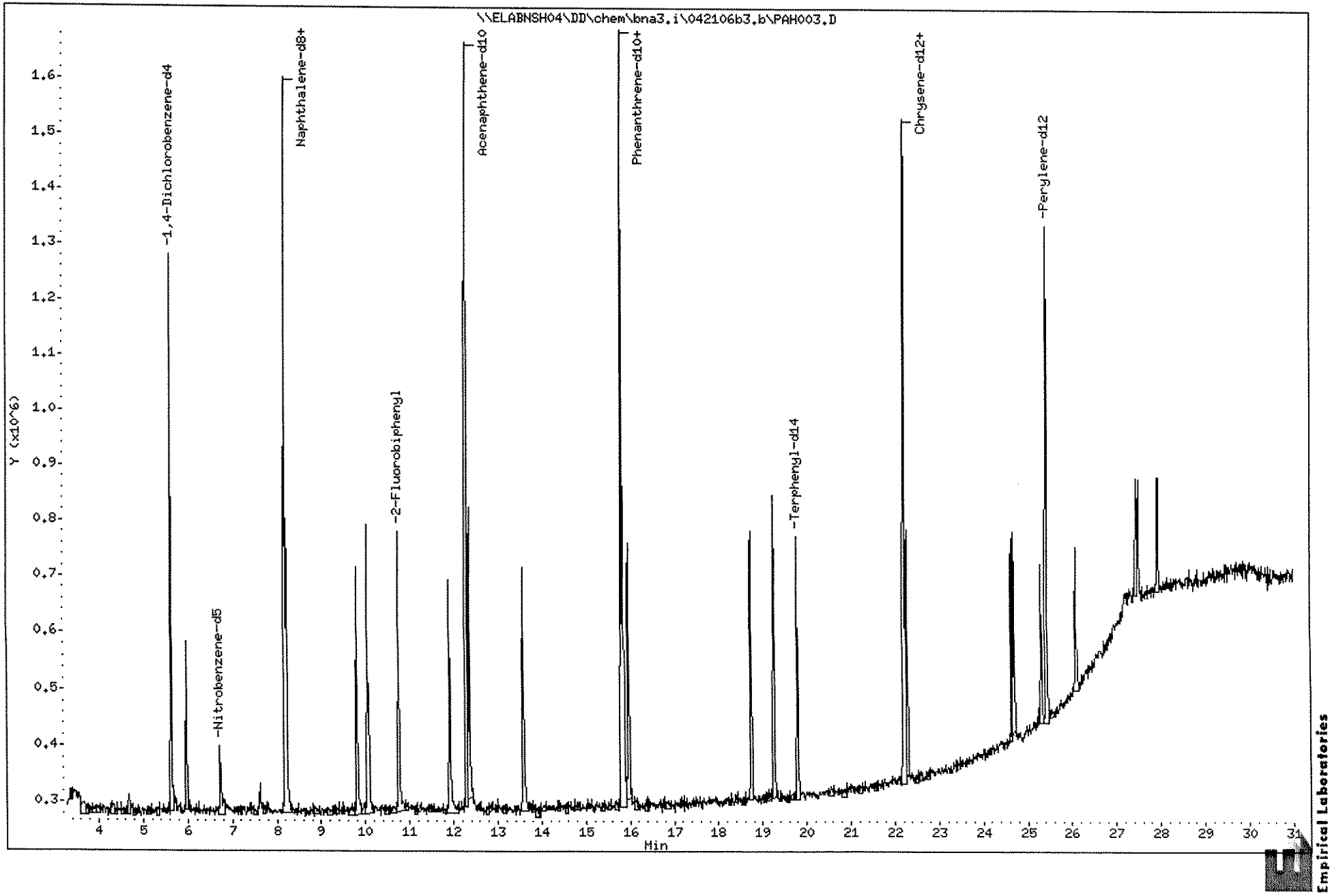
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Date : 21-APR-2006 17:48
Client ID: PAHCCV0.40PPM
Sample Info: PAHCCV0.40PPM;;;;;SV3490-3
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

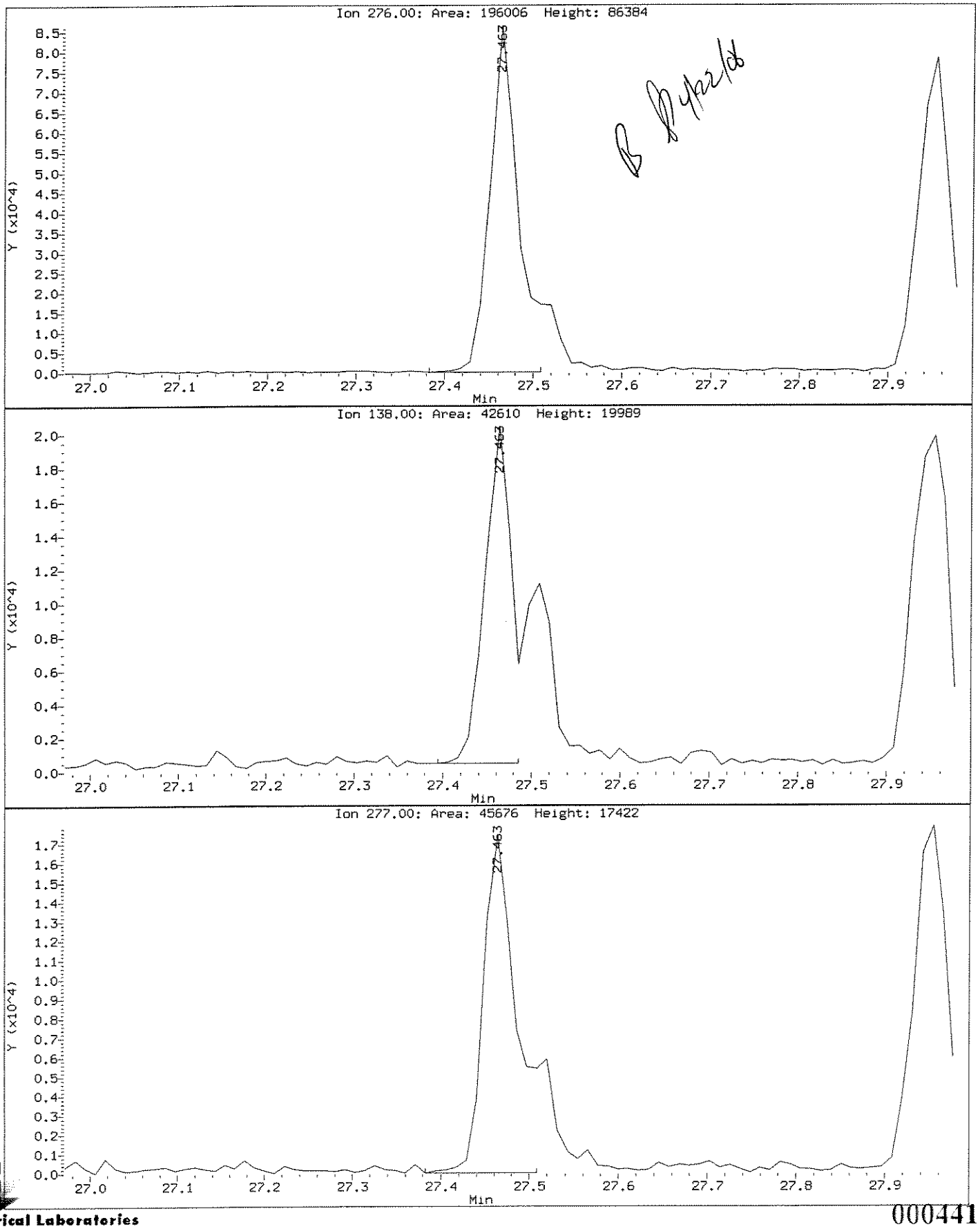
000440



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Injection Date: 21-APR-2006 17:48
Instrument: bna3.i
Client Sample ID: PAHCCV0.40PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Lab Smp Id: PAHCCV0.60PPM Client Smp ID: PAHCCV0.60PPM
Inj Date : 21-APR-2006 18:28 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.60PPM;;;;;SV3490-4
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.624	5.624	(1.000)	329200	1.00000	
*	3 Naphthalene-d8	136	8.182	8.182	(1.000)	1226474	1.00000	
$	4 Nitrobenzene-d5	82	6.732	6.732	(0.823)	117346	0.60000	0.3738
	5 Naphthalene	128	8.227	8.227	(1.006)	719719	0.60000	0.6122
	6 2-Methylnaphthalene	141	9.803	9.803	(1.198)	381395	0.60000	0.5945
	7 1-Methylnaphthalene	141	10.054	10.054	(1.229)	410164	0.60000	0.6106
*	8 Acenaphthene-d10	164	12.292	12.292	(1.000)	767876	1.00000	
$	10 2-Fluorobiphenyl	172	10.762	10.762	(0.876)	545610	0.60000	0.5891
	11 Acenaphthylene	152	11.915	11.915	(0.969)	727799	0.60000	0.5952
	12 Acenaphthene	153	12.372	12.372	(1.007)	461133	0.60000	0.5954
	15 Fluorene	166	13.582	13.582	(1.105)	547310	0.60000	0.5995
*	16 Phenanthrene-d10	188	15.808	15.808	(1.000)	1172520	1.00000	
	17 Phenanthrene	178	15.865	15.865	(1.004)	801691	0.60000	0.6239

4/22/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	774639	0.60000	0.6255
	19 Fluoranthene	202	18.742	18.742	(1.186)	795002	0.60000	0.6105
*	20 Chrysene-d12	240	22.224	22.224	(1.000)	946467	1.00000	
	21 Pyrene	202	19.267	19.267	(0.867)	861082	0.60000	0.6122
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	530003	0.60000	0.5882
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	661443	0.60000	0.6001
	24 Chrysene	228	22.281	22.281	(1.003)	659798	0.60000	0.6063
*	25 Perylene-d12	264	25.433	25.433	(1.000)	688483	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	576126	0.60000	0.6061
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.971)	556636	0.60000	0.5855
	28 Benzo(a)pyrene	252	25.307	25.307	(0.995)	448426	0.60000	0.5725
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	333760	0.60000	0.6027(M)
	30 Dibenz(a,h)anthracene	278	27.510	27.510	(1.082)	284631	0.60000	0.5431
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	354811	0.60000	0.6138

QC Flag Legend

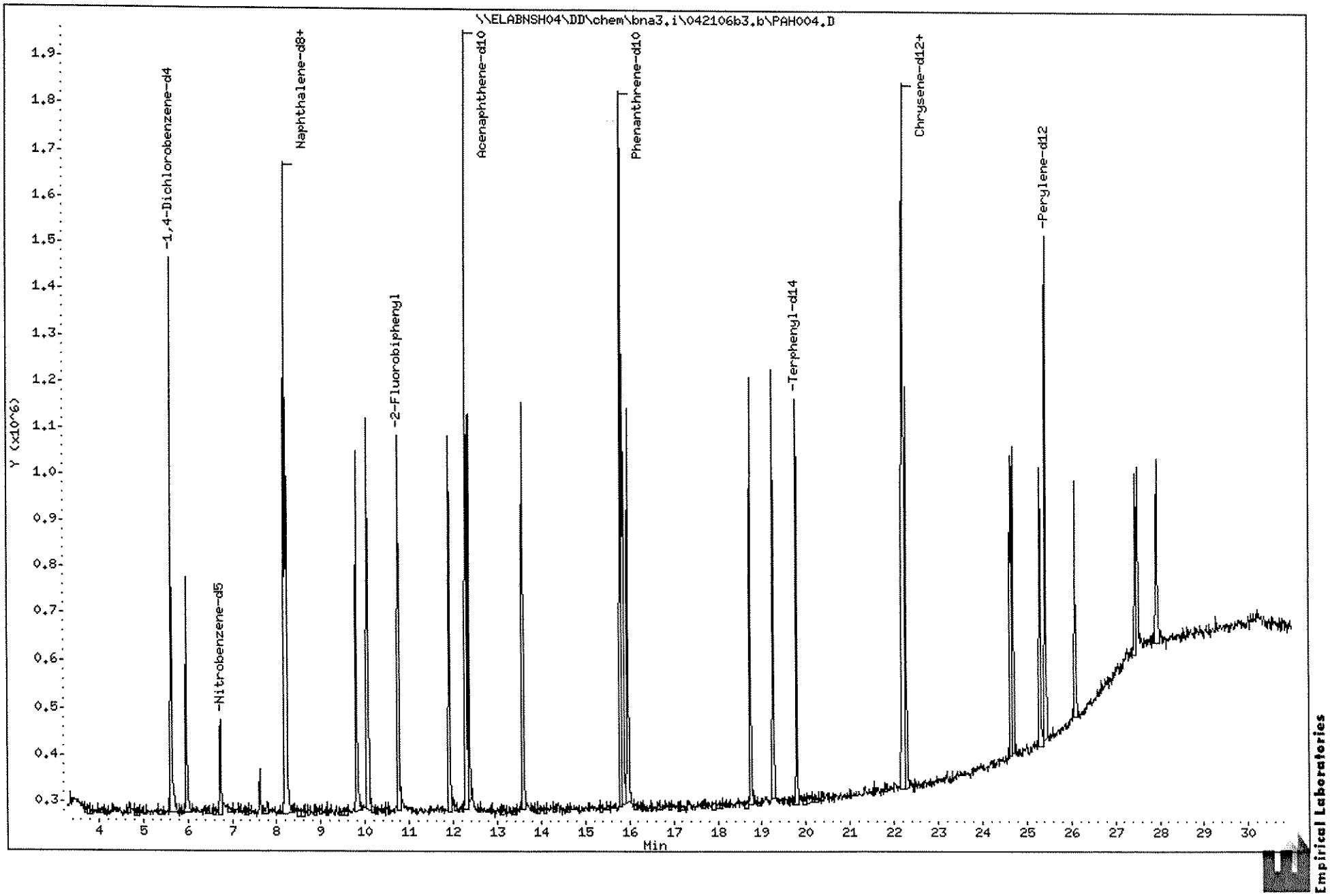
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Date : 21-APR-2006 18:28
Client ID: PAHCCV0.60PPM
Sample Info: PAHCCV0.60PPM;;;;;SV3490-4
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

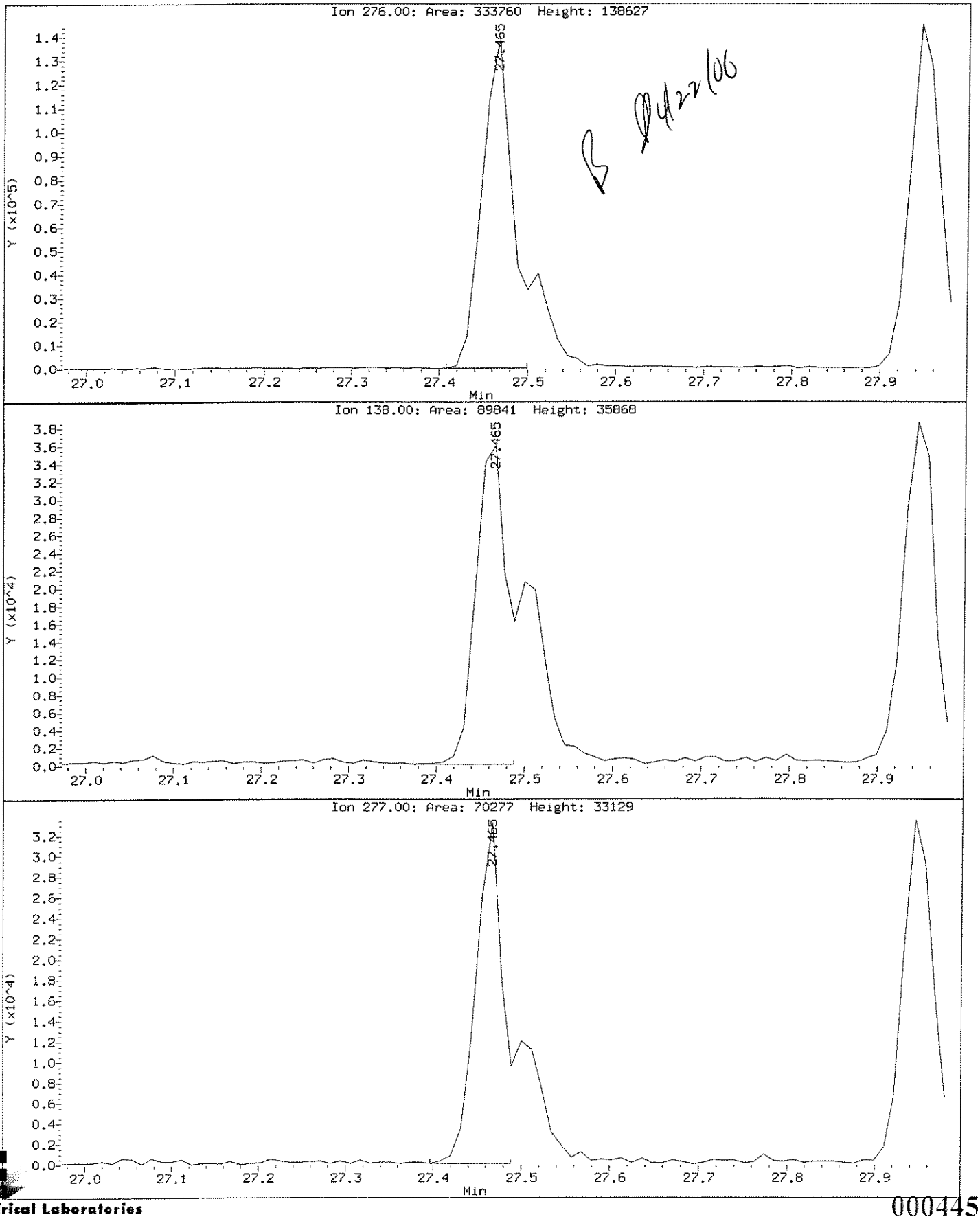
000444



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Injection Date: 21-APR-2006 18:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.60PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Lab Smp Id: PAHCCV1.00PPM Client Smp ID: PAHCCV1.00PPM
Inj Date : 21-APR-2006 19:08 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV1.00PPM;;;;;SV3490-6
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	329299	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1224400	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	214407	1.00000	0.6842
	5 Naphthalene	128	8.226	8.226	(1.004)	1207319	1.00000	1.029
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	653238	1.00000	1.020
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	678548	1.00000	1.012
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	756735	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	932424	1.00000	1.022
	11 Acenaphthylene	152	11.913	11.913	(0.969)	1279930	1.00000	1.062
	12 Acenaphthene	153	12.370	12.370	(1.007)	770344	1.00000	1.009
	15 Fluorene	166	13.580	13.580	(1.105)	940817	1.00000	1.046
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1203294	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	1377910	1.00000	1.045

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.966	15.966	(1.010)	1332118	1.00000	1.048
	19 Fluoranthene	202	18.740	18.740	(1.186)	1414100	1.00000	1.058
*	20 Chrysene-d12	240	22.223	22.223	(1.000)	1000636	1.00000	
	21 Pyrene	202	19.266	19.266	(0.867)	1480435	1.00000	0.9955
$	22 Terphenyl-d14	244	19.791	19.791	(0.891)	920381	1.00000	0.9661
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	1147993	1.00000	0.9852
	24 Chrysene	228	22.280	22.280	(1.003)	1159160	1.00000	1.007
*	25 Perylene-d12	264	25.431	25.431	(1.000)	714580	1.00000	
	26 Benzo(b)fluoranthene	252	24.643	24.643	(0.969)	979171	1.00000	0.9924
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	980610	1.00000	0.9939
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	808656	1.00000	0.9947
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	566235	1.00000	0.9852 (M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	539929	1.00000	0.9926
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	601831	1.00000	1.003

QC Flag Legend

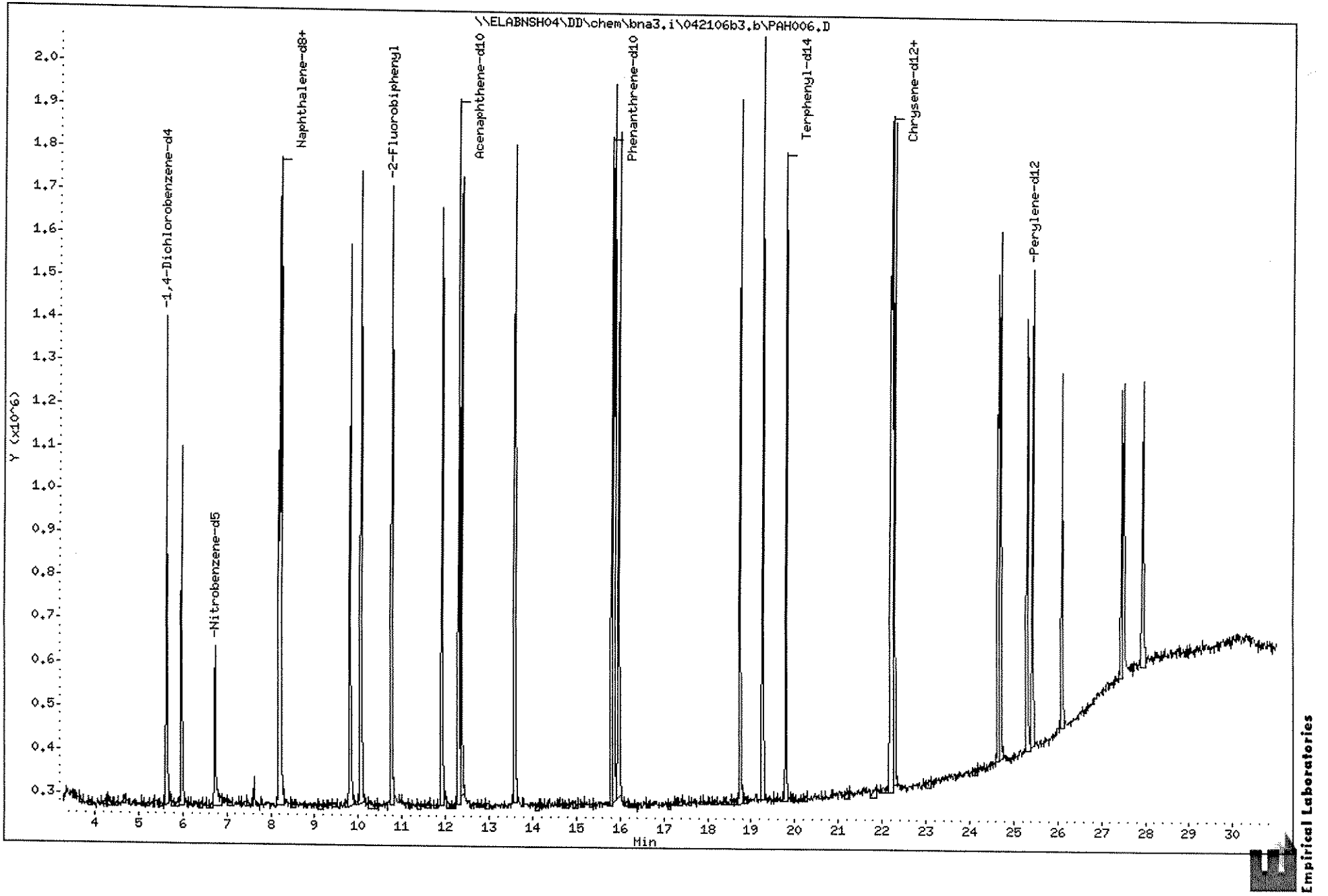
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Date : 21-APR-2006 19:08
Client ID: PAHCCV1.00PPM
Sample Info: PAHCCV1.00PPM;;;;;SV3490-6
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

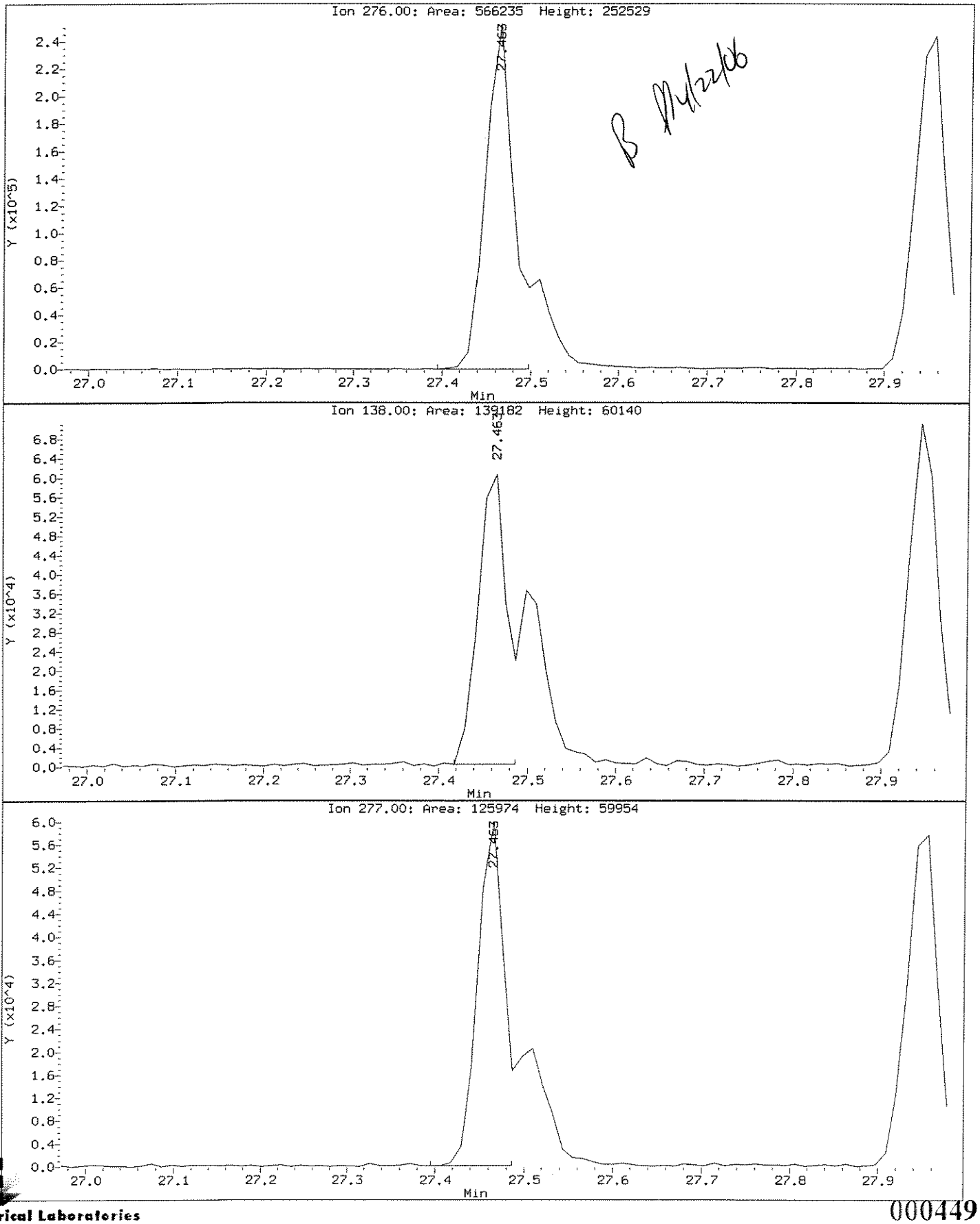
000448



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Injection Date: 21-APR-2006 19:08
Instrument: bna3.i
Client Sample ID: PAHCCV1.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



B 4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Lab Smp Id: PAHCCV2.50PPM Client Smp ID: PAHCCV2.50PPM
Inj Date : 21-APR-2006 19:48 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV2.50PPM;;;;;SV3490-8
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	351441	1.00000	
*	3 Naphthalene-d8	136	8.182	8.182	(1.000)	1256420	1.00000	
$	4 Nitrobenzene-d5	82	6.732	6.732	(0.823)	589518	2.50000	1.833
	5 Naphthalene	128	8.228	8.228	(1.006)	3009506	2.50000	2.499
	6 2-Methylnaphthalene	141	9.803	9.803	(1.198)	1644661	2.50000	2.502
	7 1-Methylnaphthalene	141	10.054	10.054	(1.229)	1658458	2.50000	2.410
*	8 Acenaphthene-d10	164	12.292	12.292	(1.000)	749522	1.00000	
$	10 2-Fluorobiphenyl	172	10.762	10.762	(0.876)	2301812	2.50000	2.546
	11 Acenaphthylene	152	11.915	11.915	(0.969)	3095703	2.50000	2.594
	12 Acenaphthene	153	12.360	12.360	(1.006)	1898346	2.50000	2.511
	15 Fluorene	166	13.582	13.582	(1.105)	2282690	2.50000	2.562
*	16 Phenanthrene-d10	188	15.808	15.808	(1.000)	1165893	1.00000	
	17 Phenanthrene	178	15.865	15.865	(1.004)	3243172	2.50000	2.538

4/22/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Report Date: 22-Apr-2006 08:16

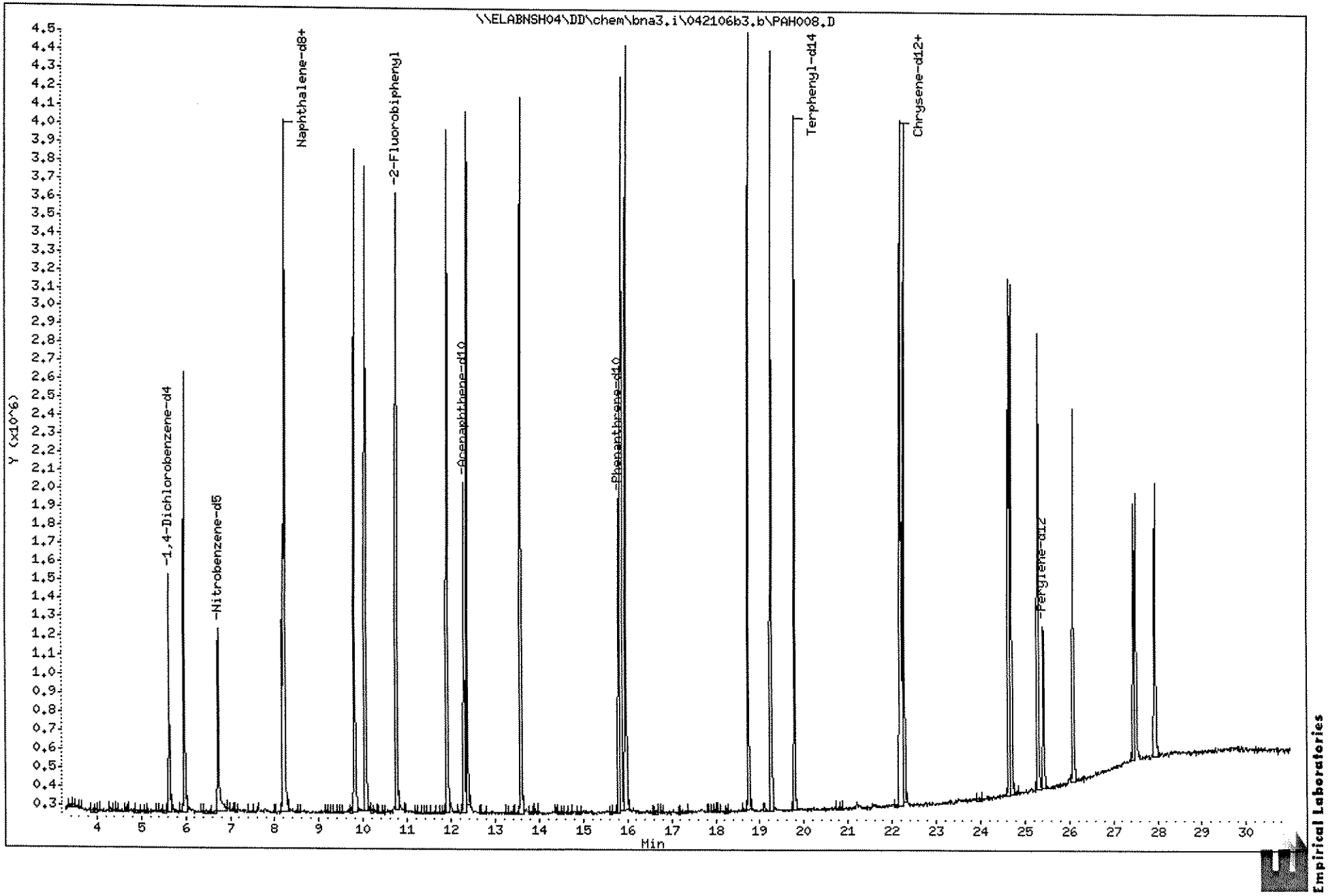
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	3243718	2.50000	2.634
	19 Fluoranthene	202	18.742	18.742	(1.186)	3318557	2.50000	2.563
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	921360	1.00000	
	21 Pyrene	202	19.256	19.256	(0.866)	3546273	2.50000	2.590
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	2192924	2.50000	2.500
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	2709732	2.50000	2.525
	24 Chrysene	228	22.282	22.282	(1.003)	2667007	2.50000	2.517
*	25 Perylene-d12	264	25.421	25.421	(1.000)	641370	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	2332875	2.50000	2.634
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.972)	2212441	2.50000	2.498
	28 Benzo(a)pyrene	252	25.307	25.307	(0.996)	1851015	2.50000	2.537
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	1282224	2.50000	2.486
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	1216301	2.50000	2.491
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	1301749	2.50000	2.417

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Date : 21-APR-2006 19:48
Client ID: PAHCCV2.50PPM
Sample Info: PAHCCV2.50PPM;;;;;SV3490-8
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

000452



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Lab Smp Id: PAHCCV5.00PPM Client Smp ID: PAHCCV5.00PPM
Inj Date : 21-APR-2006 20:27 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV5.00PPM;;;;;SV3490-9
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	327761	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1141420	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	1251055	5.00000	4.282
	5 Naphthalene	128	8.224	8.224	(1.004)	5737503	5.00000	5.244
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	3121069	5.00000	5.227
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	3234343	5.00000	5.174
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	690701	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	4365308	5.00000	5.240
	11 Acenaphthylene	152	11.912	11.912	(0.969)	6005889	5.00000	5.461
	12 Acenaphthene	153	12.369	12.369	(1.007)	3671339	5.00000	5.270
	15 Fluorene	166	13.579	13.579	(1.105)	4369991	5.00000	5.322
*	16 Phenanthrene-d10	188	15.805	15.805	(1.000)	1054546	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.004)	6107666	5.00000	5.285

Mar 4/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.965	15.965	(1.010)	6062413	5.00000	5.443
	19 Fluoranthene	202	18.739	18.739	(1.186)	6314580	5.00000	5.391
*	20 Chrysene-d12	240	22.221	22.221	(1.000)	817413	1.00000	
	21 Pyrene	202	19.264	19.264	(0.867)	6717942	5.00000	5.530
$	22 Terphenyl-d14	244	19.789	19.789	(0.891)	4081780	5.00000	5.245
	23 Benzo(a)anthracene	228	22.187	22.187	(0.998)	5054634	5.00000	5.310
	24 Chrysene	228	22.290	22.290	(1.003)	4973401	5.00000	5.291
*	25 Perylene-d12	264	25.429	25.429	(1.000)	555716	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	4173515	5.00000	5.439
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	4195909	5.00000	5.468
	28 Benzo(a)pyrene	252	25.304	25.304	(0.995)	3406369	5.00000	5.388
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	2338576	5.00000	5.232(M)
	30 Dibenz(a,h)anthracene	278	27.507	27.507	(1.082)	2292764	5.00000	5.420
	31 Benzo(g,h,i)perylene	276	27.952	27.952	(1.099)	2384785	5.00000	5.111

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
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Sample Info: PAHCCV5.00PPM;;;;;SV3490-9
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: ADM
Column diameter: 0.25

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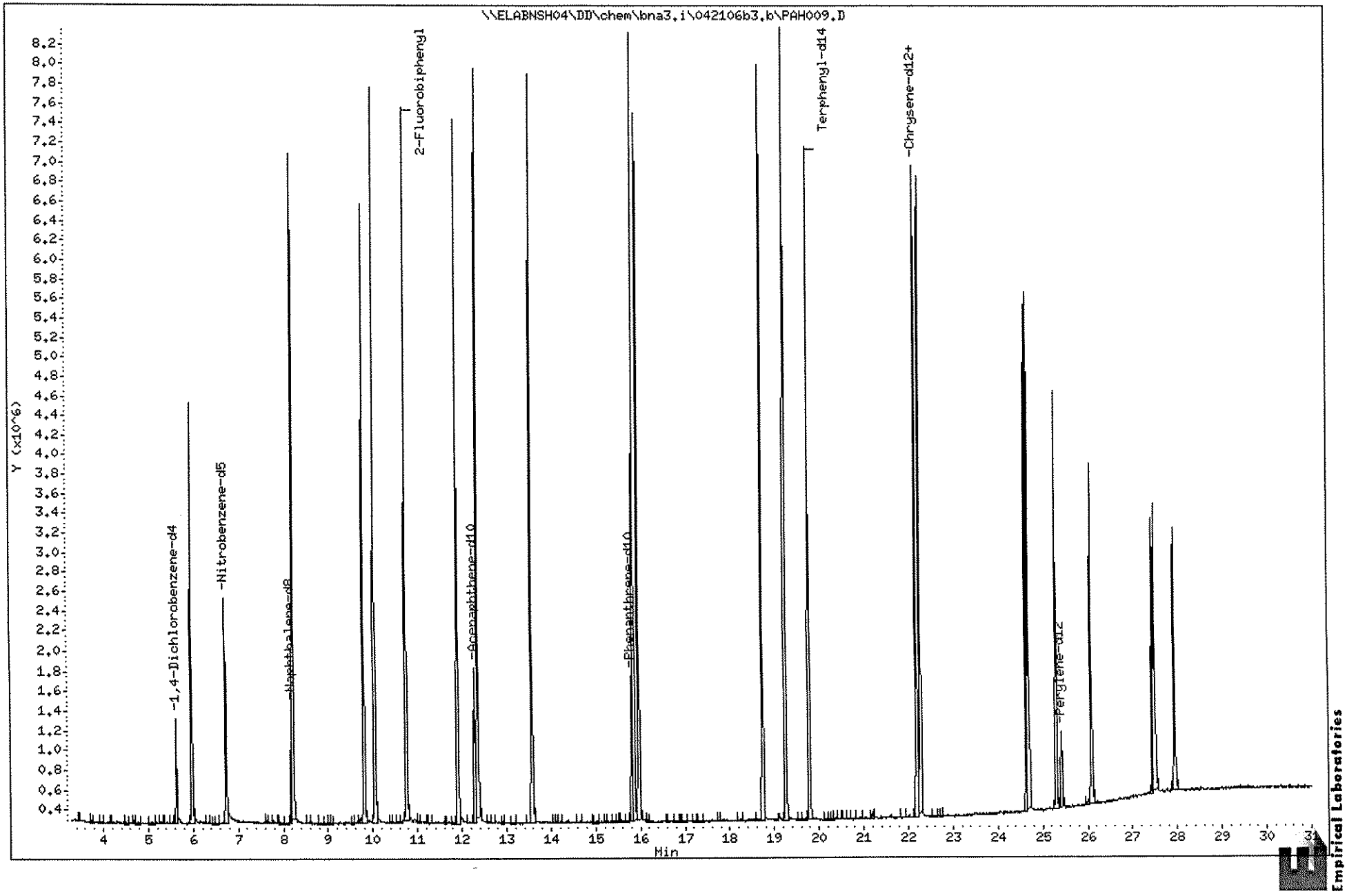
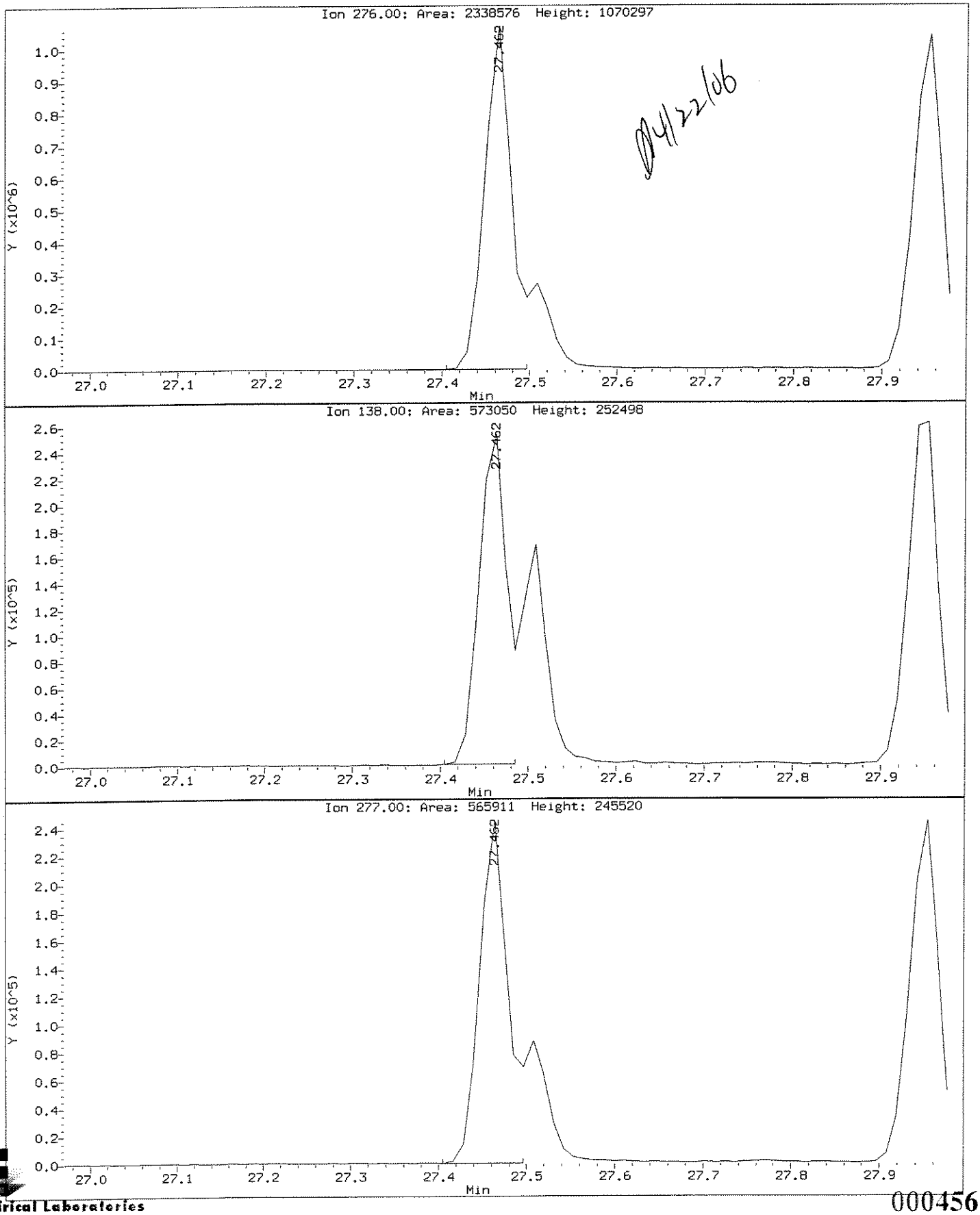


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Injection Date: 21-APR-2006 20:27
Instrument: bna3.i
Client Sample ID: PAHCCV5.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



04/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Lab Smp Id: PAHCCV10.0PPM Client Smp ID: PAHCCV10.0PPM
Inj Date : 21-APR-2006 21:07 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV10.0PPM;;;;;SV3490-11
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 10 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	328202	1.00000	
*	3 Naphthalene-d8	136	8.183	8.183	(1.000)	1168941	1.00000	
$	4 Nitrobenzene-d5	82	6.733	6.733	(0.823)	2809787	10.0000	9.392
	5 Naphthalene	128	8.228	8.228	(1.006)	11547364	10.0000	10.30
	6 2-Methylnaphthalene	141	9.804	9.804	(1.198)	6288467	10.0000	10.28
	7 1-Methylnaphthalene	141	10.055	10.055	(1.229)	6423303	10.0000	10.03
*	8 Acenaphthene-d10	164	12.293	12.293	(1.000)	690455	1.00000	
$	10 2-Fluorobiphenyl	172	10.763	10.763	(0.876)	8665745	10.0000	10.40
	11 Acenaphthylene	152	11.916	11.916	(0.969)	11912417	10.0000	10.83
	12 Acenaphthene	153	12.373	12.373	(1.007)	7309886	10.0000	10.50
	15 Fluorene	166	13.583	13.583	(1.105)	8658849	10.0000	10.55
*	16 Phenanthrene-d10	188	15.809	15.809	(1.000)	1034743	1.00000	
	17 Phenanthrene	178	15.866	15.866	(1.004)	12015977	10.0000	10.60

4/21/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.969	15.969	(1.010)	11816583	10.0000	10.81
	19 Fluoranthene	202	18.743	18.743	(1.186)	12154493	10.0000	10.58
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	799663	1.00000	
	21 Pyrene	202	19.268	19.268	(0.867)	12810447	10.0000	10.78
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	7894983	10.0000	10.37
	23 Benzo(a)anthracene	228	22.191	22.191	(0.998)	9983668	10.0000	10.72
	24 Chrysene	228	22.294	22.294	(1.003)	9506218	10.0000	10.34
*	25 Perylene-d12	264	25.422	25.422	(1.000)	534584	1.00000	
	26 Benzo(b)fluoranthene	252	24.657	24.657	(0.970)	7848714	10.0000	10.63
	27 Benzo(k)fluoranthene	252	24.703	24.703	(0.972)	8127846	10.0000	11.01
	28 Benzo(a)pyrene	252	25.308	25.308	(0.996)	6600718	10.0000	10.85
	29 Indeno(1,2,3-cd)pyrene	276	27.466	27.466	(1.080)	4581178	10.0000	10.66
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	4457770	10.0000	10.95
	31 Benzo(g,h,i)perylene	276	27.957	27.957	(1.100)	4476890	10.0000	9.974

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
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Client ID: PAHCCV10.0PPM
Instrument: bna3.i
Sample Info: PAHCCV10.0PPM;;;;;SV3490-11
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

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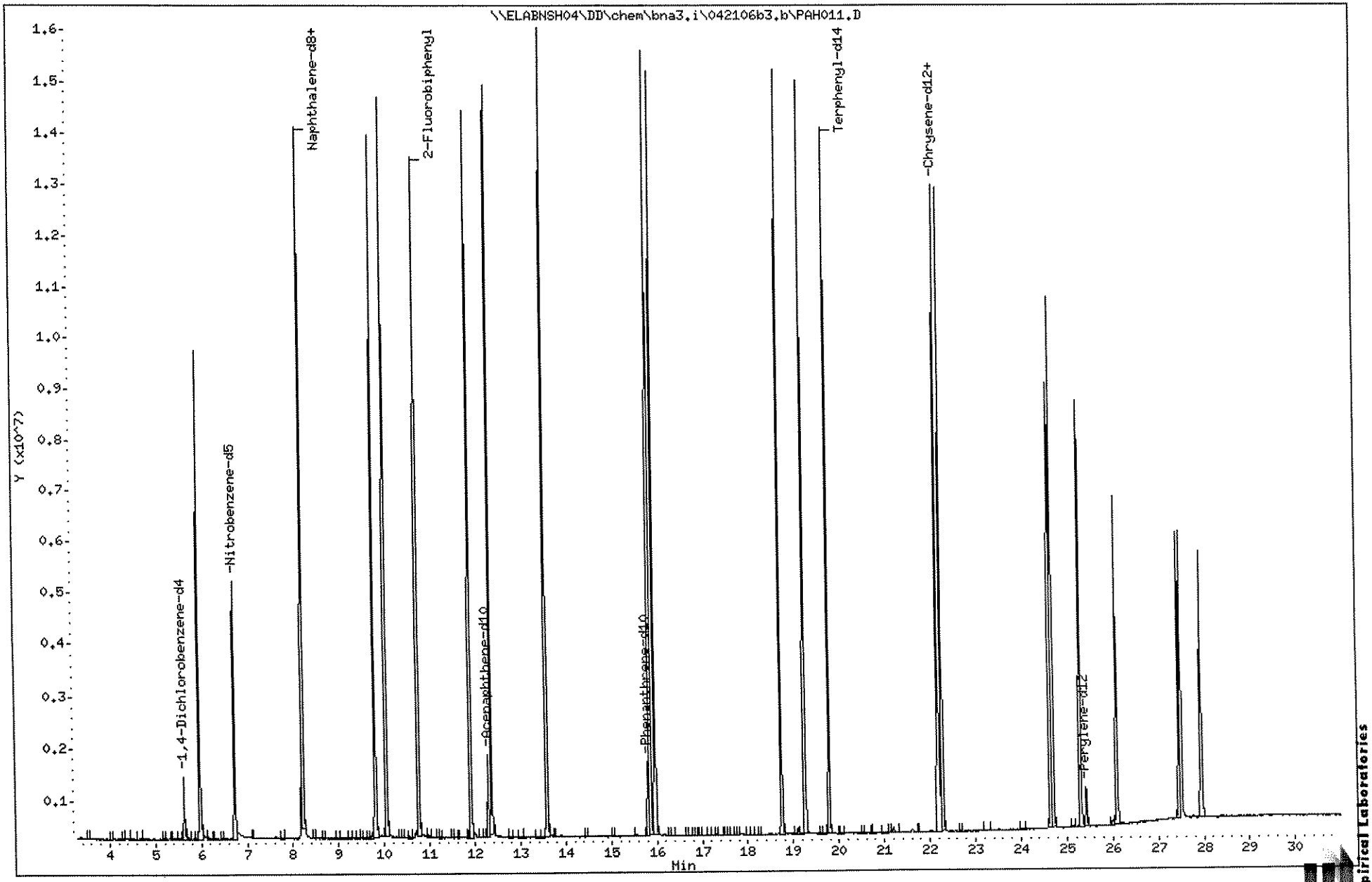

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
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Operator : ADM Inst ID: bna3.i
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Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 11 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	324325	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1113673	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	5844767	20.0000	20.50(A)
	5 Naphthalene	128	8.225	8.225	(1.004)	17633624	20.0000	16.52
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	11836293	20.0000	20.32(A)
	7 1-Methylnaphthalene	141	10.063	10.063	(1.229)	12274146	20.0000	20.12(A)
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	665068	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	15413066	20.0000	19.21
	11 Acenaphthylene	152	11.913	11.913	(0.969)	18158725	20.0000	17.15
	12 Acenaphthene	153	12.369	12.369	(1.007)	13586065	20.0000	20.25(A)
	15 Fluorene	166	13.591	13.591	(1.106)	15882727	20.0000	20.09(A)
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1001093	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	18888056	20.0000	17.22

4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.011)	19023984	20.0000	17.99
	19 Fluoranthene	202	18.751	18.751	(1.186)	20013711	20.0000	18.00
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	734542	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	19784312	20.0000	18.12
$	22 Terphenyl-d14	244	19.802	19.802	(0.891)	14979344	20.0000	21.42(A)
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	17871479	20.0000	20.89(A)
	24 Chrysene	228	22.302	22.302	(1.003)	16887934	20.0000	19.99
*	25 Perylene-d12	264	25.430	25.430	(1.000)	500206	1.00000	
	26 Benzo(b)fluoranthene	252	24.665	24.665	(0.970)	15131398	20.0000	21.91(A)
	27 Benzo(k)fluoranthene	252	24.711	24.711	(0.972)	14612083	20.0000	21.16(A)
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	12605362	20.0000	22.15(A)
	29 Indeno(1,2,3-cd)pyrene	276	27.474	27.474	(1.080)	9064855	20.0000	22.53(A)
	30 Dibenz(a,h)anthracene	278	27.520	27.520	(1.082)	8730118	20.0000	22.93(A)
	31 Benzo(g,h,i)perylene	276	27.965	27.965	(1.100)	8639579	20.0000	20.57(A)

QC Flag Legend

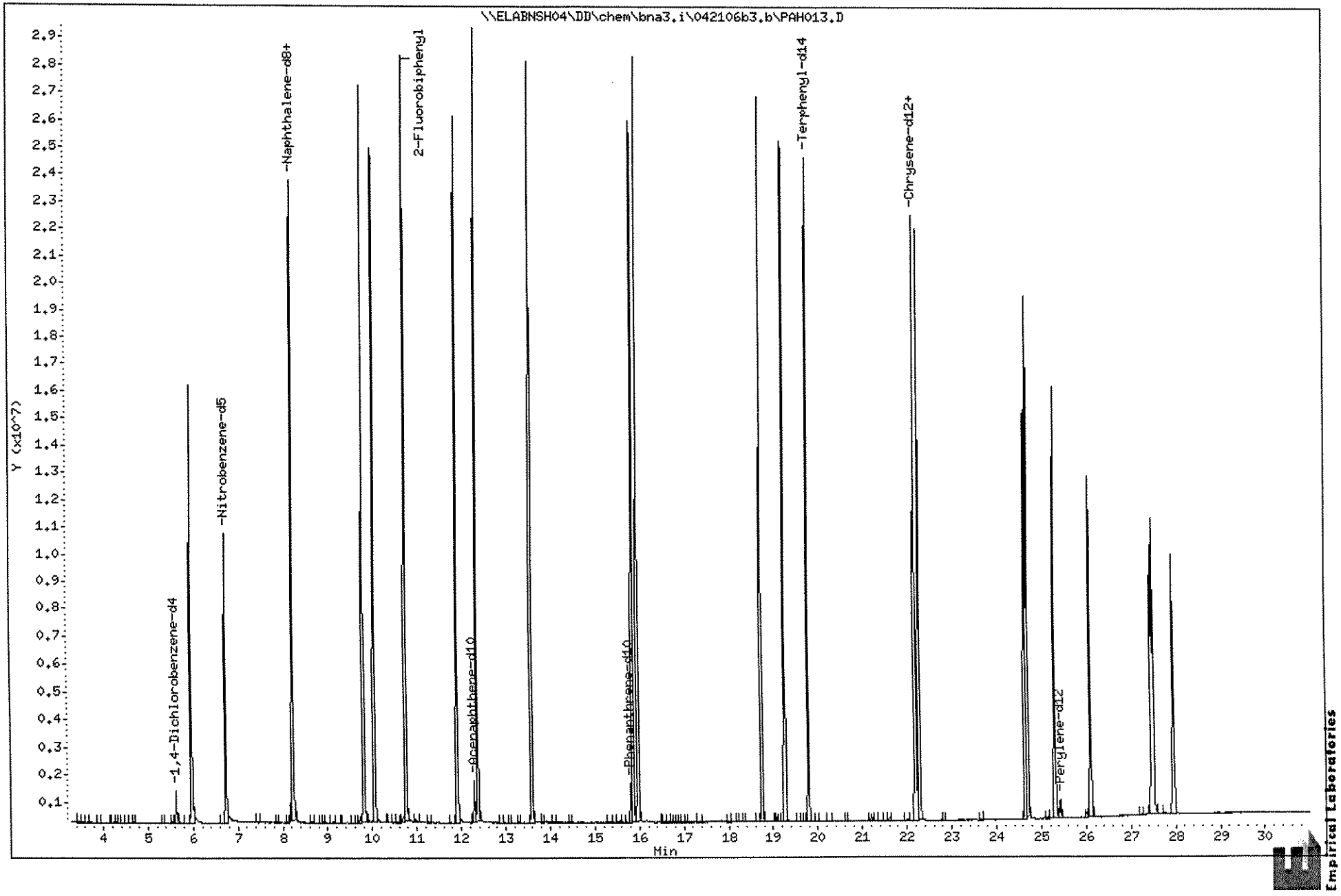
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Date : 21-APR-2006 21:47
Client ID: PAHCCV20.0PPM
Sample Info: PAHCCV20.0PPM;;;;;SV3490-13
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

000462



Empirical Laboratories

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Acenaphthene	50.00	47.26	94	75-125
Acenaphthylene	50.00	54.24	108	75-125
Anthracene	50.00	47.86	96	75-125
Benzoic acid	50.00	52.76	106	75-125
Benzo(a)anthracene	50.00	46.71	93	75-125
Benzo(b)fluoranthene	50.00	49.33	99	75-125
Benzo(k)fluoranthene	50.00	50.08	100	75-125
Benzo(g,h,i)perylene	50.00	45.90	92	75-125
Benzo(a)pyrene	50.00	50.61	101	75-125
Benzyl alcohol	50.00	48.61	97	75-125
bis(2-Chloroethoxy)meth	50.00	48.53	97	75-125
bis(2-Chloroethyl)ether	50.00	46.90	94	75-125
bis(2-Chloroisopropyl)e	50.00	48.81	98	75-125
Bis(2-ethylhexyl)phthal	50.00	49.50	99	75-125
4-Bromophenyl-phenyleth	50.00	40.59	81	75-125
Butylbenzylphthalate	50.00	49.75	100	75-125
4-Chloroaniline	50.00	54.74	109	75-125
Carbazole	50.00	48.49	97	75-125
4-Chloro-3-methylphenol	50.00	49.56	99	75-125
2-Chloronaphthalene	50.00	51.57	103	75-125
2-Chlorophenol	50.00	50.59	101	75-125
4-Chlorophenyl-phenylet	50.00	47.62	95	75-125
Chrysene	50.00	46.03	92	75-125
Dibenz(a,h)anthracene	50.00	45.58	91	75-125
Dibenzofuran	50.00	47.63	95	75-125
1,3-Dichlorobenzene	50.00	48.01	96	75-125
1,4-Dichlorobenzene	50.00	47.11	94	75-125
1,2-Dichlorobenzene	50.00	51.29	102	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
3,3'-Dichlorobenzidine	50.00	51.84	104	75-125
2,4-Dichlorophenol	50.00	47.31	95	75-125
Diethylphthalate	50.00	47.79	96	75-125
2,4-Dimethylphenol	50.00	44.79	90	75-125
Dimethylphthalate	50.00	48.46	97	75-125
Di-n-butylphthalate	50.00	48.42	97	75-125
4,6-Dinitro-2-methylphe	50.00	53.86	108	75-125
2,4-Dinitrophenol	50.00	55.40	111	75-125
2,4-Dinitrotoluene	50.00	52.25	104	75-125
2,6-Dinitrotoluene	50.00	53.44	107	75-125
Di-n-octylphthalate	50.00	51.97	104	75-125
1,2-Diphenylhydrazine	50.00	49.65	99	75-125
Fluoranthene	50.00	48.18	96	75-125
Fluorene	50.00	46.66	93	75-125
Hexachlorobenzene	50.00	47.65	95	75-125
Hexachlorobutadiene	50.00	51.09	102	75-125
Hexachlorocyclopentadie	50.00	62.47	125	75-125
Hexachloroethane	50.00	48.55	97	75-125
Indeno(1,2,3-cd)pyrene	50.00	45.20	90	75-125
Isophorone	50.00	49.58	99	75-125
2-Methylnaphthalene	50.00	48.30	97	75-125
2-Methylphenol	50.00	47.85	96	75-125
3-Methylphenol	50.00	51.69	103	75-125
Naphthalene	50.00	46.63	93	75-125
4-Methylphenol	50.00	51.70	103	75-125
2-Nitroaniline	50.00	56.19	112	75-125
3-Nitroaniline	50.00	54.85	110	75-125
4-Nitroaniline	50.00	58.14	116	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Nitrobenzene	50.00	49.69	99	75-125
2-Nitrophenol	50.00	52.18	104	75-125
4-Nitrophenol	50.00	54.00	108	75-125
N-Nitroso-di-methylamin	50.00	45.48	91	75-125
N-Nitrosodiphenylamine	50.00	47.86	96	75-125
N-Nitroso-di-n-prop.(1)	50.00	49.70	99	75-125
Pentachlorophenol	50.00	50.49	101	75-125
Phenanthrene	50.00	47.19	94	75-125
Phenol	50.00	49.08	98	75-125
Pyrene	50.00	45.22	90	75-125
1,2,4-Trichlorobenzene	50.00	47.10	94	75-125
2,4,5-Trichlorophenol	50.00	52.13	104	75-125
2,4,6-Trichlorophenol	50.00	51.42	103	75-125
2-Fluorophenol	50.00	53.29	106	75-125
Phenol-d6	50.00	53.90	108	75-125
Nitrobenzene-d5	50.00	51.93	104	75-125
2-Fluorobiphenyl	50.00	48.17	96	75-125
2,4,6-Tribromophenol	50.00	54.56	109	75-125
Terphenyl-d14	50.00	46.15	92	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

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rget Version: 4.04
ocessing Host: NSH-BURCHFIELD

ncentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

4/20/06

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
1 1,4-Dichlorobenzene-d4	152	4.910	4.914	(1.000)	400547	40.0000	
2 2-Fluorophenol	112	4.007	4.014	(0.816)	739364	53.2906	53.29
3 Phenol-d6	99	4.676	4.687	(0.952)	893946	53.9018	53.90
4 Pyridine	79	2.960	2.967	(0.603)	913930	51.1516	51.15
5 N-Nitroso-di-methylamine	42	2.974	2.980	(0.606)	421473	45.4845	45.48
6 Aniline	93	4.696	4.708	(0.956)	740594	77.4184	77.42
8 Phenol	94	4.683	4.702	(0.954)	930930	49.0835	49.08
9 bis(2-Chloroethyl)ether	93	4.737	4.749	(0.965)	779252	46.8964	46.90
10 2-Chlorophenol	128	4.779	4.783	(0.973)	666698	50.5930	50.59
11 1,3-Dichlorobenzene	146	4.883	4.886	(0.994)	717569	48.0080	48.01
12 1,4-Dichlorobenzene	146	4.924	4.928	(1.003)	667818	47.1090	47.11
13 Benzyl alcohol	108	5.040	5.051	(1.026)	438360	48.6060	48.61
14 1,2-Dichlorobenzene	146	5.074	5.079	(1.033)	679439	51.2894	51.29
15 2-Methylphenol	108	5.136	5.147	(1.046)	588344	47.8499	47.85

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
16 bis(2-Chloroisopropyl)ether	45	5.156	5.161	(1.050)	1574275	48.8068	48.81
17 3-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6931	51.69
18 4-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6980	51.70
19 N-Nitroso-di-n-propylamine	70	5.287	5.305	(1.077)	570973	49.6976	49.70
20 Hexachloroethane	117	5.335	5.333	(1.087)	306393	48.5494	48.55
31 Naphthalene-d8	136	6.111	6.116	(1.000)	1246820	40.0000	
32 Nitrobenzene-d5	82	5.397	5.409	(0.883)	706793	51.9295	51.93
33 Nitrobenzene	77	5.417	5.429	(0.887)	684749	49.6904	49.69
35 Isophorone	82	5.637	5.656	(0.922)	1455528	49.5831	49.58
36 2-Nitrophenol	139	5.719	5.725	(0.936)	381478	52.1794	52.18
38 2,4-Dimethylphenol	107	5.753	5.766	(0.942)	529642	44.7906	44.79
39 Benzoic acid	105	5.898	5.958	(0.965)	438381	52.7621	52.76
40 bis(2-Chloroethoxy)methane	93	5.856	5.868	(0.958)	857091	48.5347	48.53
43 2,4-Dichlorophenol	162	5.966	5.979	(0.976)	462113	47.3072	47.31
46 1,2,4-Trichlorobenzene	180	6.062	6.068	(0.992)	490904	47.1047	47.10
47 Naphthalene	128	6.138	6.143	(1.004)	1445608	46.6329	46.63
48 4-Chloroaniline	127	6.227	6.226	(1.019)	694084	54.7375	54.74
49 Hexachlorobutadiene	225	6.358	6.357	(1.040)	269347	51.0916	51.09
50 4-Chloro-3-methylphenol	107	6.872	6.900	(1.125)	483354	49.5630	49.56
51 2-Methylnaphthalene	141	7.064	7.072	(1.156)	660347	48.2994	48.30
65 Acenaphthene-d10	164	9.016	9.023	(1.000)	639570	40.0000	
66 Hexachlorocyclopentadiene	237	7.435	7.436	(0.825)	238751	62.4728	62.47
67 2,4,6-Trichlorophenol	196	7.572	7.594	(0.840)	308469	51.4165	51.42
68 2,4,5-Trichlorophenol	196	7.634	7.662	(0.847)	323972	52.1267	52.13
69 2-Chloronaphthalene	162	7.875	7.897	(0.873)	931870	51.5670	51.57
70 2-Fluorobiphenyl	172	7.724	7.731	(0.857)	980511	48.1750	48.17
71 2-Nitroaniline	65	8.157	8.178	(0.905)	395379	56.1871	56.19
72 Dimethylphthalate	163	8.624	8.645	(0.957)	1097747	48.4635	48.46
73 Acenaphthylene	152	8.686	8.700	(0.963)	1458654	54.2438	54.24
74 2,6-Dinitrotoluene	165	8.741	8.762	(0.969)	265325	53.4445	53.44
75 3-Nitroaniline	138	9.023	9.058	(1.001)	302450	54.8499	54.85
76 Acenaphthene	153	9.092	9.106	(1.008)	872375	47.2620	47.26
77 2,4-Dinitrophenol	184	9.243	9.270	(1.025)	140791	55.4040	55.40
79 4-Nitrophenol	65	9.456	9.504	(1.049)	205414	54.0023	54.00
80 Dibenzofuran	168	9.442	9.462	(1.047)	1218226	47.6281	47.63
81 2,4-Dinitrotoluene	165	9.607	9.634	(1.066)	328399	52.2502	52.25
82 Diethylphthalate	149	10.267	10.294	(1.139)	1037178	47.7896	47.79
83 4-Chlorophenyl-phenylether	204	10.315	10.328	(1.144)	401589	47.6214	47.62
84 Fluorene	166	10.247	10.259	(1.136)	921265	46.6649	46.66
85 4-Nitroaniline	138	10.466	10.513	(1.161)	275045	58.1425	58.14
98 Phenanthrene-d10	188	12.614	12.629	(1.000)	848846	40.0000	
99 1,2-Diphenylhydrazine	77	10.699	10.720	(0.848)	1416542	49.6502	49.65
100 Carbazole	167	13.330	13.352	(1.057)	1131235	48.4941	48.49
101 4,6-Dinitro-2-methylphenol	198	10.569	10.609	(0.838)	185817	53.8581	53.86
102 N-Nitrosodiphenylamine	169	10.644	10.672	(0.844)	637280	47.8584	47.86
103 2,4,6-Tribromophenol	330	10.884	10.920	(0.863)	170865	54.5621	54.56
104 4-Bromophenyl-phenylether	248	11.528	11.545	(0.914)	234436	40.5877	40.59

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
05 Hexachlorobenzene	284	11.837	11.854	(0.938)	303002	47.6463	47.65
06 Pentachlorophenol	266	12.347	12.361	(0.979)	203601	50.4905	50.49
07 Phenanthrene	178	12.677	12.705	(1.005)	1142074	47.1884	47.19
08 Anthracene	178	12.800	12.823	(1.015)	1143543	47.8586	47.86
10 Di-n-butylphthalate	149	14.739	14.753	(1.168)	1907934	48.4156	48.42
11 Fluoranthene	202	16.016	16.042	(1.270)	1154345	48.1752	48.18
27 Chrysene-d12	240	20.234	20.256	(1.000)	658581	40.0000	
29 Pyrene	202	16.624	16.647	(0.822)	1189297	45.2180	45.22
30 Terphenyl-d14	244	17.338	17.355	(0.857)	767441	46.1479	46.15
31 Butylbenzylphthalate	149	19.058	19.072	(0.942)	813722	49.7480	49.75
32 3,3'-Dichlorobenzidine	252	20.324	20.349	(1.004)	301186	51.8399	51.84
33 Benzo(a)anthracene	228	20.185	20.214	(0.998)	991085	46.7062	46.71
34 Chrysene	228	20.310	20.338	(1.004)	892181	46.0340	46.03
35 Bis(2-ethylhexyl)phthalate	149	20.981	20.992	(1.037)	1056866	49.5033	49.50
49 Perylene-d12	264	24.441	24.462	(1.000)	582226	40.0000	
50 Di-n-octylphthalate	149	22.744	22.759	(0.931)	1682049	51.9706	51.97
51 Benzo(b)fluoranthene	252	23.286	23.328	(0.953)	884827	49.3350	49.33
52 Benzo(k)fluoranthene	252	23.376	23.425	(0.956)	931839	50.0781	50.08
53 Benzo(a)pyrene	252	24.284	24.317	(0.994)	782660	50.6069	50.61
54 Indeno(1,2,3-cd)pyrene	276	26.319	26.346	(1.077)	596463	45.2040	45.20
55 Dibenz(a,h)anthracene	278	26.375	26.401	(1.079)	605494	45.5823	45.58
56 Benzo(g,h,i)perylene	276	26.718	26.744	(1.093)	628573	45.9049	45.90

Empirical Laboratories

FORM 3
SOIL SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA70555

Matrix Spike - Client Sample No.: PAHICV5.0PPM Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (SV3397	% REC #	QC. LIMITS REC.
Acenaphthene	166.7	161.0	96	75-125
Acenaphthylene	166.7	167.0	100	75-125
Anthracene	166.7	167.6	100	75-125
Benzo(a)anthracene	166.7	167.6	100	75-125
Benzo(b)fluoranthene	166.7	170.1	102	75-125
Benzo(k)fluoranthene	166.7	172.0	103	75-125
Benzo(g,h,i)perylene	166.7	156.9	94	75-125
Benzo(a)pyrene	166.7	163.1	98	75-125
Chrysene	166.7	164.6	99	75-125
Dibenz(a,h)anthracene	166.7	172.4	103	75-125
Fluoranthene	166.7	171.1	103	75-125
Fluorene	166.7	166.0	100	75-125
Indeno(1,2,3-cd)pyrene	166.7	167.9	101	75-125
2-Methylnaphthalene	166.7	177.0	106	75-125
1-Methylnaphthalene	166.7	174.8	105	75-125
Naphthalene	166.7	164.2	98	75-125
Phenanthrene	166.7	161.6	97	75-125
Pyrene	166.7	178.1	107	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

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Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

Empirical Laboratories, LLC

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Operator : ADM Inst ID: bna3.i
Smp Info : PAHICV5.0PPM;;;;;SV3397
Misc Info : ;;;;;;pahsurr.sub;3353
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

(04/25/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (SV3397)	
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.622	(1.000)	353000	1.00000		(QM)
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1305757	1.00000		
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	1610691	4.81954	160.6	(R)
	5 Naphthalene	128	8.226	8.225	(1.004)	6168065	4.92769	164.2	
	6 2-Methylnaphthalene	141	9.801	9.812	(1.197)	3626953	5.31008	177.0	
	7 1-Methylnaphthalene	141	10.052	10.063	(1.227)	3750314	5.24437	174.8	
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	802342	1.00000		
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	4940600	5.10501	170.2	(R)
	11 Acenaphthylene	152	11.913	11.913	(0.969)	6402837	5.01155	167.0	
	12 Acenaphthene	153	12.370	12.369	(1.007)	3908464	4.82979	161.0	
	15 Fluorene	166	13.580	13.591	(1.105)	4749777	4.97942	166.0	
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1215373	1.00000		
	17 Phenanthrene	178	15.863	15.863	(1.004)	6457340	4.84790	161.6	

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

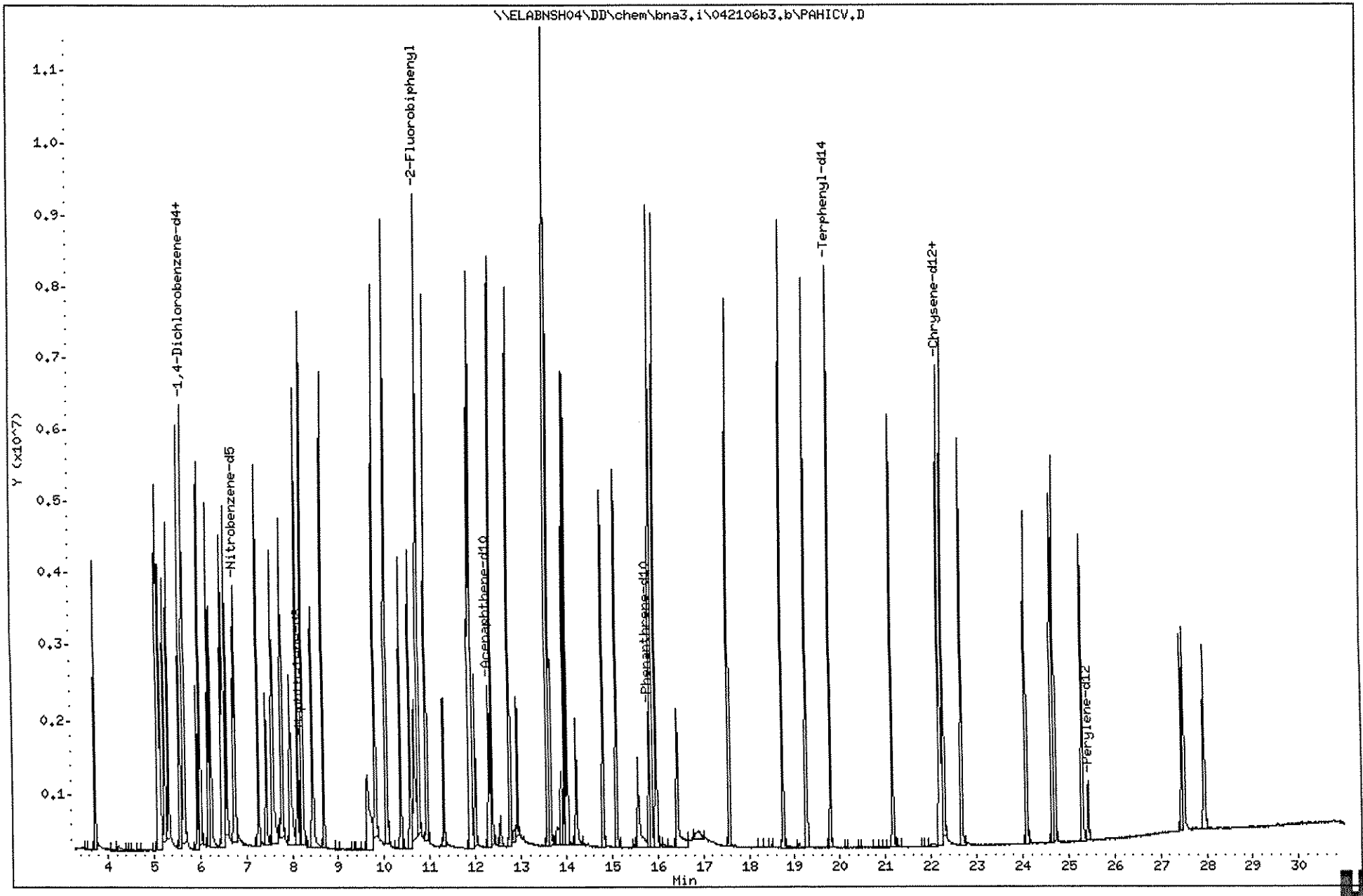
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (SV3397)
	18 Anthracene	178	15.966	15.977	(1.010)	6452415	5.02675	167.6
	19 Fluoranthene	202	18.740	18.751	(1.186)	6929091	5.13329	171.1
*	20 Chrysene-d12	240	22.223	22.234	(1.000)	889243	1.00000	
	21 Pyrene	202	19.266	19.265	(0.867)	7062998	5.34432	178.1
$	22 Terphenyl-d14	244	19.791	19.802	(0.891)	4437355	5.24129	174.7(R)
	23 Benzo(a)anthracene	228	22.188	22.199	(0.998)	5205413	5.02666	167.6
	24 Chrysene	228	22.291	22.302	(1.003)	5049629	4.93854	164.6
*	25 Perylene-d12	264	25.431	25.430	(1.000)	574826	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.665	(0.969)	4050622	5.10368	170.1
	27 Benzo(k)fluoranthene	252	24.700	24.711	(0.971)	4094738	5.15905	172.0
	28 Benzo(a)pyrene	252	25.305	25.316	(0.995)	3200053	4.89335	163.1
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.474	(1.080)	2329096	5.03786	167.9(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.520	(1.082)	2262420	5.17065	172.4
	31 Benzo(g,h,i)perylene	276	27.954	27.965	(1.099)	2271292	4.70606	156.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Date : 21-APR-2006 22:27
Client ID: PAHICV5.0PPM
Instrument: bna3.i
Sample Info: PAHICV5.0PPM;;;;;SV3397
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

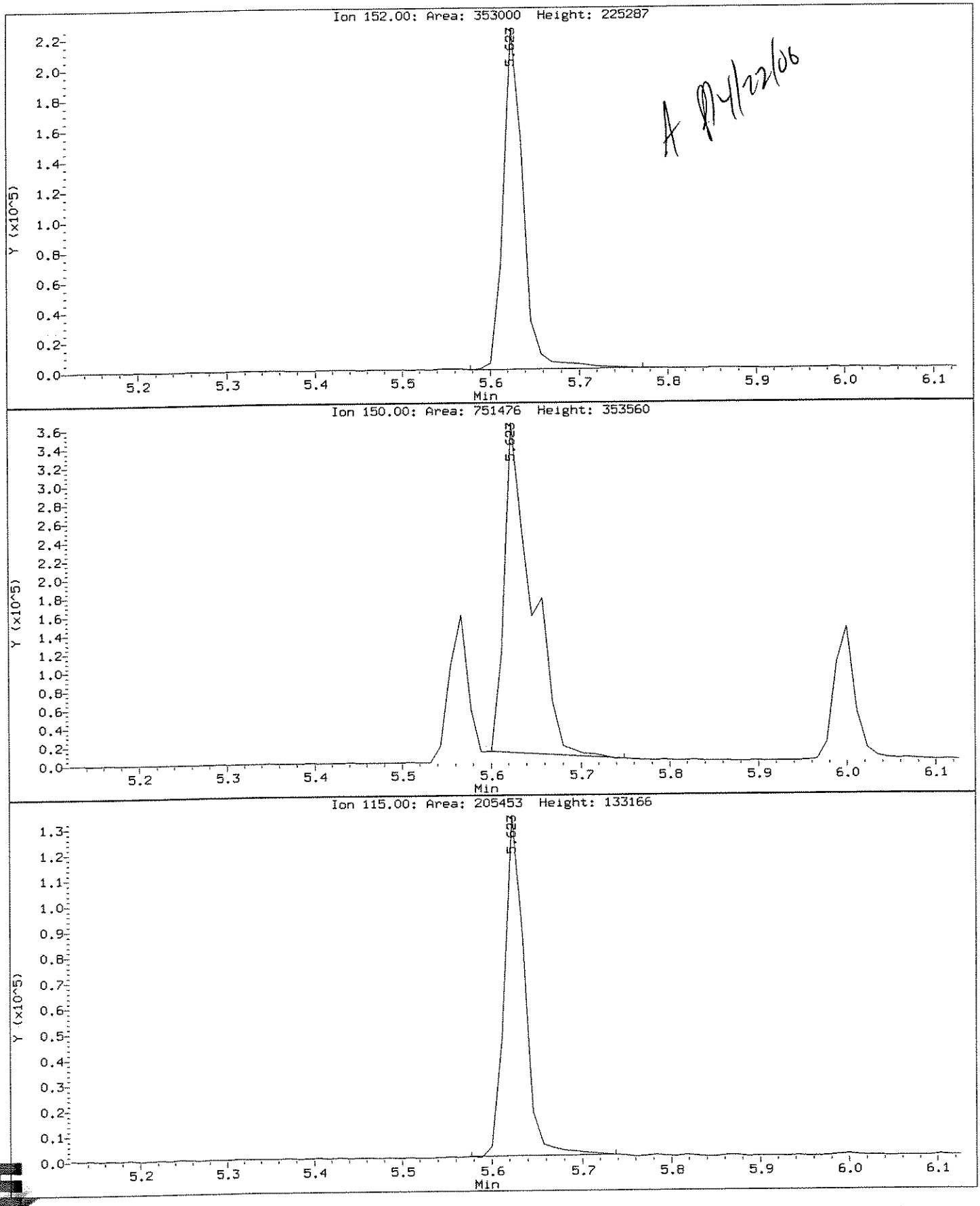
000473



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.0PPM

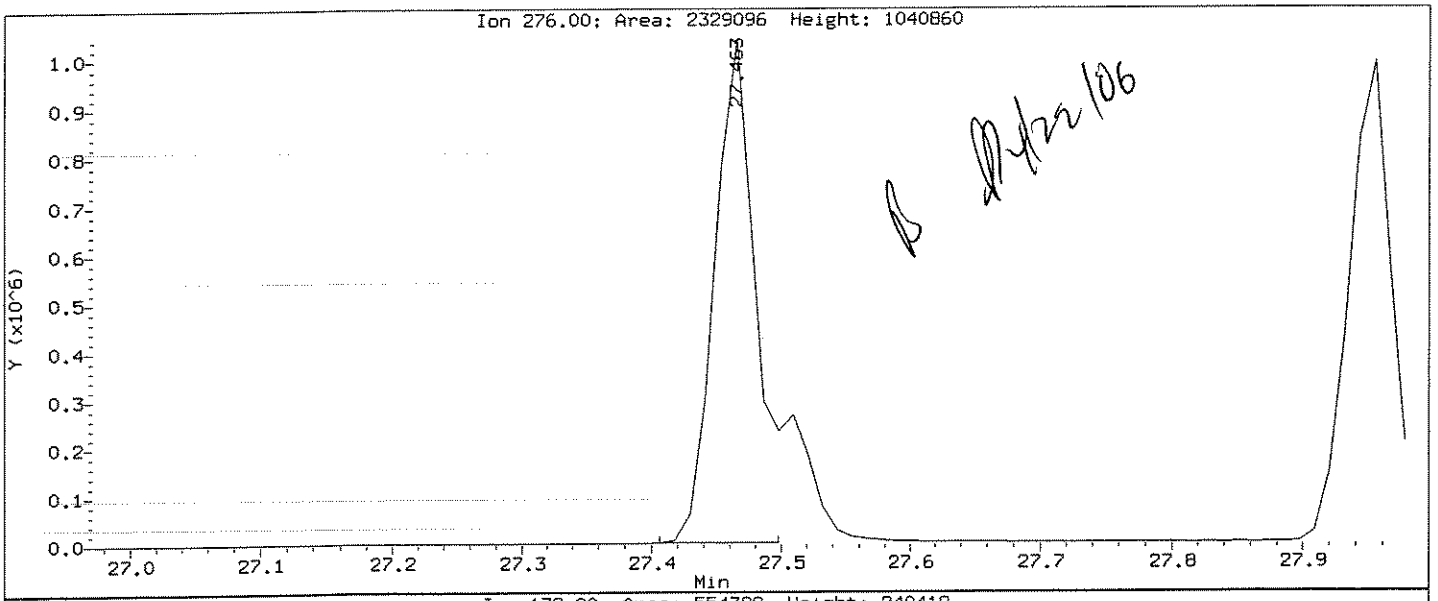
Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

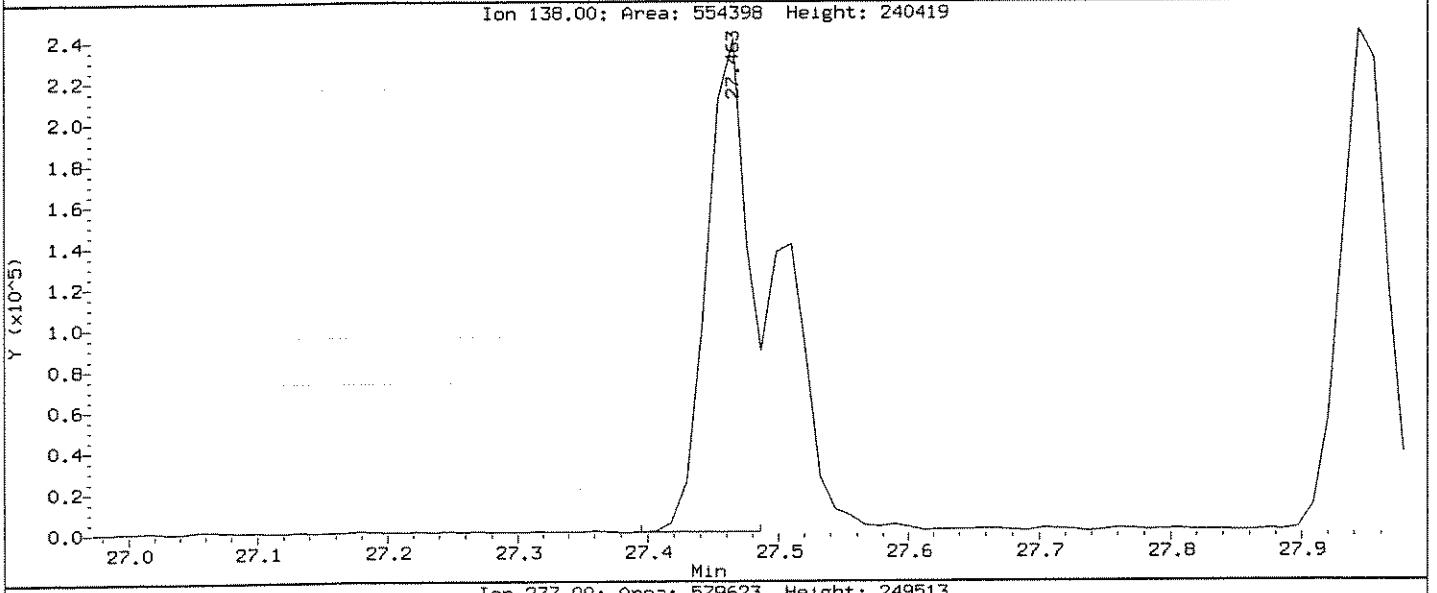


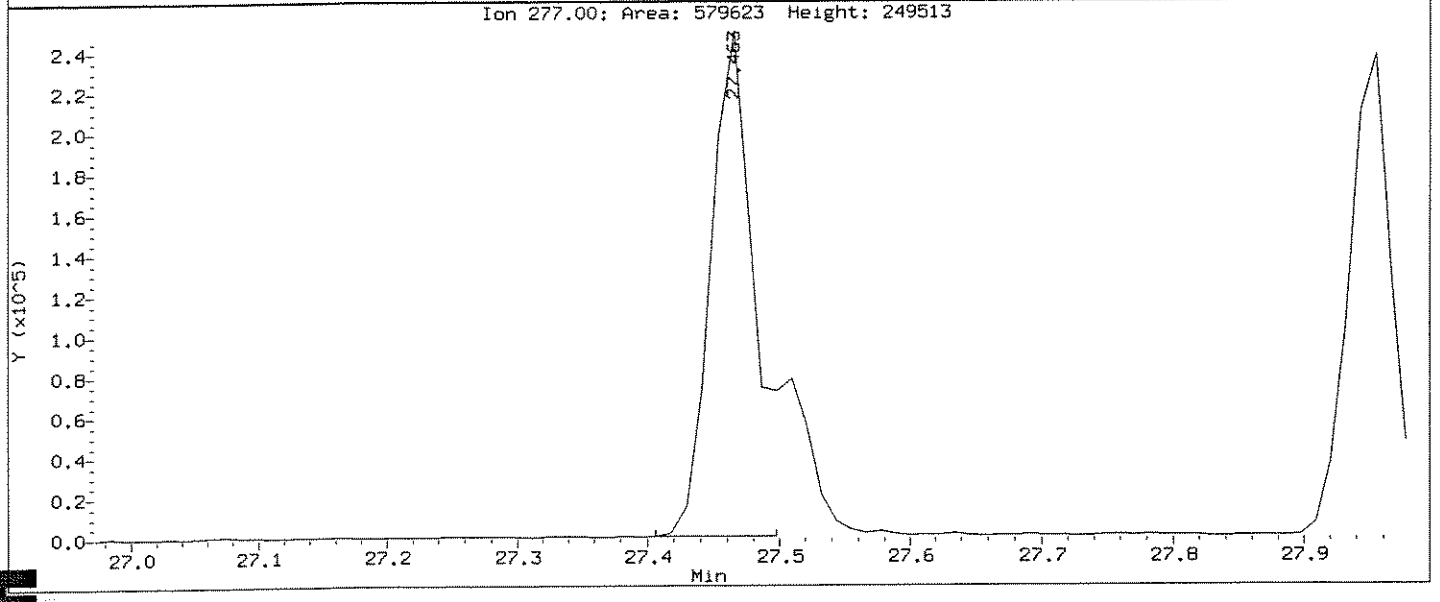
A 04/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.OPPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.048	50.00	45.40		AVRG	-9.2	20.0
Acenaphthylene	1.682	1.508	50.00	44.82		AVRG	-10.4	
Acetophenone	1.639	1.619	50.00	49.39		AVRG	-1.2	
Aniline	1.729	1.522	50.00	80.85		2ORDR	61.7	
Anthracene	1.126	1.031	50.00	45.78		AVRG	-8.4	
Atrazine	0.229	0.129	50.00	28.18		AVRG	-43.6	
Benzaldehyde	1.123	0.802	50.00	35.68		AVRG	-28.6	
Benzidine	0.802	0.092	50.00	5.730		AVRG	-88.5	
Benzoic acid	0.244	0.269	50.00	50.73		2ORDR	1.4	
Benzo(a)anthracene	1.289	1.277	50.00	49.54		AVRG	-0.9	
Benzo(b)fluoranthene	1.232	1.173	50.00	47.59		AVRG	-4.8	
Benzo(k)fluoranthene	1.278	1.215	50.00	47.52		AVRG	-5.0	
Benzo(g,h,i)perylene	0.941	0.942	50.00	50.06		AVRG	0.1	
Benzo(a)pyrene	1.062	1.051	50.00	49.46		AVRG	-1.1	20.0
Benzyl alcohol	0.901	0.661	50.00	36.70		AVRG	-26.6	
1,1'-Biphenyl	1.420	1.285	50.00	45.24		AVRG	-9.5	
bis(2-Chloroethoxy)methane	0.566	0.468	50.00	41.27		AVRG	-17.5	
bis(2-Chloroethyl)ether	1.659	1.437	50.00	43.30		AVRG	-13.4	
bis(2-Chloroisopropyl)ether	3.221	2.769	50.00	42.98		AVRG	-14.0	
Bis(2-ethylhexyl)phthalate	1.297	1.466	50.00	56.53		AVRG	13.1	
4-Bromophenyl-phenylether	0.272	0.250	50.00	45.87		AVRG	-8.3	
Butylbenzylphthalate	0.993	1.113	50.00	56.03		AVRG	12.1	
4-Chloroaniline	0.407	0.362	50.00	44.47		AVRG	-11.1	
Carbazole	1.099	0.917	50.00	41.71		AVRG	-16.6	
Caprolactam	0.114	0.114	50.00	49.81		AVRG	-0.4	
4-Chloro-3-methylphenol	0.313	0.324	50.00	51.74		AVRG	3.5	20.0
2-Chloronaphthalene	1.130	1.060	50.00	46.89		AVRG	-6.2	
2-Chlorophenol	1.316	1.294	50.00	49.18		AVRG	-1.6	
4-Chlorophenyl-phenylether	0.527	0.469	50.00	44.49		AVRG	-11.0	
Chrysene	1.177	1.139	50.00	48.39		AVRG	-3.2	
Dibenz(a,h)anthracene	0.812	0.857	50.00	46.95		LINR	-6.1	
Dibenzofuran	1.600	1.443	50.00	45.11		AVRG	-9.8	
1,2-Dichlorobenzene	1.323	1.171	50.00	44.28		AVRG	-11.4	
1,4-Dichlorobenzene	1.416	1.312	50.00	46.35		AVRG	-7.3	20.0
1,3-Dichlorobenzene	1.492	1.344	50.00	45.01		AVRG	-10.0	
3,3'-Dichlorobenzidine	0.353	0.363	50.00	51.39		AVRG	2.8	
2,4-Dichlorophenol	0.313	0.277	50.00	44.21		AVRG	-11.6	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.319	50.00	48.60		AVRG	-2.8	
2,4-Dimethylphenol	0.379	0.384	50.00	50.56		AVRG	1.1	
Dimethylphthalate	1.417	1.346	50.00	47.50		AVRG	-5.0	
Di-n-butylphthalate	1.857	1.879	50.00	50.59		AVRG	1.2	
4,6-Dinitro-2-methylphenol	0.149	0.161	50.00	50.19		2ORDR	0.4	
2,4-Dinitrophenol	0.144	0.165	50.00	52.39	0.050	2ORDR	4.8	
2,4-Dinitrotoluene	0.393	0.409	50.00	52.08		AVRG	4.2	
2,6-Dinitrotoluene	0.310	0.305	50.00	49.07		AVRG	-1.8	
1,2-Diphenylhydrazine	1.344	1.411	50.00	52.49		AVRG	5.0	
Di-n-octylphthalate	2.224	2.373	50.00	53.36		AVRG	6.7	20.0
Fluoranthene	1.129	1.049	50.00	46.47		AVRG	-7.1	20.0
Fluorene	1.234	1.101	50.00	44.59		AVRG	-10.8	
Hexachlorobenzene	0.300	0.291	50.00	48.56		AVRG	-2.9	
Hexachlorobutadiene	0.169	0.159	50.00	46.93		AVRG	-6.1	20.0
Hexachlorocyclopentadiene	0.206	0.189	50.00	39.58	0.050	LINR	-20.8	
Hexachloroethane	0.630	0.617	50.00	48.99		AVRG	-2.0	
Indeno(1,2,3-cd)pyrene	0.811	0.911	50.00	50.25		LINR	0.5	
Isophorone	0.942	0.808	50.00	42.91		AVRG	-14.2	
2-Methylnaphthalene	0.572	0.486	50.00	42.54		AVRG	-14.9	
2-Methylphenol	1.228	1.189	50.00	48.40		AVRG	-3.2	
3-Methylphenol	1.160	1.136	50.00	48.94		AVRG	-2.1	
Naphthalene	0.994	0.897	50.00	45.12		AVRG	-9.8	
4-Methylphenol	1.160	1.136	50.00	48.94		AVRG	-2.1	
2-Nitroaniline	0.440	0.491	50.00	55.74		AVRG	11.5	
3-Nitroaniline	0.345	0.308	50.00	44.68		AVRG	-10.6	
4-Nitroaniline	0.296	0.269	50.00	45.46		AVRG	-9.1	
Nitrobenzene	0.442	0.424	50.00	47.98		AVRG	-4.0	
2-Nitrophenol	0.235	0.231	50.00	49.34		AVRG	-1.3	20.0
4-Nitrophenol	0.238	0.312	50.00	65.64	0.050	AVRG	31.3	
N-Nitroso-di-methylamine	0.925	1.015	50.00	54.84		AVRG	9.7	
N-Nitrosodiphenylamine(1)	0.627	0.542	50.00	43.20		AVRG	-13.6	20.0
N-Nitroso-di-n-propylamine	1.147	1.109	50.00	48.34	0.050	AVRG	-3.3	
Pentachlorophenol	0.190	0.164	50.00	43.12		AVRG	-13.8	20.0
Phenanthrene	1.140	1.048	50.00	45.93		AVRG	-8.1	
Phenol	1.894	1.690	50.00	44.61		AVRG	-10.8	20.0
Pyrene	1.597	1.535	50.00	48.04		AVRG	-3.9	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	1.492	50.00	41.80		AVRG	-16.4	
1,2,4-Trichlorobenzene	0.334	0.285	50.00	42.60		AVRG	-14.8	
2,4,5-Trichlorophenol	0.388	0.364	50.00	46.81		AVRG	-6.4	
2,4,6-Trichlorophenol	0.375	0.349	50.00	46.47		AVRG	-7.1	20.0
2-Fluorophenol	1.386	1.375	100.0	99.28		AVRG	-0.7	
Phenol-d6	1.656	1.470	100.0	88.75		AVRG	-11.2	
Nitrobenzene-d5	0.437	0.478	50.00	54.73		AVRG	9.5	
2-Fluorobiphenyl	1.273	1.151	50.00	45.20		AVRG	-9.6	
2,4,6-Tribromophenol	0.147	0.155	100.0	105.2		AVRG	5.2	
Terphenyl-d14	1.010	1.018	50.00	50.39		AVRG	0.8	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Lab Smp Id: CCV050PPM Client Smp ID: CCV050PPM
Inj Date : 10-JUL-2006 08:35
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3607
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXBN1.m
Meth Date : 11-Jul-2006 10:59 sburchfiel Quant Type: ISTD
Cal Date : 14-JUN-2006 00:32 Cal File: OPHOS100.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

7/11/06

7/11/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.276	4.276	(1.000)	490511	40.0000	
$	2 2-Fluorophenol	112	3.368	3.368	(0.788)	1686725	100.000	99.28
$	3 Phenol-d6	99	4.106	4.106	(0.960)	1802488	100.000	88.75
	4 Pyridine	79	1.992	1.992	(0.466)	914629	50.0000	41.80(M)
	5 N-Nitroso-di-methylamine	42	2.033	2.033	(0.475)	622249	50.0000	54.84
	6 Aniline	93	4.079	4.079	(0.954)	932954	50.0000	80.85(Q)
	8 Phenol	94	4.113	4.113	(0.962)	1036154	50.0000	44.61
	9 bis(2-Chloroethyl)ether	93	4.127	4.127	(0.965)	881031	50.0000	43.30
	10 2-Chlorophenol	128	4.161	4.161	(0.973)	793624	50.0000	49.18
	11 1,3-Dichlorobenzene	146	4.249	4.249	(0.994)	823942	50.0000	45.01
	12 1,4-Dichlorobenzene	146	4.290	4.290	(1.003)	804613	50.0000	46.35
	13 Benzyl alcohol	108	4.421	4.421	(1.034)	405342	50.0000	36.70
	14 1,2-Dichlorobenzene	146	4.427	4.427	(1.035)	718265	50.0000	44.28
	15 2-Methylphenol	108	4.538	4.538	(1.061)	728830	50.0000	48.40

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	4.524	4.524	(1.058)	1697884	50.0000	42.98
	17 3-Methylphenol	108	4.641	4.641	(1.085)	696299	50.0000	48.94
	18 4-Methylphenol	108	4.641	4.641	(1.085)	696299	50.0000	48.94
	19 N-Nitroso-di-n-propylamine	70	4.634	4.634	(1.084)	680151	50.0000	48.34
	20 Hexachloroethane	117	4.648	4.648	(1.087)	378606	50.0000	48.99
	30 Benzaldehyde	106	3.963	3.963	(0.927)	491469	50.0000	35.68
*	31 Naphthalene-d8	136	5.287	5.287	(1.000)	1549037	40.0000	
$	32 Nitrobenzene-d5	82	4.709	4.709	(0.891)	925552	50.0000	54.73
	33 Nitrobenzene	77	4.723	4.723	(0.893)	821490	50.0000	47.98
	35 Isophorone	82	4.908	4.908	(0.928)	1564876	50.0000	42.91
	36 2-Nitrophenol	139	4.977	4.977	(0.941)	448204	50.0000	49.34
	38 2,4-Dimethylphenol	107	5.039	5.039	(0.953)	742723	50.0000	50.56(M)
	39 Benzoic acid	105	5.191	5.191	(0.982)	520434	50.0000	50.73(M)
	40 bis(2-Chloroethoxy)methane	93	5.108	5.108	(0.966)	905437	50.0000	41.27
	43 2,4-Dichlorophenol	162	5.197	5.197	(0.983)	536551	50.0000	44.21
	46 1,2,4-Trichlorobenzene	180	5.252	5.252	(0.993)	551567	50.0000	42.60
	47 Naphthalene	128	5.307	5.307	(1.004)	1737646	50.0000	45.12
	48 4-Chloroaniline	127	5.397	5.397	(1.021)	700553	50.0000	44.47
	49 Hexachlorobutadiene	225	5.493	5.493	(1.039)	307389	50.0000	46.93
	50 4-Chloro-3-methylphenol	107	5.973	5.973	(1.130)	626835	50.0000	51.74
	51 2-Methylnaphthalene	141	6.062	6.062	(1.147)	941518	50.0000	42.54
	53 Acetophenone	105	4.600	4.600	(1.076)	992861	50.0000	49.39
	64 Caprolactam	113	5.769	5.769	(1.091)	219903	50.0000	49.81
*	65 Acenaphthene-d10	164	7.719	7.719	(1.000)	762535	40.0000	
	66 Hexachlorocyclopentadiene	237	6.371	6.371	(0.825)	180334	50.0000	39.58
	67 2,4,6-Trichlorophenol	196	6.515	6.515	(0.844)	332372	50.0000	46.47
	68 2,4,5-Trichlorophenol	196	6.583	6.583	(0.853)	346865	50.0000	46.81
	69 2-Chloronaphthalene	162	6.734	6.734	(0.872)	1010259	50.0000	46.89
$	70 2-Fluorobiphenyl	172	6.617	6.617	(0.857)	1096916	50.0000	45.20
	71 2-Nitroaniline	65	6.988	6.988	(0.905)	467687	50.0000	55.74
	72 Dimethylphthalate	163	7.405	7.405	(0.959)	1282705	50.0000	47.50
	73 Acenaphthylene	152	7.426	7.426	(0.962)	1436979	50.0000	44.82
	74 2,6-Dinitrotoluene	165	7.501	7.501	(0.972)	290454	50.0000	49.07
	75 3-Nitroaniline	138	7.746	7.746	(1.004)	293709	50.0000	44.68
	76 Acenaphthene	153	7.781	7.781	(1.008)	999067	50.0000	45.40
	77 2,4-Dinitrophenol	184	7.945	7.945	(1.029)	156907	50.0000	52.39
	79 4-Nitrophenol	65	8.253	8.253	(1.069)	297696	50.0000	65.64
	80 Dibenzofuran	168	8.096	8.096	(1.049)	1375789	50.0000	45.11
	81 2,4-Dinitrotoluene	165	8.260	8.260	(1.070)	390275	50.0000	52.08
	82 Diethylphthalate	149	8.889	8.889	(1.152)	1257454	50.0000	48.60
	83 4-Chlorophenyl-phenylether	204	8.903	8.903	(1.153)	447277	50.0000	44.49
	84 Fluorene	166	8.814	8.814	(1.142)	1049504	50.0000	44.59
	85 4-Nitroaniline	138	9.053	9.053	(1.173)	256381	50.0000	45.46
	96 1,1'-Biphenyl	154	6.748	6.748	(0.874)	1224441	50.0000	45.24
*	98 Phenanthrene-d10	188	11.020	11.020	(1.000)	979351	40.0000	
	99 1,2-Diphenylhydrazine	77	9.252	9.252	(0.840)	1727818	50.0000	52.49
	100 Carbazole	167	11.738	11.738	(1.065)	1122635	50.0000	41.71

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
101	4,6-Dinitro-2-methylphenol	198	9.142	9.142	(0.830)	197575	50.0000	50.19
102	N-Nitrosodiphenylamine	169	9.218	9.218	(0.836)	663662	50.0000	43.20
$ 103	2,4,6-Tribromophenol	330	9.423	9.423	(0.855)	380262	100.000	105.2(A)
104	4-Bromophenyl-phenylether	248	10.024	10.024	(0.910)	305675	50.0000	45.87
105	Hexachlorobenzene	284	10.292	10.292	(0.934)	356268	50.0000	48.56
106	Pentachlorophenol	266	10.820	10.820	(0.982)	200611	50.0000	43.12
107	Phenanthrene	178	11.082	11.082	(1.006)	1282605	50.0000	45.93
108	Anthracene	178	11.192	11.192	(1.016)	1262149	50.0000	45.78
110	Di-n-butylphthalate	149	13.175	13.175	(1.196)	2300320	50.0000	50.59
111	Fluoranthene	202	14.296	14.296	(1.297)	1284635	50.0000	46.47
124	Atrazine	200	10.737	10.737	(0.974)	158307	50.0000	28.18
* 127	Chrysene-d12	240	18.441	18.441	(1.000)	678371	40.0000	
128	Benzidine	184	14.912	14.912	(0.809)	77968	50.0000	5.730(a)
129	Pyrene	202	14.878	14.878	(0.807)	1301577	50.0000	48.04
$ 130	Terphenyl-d14	244	15.647	15.647	(0.848)	863148	50.0000	50.39
131	Butylbenzylphthalate	149	17.399	17.399	(0.943)	944034	50.0000	56.03
132	3,3'-Dichlorobenzidine	252	18.592	18.592	(1.008)	307563	50.0000	51.39
133	Benzo(a)anthracene	228	18.400	18.400	(0.998)	1082895	50.0000	49.54
134	Chrysene	228	18.510	18.510	(1.004)	966001	50.0000	48.39
135	Bis(2-ethylhexyl)phthalate	149	19.341	19.341	(1.049)	1243202	50.0000	56.53
* 149	Perylene-d12	264	22.273	22.273	(1.000)	671653	40.0000	
150	Di-n-octylphthalate	149	21.065	21.065	(0.946)	1992449	50.0000	53.36
151	Benzo(b)fluoranthene	252	21.352	21.352	(0.959)	984717	50.0000	47.59
152	Benzo(k)fluoranthene	252	21.421	21.421	(0.962)	1019973	50.0000	47.52
153	Benzo(a)pyrene	252	22.121	22.121	(0.993)	882471	50.0000	49.46
154	Indeno(1,2,3-cd)pyrene	276	24.990	24.990	(1.122)	764826	50.0000	50.25
155	Dibenz(a,h)anthracene	278	25.065	25.065	(1.125)	719463	50.0000	46.95
156	Benzo(g,h,i)perylene	276	25.361	25.361	(1.139)	790681	50.0000	50.06

QC Flag Legend

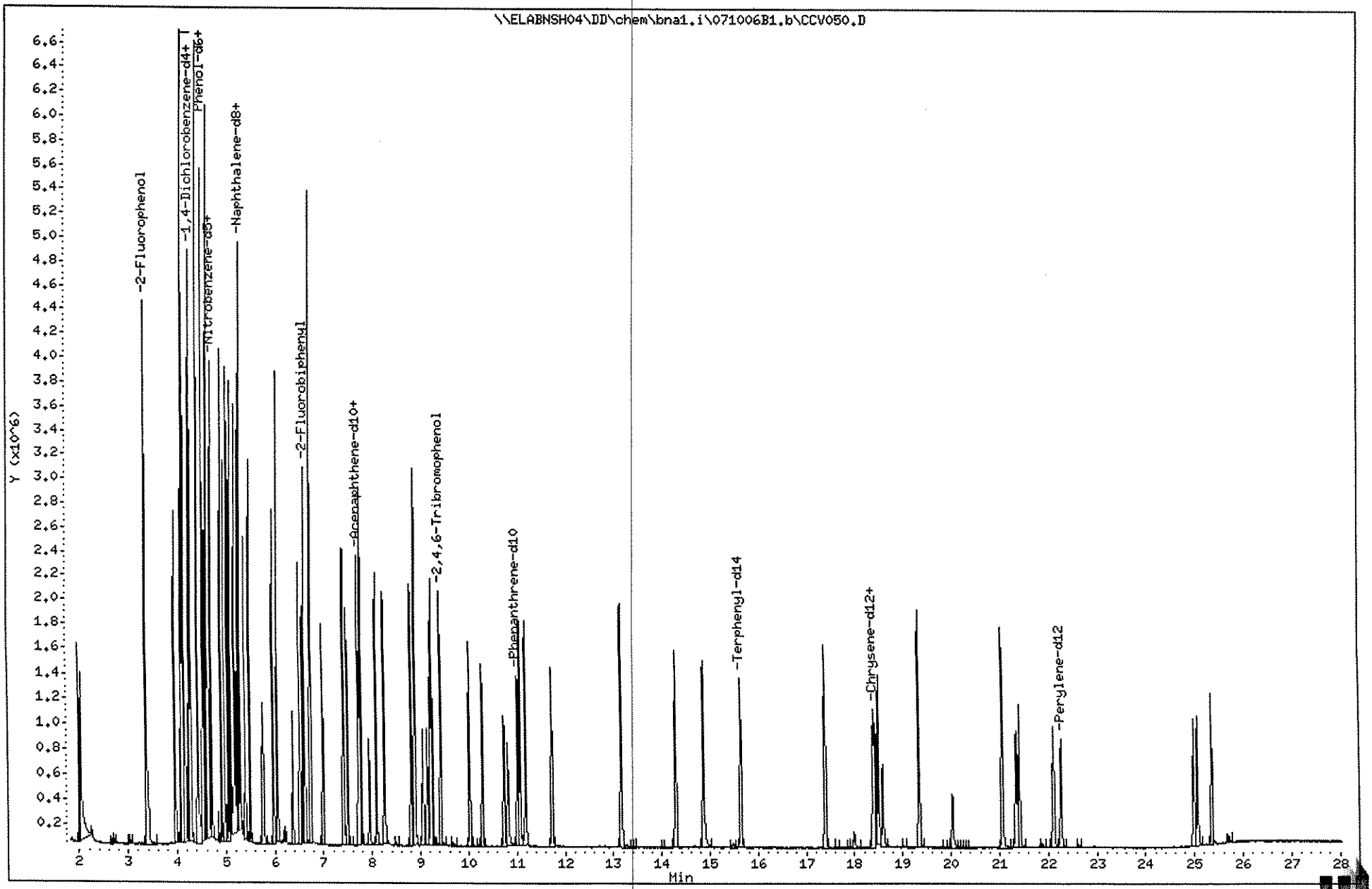
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Date : 10-JUL-2006 08:35
Client ID: CCV050PPM
Sample Info: CCV050PPM;;;;;SV3607
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: SDB
Column diameter: 0.25

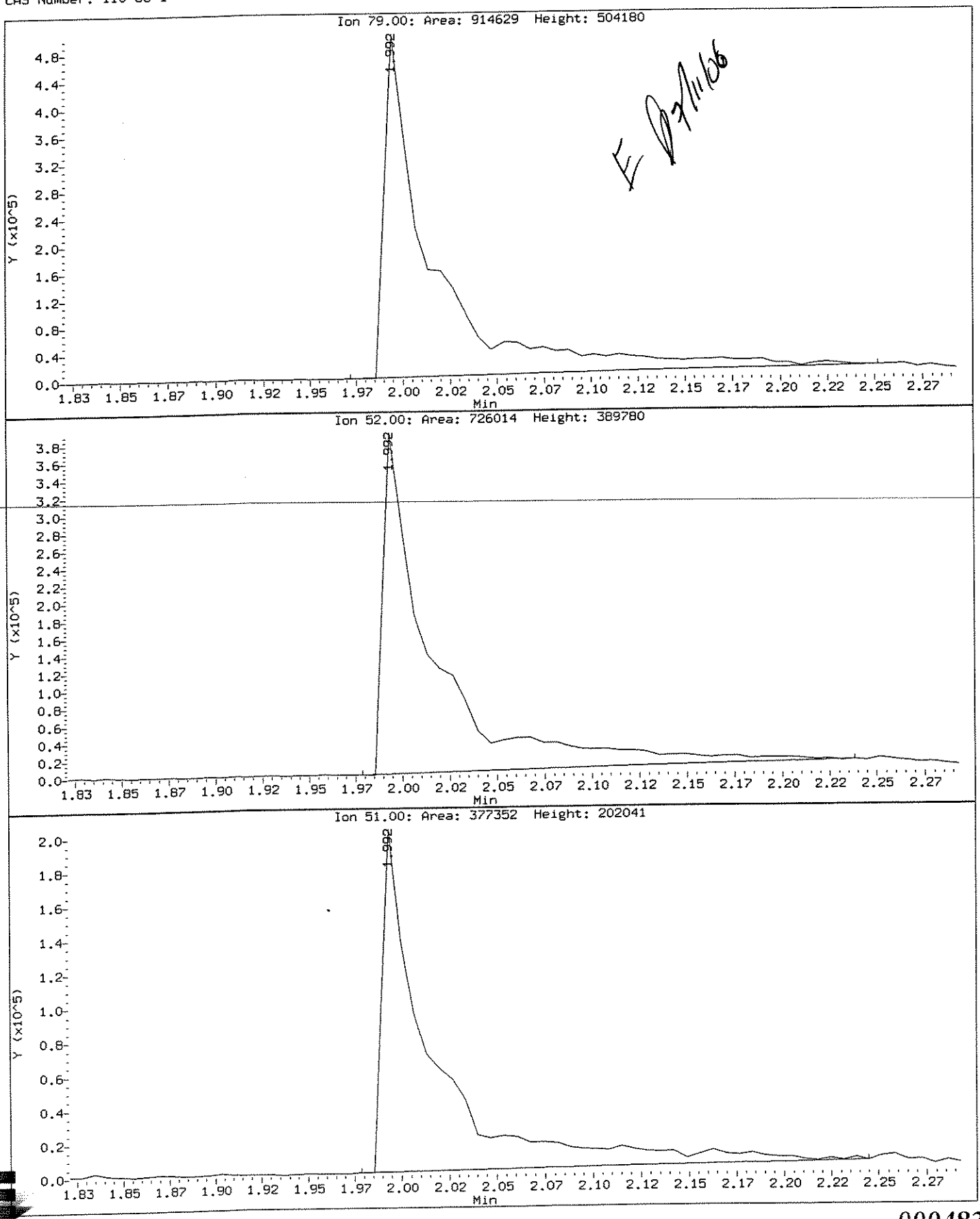
000482



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Pyridine
CAS Number: 110-86-1



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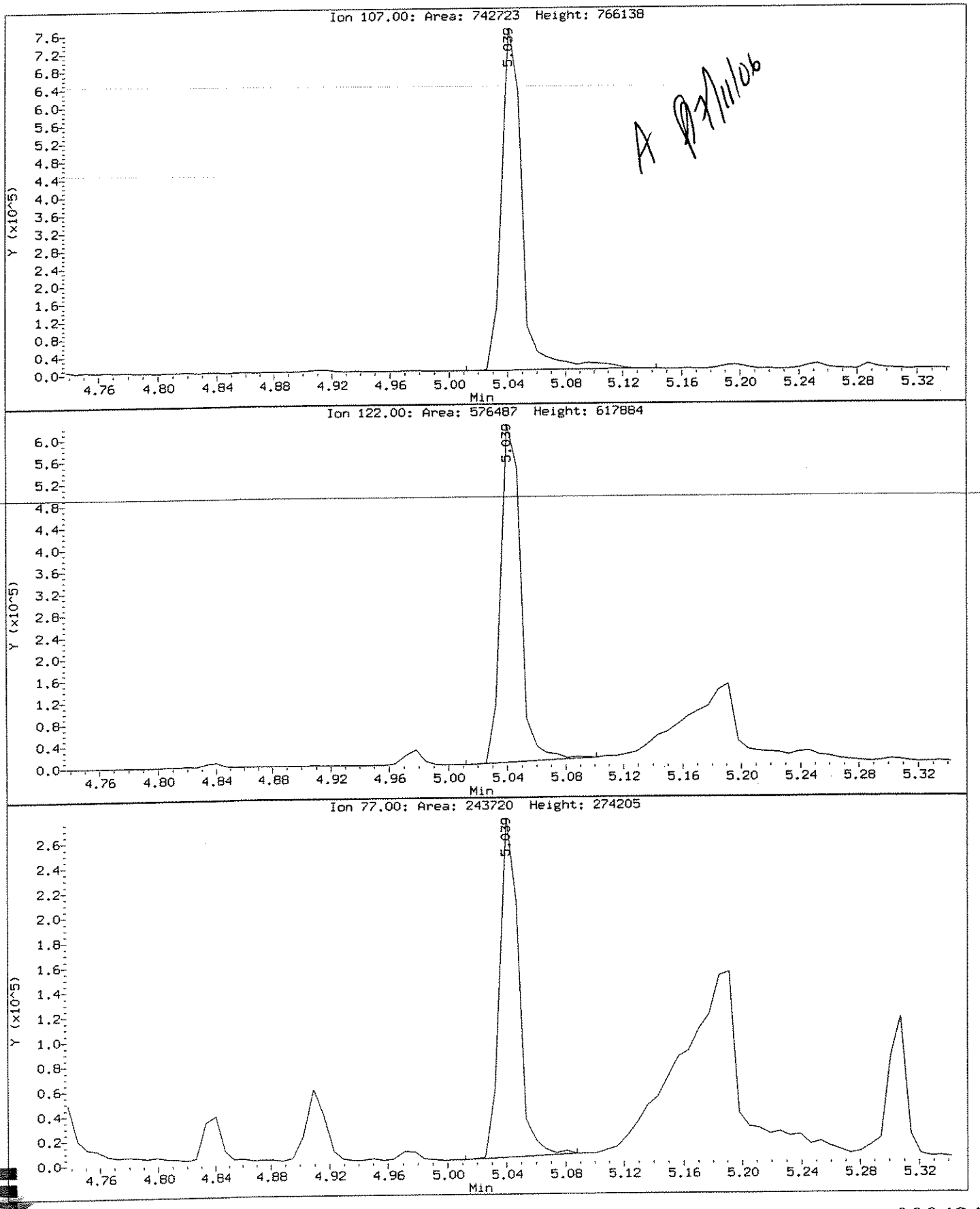
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9

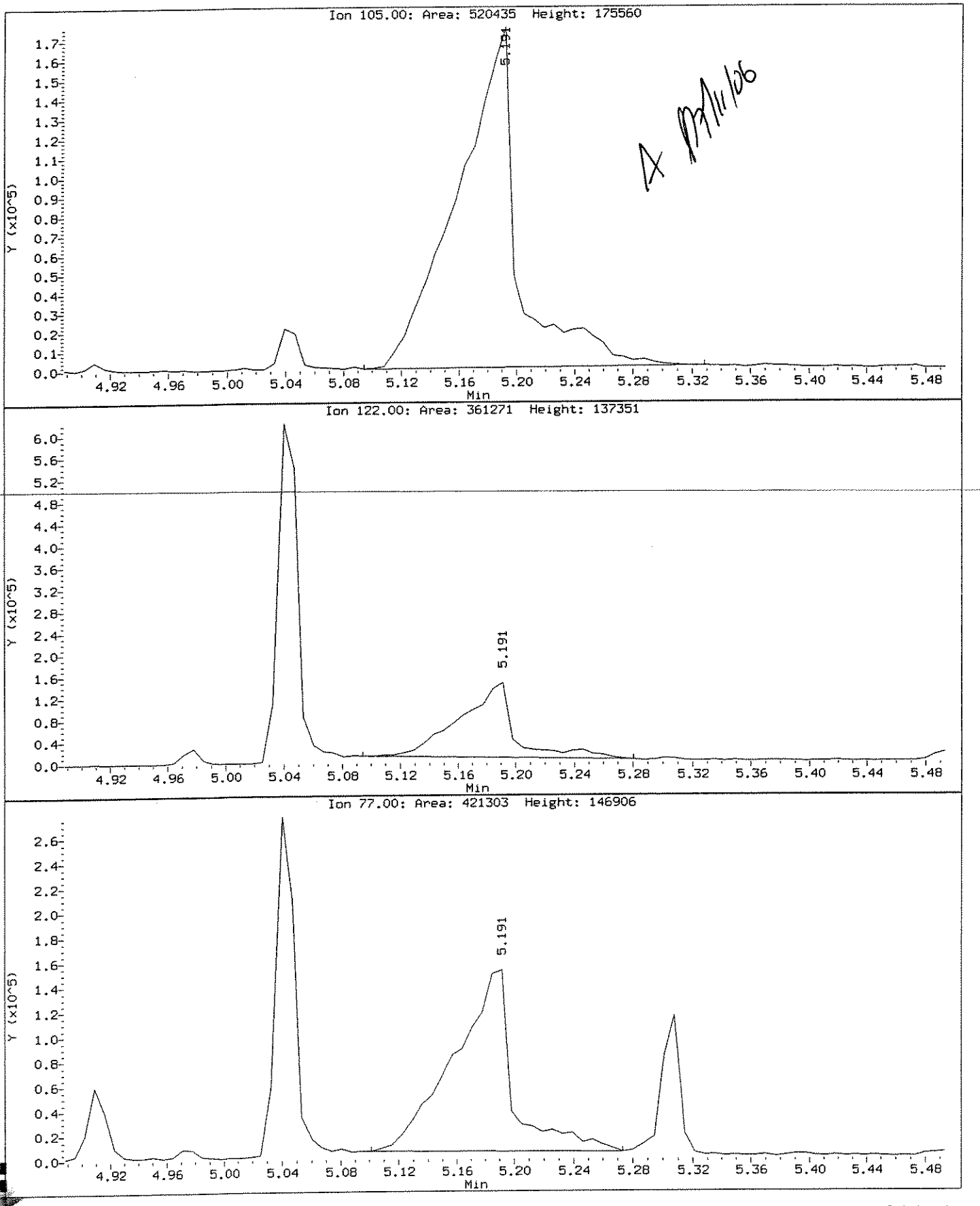


A 9/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0



A 7/11/06

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.041	50.00	45.10		AVRG	-9.8	20.0
Acenaphthylene	1.682	1.513	50.00	44.99		AVRG	-10.0	
Acetophenone	1.639	1.741	50.00	53.10		AVRG	6.2	
Aniline	1.729	1.417	50.00	72.49		2ORDR	45.0	
Anthracene	1.126	0.995	50.00	44.18		AVRG	-11.6	
Atrazine	0.229	0.093	50.00	20.18		AVRG	-59.6	
Benzaldehyde	1.123	0.821	50.00	36.56		AVRG	-26.9	
Benzidine	0.802	0.114	50.00	7.104		AVRG	-85.8	
Benzoic acid	0.244	0.311	50.00	57.42		2ORDR	14.8	
Benzo(a)anthracene	1.289	1.213	50.00	47.06		AVRG	-5.9	
Benzo(b)fluoranthene	1.232	1.162	50.00	47.16		AVRG	-5.7	
Benzo(k)fluoranthene	1.278	1.184	50.00	46.29		AVRG	-7.4	
Benzo(g,h,i)perylene	0.941	1.069	50.00	56.80		AVRG	13.6	
Benzo(a)pyrene	1.062	1.070	50.00	50.35		AVRG	0.7	20.0
Benzyl alcohol	0.901	0.790	50.00	43.84		AVRG	-12.3	
1,1'-Biphenyl	1.420	1.263	50.00	44.46		AVRG	-11.1	
bis(2-Chloroethoxy)methane	0.566	0.480	50.00	42.35		AVRG	-15.3	
bis(2-Chloroethyl)ether	1.659	1.548	50.00	46.66		AVRG	-6.7	
bis(2-Chloroisopropyl)ether	3.221	2.680	50.00	41.59		AVRG	-16.8	
Bis(2-ethylhexyl)phthalate	1.297	1.305	50.00	50.34		AVRG	0.7	
4-Bromophenyl-phenylether	0.272	0.242	50.00	44.40		AVRG	-11.2	
Butylbenzylphthalate	0.993	1.022	50.00	51.41		AVRG	2.8	
4-Chloroaniline	0.407	0.388	50.00	47.73		AVRG	-4.5	
Carbazole	1.099	1.013	50.00	46.08		AVRG	-7.8	
Caprolactam	0.114	0.118	50.00	51.94		AVRG	3.9	
4-Chloro-3-methylphenol	0.313	0.324	50.00	51.77		AVRG	3.5	20.0
2-Chloronaphthalene	1.130	1.042	50.00	46.08		AVRG	-7.8	
2-Chlorophenol	1.316	1.295	50.00	49.21		AVRG	-1.6	
4-Chlorophenyl-phenylether	0.527	0.461	50.00	43.74		AVRG	-12.5	
Chrysene	1.177	1.084	50.00	46.04		AVRG	-7.9	
Dibenz(a,h)anthracene	0.812	0.957	50.00	52.44		LINR	4.9	
Dibenzofuran	1.600	1.520	50.00	47.52		AVRG	-5.0	
1,2-Dichlorobenzene	1.323	1.194	50.00	45.15		AVRG	-9.7	
1,4-Dichlorobenzene	1.416	1.319	50.00	46.58		AVRG	-6.8	20.0
1,3-Dichlorobenzene	1.492	1.365	50.00	45.71		AVRG	-8.6	
3,3'-Dichlorobenzidine	0.353	0.404	50.00	57.31		AVRG	14.6	
2,4-Dichlorophenol	0.313	0.289	50.00	46.16		AVRG	-7.7	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.373	50.00	50.58		AVRG	1.2	
2,4-Dimethylphenol	0.379	0.387	50.00	51.04		AVRG	2.1	
Dimethylphthalate	1.417	1.322	50.00	46.65		AVRG	-6.7	
Di-n-butylphthalate	1.857	1.782	50.00	47.98		AVRG	-4.0	
4,6-Dinitro-2-methylphenol	0.149	0.173	50.00	53.20		2ORDR	6.4	
2,4-Dinitrophenol	0.144	0.203	50.00	62.05	0.050	2ORDR	24.1	
2,4-Dinitrotoluene	0.393	0.422	50.00	53.73		AVRG	7.5	
2,6-Dinitrotoluene	0.310	0.310	50.00	49.99		AVRG	-0.0	
1,2-Diphenylhydrazine	1.344	1.355	50.00	50.39		AVRG	0.8	
Di-n-octylphthalate	2.224	2.180	50.00	49.01		AVRG	-2.0	20.0
Fluoranthene	1.129	1.044	50.00	46.21		AVRG	-7.6	20.0
Fluorene	1.234	1.178	50.00	47.72		AVRG	-4.6	
Hexachlorobenzene	0.300	0.283	50.00	47.18		AVRG	-5.6	
Hexachlorobutadiene	0.169	0.159	50.00	47.08		AVRG	-5.8	20.0
Hexachlorocyclopentadiene	0.206	0.222	50.00	46.54	0.050	LINR	-6.9	
Hexachloroethane	0.630	0.614	50.00	48.72		AVRG	-2.6	
Indeno(1,2,3-cd)pyrene	0.811	1.014	50.00	55.96		LINR	11.9	
Isophorone	0.942	0.804	50.00	42.67		AVRG	-14.7	
2-Methylnaphthalene	0.572	0.502	50.00	43.97		AVRG	-12.0	
2-Methylphenol	1.228	1.141	50.00	46.46		AVRG	-7.1	
3-Methylphenol	1.160	1.157	50.00	49.86		AVRG	-0.3	
Naphthalene	0.994	0.886	50.00	44.52		AVRG	-10.9	
4-Methylphenol	1.160	1.157	50.00	49.86		AVRG	-0.3	
2-Nitroaniline	0.440	0.539	50.00	61.19		AVRG	22.4	
3-Nitroaniline	0.345	0.352	50.00	51.01		AVRG	2.0	
4-Nitroaniline	0.296	0.345	50.00	58.35		AVRG	16.7	
Nitrobenzene	0.442	0.429	50.00	48.49		AVRG	-3.0	
2-Nitrophenol	0.235	0.229	50.00	48.84		AVRG	-2.3	20.0
4-Nitrophenol	0.238	0.370	50.00	77.83	0.050	AVRG	55.6	
N-Nitroso-di-methylamine	0.925	0.961	50.00	51.92		AVRG	3.8	
N-Nitrosodiphenylamine(1)	0.627	0.512	50.00	40.82		AVRG	-18.4	20.0
N-Nitroso-di-n-propylamine	1.147	1.092	50.00	47.58	0.050	AVRG	-4.8	
Pentachlorophenol	0.190	0.175	50.00	46.00		AVRG	-8.0	20.0
Phenanthrene	1.140	1.061	50.00	46.53		AVRG	-6.9	
Phenol	1.894	1.842	50.00	48.64		AVRG	-2.7	20.0
Pyrene	1.597	1.410	50.00	44.14		AVRG	-11.7	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	1.456	50.00	40.81		AVRG	-18.4	
1,2,4-Trichlorobenzene	0.334	0.285	50.00	42.66		AVRG	-14.7	
2,4,5-Trichlorophenol	0.388	0.374	50.00	48.14		AVRG	-3.7	
2,4,6-Trichlorophenol	0.375	0.356	50.00	47.43		AVRG	-5.1	20.0
2-Fluorophenol	1.386	1.328	100.0	95.85		AVRG	-4.1	
Phenol-d6	1.656	1.531	100.0	92.46		AVRG	-7.5	
Nitrobenzene-d5	0.437	0.485	50.00	55.53		AVRG	11.1	
2-Fluorobiphenyl	1.273	1.145	50.00	44.99		AVRG	-10.0	
2,4,6-Tribromophenol	0.147	0.152	100.0	102.8		AVRG	2.8	
Terphenyl-d14	1.010	0.960	50.00	47.55		AVRG	-4.9	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Lab Smp Id: CCV050PPM Client Smp ID: CCV050PPM
Inj Date : 11-JUL-2006 09:43
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3607
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.235	4.235	(1.000)	470349	40.0000	
$	2 2-Fluorophenol	112	3.316	3.316	(0.783)	1561636	100.000	95.85
$	3 Phenol-d6	99	4.071	4.071	(0.961)	1800685	100.000	92.46
	4 Pyridine	79	1.924	1.924	(0.454)	856205	50.0000	40.81
	5 N-Nitroso-di-methylamine	42	1.965	1.965	(0.464)	564954	50.0000	51.92
	6 Aniline	93	4.036	4.036	(0.953)	832905	50.0000	72.49(Q)
	8 Phenol	94	4.077	4.077	(0.963)	1083320	50.0000	48.64
	9 bis(2-Chloroethyl)ether	93	4.091	4.091	(0.966)	910454	50.0000	46.66
	10 2-Chlorophenol	128	4.118	4.118	(0.972)	761432	50.0000	49.21
	11 1,3-Dichlorobenzene	146	4.208	4.208	(0.993)	802318	50.0000	45.71
	12 1,4-Dichlorobenzene	146	4.249	4.249	(1.003)	775319	50.0000	46.58
	13 Benzyl alcohol	108	4.380	4.380	(1.034)	464256	50.0000	43.84
	14 1,2-Dichlorobenzene	146	4.387	4.387	(1.036)	702291	50.0000	45.15
	15 2-Methylphenol	108	4.497	4.497	(1.062)	670855	50.0000	46.46

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	4.483	4.483	(1.058)	1575430	50.0000	41.59
	17 3-Methylphenol	108	4.599	4.599	(1.086)	680217	50.0000	49.86
	18 4-Methylphenol	108	4.599	4.599	(1.086)	680217	50.0000	49.86
	19 N-Nitroso-di-n-propylamine	70	4.593	4.593	(1.084)	641892	50.0000	47.58
	20 Hexachloroethane	117	4.606	4.606	(1.088)	361059	50.0000	48.72
	30 Benzaldehyde	106	3.919	3.919	(0.925)	482874	50.0000	36.56
*	31 Naphthalene-d8	136	5.240	5.240	(1.000)	1533236	40.0000	
$	32 Nitrobenzene-d5	82	4.668	4.668	(0.891)	929480	50.0000	55.53
	33 Nitrobenzene	77	4.682	4.682	(0.894)	821737	50.0000	48.49
	35 Isophorone	82	4.868	4.868	(0.929)	1540253	50.0000	42.67
	36 2-Nitrophenol	139	4.930	4.930	(0.941)	439073	50.0000	48.84
	38 2,4-Dimethylphenol	107	4.999	4.999	(0.954)	742139	50.0000	51.04(M)
	39 Benzoic acid	105	5.143	5.143	(0.982)	595282	50.0000	57.42(M)
	40 bis(2-Chloroethoxy)methane	93	5.061	5.061	(0.966)	919610	50.0000	42.35
	43 2,4-Dichlorophenol	162	5.143	5.143	(0.982)	554504	50.0000	46.16
	46 1,2,4-Trichlorobenzene	180	5.205	5.205	(0.993)	546690	50.0000	42.66
	47 Naphthalene	128	5.254	5.254	(1.003)	1697341	50.0000	44.52
	48 4-Chloroaniline	127	5.350	5.350	(1.021)	744310	50.0000	47.73
	49 Hexachlorobutadiene	225	5.439	5.439	(1.038)	305212	50.0000	47.08
	50 4-Chloro-3-methylphenol	107	5.914	5.914	(1.129)	620865	50.0000	51.77
	51 2-Methylnaphthalene	141	6.004	6.004	(1.146)	963243	50.0000	43.97
	53 Acetophenone	105	4.565	4.565	(1.078)	1023556	50.0000	53.10
	64 Caprolactam	113	5.722	5.722	(1.092)	226956	50.0000	51.94
*	65 Acenaphthene-d10	164	7.641	7.641	(1.000)	784651	40.0000	
	66 Hexachlorocyclopentadiene	237	6.307	6.307	(0.825)	218191	50.0000	46.54
	67 2,4,6-Trichlorophenol	196	6.444	6.444	(0.843)	349101	50.0000	47.43
	68 2,4,5-Trichlorophenol	196	6.513	6.513	(0.852)	367068	50.0000	48.14
	69 2-Chloronaphthalene	162	6.665	6.665	(0.872)	1021568	50.0000	46.08
$	70 2-Fluorobiphenyl	172	6.555	6.555	(0.858)	1123438	50.0000	44.99
	71 2-Nitroaniline	65	6.920	6.920	(0.906)	528290	50.0000	61.19
	72 Dimethylphthalate	163	7.332	7.332	(0.960)	1296334	50.0000	46.65
	73 Acenaphthylene	152	7.352	7.352	(0.962)	1484350	50.0000	44.99
	74 2,6-Dinitrotoluene	165	7.428	7.428	(0.972)	304466	50.0000	49.99
	75 3-Nitroaniline	138	7.676	7.676	(1.005)	345063	50.0000	51.01
	76 Acenaphthene	153	7.703	7.703	(1.008)	1021410	50.0000	45.10
	77 2,4-Dinitrophenol	184	7.875	7.875	(1.031)	198793	50.0000	62.05
	79 4-Nitrophenol	65	8.164	8.164	(1.068)	363202	50.0000	77.83
	80 Dibenzofuran	168	8.013	8.013	(1.049)	1491057	50.0000	47.52
	81 2,4-Dinitrotoluene	165	8.185	8.185	(1.071)	414309	50.0000	53.73
	82 Diethylphthalate	149	8.810	8.810	(1.153)	1346637	50.0000	50.58
	83 4-Chlorophenyl-phenylether	204	8.817	8.817	(1.154)	452488	50.0000	43.74
	84 Fluorene	166	8.727	8.727	(1.142)	1155816	50.0000	47.72
	85 4-Nitroaniline	138	8.975	8.975	(1.175)	338651	50.0000	58.35
	96 1,1'-Biphenyl	154	6.679	6.679	(0.874)	1238452	50.0000	44.46
*	97 Phenanthrene-d10	188	10.923	10.923	(1.000)	1083046	40.0000	
	98 1,2-Diphenylhydrazine	77	9.168	9.168	(0.839)	1834252	50.0000	50.39
	99 Carbazole	167	11.645	11.645	(1.066)	1371385	50.0000	46.08

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

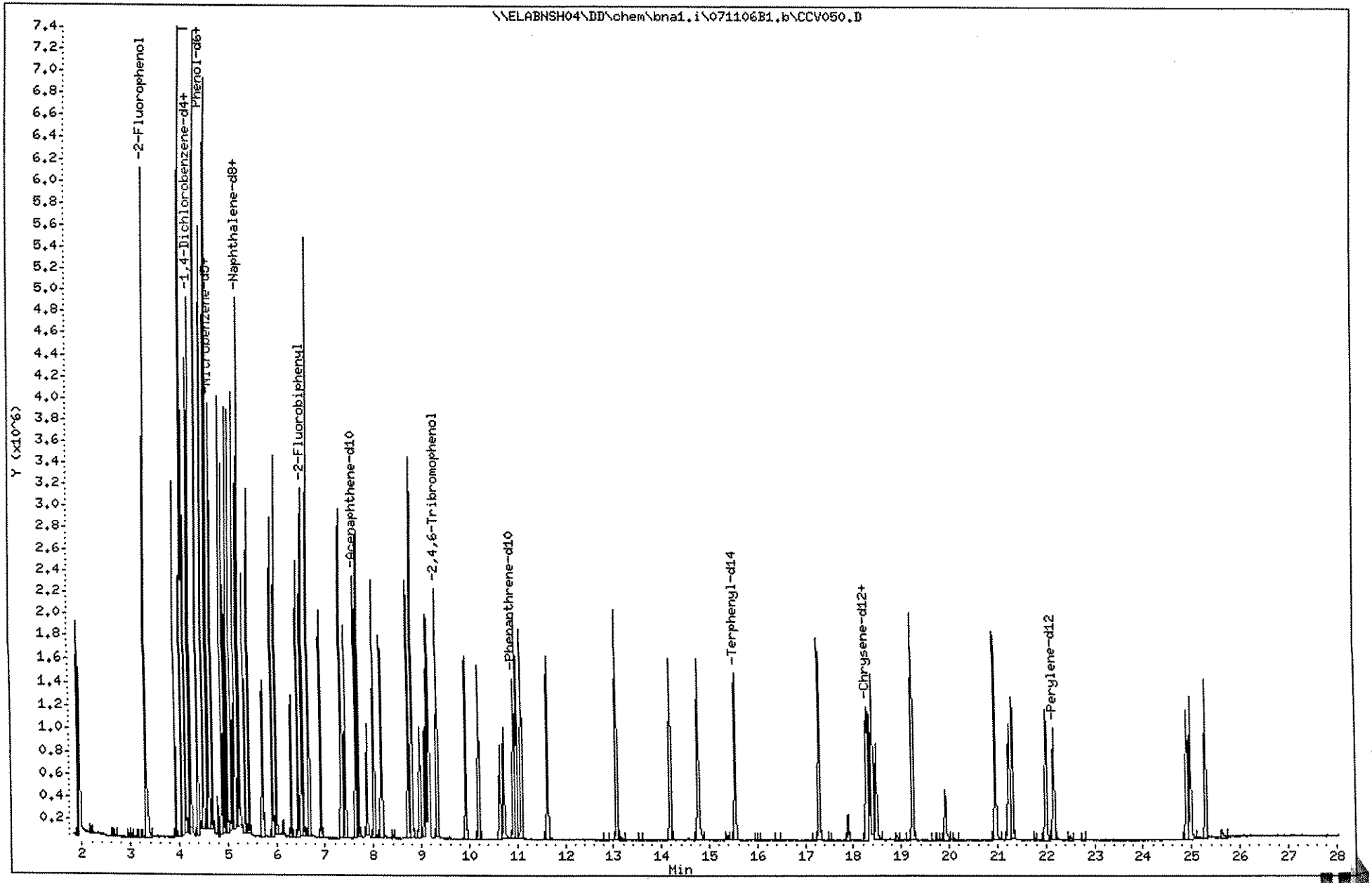
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
100 4,6-Dinitro-2-methylphenol	198	9.072	9.072	(0.830)	233739	50.0000	53.20
101 N-Nitrosodiphenylamine	169	9.133	9.133	(0.836)	693479	50.0000	40.82
$ 102 2,4,6-Tribromophenol	330	9.333	9.333	(0.854)	410865	100.000	102.8(A)
103 4-Bromophenyl-phenylether	248	9.932	9.932	(0.909)	327184	50.0000	44.40
104 Hexachlorobenzene	284	10.200	10.200	(0.934)	382835	50.0000	47.18
105 Pentachlorophenol	266	10.723	10.723	(0.982)	236677	50.0000	46.00
106 Phenanthrene	178	10.986	10.986	(1.006)	1436878	50.0000	46.53
107 Anthracene	178	11.096	11.096	(1.016)	1346804	50.0000	44.18
109 Di-n-butylphthalate	149	13.072	13.072	(1.197)	2412495	50.0000	47.98
110 Fluoranthene	202	14.195	14.195	(1.299)	1412872	50.0000	46.21
123 Atrazine	200	10.647	10.647	(0.975)	125377	50.0000	20.18
* 124 Chrysene-d12	240	18.333	18.333	(1.000)	817298	40.0000	
125 Benzidine	184	14.805	14.805	(0.808)	116460	50.0000	7.104(a)
126 Pyrene	202	14.770	14.770	(0.806)	1440766	50.0000	44.14
$ 127 Terphenyl-d14	244	15.545	15.545	(0.848)	981293	50.0000	47.55
128 Butylbenzylphthalate	149	17.297	17.297	(0.943)	1043628	50.0000	51.41
129 3,3'-Dichlorobenzidine	252	18.485	18.485	(1.008)	413192	50.0000	57.31
130 Benzo(a)anthracene	228	18.291	18.291	(0.998)	1239401	50.0000	47.06
131 Chrysene	228	18.409	18.409	(1.004)	1107301	50.0000	46.04
132 Bis(2-ethylhexyl)phthalate	149	19.240	19.240	(1.049)	1333649	50.0000	50.34
* 145 Perylene-d12	264	22.175	22.175	(1.000)	813632	40.0000	
146 Di-n-octylphthalate	149	20.959	20.959	(0.945)	2216749	50.0000	49.01
147 Benzo(b)fluoranthene	252	21.248	21.248	(0.958)	1181923	50.0000	47.16
148 Benzo(k)fluoranthene	252	21.317	21.317	(0.961)	1203763	50.0000	46.29
149 Benzo(a)pyrene	252	22.017	22.017	(0.993)	1088127	50.0000	50.35
150 Indeno(1,2,3-cd)pyrene	276	24.921	24.921	(1.124)	1031855	50.0000	55.96
151 Dibenz(a,h)anthracene	278	24.998	24.998	(1.127)	973423	50.0000	52.44
152 Benzo(g,h,i)perylene	276	25.301	25.301	(1.141)	1086839	50.0000	56.80

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Date : 11-JUL-2006 09:43
Client ID: CCV050PPM
Instrument: bna1.i
Sample Info: CCV050PPM;;;;;SV3607
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

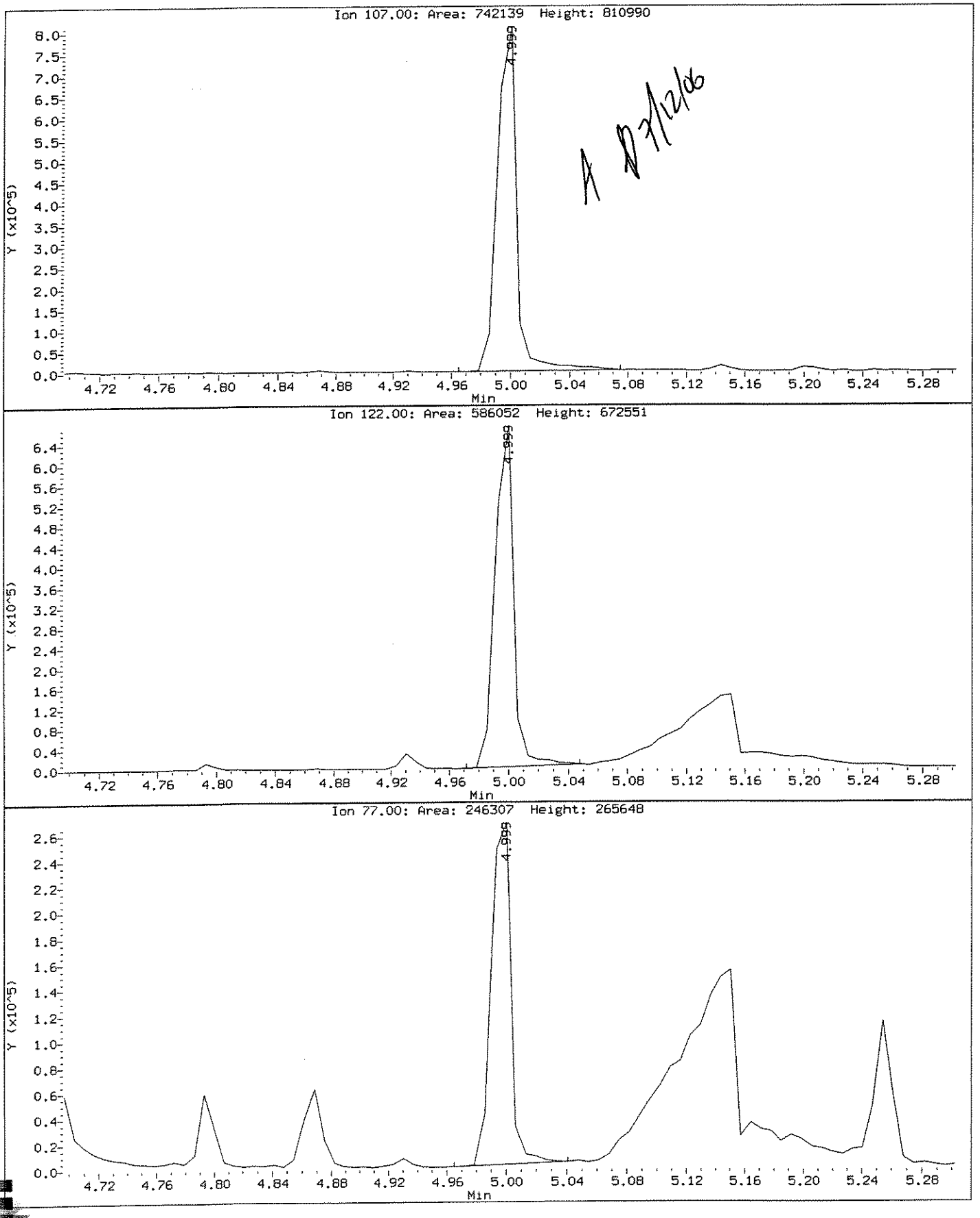
000492



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Injection Date: 11-JUL-2006 09:43
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9

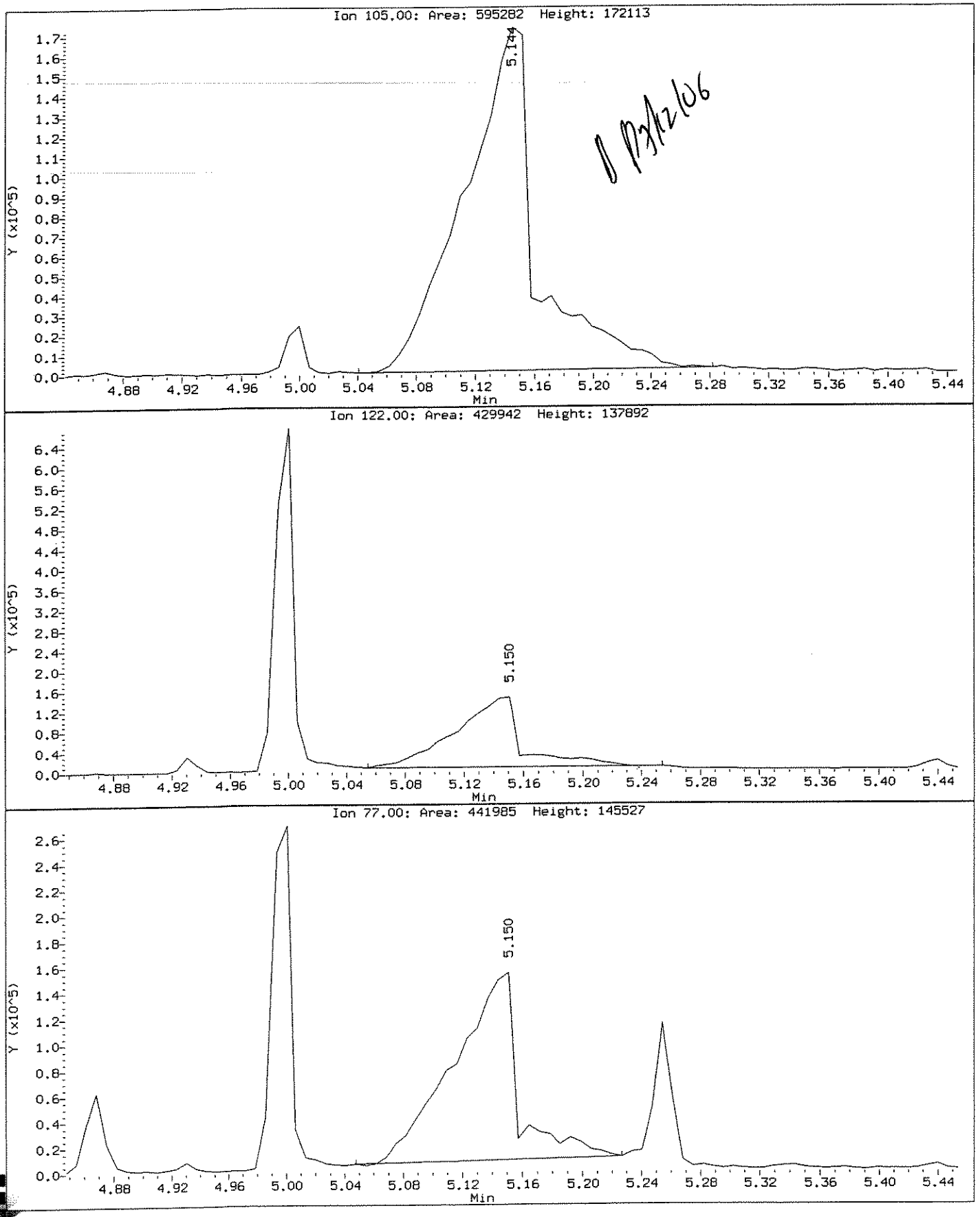


A D 7/12/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Injection Date: 11-JUL-2006 09:43
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0



1 p3/12/06

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 1506

Lab File ID: APP9ACCV Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1-Methylnaphthalene	0.546	0.478	50.00	43.83		AVRG	-12.3	20.0
Nitrobenzene-d5	0.437	0.478	50.00	0.0000		AVRG	9.5	
2-Fluorobiphenyl	1.273	1.151	50.00	0.0000		AVRG	-9.6	
Terphenyl-d14	1.010	1.018	50.00	0.0000		AVRG	0.8	

FORM VII SV

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Report Date: 20-Jul-2006 12:37

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Lab Smp Id: APP9ACCV050PPM Client Smp ID: APP9ACCV050PPM
Inj Date : 10-JUL-2006 15:06
Operator : SDB Inst ID: bna1.i
Smp Info : APP9ACCV050PPM;;;;;SV3625
Misc Info : ;;;;;app9a.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 20-Jul-2006 12:37 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 95 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.274	4.274	(1.000)	491612	40.0000	
7	Pentachloroethane	167	4.061	4.061	(0.950)	298429	50.0000	45.82
29	o-Toluidine	106	4.631	4.631	(1.084)	1176065	50.0000	48.11
* 31	Naphthalene-d8	136	5.283	5.283	(1.000)	1763556	40.0000	
52	1-Methylnaphthalene	141	6.203	6.203	(1.174)	1054137	50.0000	43.83
57	Hexachloropropene	213	5.420	5.420	(1.026)	238499	50.0000	26.56
63	1,2,4,5-Tetrachlorobenzene	216	6.341	6.341	(1.200)	582849	50.0000	43.14
* 65	Acenaphthene-d10	164	7.722	7.722	(1.000)	798988	40.0000	
88	m-Dinitrobenzene	168	7.399	7.399	(0.958)	246905	50.0000	54.33
89	Pentachlorobenzene	250	8.155	8.155	(1.056)	517305	50.0000	51.16
93	5-Nitro-o-toluidine	152	8.998	8.998	(1.165)	437521	50.0000	64.22
* 97	Phenanthrene-d10	188	11.038	11.038	(1.000)	1024967	40.0000	
112	sym-Trinitrobenzene	75	10.104	10.104	(0.915)	216551	50.0000	37.77
114	4-Aminobiphenyl	169	10.715	10.715	(0.971)	1152379	50.0000	55.13

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Report Date: 20-Jul-2006 12:37

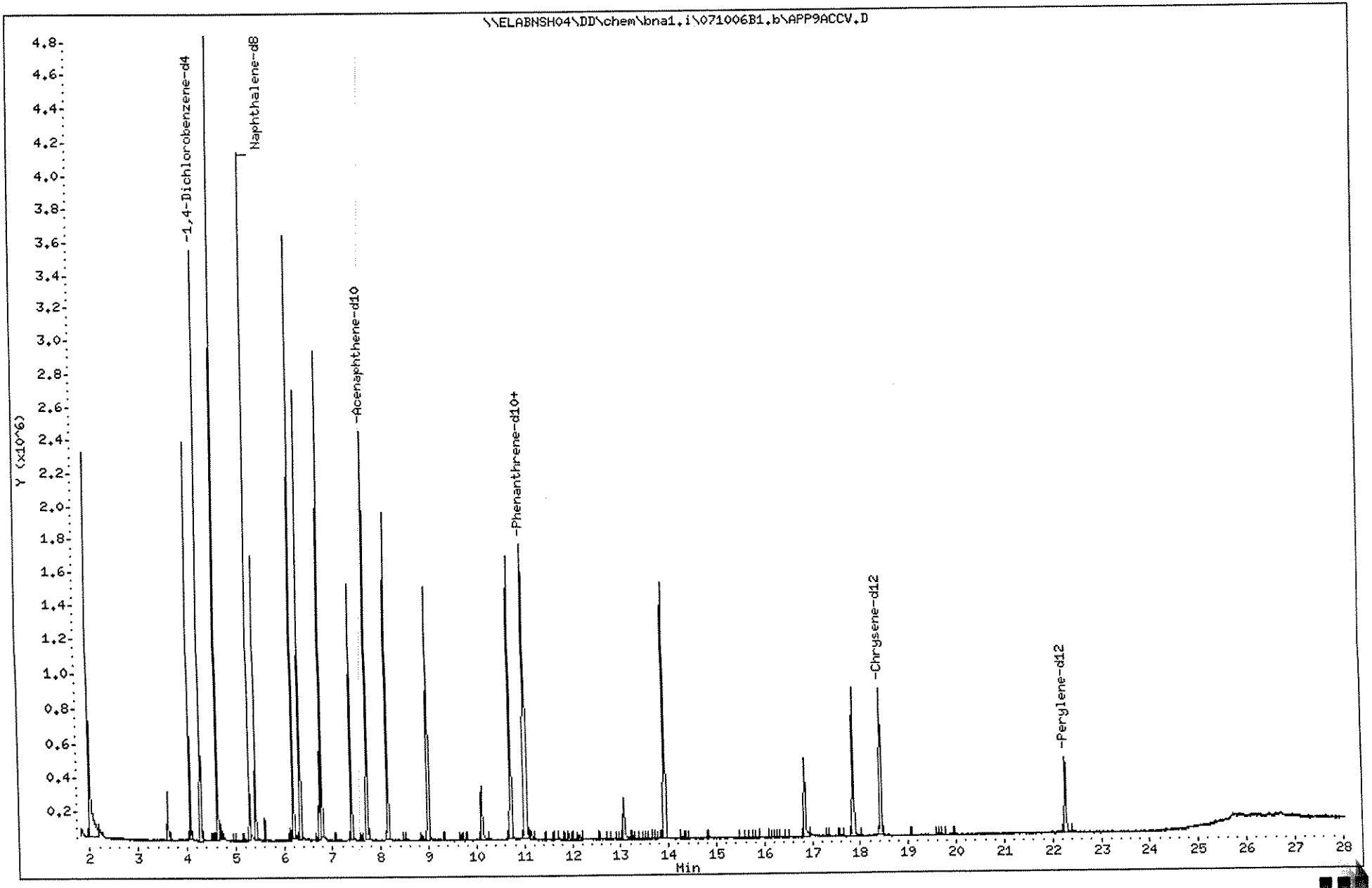
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
115 Pentachloronitrobenzene	237	11.010	11.010	(0.997)	139510	50.0000	48.35
* 124 Chrysene-d12	240	18.438	18.438	(1.000)	633203	40.0000	
137 2-Acetylaminofluorene	181	17.867	17.867	(0.969)	503237	50.0000	61.62
142 Isodrin	193	13.931	13.931	(0.756)	221961	50.0000	56.36
143 Kepone	272	16.842	16.842	(0.913)	109861	50.0000	38.32
* 145 Perylene-d12	264	22.268	22.268	(1.000)	323935	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Date : 10-JUL-2006 15:06
Client ID: APP9ACCV050PPM
Sample Info: APP9ACCV050PPM;;;;;SV3625
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: SDB
Column diameter: 0.25

000498



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 1019

Lab File ID: APP9ACCV Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1-Methylnaphthalene	0.546	0.477	50.00	43.75		AVRG	-12.5	20.0
Nitrobenzene-d5	0.437	0.485	50.00	0.0000		AVRG	11.1	
2-Fluorobiphenyl	1.273	1.145	50.00	0.0000		AVRG	-10.0	
Terphenyl-d14	1.010	0.960	50.00	0.0000		AVRG	-4.9	

FORM VII SV

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Report Date: 12-Jul-2006 11:55

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Lab Smp Id: APP9ACCV050PPM Client Smp ID: APP9ACCV050PPM
Inj Date : 11-JUL-2006 10:19
Operator : SDB Inst ID: bna1.i
Smp Info : APP9ACCV050PPM;;;;;SV3625
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

7/12/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.233	4.233	(1.000)	554090	40.0000	
7	Pentachloroethane	167	4.014	4.014	(0.948)	339293	50.0000	46.22
29	o-Toluidine	106	4.590	4.590	(1.084)	1304522	50.0000	47.35
* 31	Naphthalene-d8	136	5.230	5.230	(1.000)	1838326	40.0000	
52	1-Methylnaphthalene	141	6.137	6.137	(1.173)	1096986	50.0000	43.75
57	Hexachloropropene	213	5.369	5.369	(1.027)	409719	50.0000	43.77
63	1,2,4,5-Tetrachlorobenzene	216	6.274	6.274	(1.200)	621663	50.0000	44.14
* 65	Acenaphthene-d10	164	7.637	7.637	(1.000)	865912	40.0000	
88	m-Dinitrobenzene	168	7.326	7.326	(0.959)	252418	50.0000	51.25
89	Pentachlorobenzene	250	8.065	8.065	(1.056)	546330	50.0000	49.86
93	5-Nitro-o-toluidine	152	8.905	8.905	(1.166)	446159	50.0000	60.42
* 97	Phenanthrene-d10	188	10.929	10.929	(1.000)	1063444	40.0000	
112	sym-Trinitrobenzene	75	10.017	10.017	(0.916)	456438	50.0000	69.68
114	4-Aminobiphenyl	169	10.622	10.622	(0.972)	1140679	50.0000	52.59

7-12-06

Empirical Laboratories

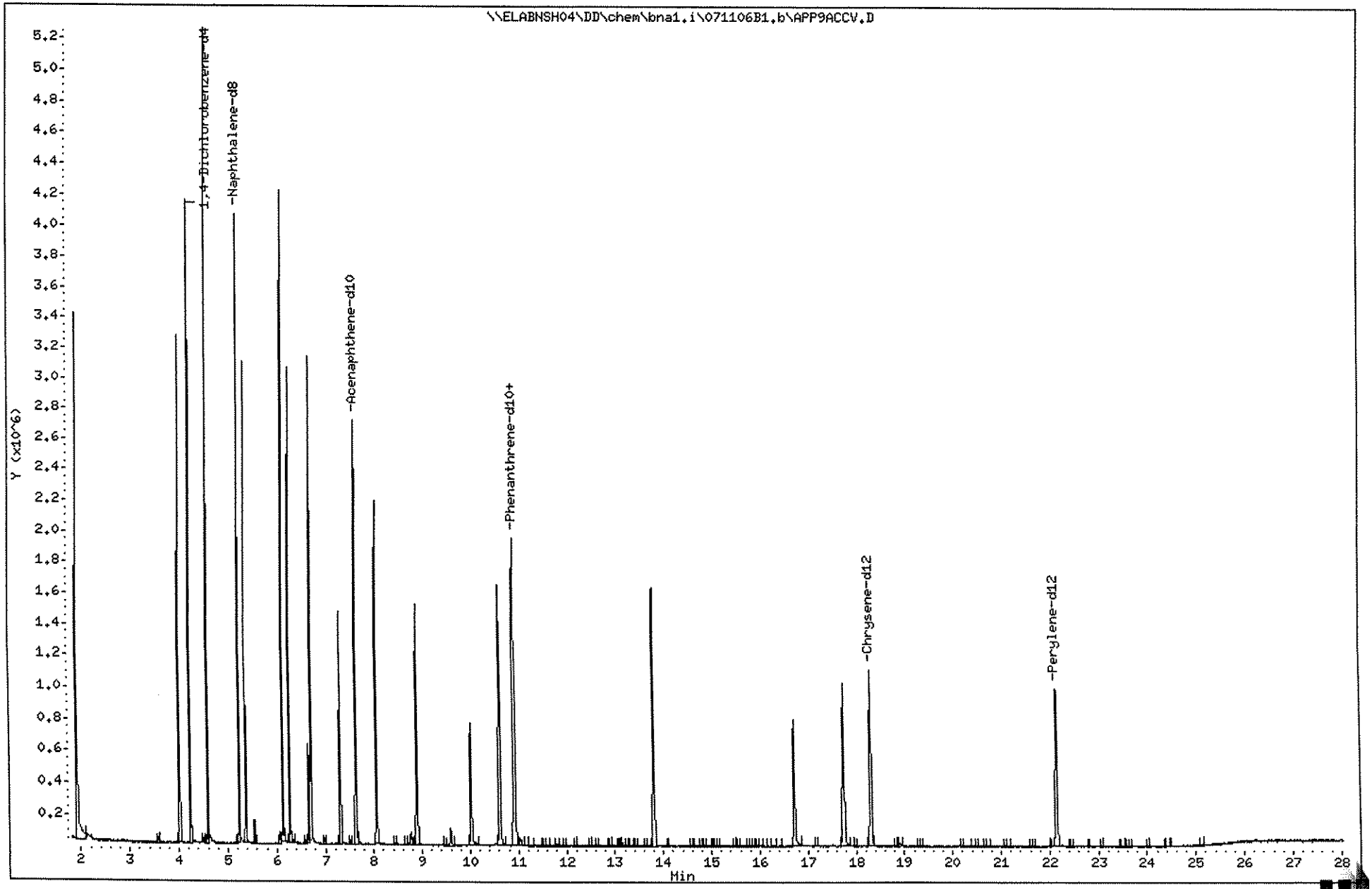
Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Report Date: 12-Jul-2006 11:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
115 Pentachloronitrobenzene	237	10.909	10.909	(0.998)	156588	50.0000	52.31
* 124 Chrysene-d12	240	18.318	18.318	(1.000)	845458	40.0000	
137 2-Acetylaminofluorene	181	17.757	17.757	(0.969)	614153	50.0000	56.32
142 Isodrin	193	13.816	13.816	(0.754)	244396	50.0000	46.48
143 Kepone	272	16.716	16.716	(0.913)	184051	50.0000	48.08
* 145 Perylene-d12	264	22.154	22.154	(1.000)	852893	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Date : 11-JUL-2006 10:19
Client ID: APP9ACCV050PPM
Sample Info: APP9ACCV050PPM;;;;;SV3625
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000502



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date: 07/17/06 Time: 1359

Lab File ID: PAHCCV Init. Calib. Date(s): 03/11/06 04/21/06

Init. Calib. Times: 1210 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.008	1.022	5.000	5.065		AVRG	1.3	20.0
Acenaphthylene	1.592	1.502	5.000	4.717		AVRG	-5.6	20.0
Anthracene	1.056	1.052	5.000	4.983		AVRG	-0.3	20.0
Benzo(a)anthracene	1.164	1.120	5.000	4.808		AVRG	-3.8	20.0
Benzo(b)fluoranthene	1.381	1.280	5.000	4.637		AVRG	-7.2	20.0
Benzo(k)fluoranthene	1.381	1.680	5.000	6.085		AVRG	21.7	20.0
Benzo(g,h,i)perylene	0.839	0.773	5.000	4.604		AVRG	-7.9	20.0
Benzo(a)pyrene	1.138	1.127	5.000	4.953		AVRG	-0.9	20.0
Chrysene	1.150	1.268	5.000	5.515		AVRG	10.3	20.0
Dibenz(a,h)anthracene	0.761	0.644	5.000	4.230		AVRG	-15.4	20.0
Fluoranthene	1.111	1.128	5.000	5.079		AVRG	1.6	20.0
Fluorene	1.189	1.102	5.000	4.637		AVRG	-7.2	20.0
Indeno(1,2,3-cd)pyrene	0.804	0.758	5.000	4.712		AVRG	-5.8	20.0
2-Methylnaphthalene	0.523	0.485	5.000	4.635		AVRG	-7.3	20.0
1-Methylnaphthalene	0.548	0.536	5.000	4.895		AVRG	-2.1	20.0
Naphthalene	0.958	0.931	5.000	4.854		AVRG	-2.9	20.0
Phenanthrene	1.096	1.106	5.000	5.044		AVRG	0.9	20.0
Pyrene	1.486	1.935	5.000	6.510		AVRG	30.2	20.0
Nitrobenzene-d5	0.186	0.294	5.000	5.745		LINR	14.9	
2-Fluorobiphenyl	1.206	1.108	5.000	4.592		AVRG	-8.2	
Terphenyl-d14	0.952	1.031	5.000	5.414		AVRG	8.3	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Report Date: 18-Jul-2006 09:08

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Lab Smp Id: PAHCCV5.0PPM Client Smp ID: PAHCCV5.0PPM
Inj Date : 17-JUL-2006 13:59 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : PAHCCV5.0PPM;;;;;SV3624
Misc Info : ;;;;;;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	2.000	Volume injected (uL)
Solids	100.000	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.453	5.453	(1.000)	91793	1.00000	
*	3 Naphthalene-d8	136	8.056	8.056	(1.000)	440409	1.00000	
$	4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	647540	5.00000	5.745
	5 Naphthalene	128	8.102	8.102	(1.006)	2049517	5.00000	4.854
	6 2-Methylnaphthalene	141	9.689	9.689	(1.203)	1067711	5.00000	4.635
	7 1-Methylnaphthalene	141	9.940	9.940	(1.234)	1180595	5.00000	4.895(M)
*	8 Acenaphthene-d10	164	12.189	12.189	(1.000)	269649	1.00000	
$	10 2-Fluorobiphenyl	172	10.648	10.648	(0.874)	1493481	5.00000	4.592
	11 Acenaphthylene	152	11.813	11.813	(0.969)	2025416	5.00000	4.717
	12 Acenaphthene	153	12.258	12.258	(1.006)	1377608	5.00000	5.065
	15 Fluorene	166	13.479	13.479	(1.106)	1486564	5.00000	4.637
*	16 Phenanthrene-d10	188	15.706	15.706	(1.000)	361669	1.00000	
	17 Phenanthrene	178	15.763	15.763	(1.004)	1999508	5.00000	5.044

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Report Date: 18-Jul-2006 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.866	15.866	(1.010)	1903397	5.00000	4.983
	19 Fluoranthene	202	18.651	18.651	(1.188)	2040145	5.00000	5.079
*	20 Chrysene-d12	240	22.133	22.133	(1.000)	239219	1.00000	
	21 Pyrene	202	19.165	19.165	(0.866)	2314302	5.00000	6.510
$	22 Terphenyl-d14	244	19.690	19.690	(0.890)	1233144	5.00000	5.414
	23 Benzo(a)anthracene	228	22.099	22.099	(0.998)	1339309	5.00000	4.808
	24 Chrysene	228	22.190	22.190	(1.003)	1517081	5.00000	5.515
*	25 Perylene-d12	264	25.330	25.330	(1.000)	175042	1.00000	
	26 Benzo(b)fluoranthene	252	24.554	24.554	(0.969)	1120771	5.00000	4.637
	27 Benzo(k)fluoranthene	252	24.599	24.599	(0.971)	1470770	5.00000	6.085
	28 Benzo(a)pyrene	252	25.216	25.216	(0.995)	986384	5.00000	4.953
	29 Indeno(1,2,3-cd)pyrene	276	27.362	27.362	(1.080)	663348	5.00000	4.712(M)
	30 Dibenz(a,h)anthracene	278	27.397	27.397	(1.082)	563559	5.00000	4.230
	31 Benzo(g,h,i)perylene	276	27.830	27.830	(1.099)	676659	5.00000	4.604

QC Flag Legend

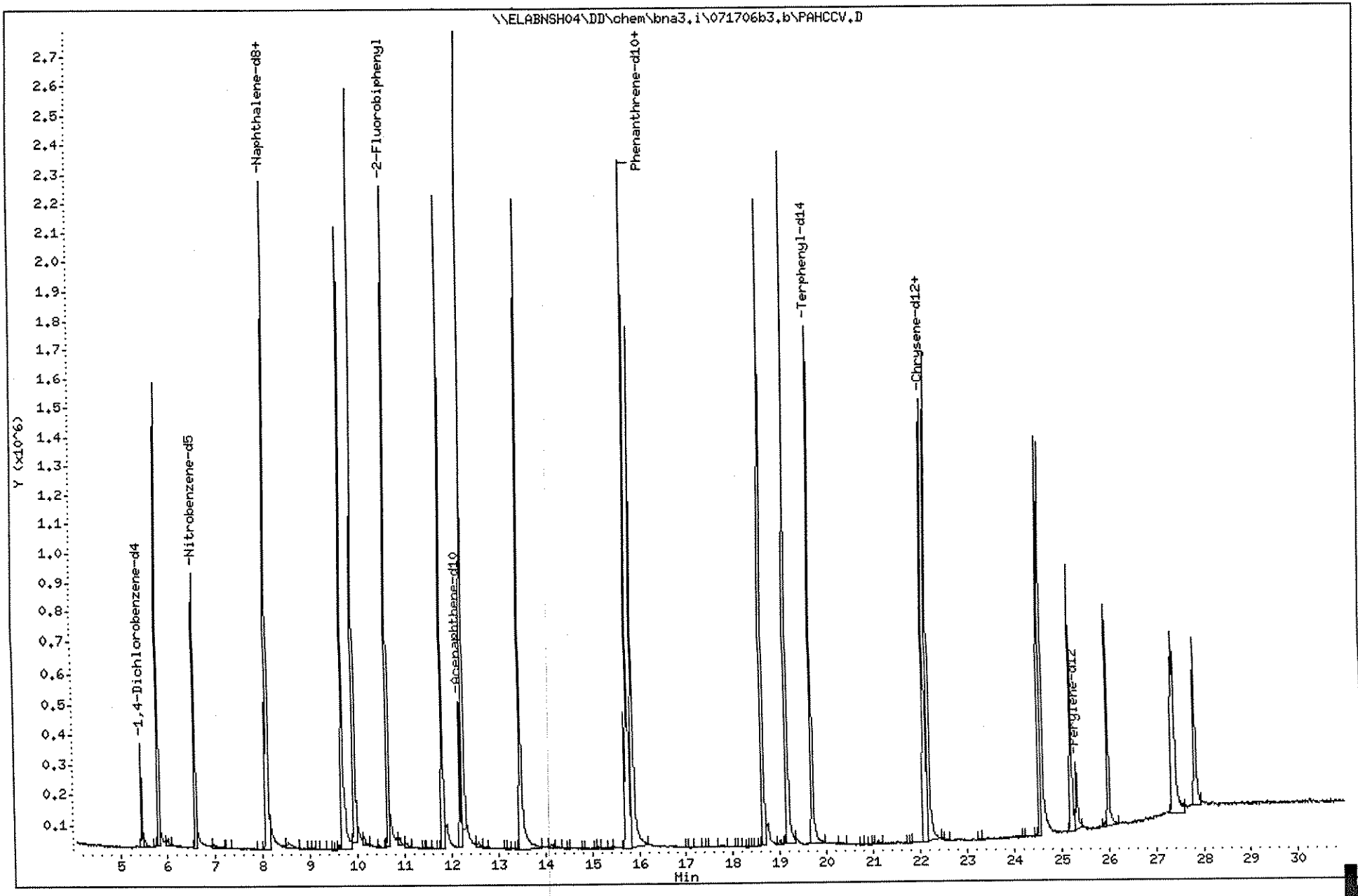
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Date : 17-JUL-2006 13:59
Client ID: PAHCCV5.0PPM
Sample Info: PAHCCV5.0PPM;;;;;SV3624
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: SDB
Column diameter: 0.25

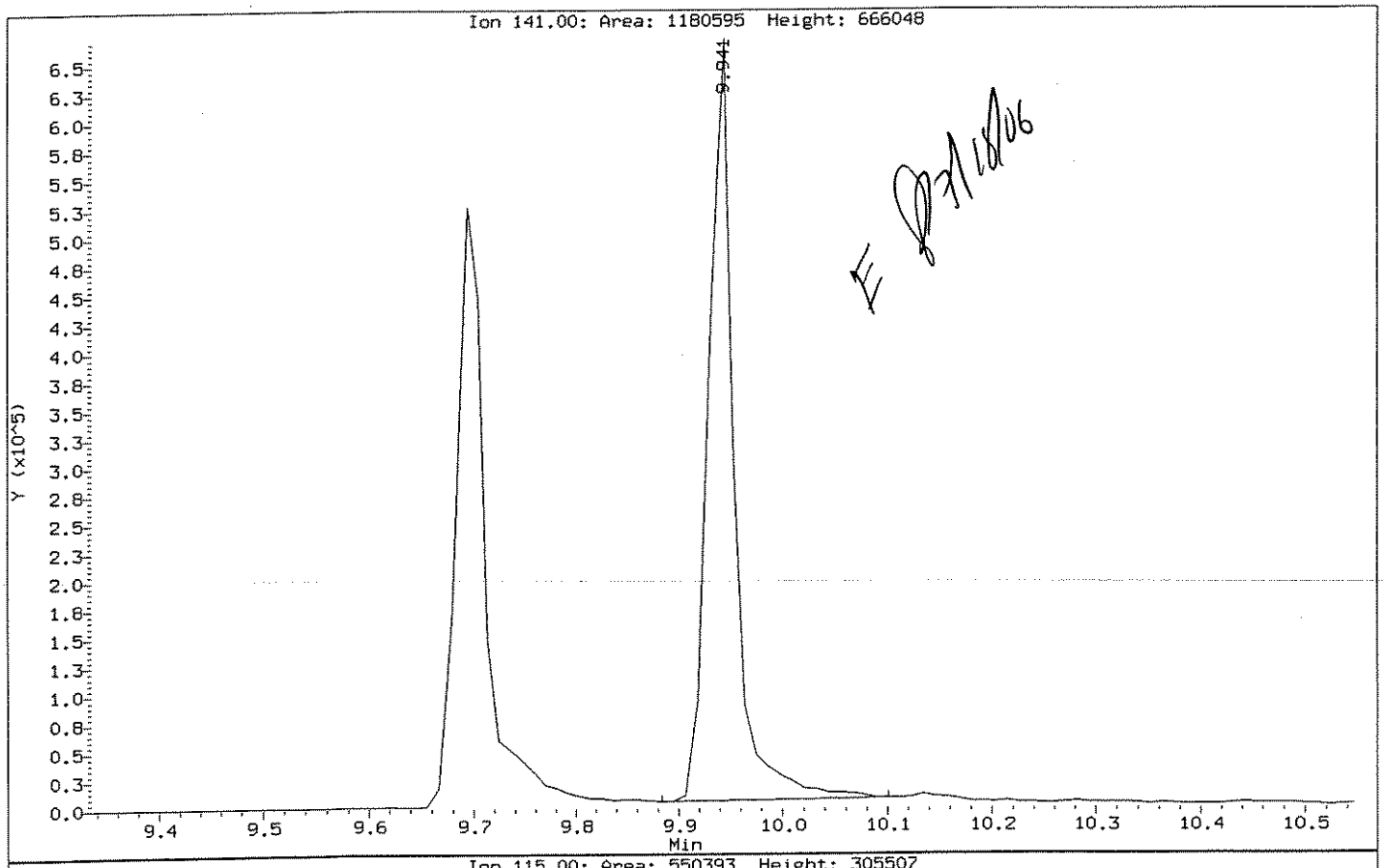
000506

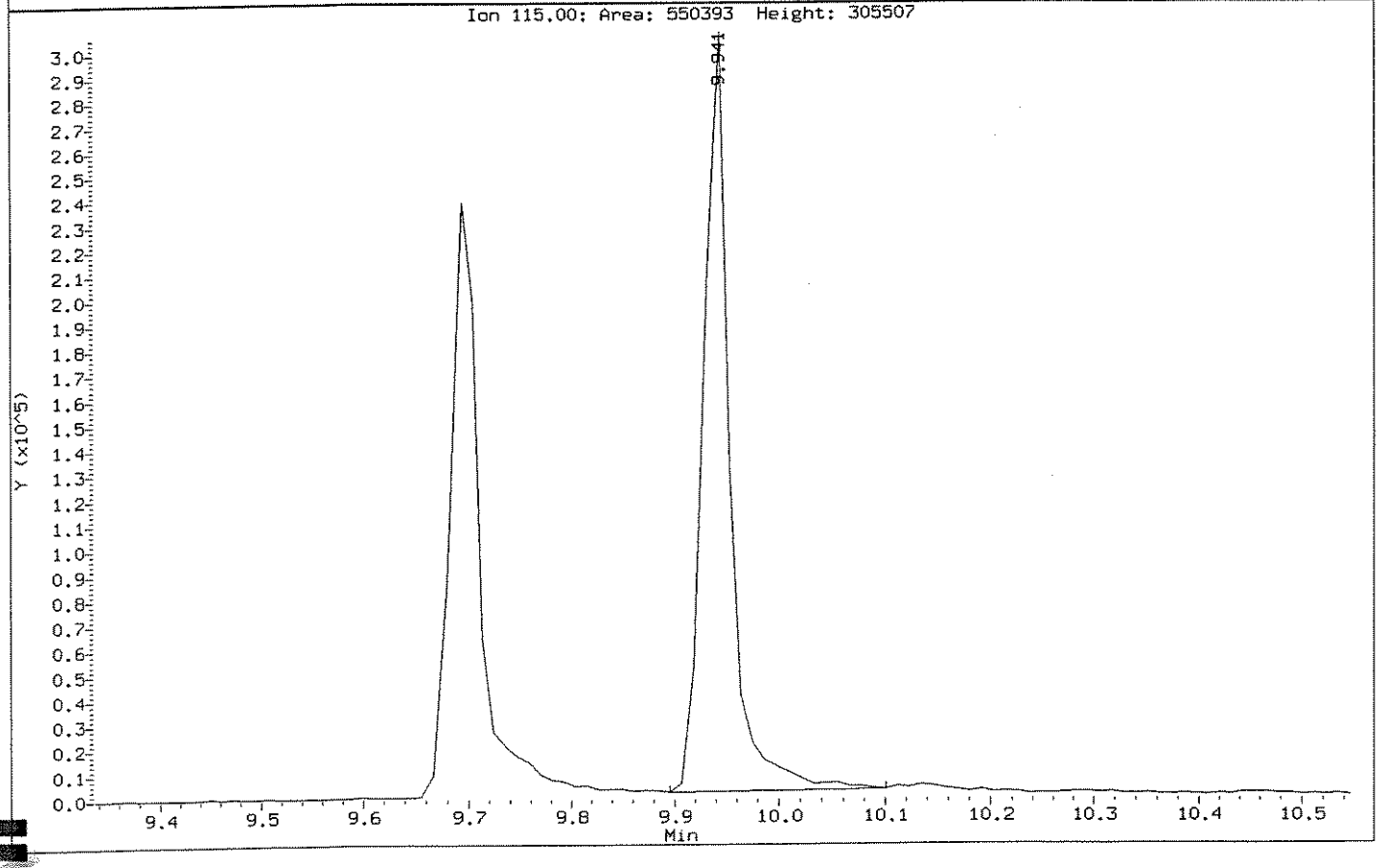


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Injection Date: 17-JUL-2006 13:59
Instrument: bna3.i
Client Sample ID: PAHCCV5.0PPM

Compound: 1-Methylnaphthalene
CAS Number: 90-12-0

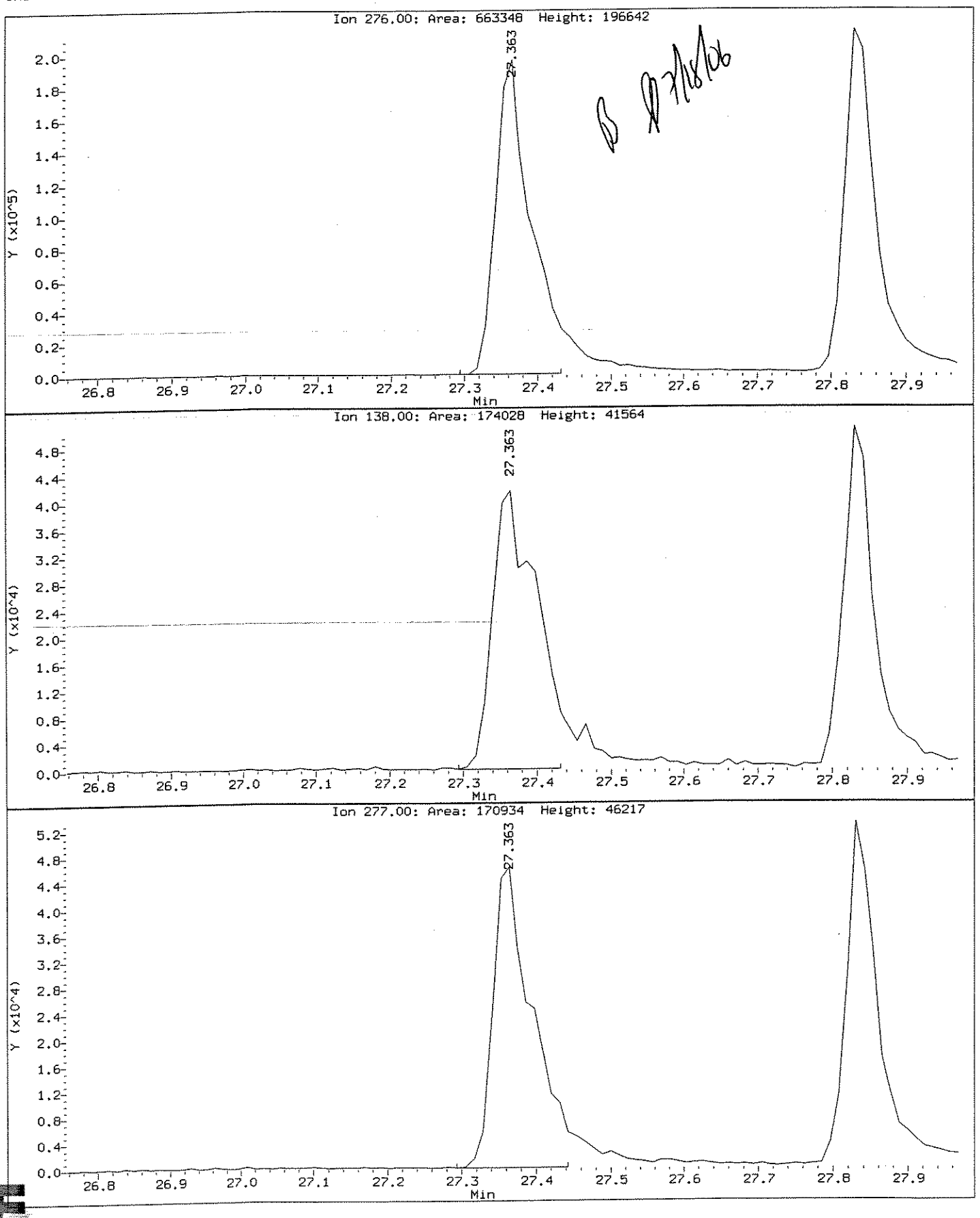




Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Injection Date: 17-JUL-2006 13:59
Instrument: bna3.i
Client Sample ID: PAHCCV5.0PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date: 07/17/06 Time: 1318

Lab File ID: SPCC020 Init. Calib. Date(s): 02/13/06 04/21/06

Init. Calib. Times: 1342 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2,4-Dinitrophenol	0.063	0.082	20.00	26.20	0.050	AVRG	31.0	20.0
Hexachlorocyclopentadiene	0.274	0.469	20.00	34.20	0.050	AVRG	71.0	20.0
4-Nitrophenol	0.147	0.122	20.00	16.50	0.050	AVRG	-17.5	20.0
N-Nitroso-di-n-propylamine	0.644	1.031	20.00	32.02	0.050	AVRG	60.1	20.0

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Report Date: 18-Jul-2006 09:08

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Lab Smp Id: SPCC020PPM Client Smp ID: SPCC020PPM
Inj Date : 17-JUL-2006 13:18 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SPCC020PPM;;;;;SV3628
Misc Info : ;;;;;;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spcc.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	2.000	Volume injected (uL)
Solids	100.000	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)	
*	1 1,4-Dichlorobenzene-d4	152	5.452	5.452	(1.000)	91427	1.00000		(aH)
	2 N-Nitroso-di-n-propylamine	70	6.354	6.354	(1.112)	1885189	20.0000	32.02	
*	3 Naphthalene-d8	136	8.055	8.055	(1.000)	408965	1.00000		(a)
*	8 Acenaphthene-d10	164	12.188	12.188	(1.000)	229968	1.00000		(aH)
	9 Hexachlorocyclopentadiene	237	10.247	10.247	(0.833)	2158070	20.0000	34.20	
	13 2,4-Dinitrophenol	184	12.462	12.462	(1.013)	377998	20.0000	26.20	(a)
	14 4-Nitrophenol	65	12.827	12.827	(1.052)	559192	20.0000	16.50	(aM)
*	16 Phenanthrene-d10	188	15.704	15.704	(1.000)	334265	1.00000		(a)
*	20 Chrysene-d12	240	22.132	22.132	(1.000)	128361	1.00000		(a)
*	25 Perylene-d12	264	25.340	25.340	(1.000)	96128	1.00000		(a)

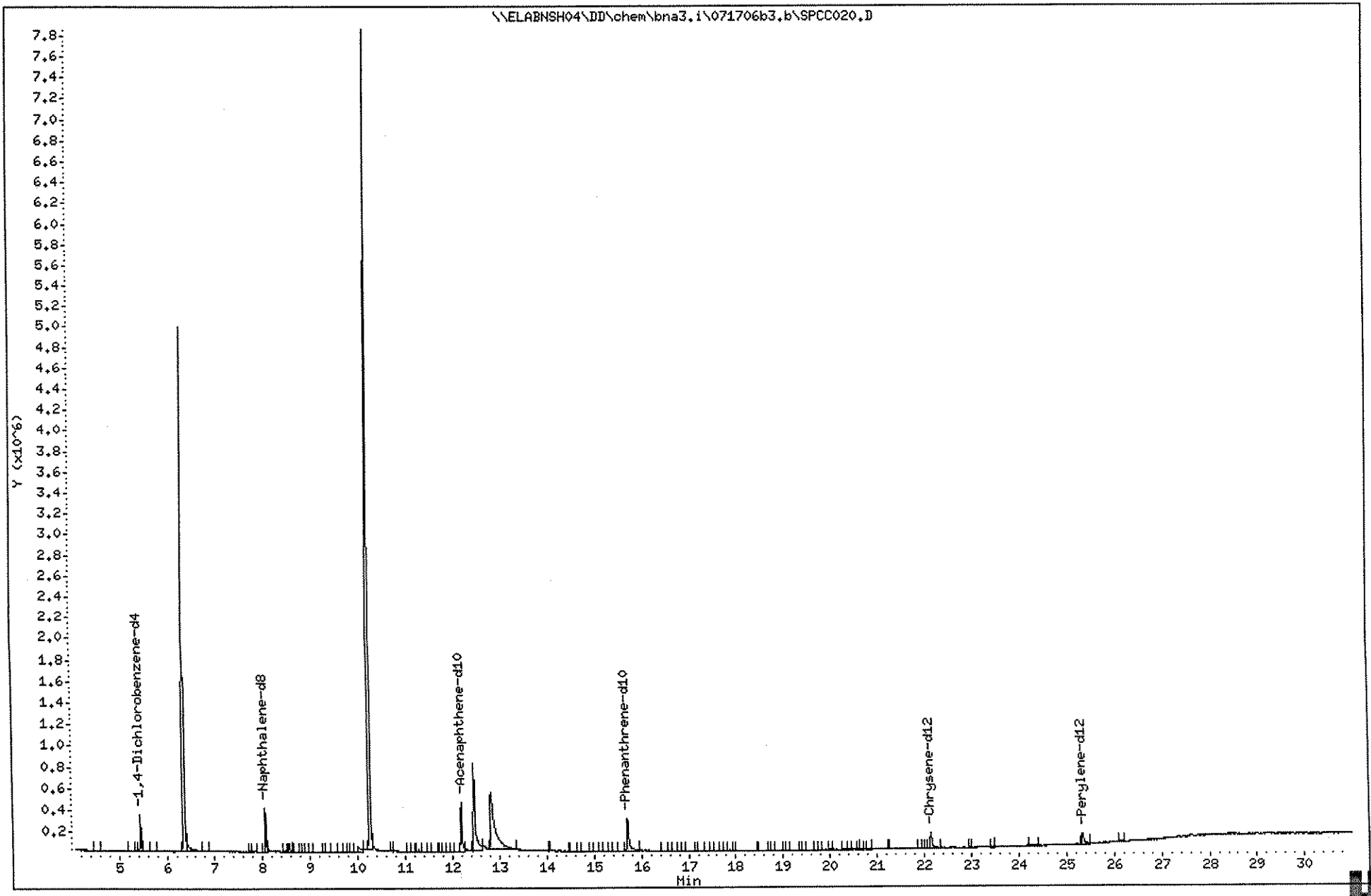
Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Report Date: 18-Jul-2006 09:08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Date : 17-JUL-2006 13:18
Client ID: SPCC020PPM
Instrument: bna3.i
Sample Info: SPCC020PPM;;;;;SV3628
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

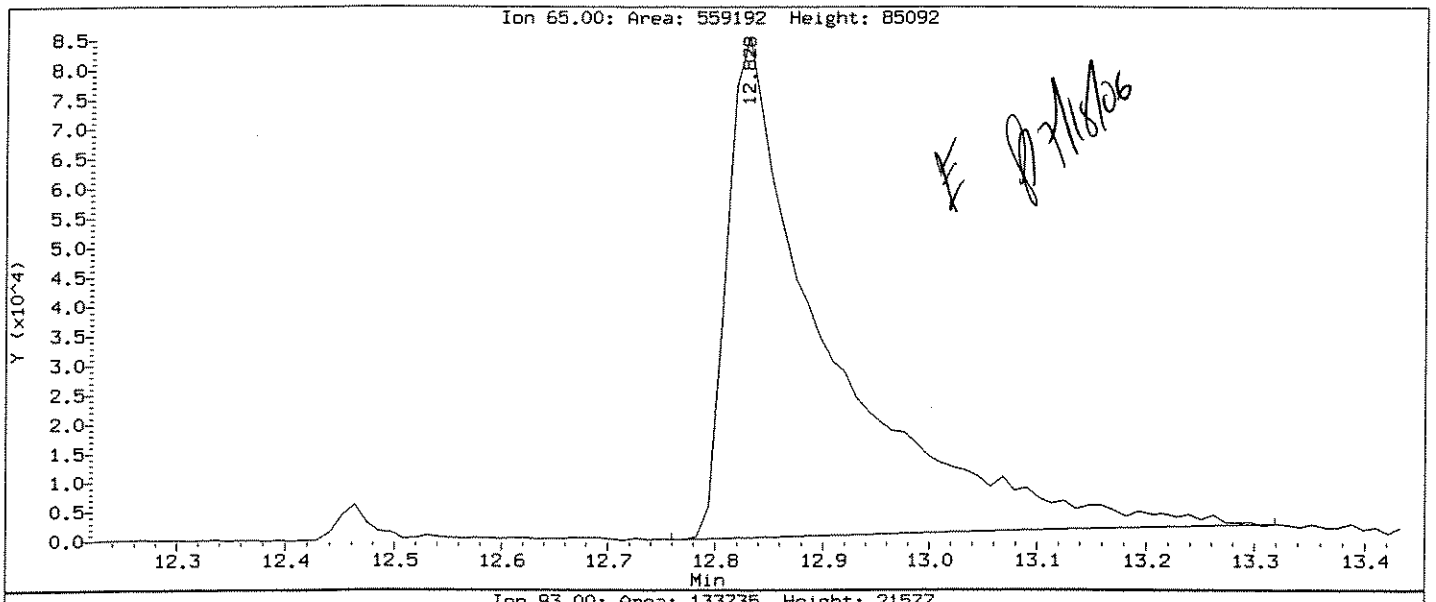
000512

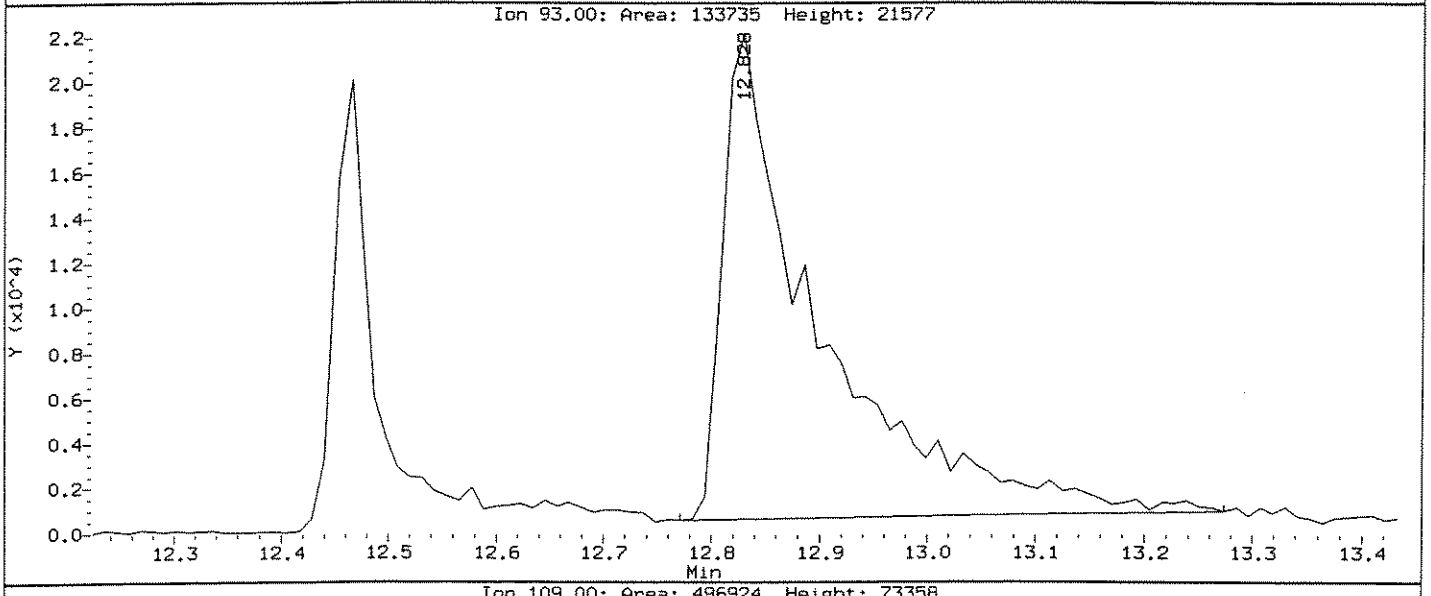


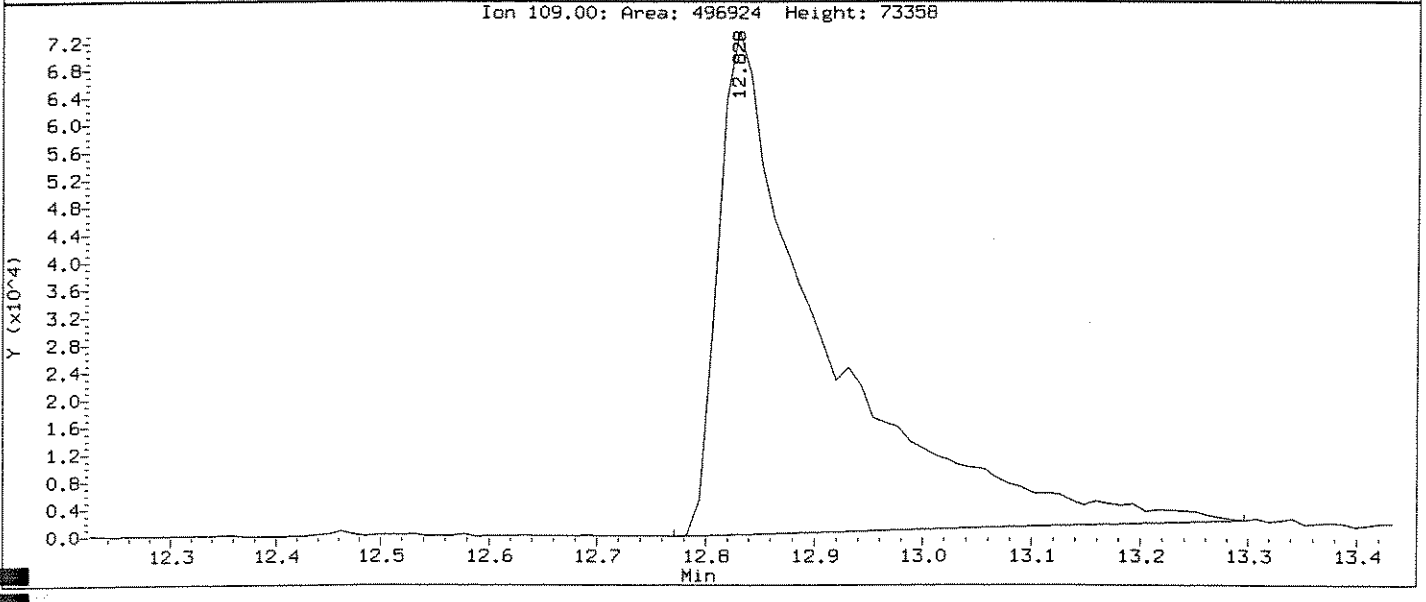
Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna3.i\071706b3.b\SPCC020.D
Injection Date: 17-JUL-2006 13:18
Instrument: bna3.i
Client Sample ID: SPCC020PPM

Compound: 4-Nitrophenol
CAS Number: 100-02-7







E 8/18/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

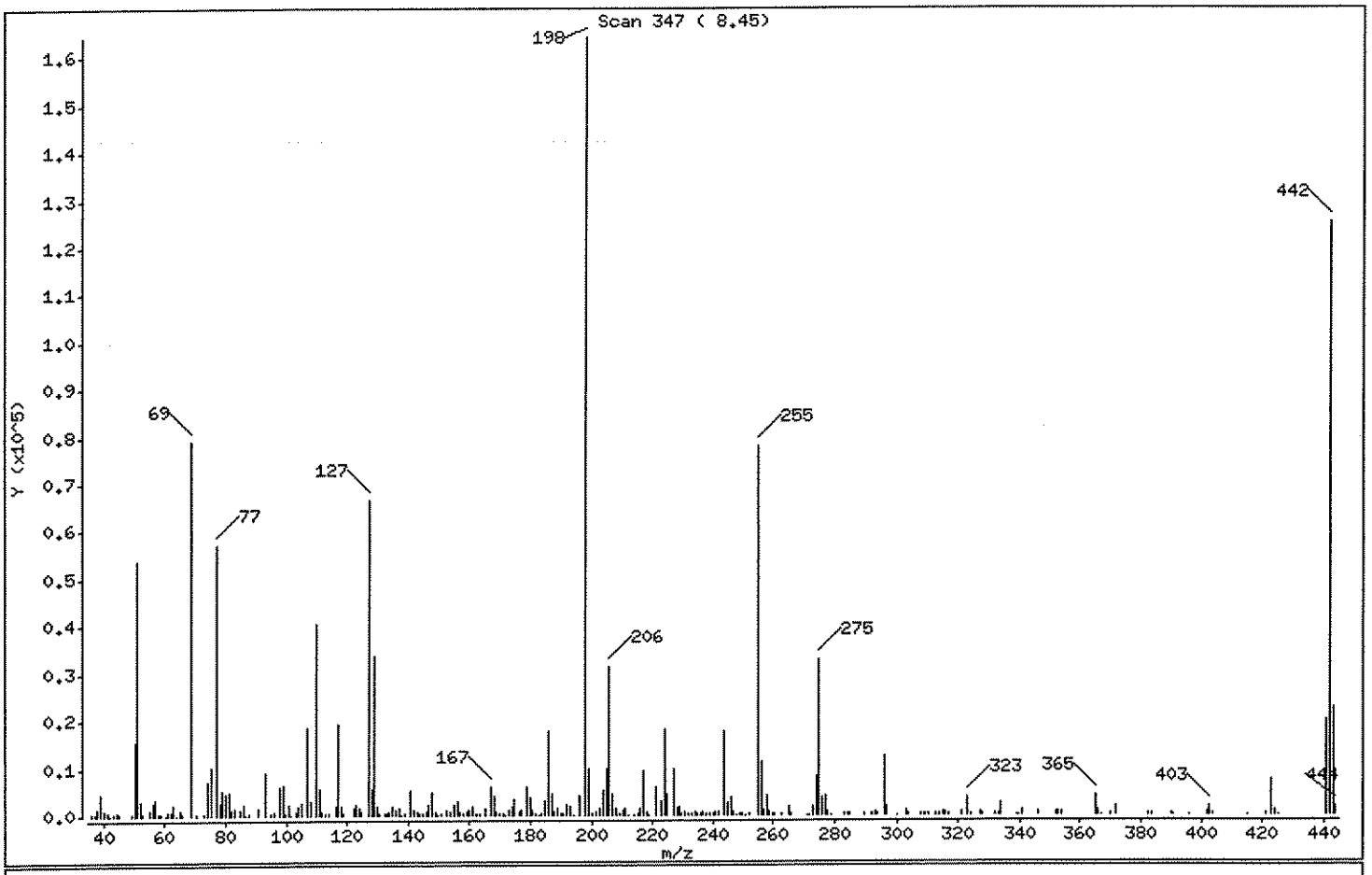
Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	32.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.22
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.53
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.89
275	10.00 - 30.00% of mass 198	20.10
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	12.31
442	Greater than 40.00% of mass 198	76.26
443	17.00 - 23.00% of mass 442	13.87 (18.19)

M 4/8/16

RDW 2-8-06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0207B1.D
Spectrum: Scan 347 (8.45)
Location of Maximum: 197.85
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	212	119.00	212	191.95	2158	272.80	1930
37.20	196	122.00	1475	192.95	1782	274.00	8355
38.05	1339	123.00	2127	194.05	174	274.90	33024
39.05	4630	123.90	1423	195.95	4304	275.85	3855
39.95	955	124.85	755	197.85	164288	276.95	4268
41.05	745	126.95	66584	198.85	9670	277.85	660
41.95	134	128.05	5570	200.00	357	278.65	101
43.05	567	128.95	33568	201.40	704	282.85	415
44.05	887	129.95	1947	202.80	1397	283.95	415
44.75	369	130.85	496	204.00	5297	284.65	475
49.00	468	132.15	292	205.00	9670	289.80	310
50.10	15552	132.85	405	205.90	31440	291.80	254
51.00	53872	133.75	631	207.00	4643	292.90	704
52.00	3115	134.90	1874	207.90	1462	293.90	394
52.70	298	136.00	1102	209.00	496	295.90	12627
55.00	1306	136.90	1605	210.10	961	296.85	1777
56.00	2637	138.00	122	211.05	1539	300.35	122
57.00	3571	139.00	278	212.05	133	302.95	1191
58.00	547	140.90	5122	213.75	126	303.75	301
58.80	385	141.90	1151	214.95	404	308.00	260
60.25	171	143.00	601	215.75	1674	309.00	231
61.05	820	143.90	222	216.85	9408	310.10	280
61.95	876	145.20	209	217.95	890	312.80	437
63.05	2255	146.05	812	218.65	115	314.10	344
63.95	188	146.95	2127	220.85	6227	315.00	905
64.95	1290	147.95	5037	223.00	2858	315.90	810
65.75	305	149.05	831	223.90	18320	317.00	289
68.95	79216	149.85	135	224.90	4452	320.95	831
70.80	325	150.95	526	226.90	9859	322.95	3602
73.10	437	152.85	1115	228.00	1591	323.85	396
74.00	7056	153.95	922	228.90	1730	326.95	591
75.00	10051	154.95	2096	229.60	239	327.75	555
77.00	57344	155.95	3142	230.90	714	331.80	516
78.00	2532	157.00	672	231.90	247	332.90	514
79.00	5478	157.90	469	232.95	254	333.80	2675

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0207B1.D
Spectrum: Scan 347 (8.45)
Location of Maximum: 197.85
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.90	4377	159.10	823	233.95	773	339.10	116
80.95	4802	159.90	980	234.95	454	339.80	138
81.95	1318	160.90	2000	235.85	473	340.95	968
83.05	1567	161.90	393	236.75	867	345.95	820
84.95	1021	163.40	309	237.75	205	352.00	761
85.95	2084	164.90	1548	238.95	343	352.80	741
86.65	113	166.90	5923	240.05	190	354.10	672
87.85	359	167.95	4091	240.75	773	364.85	4161
90.95	1581	168.85	859	242.15	910	365.95	1012
93.00	8977	169.95	441	244.00	17928	366.85	159
95.10	303	171.05	426	244.90	2706	370.05	324
95.90	610	171.95	187	245.90	3790	371.85	1874
98.00	5923	172.95	1102	246.80	649	382.70	200
99.00	6565	173.85	1735	247.70	123	383.75	266
99.80	427	174.85	3355	248.90	366	390.05	212
100.90	2439	176.25	804	249.80	423	390.85	174
101.60	170	176.85	1028	250.80	170	396.30	114
103.05	750	178.90	5989	252.30	240	401.80	736
103.95	1869	180.00	3877	254.95	77936	402.80	1982
105.05	2577	180.90	1282	255.95	11438	403.90	309
106.95	18520	181.90	429	256.95	955	414.85	107
107.95	3001	182.80	156	257.85	4208	420.80	431
109.95	40608	183.80	276	258.85	604	423.00	7711
110.95	5633	185.00	3205	259.95	476	423.90	1071
111.85	702	185.90	17776	260.65	218	425.00	147
112.85	264	186.90	4427	263.05	286	441.00	20216
113.90	226	188.00	638	265.00	1919	442.00	125280
116.10	1959	188.80	1401	265.80	206	442.90	22792
116.90	19456	190.25	549	270.90	176	443.90	2029
118.10	1709	190.85	410	271.60	154		

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

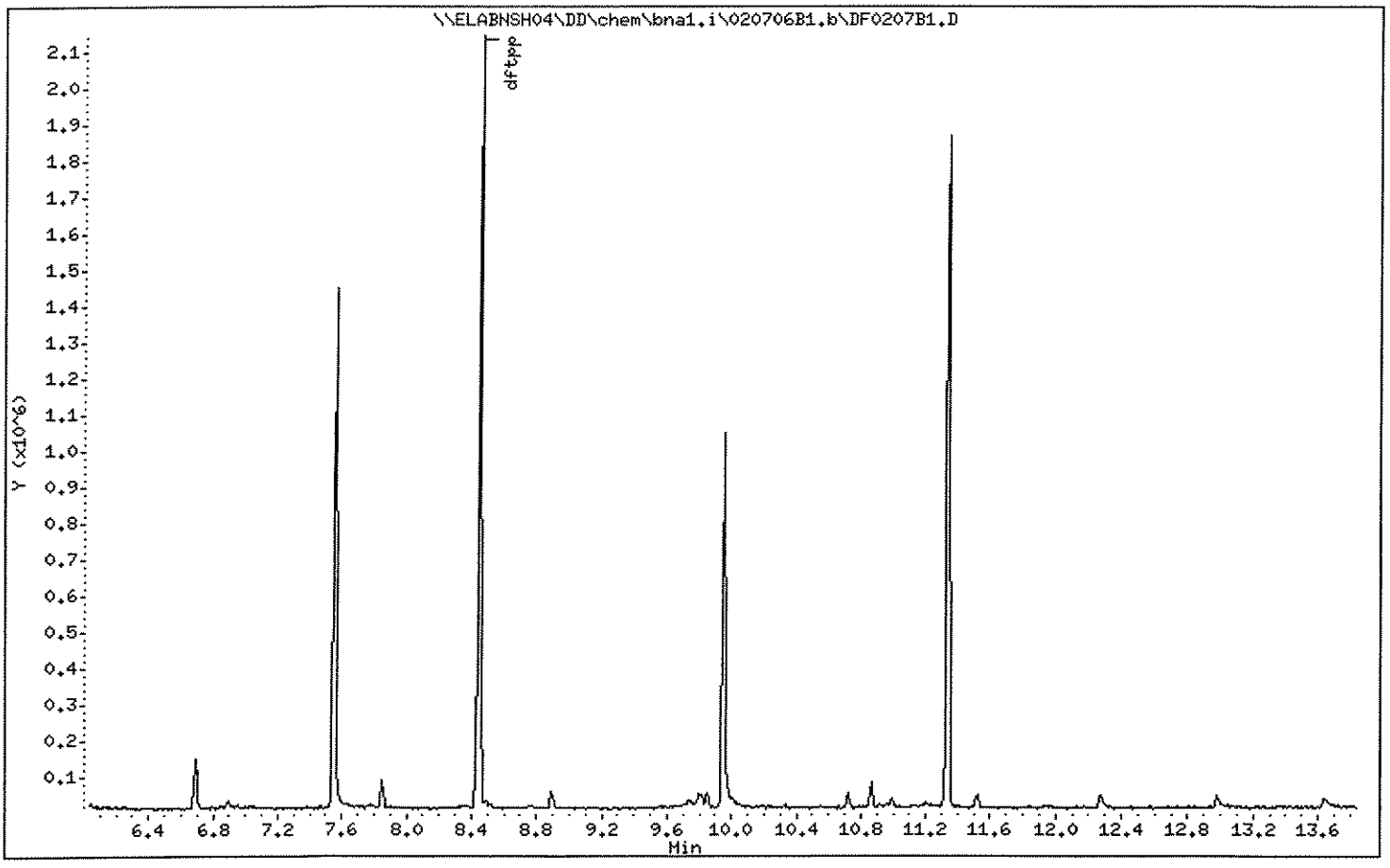
Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

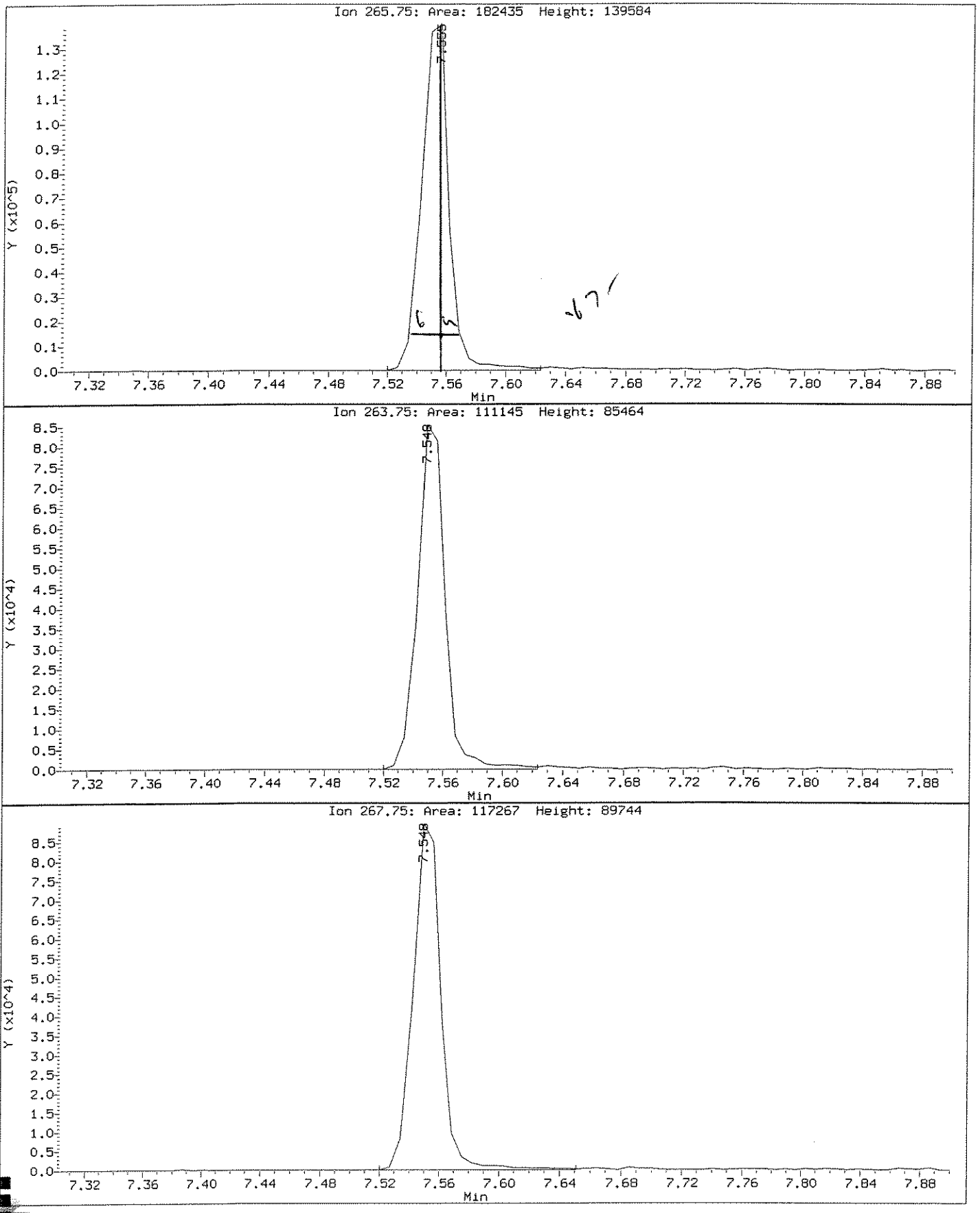
Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Injection Date: 07-FEB-2006 10:16
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

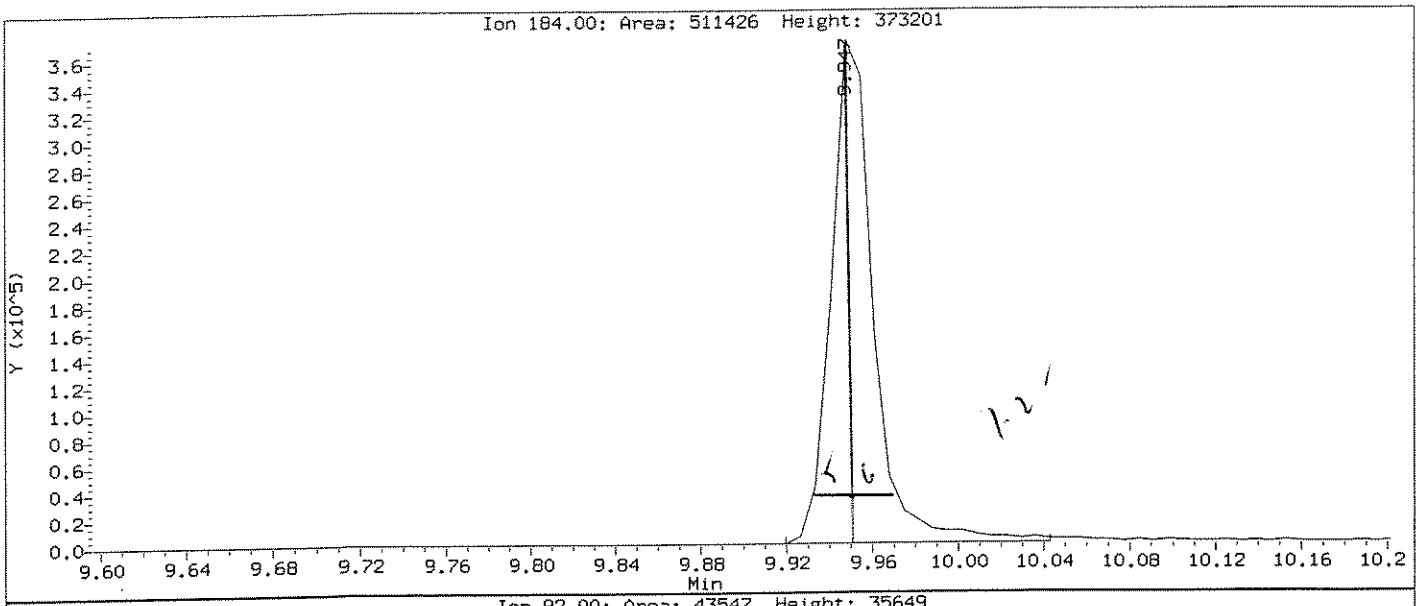
Compound: Pentachlorophenol
CAS Number: 87-86-5

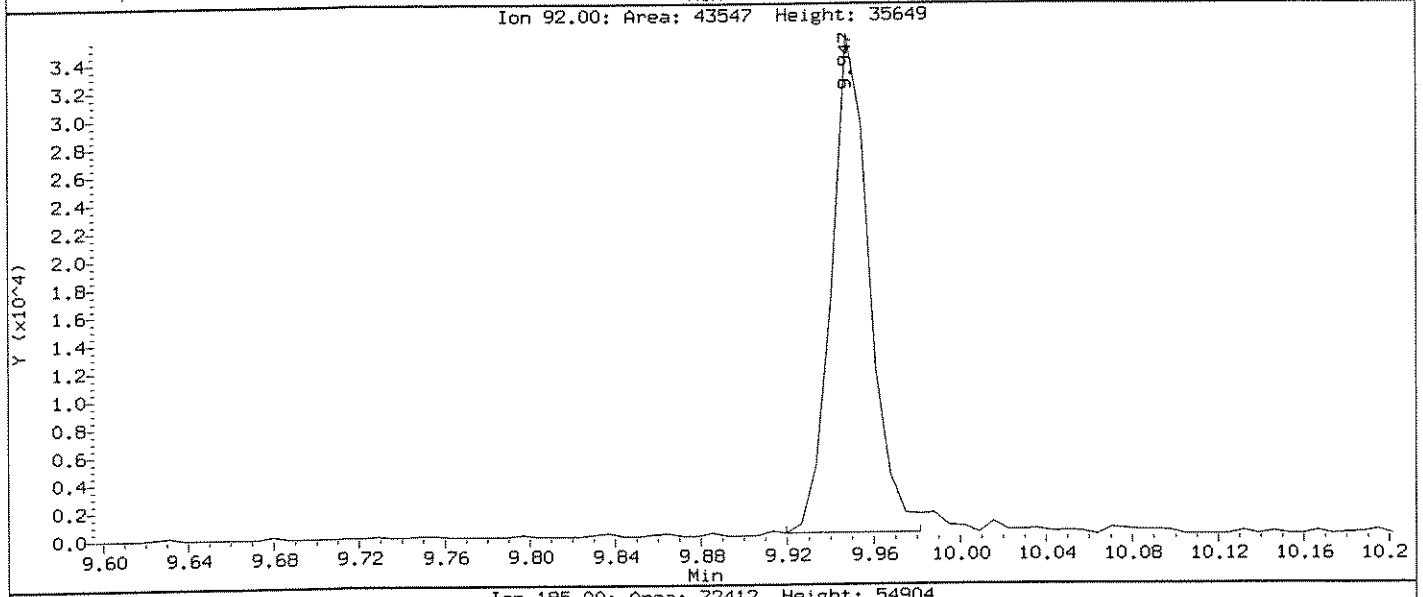


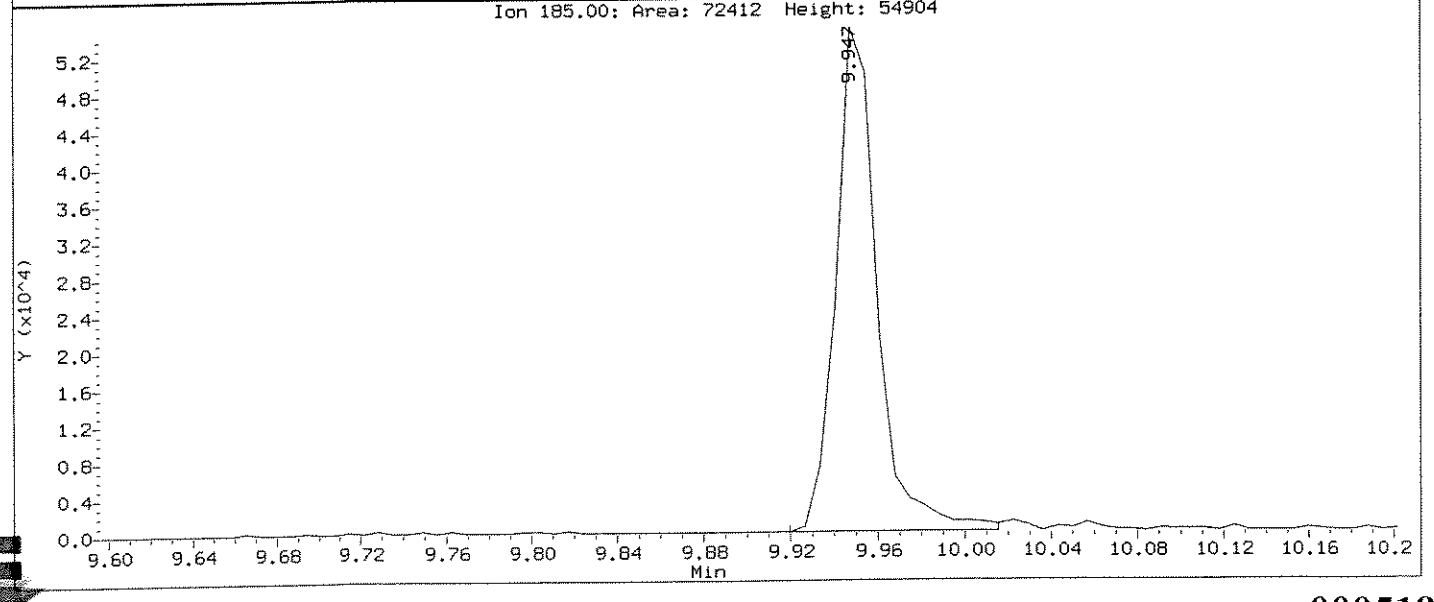
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Injection Date: 07-FEB-2006 10:16
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Report Date: 08-Feb-2006 09:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 07-FEB-2006 10:16
Operator : sdb Inst ID: bna1.i
Smp Info : DF0207B1;;;;;SV3361
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\dftppbn1ex.m
Meth Date : 30-Jan-2006 07:42 amonteiro Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)
1 Pentachlorophenol	266	7.554	7.600	-0.046	182435		
2 Benzidine	184	9.947	9.900	0.047	511426		
4 4,4'-DDD	235	10.864	10.800	0.064	12896		
5 4,4'-DDT	235	11.340	11.300	0.040	393663		

DDT breakdown = 12896 / 406559 = 3.2% DDT breakdown < 20% ✓

PM 9/16

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

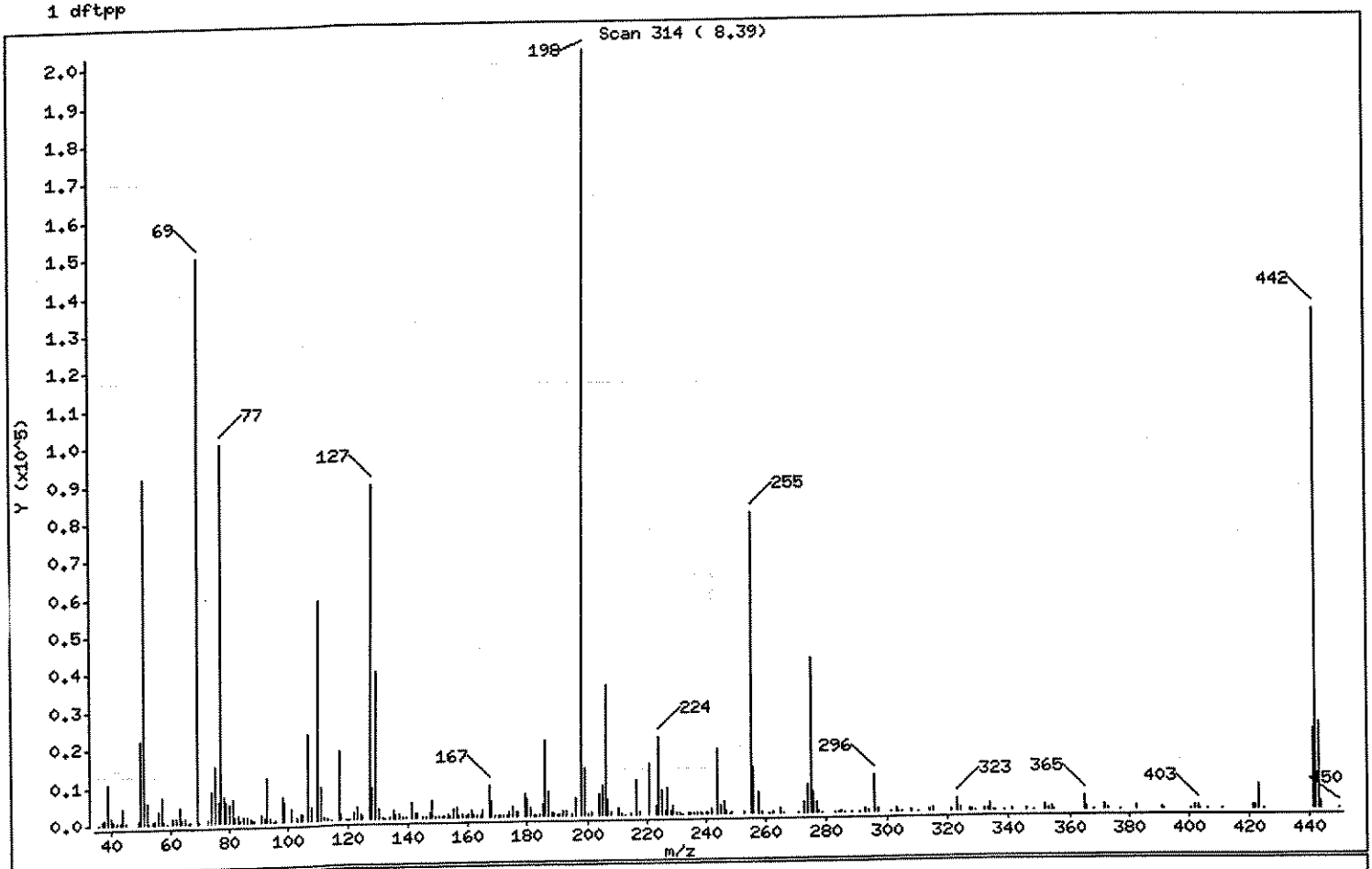
Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.19
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	74.01
70	Less than 2.00% of mass 69	0.15 (0.21)
127	40.00 - 60.00% of mass 198	43.74
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.31
275	10.00 - 30.00% of mass 198	20.18
365	Greater than 1.00% of mass 198	1.79
441	Present, but less than mass 443	10.26
442	Greater than 40.00% of mass 198	65.34
443	17.00 - 23.00% of mass 442	11.26 (17.24)

4/20/06

MS/MSC

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	154	117.00	18368	186.90	6565	276.85	2645
37.00	723	117.80	1314	187.90	896	277.75	492
38.05	1401	119.20	197	188.85	794	278.85	156
39.05	10590	119.90	214	190.15	286	282.95	230
40.05	1902	120.80	210	190.85	678	283.95	179
41.05	826	121.90	1803	191.95	1553	284.65	407
41.85	298	123.00	3242	192.95	1629	286.20	151
43.15	471	124.05	1191	194.85	379	288.70	111
44.05	4365	124.95	999	195.95	4884	290.70	117
45.05	376	126.95	88776	197.95	202944	292.90	856
49.10	786	128.05	8332	198.85	12801	293.80	279
50.10	21760	128.95	39088	200.00	372	295.95	9617
51.10	91712	129.95	2746	201.20	823	296.85	1078
52.10	5841	131.15	321	204.00	5539	300.85	143
53.00	141	132.25	155	205.00	8015	302.95	1115
54.00	235	132.75	187	206.00	34400	303.75	203
55.00	842	133.85	563	207.00	4033	304.95	182
56.00	3307	135.00	2562	207.90	916	307.70	270
57.00	6940	135.90	910	210.75	1809	310.00	163
57.90	391	136.90	1314	211.95	290	313.90	305
59.00	166	137.80	309	212.75	166	314.90	845
61.05	1334	139.30	324	214.85	447	320.95	360
62.05	1502	141.00	4184	216.85	9152	322.95	3481
63.05	4161	142.00	1581	217.95	980	323.95	702
63.95	791	142.90	1228	221.00	13486	326.95	500
65.05	1620	144.90	234	223.10	2216	327.85	257
65.95	129	145.95	498	224.00	20664	328.70	102
67.05	260	147.05	1405	224.90	6547	331.80	307
68.95	150208	147.95	4643	226.00	1054	332.90	266
70.00	314	148.95	585	226.90	7056	333.90	1639
73.00	726	149.95	280	228.00	1122	335.10	202
74.00	8447	151.05	463	228.90	2397	335.80	196
75.00	15008	151.55	503	229.90	390	338.80	180
76.20	5712	152.05	415	230.80	473	340.95	413
77.00	100576	152.95	996	231.65	154	345.85	370

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	7056	153.95	636	232.55	170	348.45	105
79.00	5792	154.95	2349	233.85	274	351.90	1405
80.00	4464	155.95	2706	234.85	610	352.90	404
81.05	6022	156.90	672	235.75	436	354.00	1091
82.05	1530	157.90	873	236.85	354	354.90	111
83.05	1841	159.00	606	238.05	237	364.85	3632
83.75	249	159.90	1129	238.65	156	365.85	745
84.95	1489	161.00	1664	239.15	114	368.35	110
85.95	1436	161.80	812	239.85	269	371.90	1334
87.05	818	162.70	410	240.95	421	372.90	336
87.85	364	164.00	382	241.95	1516	377.30	102
88.75	236	164.90	1891	244.00	17488	382.85	745
90.95	1659	166.95	8194	245.00	2158	390.95	287
92.00	1084	167.85	4102	245.90	3187	391.75	205
93.00	11628	168.95	573	246.90	741	400.90	162
93.90	826	169.95	446	247.90	228	401.90	781
94.90	124	170.85	308	248.70	697	402.90	845
96.00	349	171.95	583	252.95	280	403.95	191
98.00	6657	173.15	699	254.95	80080	405.95	143
98.90	4911	173.95	1534	255.95	11952	410.75	128
101.00	3124	174.95	2950	257.85	5508	421.00	804
103.15	910	175.95	1194	258.85	513	421.90	1064
104.05	2102	176.85	1355	261.05	206	422.90	6620
104.95	1994	179.00	5989	262.75	252	424.70	111
106.95	22736	180.00	4604	264.80	1634	441.00	20832
107.95	3812	181.00	2308	266.00	146	441.90	132608
109.95	58608	181.90	411	270.80	193	442.90	22856
110.95	8684	183.00	292	273.00	2809	443.90	2053
111.95	1154	184.10	378	273.90	7711	449.85	138
113.10	388	185.00	3403	274.95	40944		
114.50	192	186.00	19888	275.95	5776		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

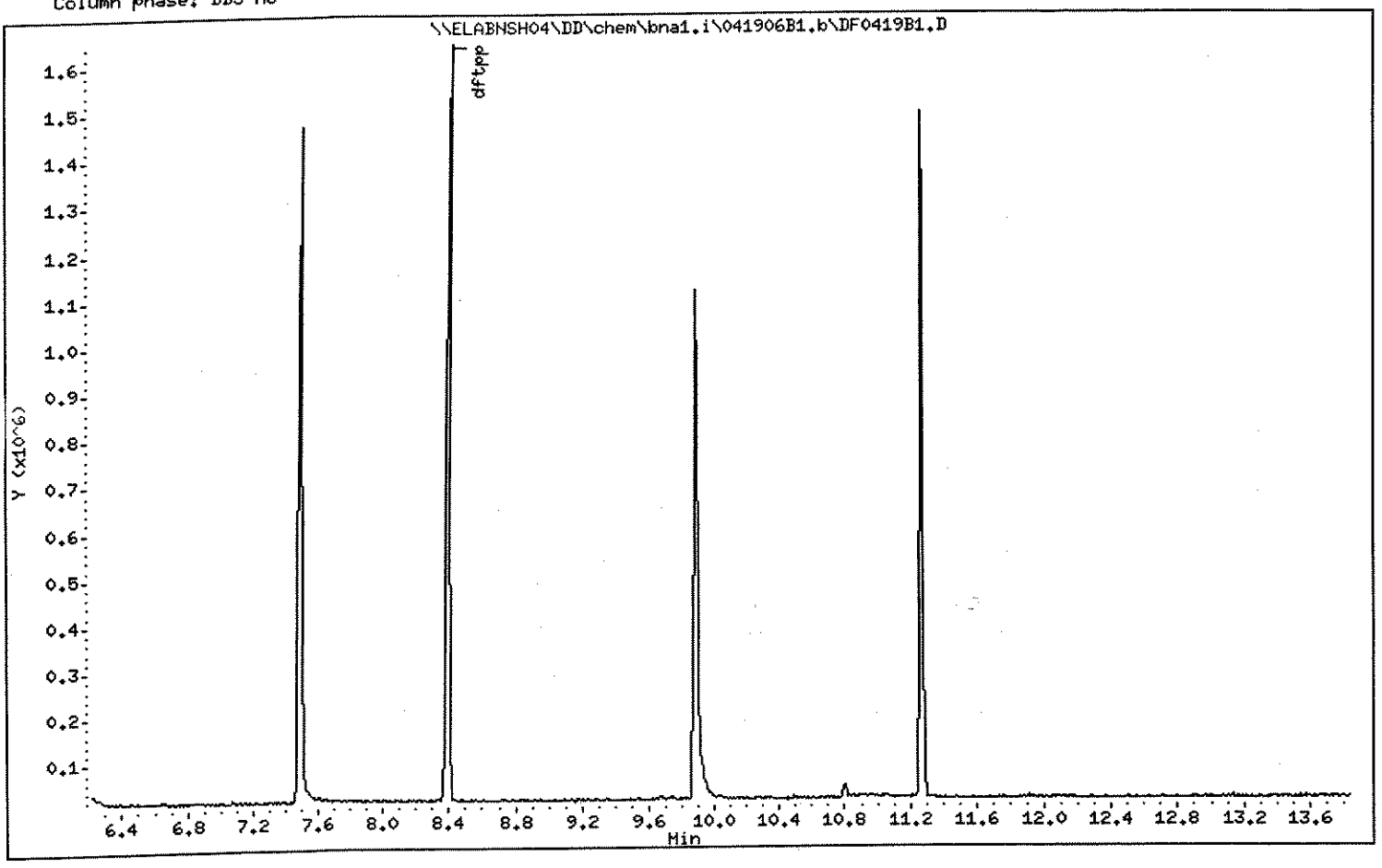
Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

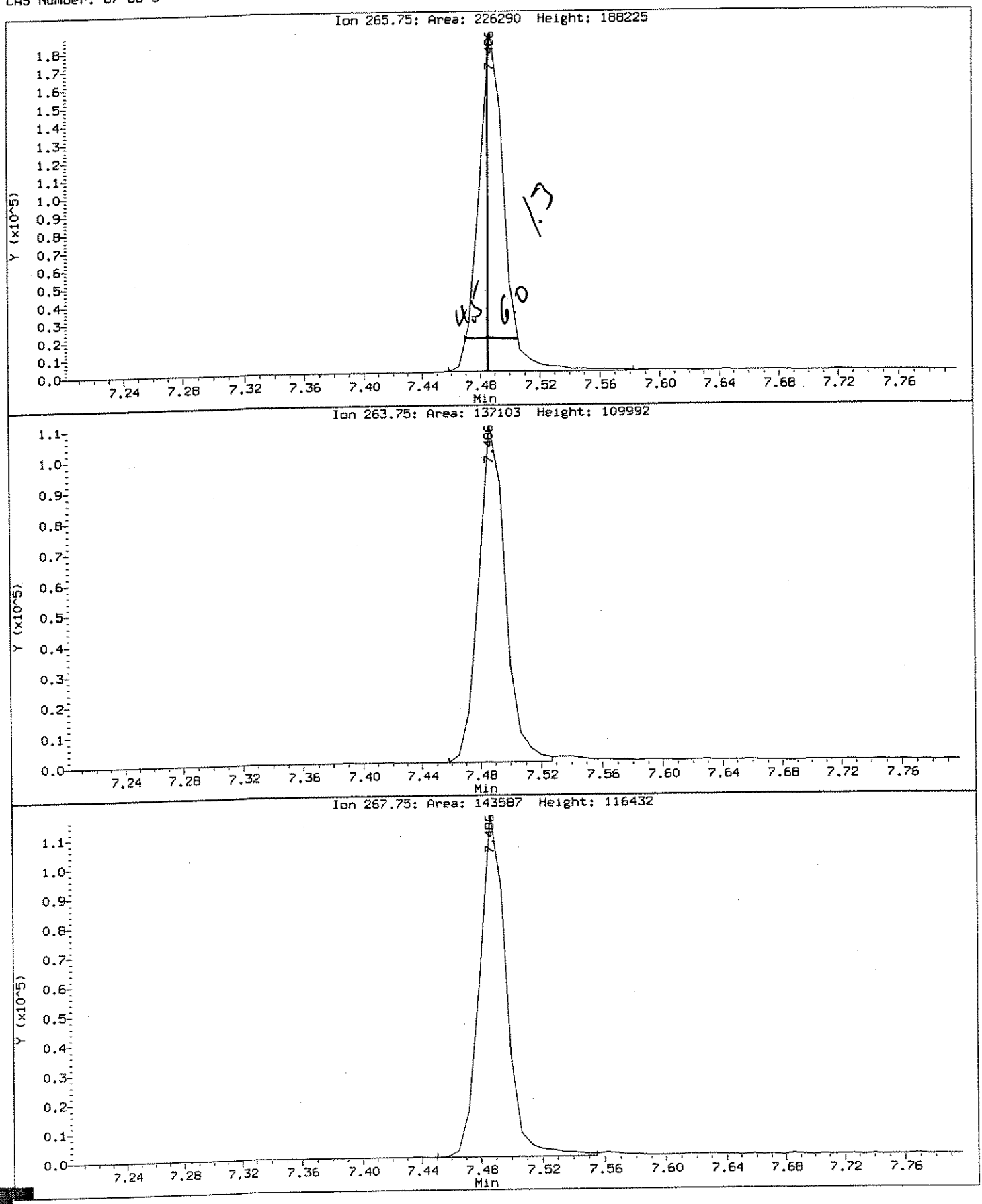
Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

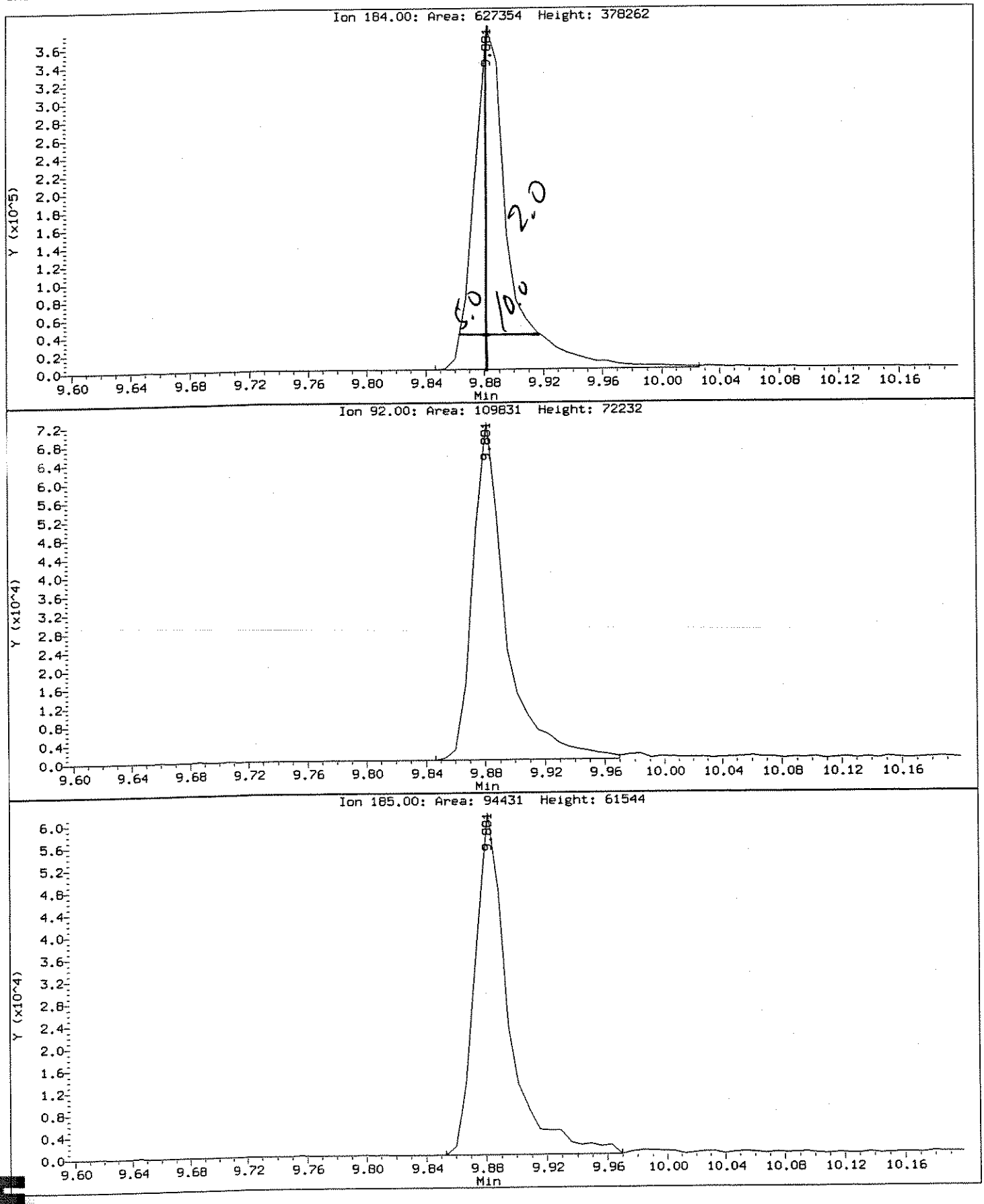
Compound: Pentachlorophenol
CAS Number: 87-86-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Report Date: 20-Apr-2006 14:22

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 19-APR-2006 15:30
Operator : ADM Inst ID: bna1.i
Smp Info : DF0419B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\dftppbn1ex.m
Meth Date : 17-Apr-2006 15:31 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	7.485	7.500	-0.015	226290			
2 Benzidine	184	9.880	9.900	-0.020	627354			(Q)
4 4,4'-DDD	235	10.800	10.800	0.000	7101			
5 4,4'-DDT	235	11.271	11.300	-0.029	331693			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

4,4'-DDT Breakdown = 7101 / (7101 + 331693) x 100 = 2.1%

5/20/06

ng/ul

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

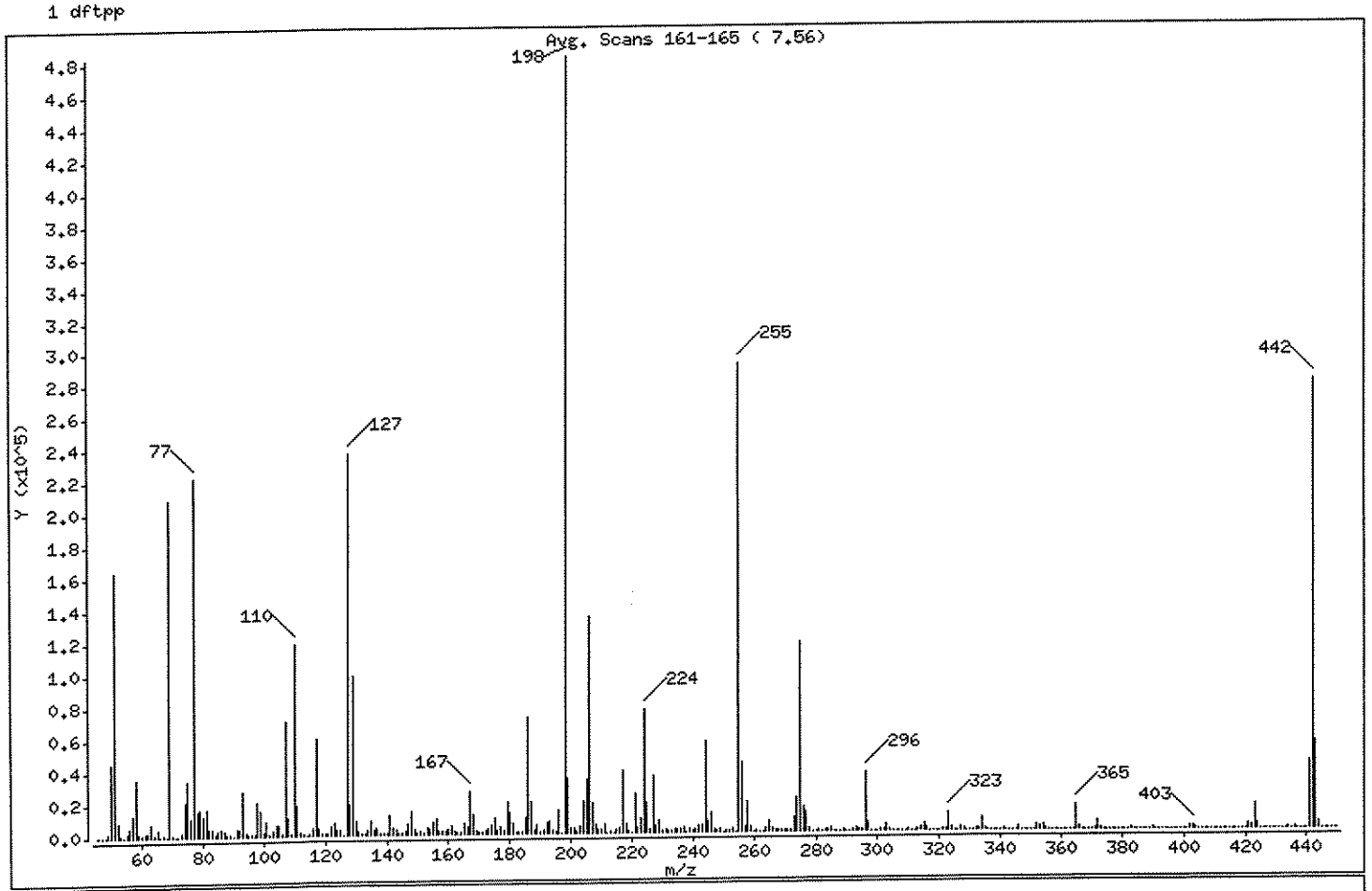
Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.09
68	Less than 2.00% of mass 69	0.05 (0.12)
69	Mass 69 relative abundance	43.24
70	Less than 2.00% of mass 69	0.33 (0.76)
127	40.00 - 60.00% of mass 198	49.03
197	Less than 1.00% of mass 198	0.04
199	5.00 - 9.00% of mass 198	7.08
275	10.00 - 30.00% of mass 198	24.47
365	Greater than 1.00% of mass 198	3.24
441	Present, but less than mass 443	8.75
442	Greater than 40.00% of mass 198	57.88
443	17.00 - 23.00% of mass 442	11.21 (19.36)

4/22/06

10412306

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	407	147.00	6498	249.00	1811	351.00	189
46.00	220	148.00	14562	250.00	373	352.00	2909
47.00	307	149.00	3024	251.00	924	353.00	1935
48.00	337	150.00	1001	252.00	1106	354.00	3210
49.00	1818	151.00	1860	253.00	2013	355.00	676
50.00	45616	152.00	1247	254.00	117	356.00	99
51.00	164672	153.00	4466	255.00	292160	357.00	83
52.00	8555	154.00	3633	256.00	43256	358.00	60
53.00	1462	155.00	7980	257.00	3090	359.00	407
54.00	508	156.00	10555	258.00	18672	360.00	130
55.00	2545	157.00	2283	259.00	2920	361.00	235
56.00	5449	158.00	2424	260.00	393	362.00	80
57.00	13015	159.00	2048	261.00	601	363.00	104
58.00	35320	160.00	3776	262.00	177	364.00	108
59.00	1715	161.00	6105	263.00	156	365.00	15658
60.00	682	162.00	2053	264.00	1703	366.00	1910
61.00	2635	163.00	891	265.00	7148	367.00	199
62.00	2576	164.00	1010	266.00	2659	368.00	61
63.00	7987	165.00	6396	267.00	645	369.00	47
64.00	1335	166.00	4023	268.00	1464	370.00	401
65.00	4027	167.00	26456	269.00	624	371.00	919
66.00	387	168.00	12742	270.00	863	372.00	5045
67.00	802	169.00	2343	271.00	885	373.00	1309
68.00	249	170.00	978	272.00	1483	374.00	163
69.00	208896	171.00	1360	273.00	8555	375.00	62
70.00	1579	172.00	2294	274.00	21160	376.00	60
71.00	524	173.00	3585	275.00	118208	377.00	377
72.00	372	174.00	5775	276.00	15980	378.00	86
73.00	2476	175.00	10261	277.00	11948	379.00	54
74.00	21592	176.00	2782	278.00	1809	380.00	10
75.00	34432	177.00	4841	279.00	326	381.00	56
76.00	11196	178.00	1919	280.00	166	382.00	15
77.00	222336	179.00	19672	281.00	704	383.00	1295
78.00	15033	180.00	13169	282.00	484	384.00	365
79.00	16624	181.00	7014	283.00	1607	385.00	146

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	12503	182.00	1168	284.00	791	386.00	63
81.00	17088	183.00	879	285.00	1959	387.00	124
82.00	4263	184.00	1464	286.00	545	388.00	89
83.00	4293	185.00	10039	287.00	183	389.00	157
84.00	949	186.00	71840	288.00	145	390.00	676
85.00	3459	187.00	19992	289.00	579	391.00	439
86.00	4815	188.00	2425	290.00	414	392.00	369
87.00	3024	189.00	5352	291.00	296	393.00	259
88.00	1055	190.00	1027	292.00	776	394.00	44
89.00	817	191.00	2767	293.00	2411	395.00	103
90.00	194	192.00	7043	294.00	670	396.00	58
91.00	4277	193.00	7798	295.00	1210	397.00	136
92.00	4413	194.00	1728	296.00	36264	398.00	54
93.00	27384	195.00	1570	297.00	5374	399.00	13
94.00	2133	196.00	14343	298.00	397	400.00	25
95.00	1492	197.00	181	299.00	160	401.00	348
96.00	1646	198.00	483072	300.00	146	402.00	1964
97.00	932	199.00	34208	301.00	778	403.00	2662
98.00	20968	200.00	2947	302.00	750	404.00	967
99.00	15993	201.00	3849	303.00	4586	405.00	179
100.00	2289	202.00	674	304.00	1125	406.00	48
101.00	9383	203.00	4373	305.00	268	407.00	33
102.00	804	204.00	20360	306.00	28	408.00	80
103.00	3527	205.00	33664	307.00	85	409.00	53
104.00	6557	206.00	134784	308.00	504	410.00	200
105.00	6223	207.00	19064	309.00	492	411.00	79
106.00	1181	208.00	5121	310.00	742	412.00	54
107.00	71768	209.00	1949	311.00	236	413.00	87
108.00	10894	210.00	2633	312.00	155	414.00	69
109.00	873	211.00	5656	313.00	558	415.00	206
110.00	119376	212.00	73	314.00	1694	416.00	116
111.00	18496	213.00	582	315.00	4052	417.00	123
112.00	2565	214.00	257	316.00	2511	418.00	117
113.00	963	215.00	1725	317.00	418	419.00	196
114.00	404	216.00	3354	318.00	106	420.00	71

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	828	217.00	38936	319.00	171	421.00	2794
116.00	4307	218.00	5228	320.00	175	422.00	2215
117.00	60544	219.00	599	321.00	1264	423.00	15940
118.00	4678	220.00	79	322.00	688	424.00	2968
119.00	1070	221.00	25016	323.00	11088	425.00	356
120.00	1327	222.00	2799	324.00	2091	426.00	203
121.00	680	223.00	8402	325.00	279	427.00	213
122.00	5220	224.00	76744	326.00	372	428.00	193
123.00	7639	225.00	19192	327.00	1735	429.00	232
124.00	3766	226.00	1998	328.00	1351	430.00	187
125.00	3229	227.00	35432	329.00	317	431.00	390
126.00	88	228.00	4956	330.00	56	432.00	450
127.00	236864	229.00	7347	331.00	122	433.00	300
128.00	19336	230.00	1218	332.00	791	434.00	687
129.00	99104	231.00	2742	333.00	1181	435.00	135
130.00	8870	232.00	769	334.00	7843	436.00	1008
131.00	2332	233.00	800	335.00	1473	437.00	551
132.00	1369	234.00	2465	336.00	237	438.00	554
133.00	1139	235.00	2535	337.00	68	439.00	431
134.00	3457	236.00	1728	338.00	98	440.00	24
135.00	9254	237.00	2819	339.00	212	441.00	42248
136.00	2956	238.00	501	340.00	233	442.00	279616
137.00	3939	239.00	1855	341.00	1371	443.00	54144
138.00	1053	240.00	1375	342.00	405	444.00	4554
139.00	755	241.00	2345	343.00	172	445.00	328
140.00	1509	242.00	4305	344.00	78	446.00	68
141.00	12792	243.00	4434	345.00	105	447.00	70
142.00	4240	244.00	56984	346.00	2139	448.00	18
143.00	3538	245.00	7193	347.00	472	449.00	25
144.00	907	246.00	12419	348.00	86	450.00	13
145.00	748	247.00	2599	349.00	53		
146.00	2421	248.00	623	350.00	128		

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

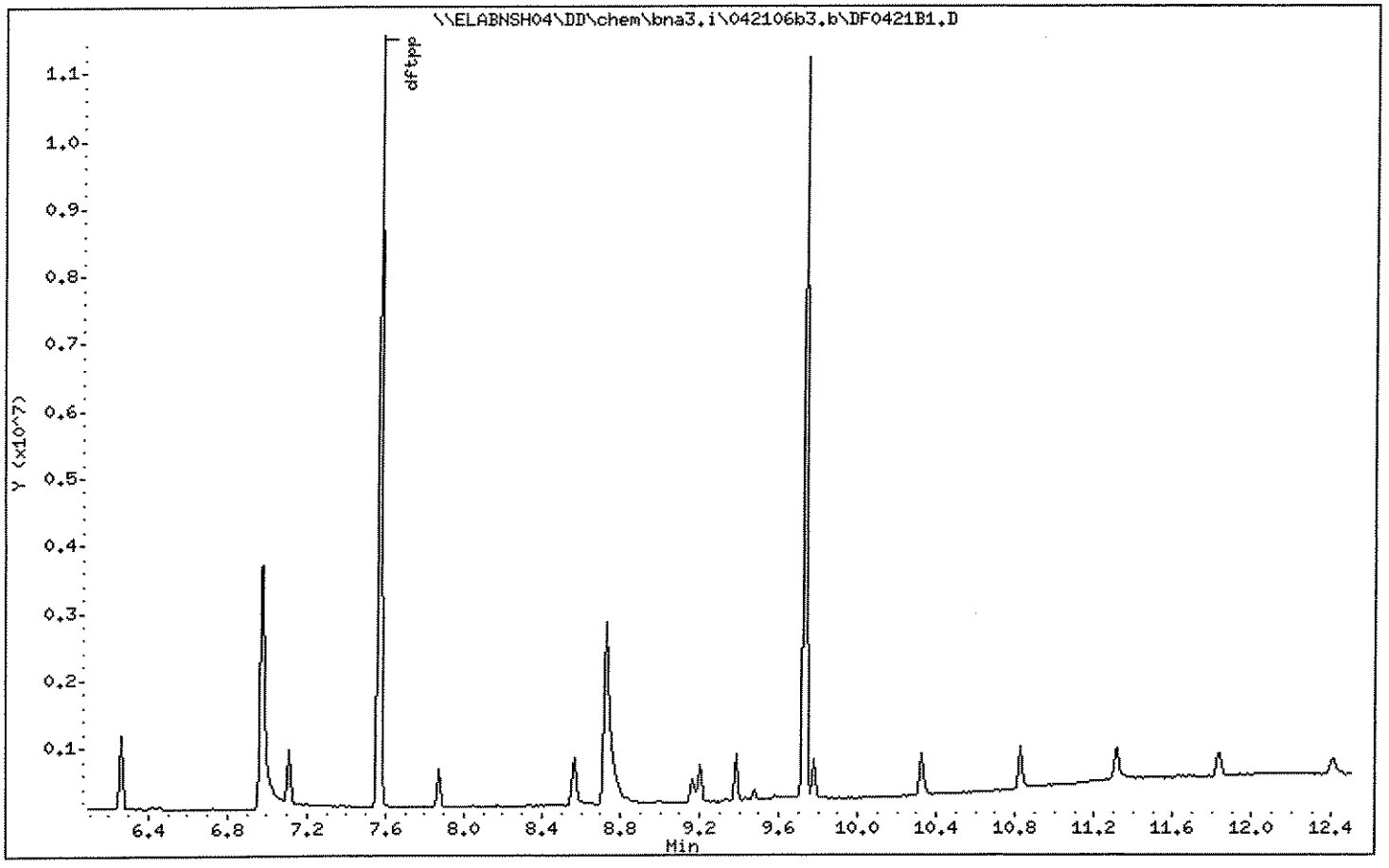
Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

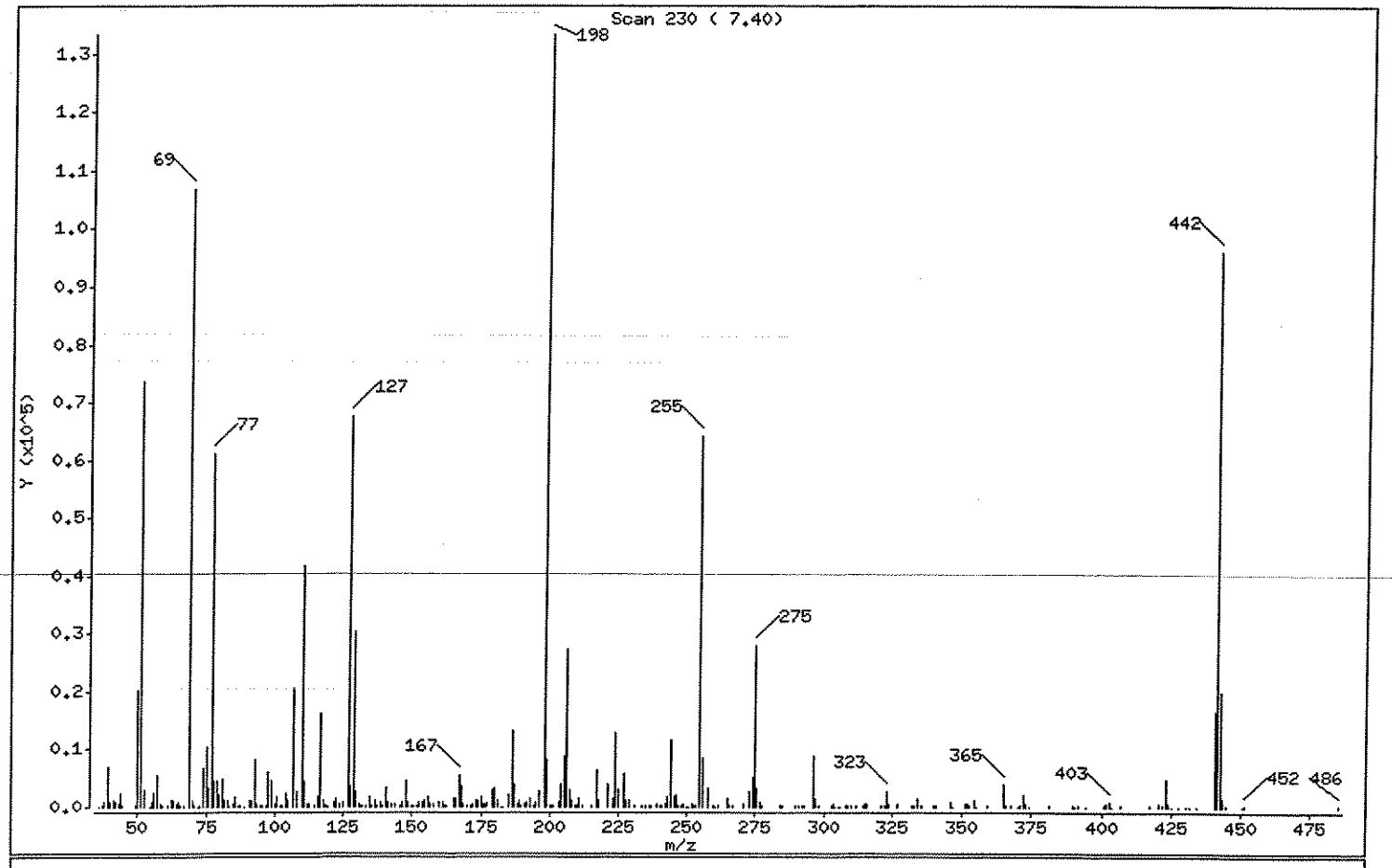
Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	55.37
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	80.30
70	Less than 2.00% of mass 69	1.03 (1.28)
127	40.00 - 60.00% of mass 198	50.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 30.00% of mass 198	21.04
365	Greater than 1.00% of mass 198	3.07
441	Present, but less than mass 443	12.39
442	Greater than 40.00% of mass 198	72.04
443	17.00 - 23.00% of mass 442	15.04 (20.87)

7/11/06

7/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.60	115	118.00	1218	194.80	860	297.80	323
37.05	360	118.80	161	195.90	2723	302.20	297
37.95	950	119.10	161	197.90	133312	302.90	531
39.05	6979	119.85	135	198.90	8356	304.10	129
39.95	854	122.15	1026	199.90	318	305.30	116
41.05	1287	122.85	1549	200.90	313	306.00	122
42.05	813	123.95	626	201.60	169	307.65	258
43.05	512	124.95	1006	203.10	1042	308.65	238
43.95	2497	126.95	67680	204.05	4034	309.55	282
44.75	321	127.85	3759	205.05	8781	311.55	211
48.80	352	128.95	30520	205.95	27440	314.05	411
50.00	20216	129.95	2901	207.05	3215	314.75	732
51.00	73816	130.90	568	207.85	1199	315.75	729
52.00	3028	131.80	338	209.05	333	320.70	354
54.10	109	132.40	302	209.95	169	321.90	277
55.00	911	133.90	425	210.85	1428	322.90	2731
55.90	2322	135.00	1810	211.85	157	323.70	717
56.90	5387	135.60	215	215.00	262	326.80	465
58.15	464	137.00	1188	216.90	6602	332.05	314
59.05	412	137.90	380	217.80	1241	332.85	340
61.05	398	138.80	821	220.90	3911	333.85	1445
61.85	1356	139.70	218	222.80	1680	335.55	160
62.95	1279	140.95	3280	223.90	12838	339.90	267
64.05	560	141.85	920	224.95	3179	340.80	175
64.95	941	142.95	675	226.85	5809	346.00	857
65.65	300	144.05	584	227.95	1109	346.80	151
66.75	158	146.05	313	228.85	1233	350.95	727
68.90	107048	146.75	1062	230.85	425	351.95	512
69.90	1368	147.95	4554	233.65	408	352.55	354
70.90	154	149.05	956	234.80	322	354.05	1092
72.00	119	149.85	246	235.90	297	355.25	132
73.00	414	150.95	389	236.90	419	358.75	315
74.00	6713	151.90	191	239.00	508	364.80	4092
75.00	10361	152.90	972	239.80	154	365.80	330
76.10	3234	154.10	1045	240.90	433	367.50	163

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	61208	154.90	1373	241.90	607	370.05	126
78.00	4567	155.90	1960	243.00	1903	370.75	420
78.95	4567	156.90	531	243.90	11629	371.95	2007
79.95	2276	157.80	483	245.05	1989	372.85	592
80.95	5066	159.70	871	245.85	2236	374.05	147
81.95	1307	161.00	984	246.75	395	381.30	161
82.95	1225	161.95	448	247.85	168	390.00	258
83.65	122	162.95	371	248.75	495	390.50	146
84.85	617	165.05	1485	249.65	112	392.05	273
85.85	1794	165.95	1499	250.85	110	394.65	123
86.95	347	166.95	5418	251.85	574	400.85	332
88.05	250	167.95	3738	252.45	280	401.90	558
88.90	127	168.75	652	253.05	374	402.90	906
90.90	1237	169.95	319	254.85	64096	403.70	121
92.00	1210	171.05	194	255.90	8590	407.00	227
92.90	8333	171.75	558	257.90	3318	417.25	189
94.00	578	173.00	1344	259.70	200	420.95	684
95.00	386	173.90	1106	260.70	130	421.75	432
95.70	202	175.00	1948	262.00	158	423.00	4982
96.70	397	175.60	582	264.90	1472	423.90	628
97.90	6280	176.30	727	265.75	227	425.60	132
98.90	4631	177.00	987	266.75	167	428.00	109
100.05	510	178.80	3179	270.95	666	430.60	100
100.85	1778	179.90	3261	272.85	2747	431.60	123
102.35	275	180.90	1229	273.95	5109	434.15	152
102.75	242	182.45	117	274.85	28048	440.95	16512
103.95	2412	182.95	115	275.85	3252	441.95	96040
104.85	1222	184.95	2223	276.90	920	443.00	20048
106.95	20552	185.95	13087	277.80	315	443.80	1645
107.85	2700	186.85	4023	283.90	322	444.70	161
110.00	41840	188.05	605	284.70	209	450.60	139
111.00	4478	188.85	1085	289.05	178	451.70	197
111.90	521	189.85	158	290.75	171	486.00	304
113.00	531	190.95	637	291.85	175		
115.00	192	191.85	953	292.75	386		

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	1858	193.00	1508	295.85	8854		
116.90	16293	194.00	309	296.75	1394		

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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

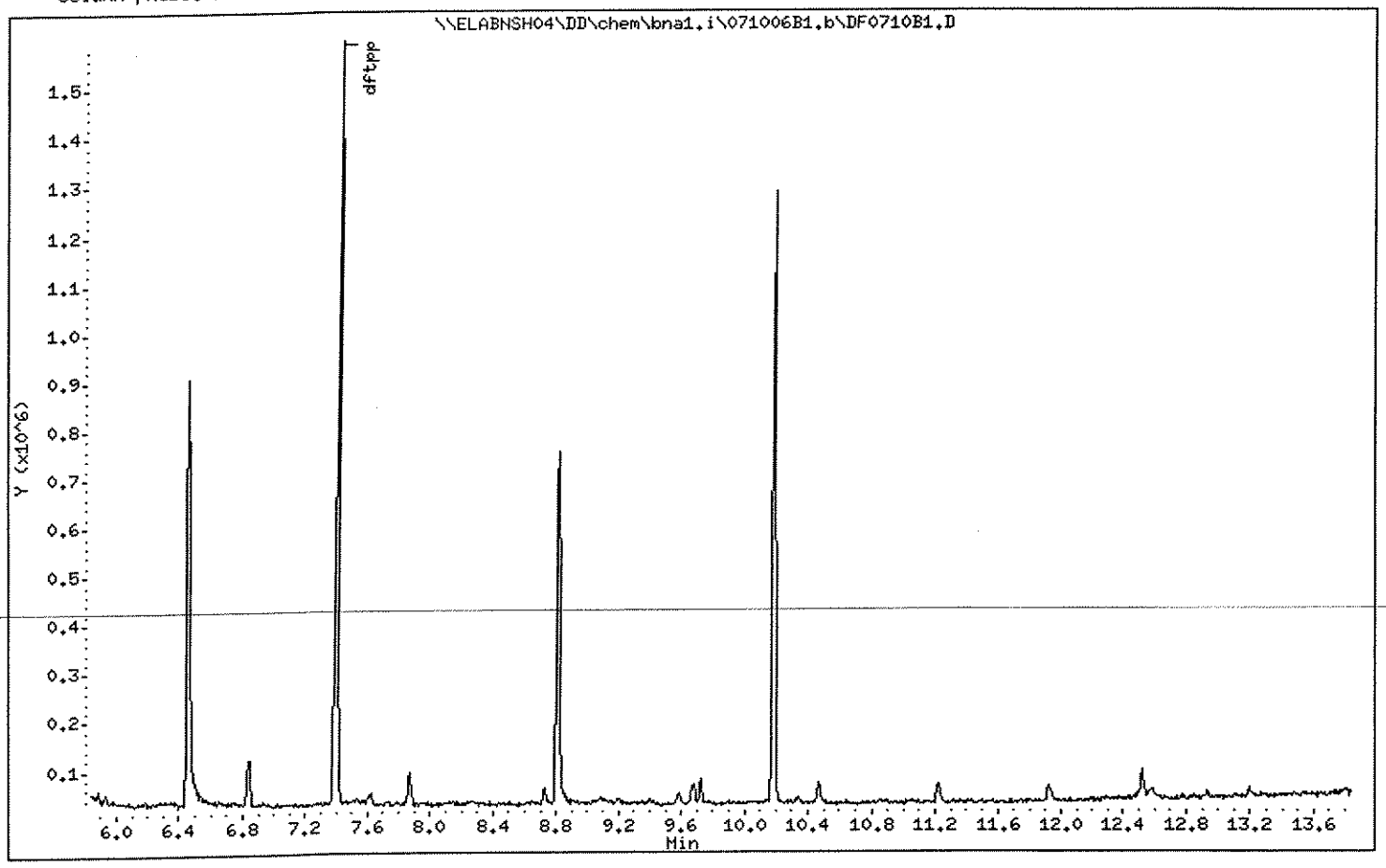
Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

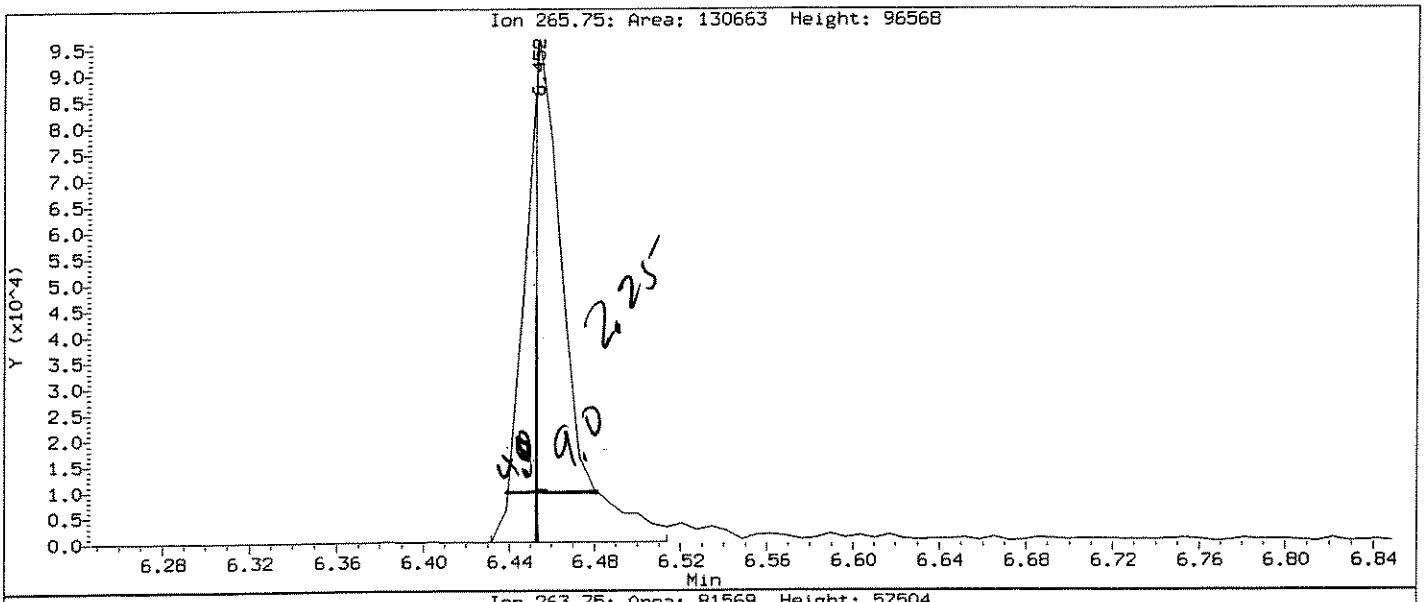
Column phase: DB5-MS

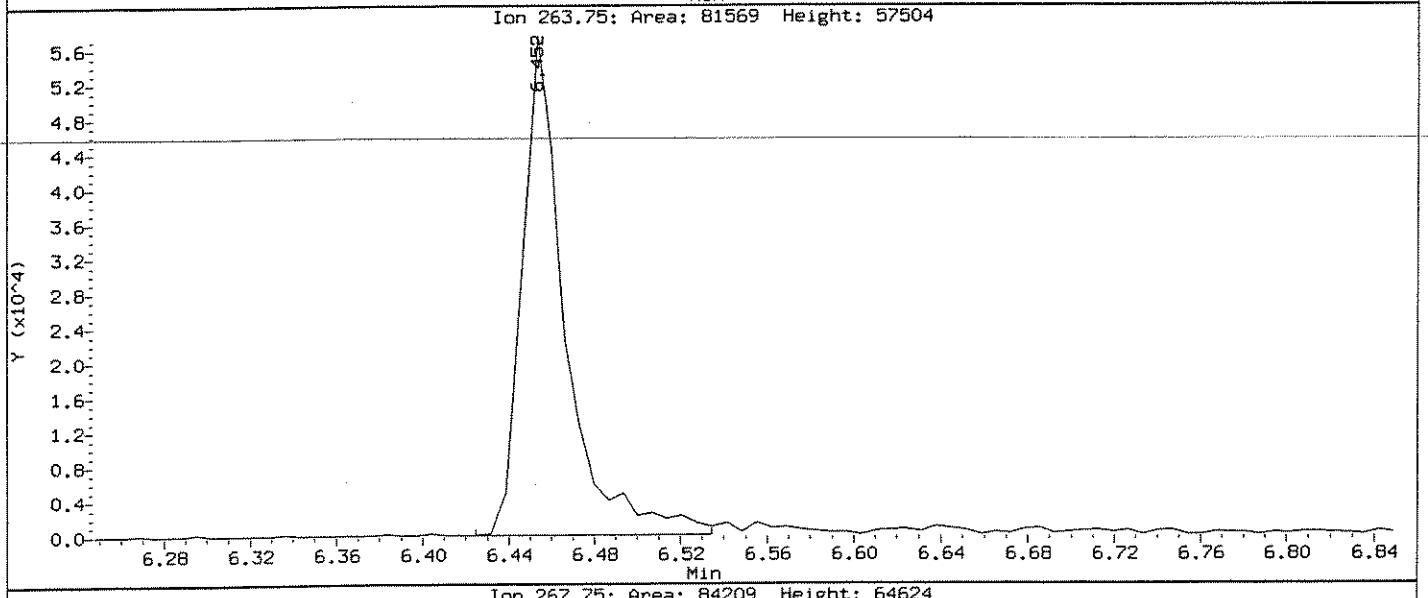
Column diameter: 0.25

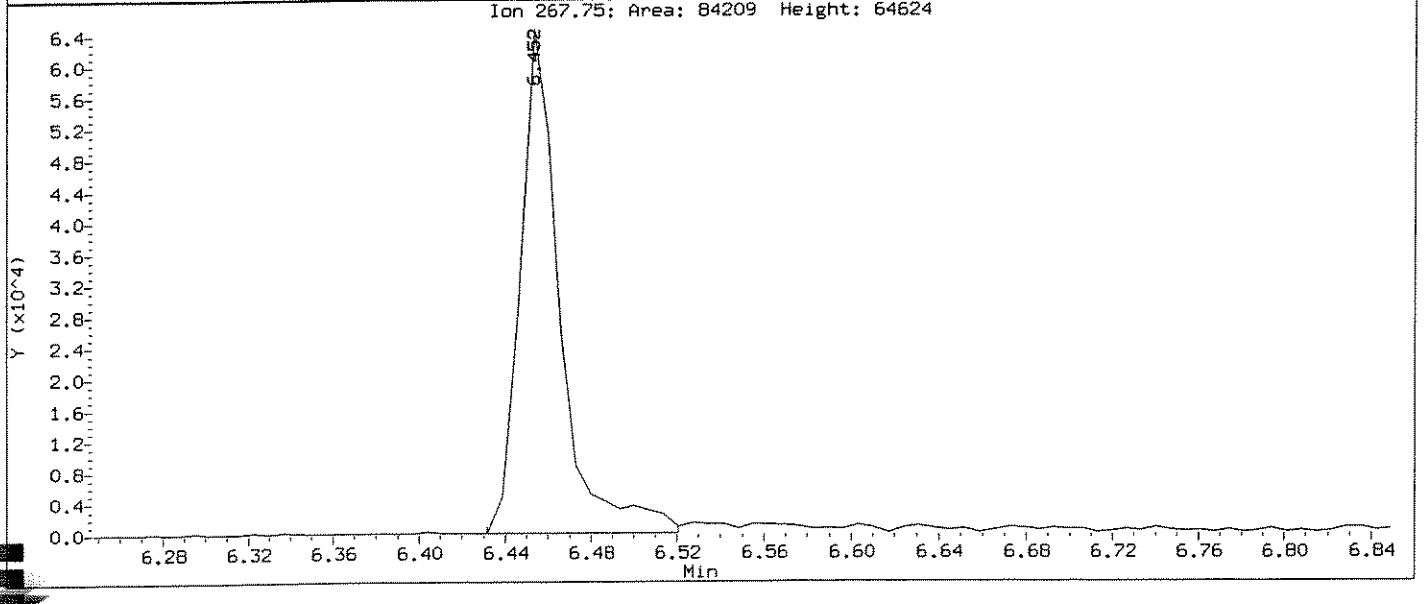


Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Injection Date: 10-JUL-2006 08:14
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



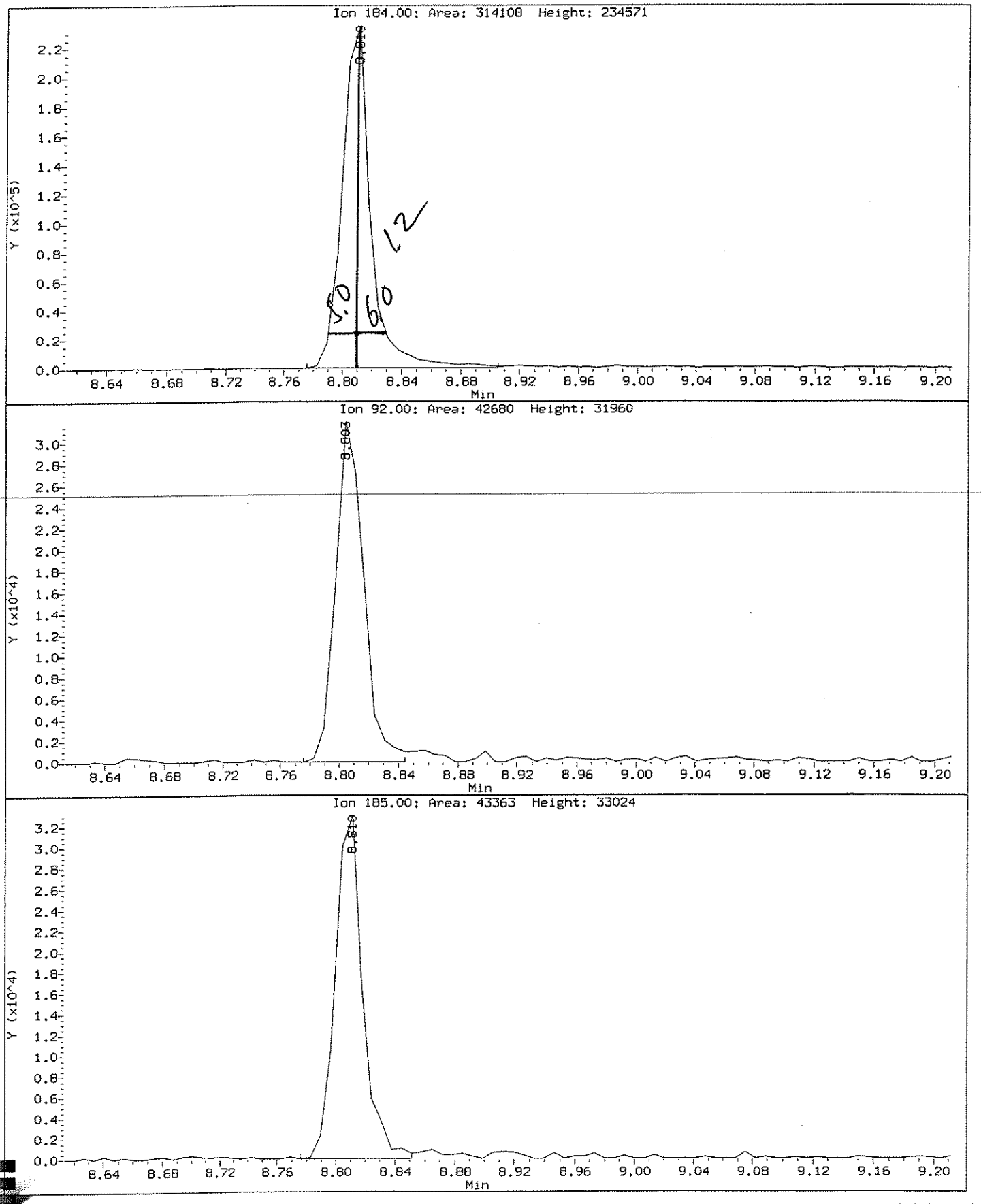




Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Injection Date: 10-JUL-2006 08:14
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Report Date: 11-Jul-2006 11:01

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 10-JUL-2006 08:14
Operator : SDB Inst ID: bna1.i
Smp Info : DF0710B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\dftppbn1ex.m
Meth Date : 06-Jul-2006 07:46 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.452	6.550	-0.098	130663			(H)
2 Benzidine	184	8.809	8.910	-0.101	314108			(QH)
4 4,4'-DDD	235	9.722	9.830	-0.108	9352			(H)
5 4,4'-DDT	235	10.184	10.290	-0.106	264426			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

4,4'-DDT Breakdown = $\frac{0+9352}{0+9352+264426} \times 100 = 3.4\%$

pf 7/11/06

pf 7/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

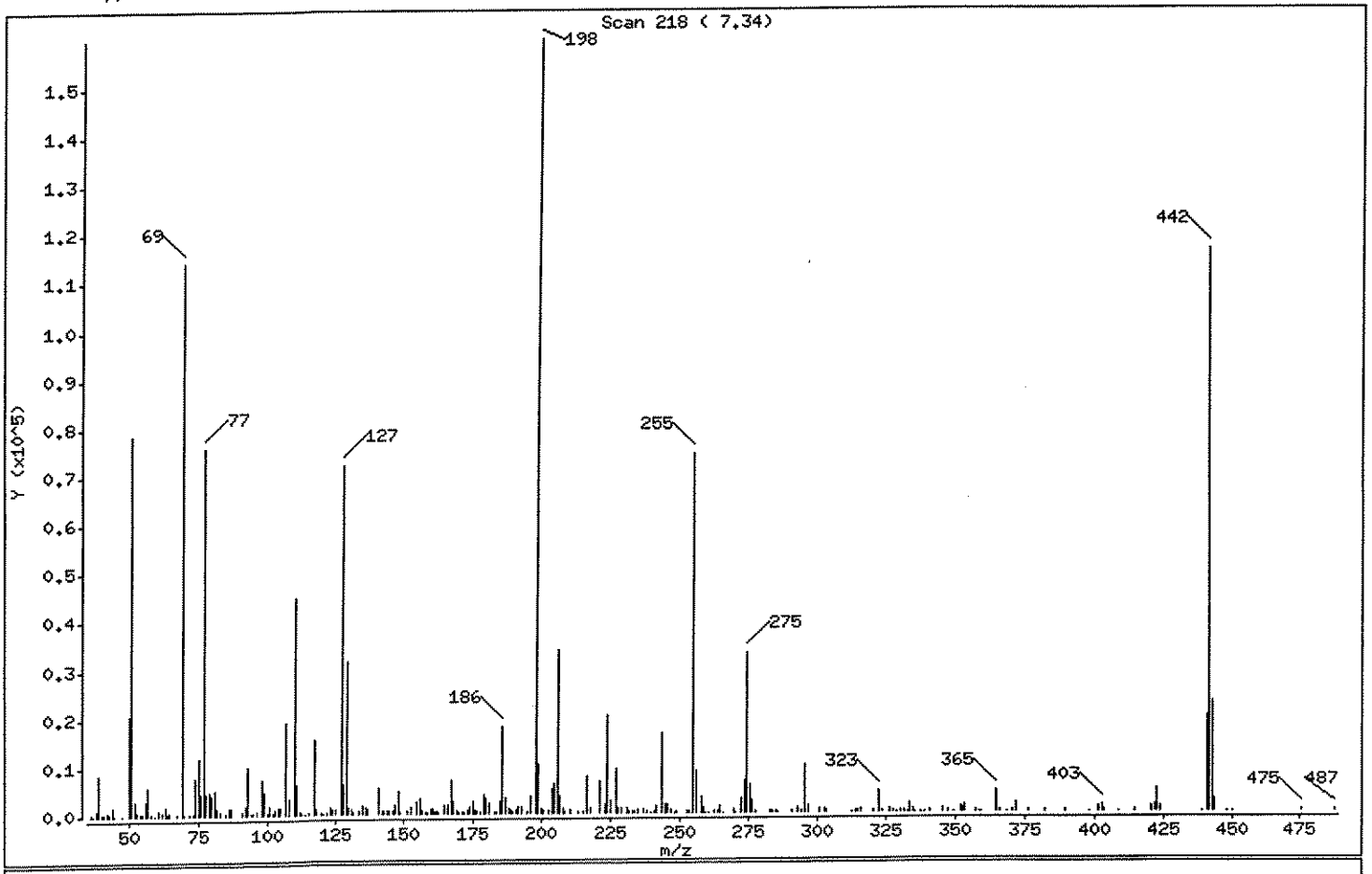
Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.15
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.46
70	Less than 2.00% of mass 69	0.29 (0.41)
127	40.00 - 60.00% of mass 198	45.18
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 30.00% of mass 198	20.83
365	Greater than 1.00% of mass 198	2.72
441	Present, but less than mass 443	12.44
442	Greater than 40.00% of mass 198	72.83
443	17.00 - 23.00% of mass 442	14.22 (19.53)

7/12/06

7/12/06

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0711B1.D
Spectrum: Scan 218 (7.34)
Location of Maximum: 197.90
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	428	116.90	15638	192.90	1611	290.75	208
37.15	154	117.80	1134	194.80	219	292.85	1152
37.95	984	119.85	262	195.90	3675	294.05	317
38.95	8333	120.75	132	197.90	159872	295.85	10024
40.05	538	122.05	343	198.80	10332	296.85	1485
40.65	296	122.95	1535	199.90	1166	301.10	582
42.05	777	123.75	1072	201.00	703	302.90	888
42.85	427	124.85	1000	202.80	657	303.80	191
44.05	1937	126.95	72232	203.95	5109	313.05	167
44.85	108	127.95	6125	204.95	6333	313.75	377
47.70	142	128.85	31792	205.95	33840	314.85	499
50.00	20496	129.85	1344	206.95	3654	315.95	592
51.00	78576	131.00	1032	207.85	1092	320.80	493
52.00	2810	131.90	202	208.75	425	322.80	4366
52.90	572	133.90	813	210.85	888	323.70	220
53.70	433	135.00	1926	213.35	430	326.80	813
54.80	373	136.10	1494	215.00	297	327.80	271
55.90	3011	136.90	1152	216.80	7585	329.05	147
56.90	5874	140.85	5479	218.10	997	330.35	225
58.25	435	141.95	857	220.90	6457	331.85	236
59.05	142	142.75	803	223.00	1767	332.85	155
60.85	935	144.05	686	223.90	20272	333.85	1937
62.05	737	144.85	622	224.95	2483	334.85	722
62.95	1886	145.95	693	226.85	9102	335.45	132
63.95	391	146.95	1960	227.85	1052	337.45	184
64.75	779	147.95	4858	228.85	1188	339.00	145
66.95	401	148.75	548	230.85	935	340.80	253
69.00	114248	151.10	742	231.75	371	345.90	749
69.80	467	152.90	1394	233.25	409	347.70	282
71.80	242	155.00	2638	233.95	299	349.65	103
72.80	403	155.90	3337	234.90	920	351.95	1042
73.90	7648	156.90	840	237.00	558	352.65	774
74.90	11758	157.90	458	238.60	247	353.85	1352
76.00	4478	158.90	385	239.70	111	357.65	216
77.00	76056	159.90	1268	241.00	286	358.55	129

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0711B1.D
Spectrum: Scan 218 (7.34)
Location of Maximum: 197.90
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4503	160.80	1022	241.90	1356	359.25	138
78.95	4830	161.40	462	243.90	16744	364.80	4353
79.95	4023	162.05	564	244.95	1886	365.90	443
80.95	5010	162.85	333	245.85	1948	368.80	141
81.95	1508	164.75	1675	246.85	609	370.35	146
82.95	888	166.15	1977	247.95	123	370.95	411
84.95	508	166.95	6883	248.65	414	372.05	1870
85.95	1360	167.85	2715	252.65	300	376.85	203
86.85	1385	168.95	661	253.25	319	382.60	405
90.70	624	169.95	428	254.85	74424	389.60	321
91.90	1695	170.85	448	255.90	8904	398.15	133
92.90	9779	171.90	457	257.90	3243	401.80	959
93.90	525	173.00	657	258.80	1244	402.80	1344
94.90	382	174.00	1445	259.70	147	403.80	334
96.00	677	175.00	2483	260.80	142	408.60	109
97.90	7357	176.10	572	262.90	246	414.95	203
98.90	4912	176.70	654	264.10	338	420.85	1130
99.95	264	177.80	529	264.90	1578	421.85	1344
100.85	1989	178.80	3978	266.25	175	422.90	4899
102.15	233	179.90	3261	269.95	594	423.90	1155
102.95	1120	180.80	2085	270.55	109	439.05	119
103.95	1419	182.75	392	272.85	2951	440.95	19888
104.85	1323	183.75	332	273.95	6621	441.85	116440
106.95	19296	184.95	2747	274.85	33296	442.90	22736
107.95	3482	185.95	18024	275.85	6040	443.90	2426
110.00	45032	186.85	3492	276.80	2440	448.30	112
110.90	6315	188.15	1225	277.90	382	450.00	124
112.00	605	188.75	846	283.20	341	475.05	203
112.90	301	189.75	224	283.70	329	487.50	280
114.10	115	190.95	885	284.80	425		
115.00	205	191.85	1559	285.90	100		

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

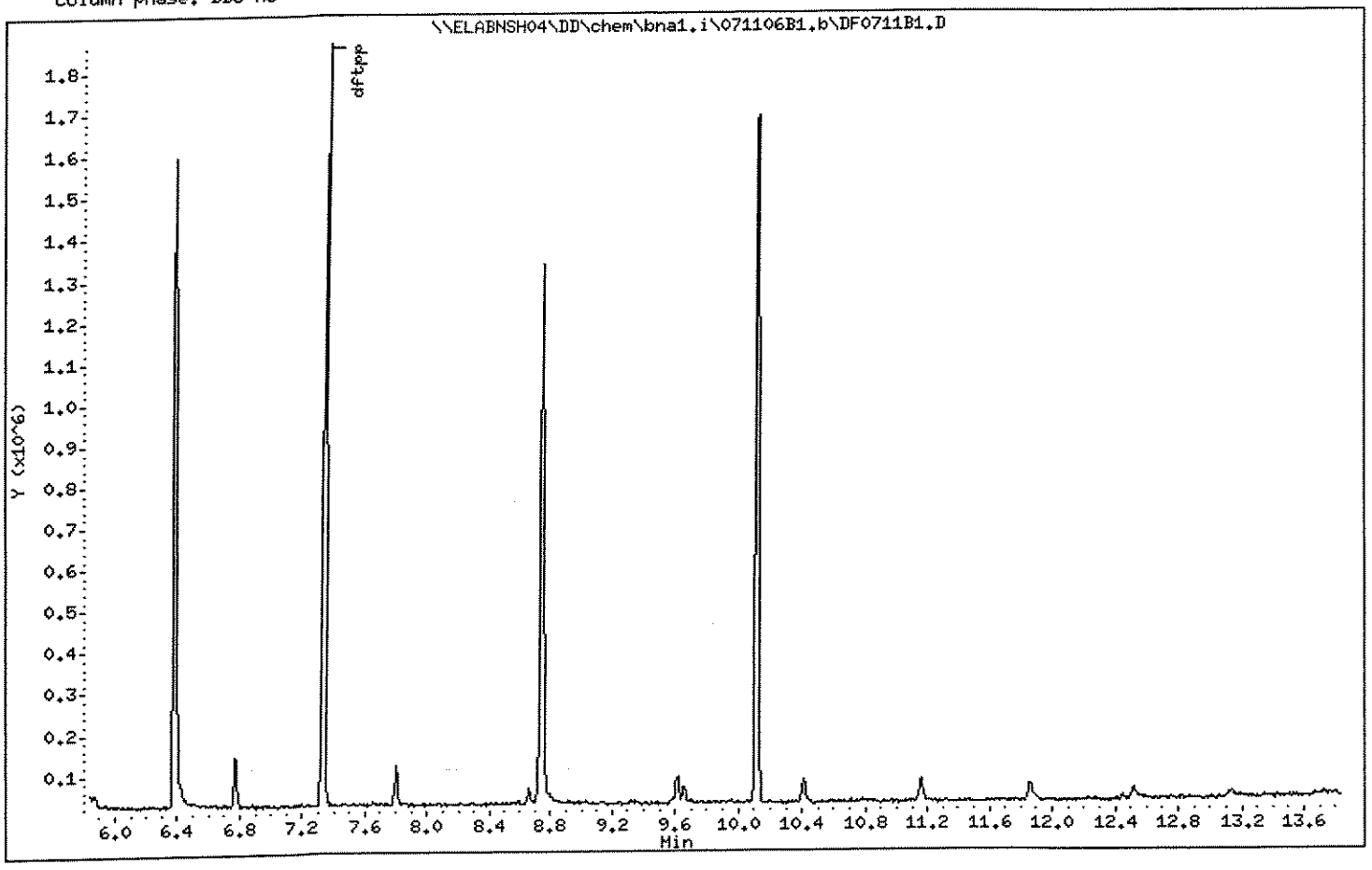
Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

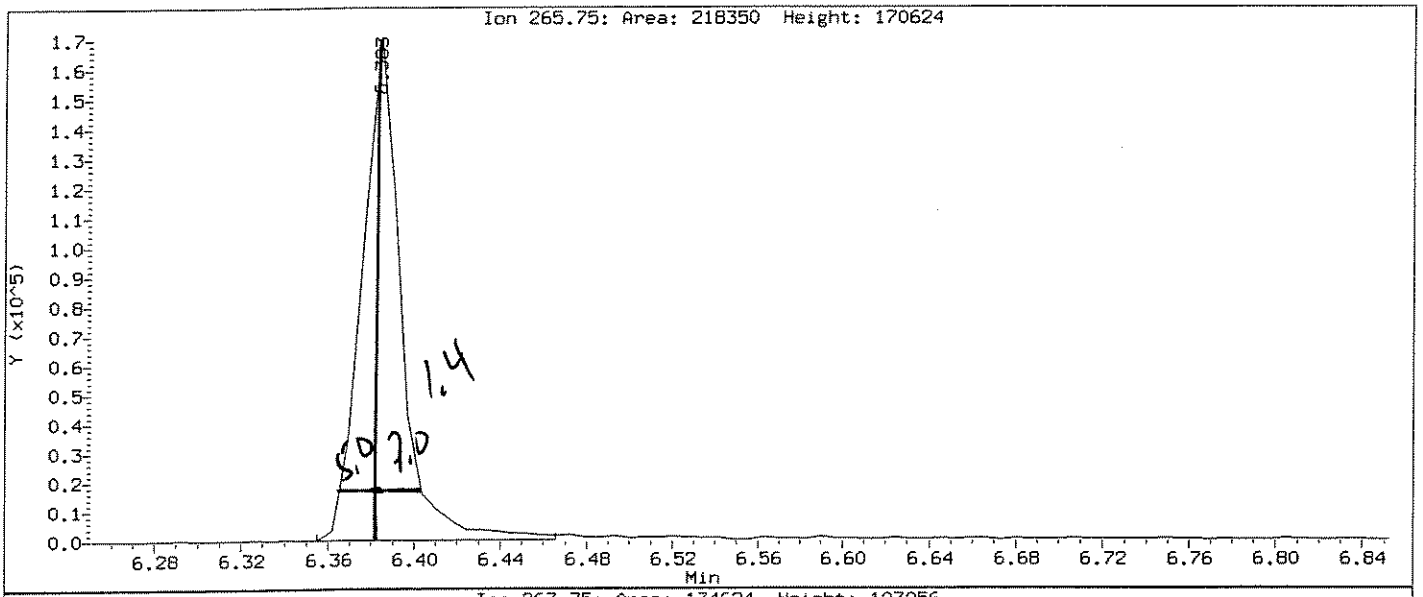
Column phase: DB5-MS

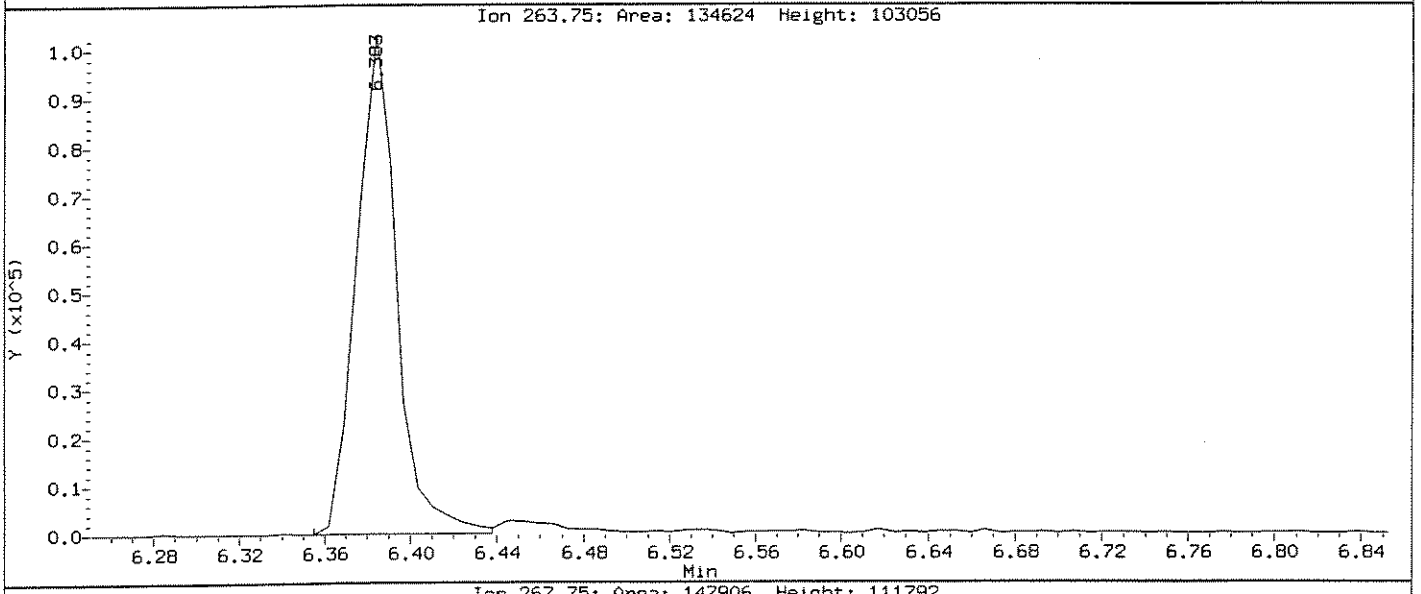
Column diameter: 0.25

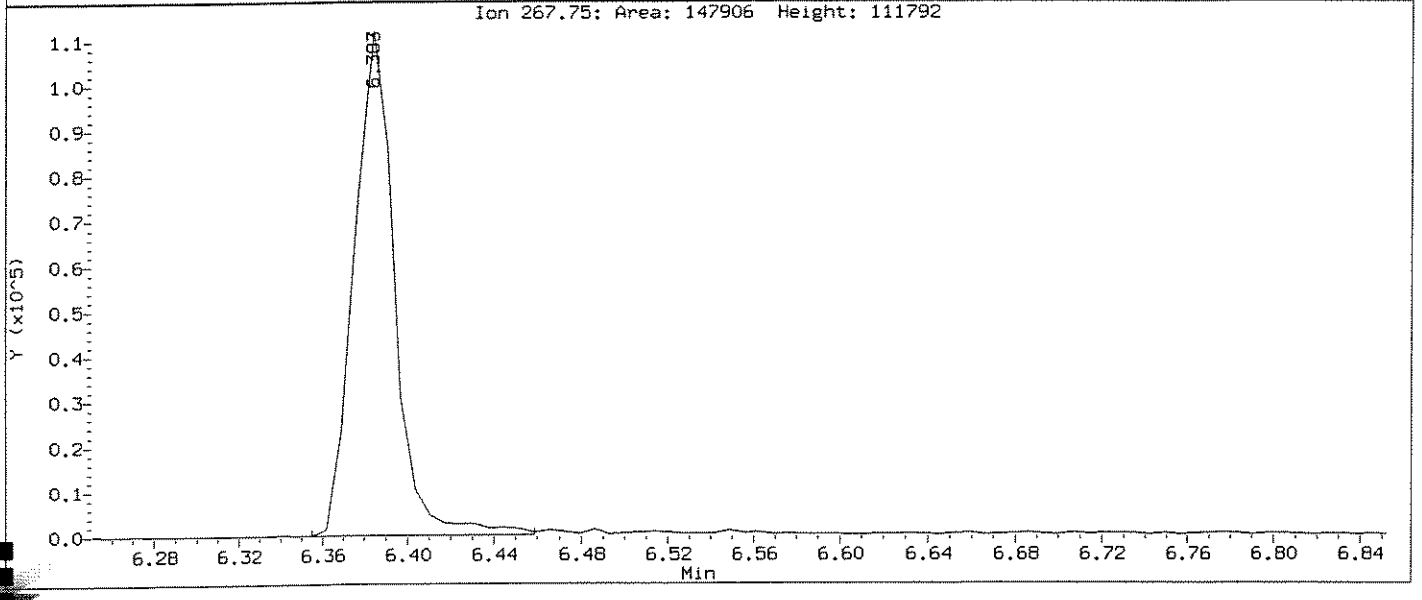


Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Injection Date: 11-JUL-2006 09:23
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

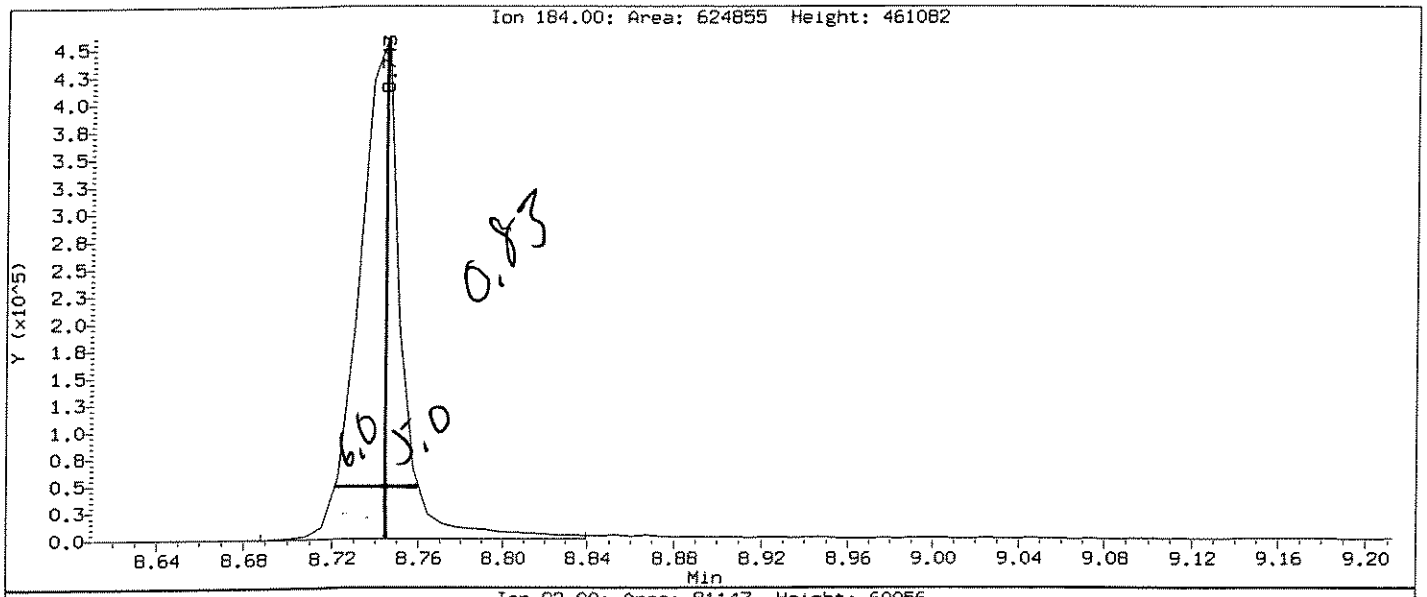


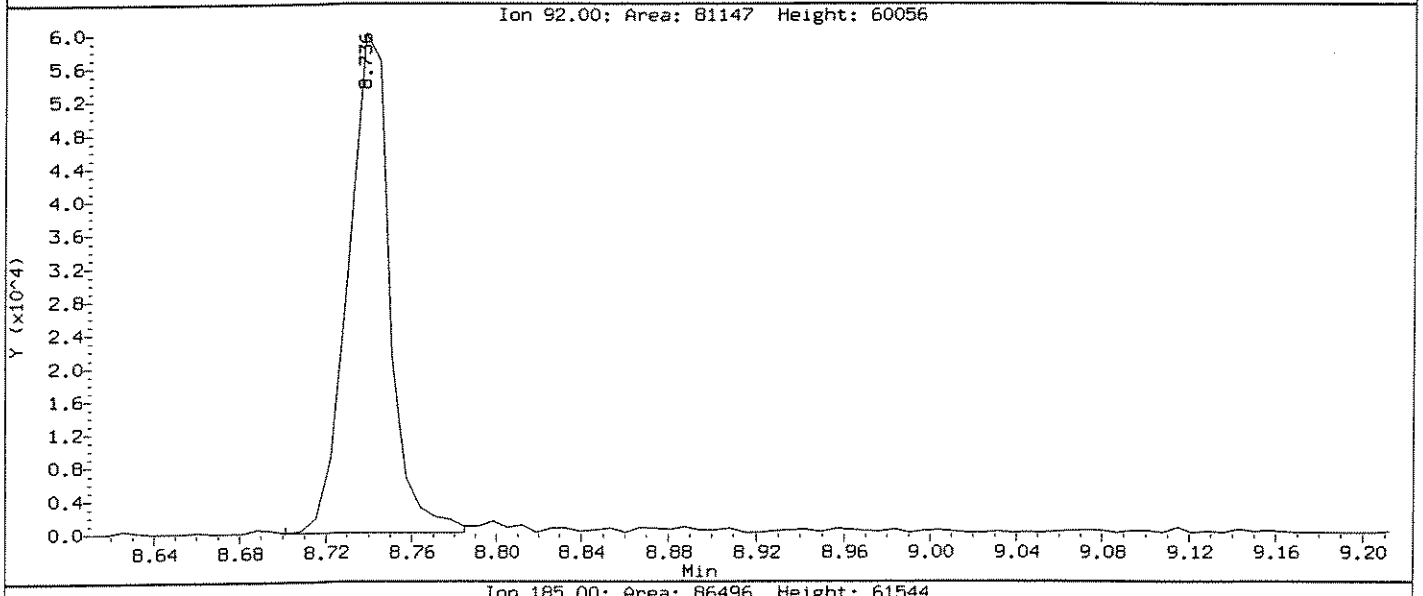


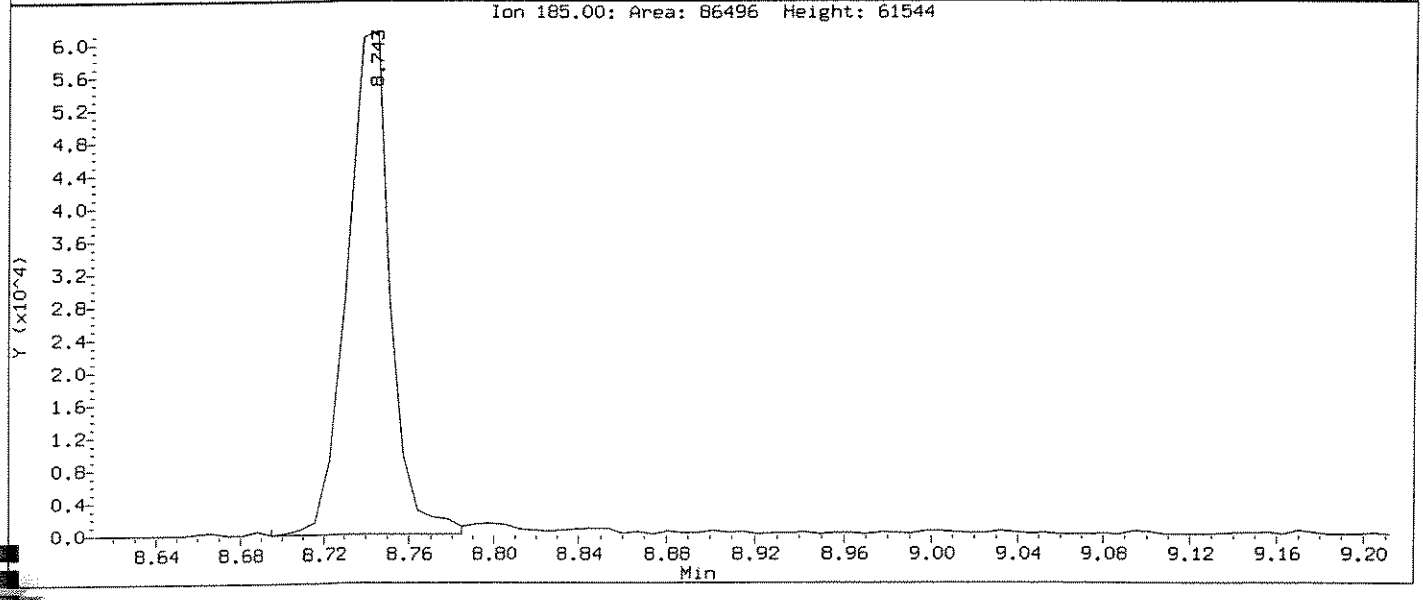


Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Injection Date: 11-JUL-2006 09:23
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Report Date: 12-Jul-2006 11:47

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 11-JUL-2006 09:23
Operator : SDB Inst ID: bna1.i
Smp Info : DF0711B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\dftppbn1ex.m
Meth Date : 06-Jul-2006 07:46 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.382	6.550	-0.168	218350			(H)
2 Benzidine	184	8.742	8.910	-0.168	624855			(QH)
4 4,4'-DDD	235	9.656	9.830	-0.174	9671			(H)
5 4,4'-DDT	235	10.118	10.290	-0.172	377956			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

4,4'-DDT Breakdown = $\frac{0+9671}{0+9671+377956} \times 100 = 2.5\%$

7/12/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

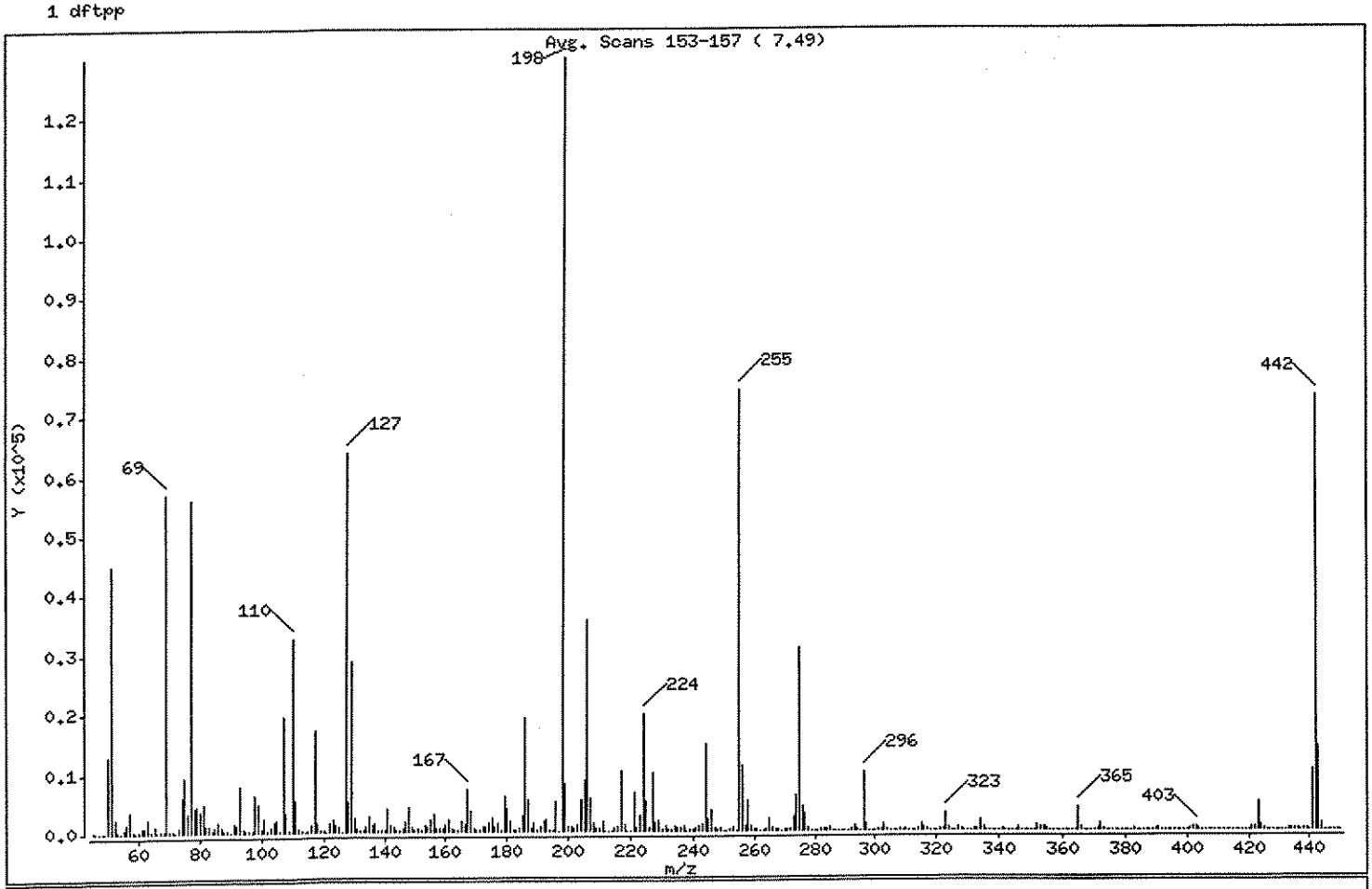
Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.60
68	Less than 2.00% of mass 69	0.15 (0.35)
69	Mass 69 relative abundance	43.74
70	Less than 2.00% of mass 69	0.29 (0.67)
127	40.00 - 60.00% of mass 198	49.02
197	Less than 1.00% of mass 198	0.07
199	5.00 - 9.00% of mass 198	6.29
275	10.00 - 30.00% of mass 198	23.77
365	Greater than 1.00% of mass 198	2.92
441	Present, but less than mass 443	7.83
442	Greater than 40.00% of mass 198	56.22
443	17.00 - 23.00% of mass 442	10.84 (19.28)

7/18/06

7/18/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D

Spectrum: Avg. Scans 153-157 (7.49)

Location of Maximum: 198.00

Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	181	147.00	1925	249.00	503	351.00	73
46.00	53	148.00	4150	250.00	105	352.00	918
47.00	94	149.00	872	251.00	137	353.00	547
48.00	115	150.00	199	252.00	205	354.00	666
49.00	108	151.00	470	253.00	531	355.00	208
50.00	12815	152.00	348	254.00	50	356.00	41
51.00	44960	153.00	1166	255.00	74264	357.00	48
52.00	2543	154.00	904	256.00	10992	358.00	50
53.00	223	155.00	2163	257.00	884	359.00	53
54.00	87	156.00	3109	258.00	5091	360.00	46
55.00	703	157.00	531	259.00	968	361.00	44
56.00	1611	158.00	734	260.00	226	362.00	54
57.00	3487	159.00	593	261.00	150	363.00	27
58.00	434	160.00	1222	262.00	48	364.00	16
59.00	127	161.00	1974	263.00	47	365.00	3791
60.00	208	162.00	600	264.00	394	366.00	634
61.00	852	163.00	282	265.00	2011	367.00	48
62.00	764	164.00	216	266.00	748	368.00	13
63.00	2259	165.00	1800	267.00	183	369.00	29
64.00	374	166.00	1302	268.00	324	370.00	147
65.00	1095	167.00	7143	269.00	134	371.00	253
66.00	125	168.00	3633	270.00	248	372.00	1178
67.00	258	169.00	703	271.00	229	373.00	331
68.00	200	170.00	291	272.00	256	374.00	43
69.00	56832	171.00	344	273.00	2291	375.00	51
70.00	378	172.00	796	274.00	5893	376.00	26
71.00	351	173.00	922	275.00	30888	377.00	103
72.00	98	174.00	1422	276.00	4321	378.00	9
73.00	978	175.00	2508	277.00	3047	379.00	24
74.00	6127	176.00	879	278.00	492	380.00	27
75.00	9295	177.00	1443	279.00	149	381.00	22
76.00	3225	178.00	223	280.00	51	382.00	33
77.00	55856	179.00	6114	281.00	149	383.00	378
78.00	4114	180.00	3862	282.00	150	384.00	136
79.00	4521	181.00	1720	283.00	367	385.00	79

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	3667	182.00	300	284.00	246	386.00	30
81.00	4828	183.00	196	285.00	497	387.00	26
82.00	1237	184.00	466	286.00	118	388.00	14
83.00	1127	185.00	2711	287.00	2	389.00	65
84.00	185	186.00	19208	288.00	41	390.00	168
85.00	924	187.00	5537	289.00	114	391.00	201
86.00	1665	188.00	680	290.00	63	392.00	106
87.00	862	189.00	1483	291.00	101	393.00	46
88.00	301	190.00	313	292.00	170	394.00	5
89.00	260	191.00	771	293.00	814	395.00	59
90.00	31	192.00	1685	294.00	309	396.00	10
91.00	1496	193.00	2217	295.00	136	397.00	20
92.00	1195	194.00	448	296.00	9873	398.00	23
93.00	7927	195.00	357	297.00	1330	399.00	16
94.00	659	196.00	4988	298.00	106	400.00	32
95.00	403	197.00	91	299.00	69	401.00	162
96.00	412	198.00	129928	300.00	44	402.00	579
97.00	251	199.00	8175	301.00	202	403.00	633
98.00	6282	200.00	848	302.00	228	404.00	299
99.00	4652	201.00	913	303.00	1069	405.00	35
100.00	482	202.00	518	304.00	264	406.00	17
101.00	2544	203.00	1345	305.00	69	407.00	23
102.00	304	204.00	5258	306.00	20	408.00	25
103.00	953	205.00	8767	307.00	30	409.00	29
104.00	1823	206.00	35576	308.00	178	410.00	29
105.00	1970	207.00	5579	309.00	109	411.00	5
106.00	161	208.00	1590	310.00	169	412.00	37
107.00	19344	209.00	543	311.00	59	413.00	19
108.00	3169	210.00	580	312.00	34	414.00	41
109.00	342	211.00	1664	313.00	122	415.00	35
110.00	32512	212.00	120	314.00	311	416.00	39
111.00	5463	213.00	142	315.00	1120	417.00	62
112.00	641	214.00	84	316.00	523	418.00	15
113.00	241	215.00	515	317.00	197	419.00	47
114.00	128	216.00	937	318.00	54	420.00	30

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	357	217.00	10166	319.00	7	421.00	624
116.00	1254	218.00	1238	320.00	84	422.00	623
117.00	17160	219.00	100	321.00	264	423.00	4749
118.00	1355	220.00	9	322.00	164	424.00	809
119.00	257	221.00	6715	323.00	2944	425.00	158
120.00	292	222.00	729	324.00	531	426.00	45
121.00	117	223.00	2547	325.00	134	427.00	48
122.00	1485	224.00	19688	326.00	99	428.00	37
123.00	1955	225.00	4973	327.00	539	429.00	119
124.00	1136	226.00	653	328.00	282	430.00	75
125.00	998	227.00	9835	329.00	81	431.00	106
126.00	33	228.00	1537	330.00	85	432.00	41
127.00	63696	229.00	1681	331.00	53	433.00	207
128.00	5116	230.00	289	332.00	188	434.00	185
129.00	28880	231.00	960	333.00	283	435.00	158
130.00	2467	232.00	281	334.00	1656	436.00	218
131.00	729	233.00	264	335.00	598	437.00	144
132.00	396	234.00	771	336.00	66	438.00	337
133.00	356	235.00	589	337.00	21	439.00	268
134.00	944	236.00	576	338.00	15	440.00	63
135.00	2649	237.00	803	339.00	52	441.00	10169
136.00	1051	238.00	123	340.00	33	442.00	73048
137.00	1366	239.00	439	341.00	275	443.00	14085
138.00	335	240.00	236	342.00	119	444.00	1330
139.00	227	241.00	505	343.00	34	445.00	111
140.00	431	242.00	1035	344.00	21	446.00	91
141.00	3791	243.00	1087	345.00	2	447.00	15
142.00	1237	244.00	14548	346.00	554	448.00	11
143.00	866	245.00	2191	347.00	120	449.00	19
144.00	243	246.00	3506	348.00	61	450.00	0.000
145.00	340	247.00	721	349.00	7		
146.00	737	248.00	272	350.00	28		

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

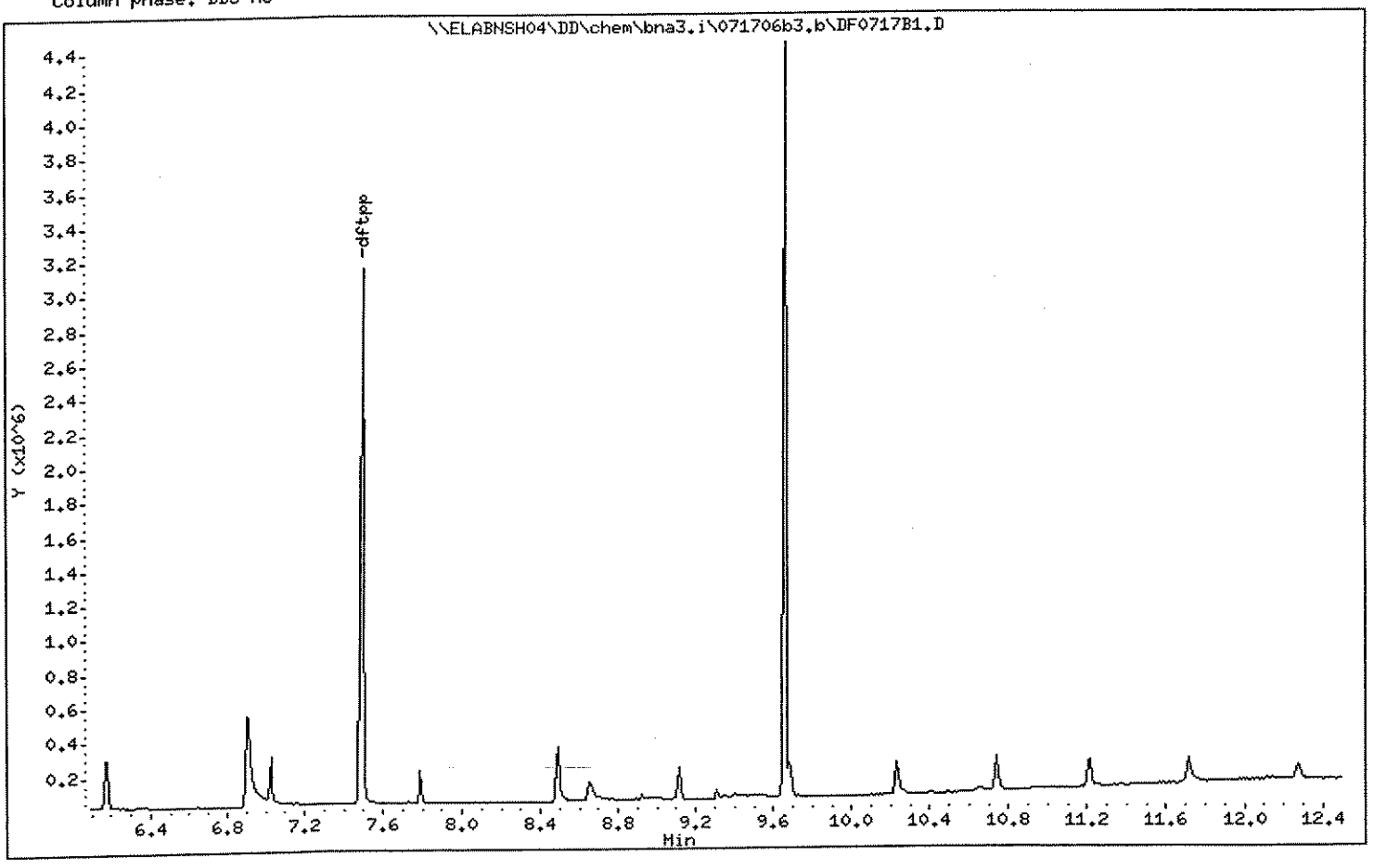
Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0710BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0710

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 10:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170		U
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170		U
56-55-3	Benzo(a)anthracene	20	170		U
205-99-2	Benzo(b)fluoranthene	20	170		U
207-08-9	Benzo(k)fluoranthene	20	170		U
191-24-2	Benzo(g,h,i)perylene	20	170		U
50-32-8	Benzo(a)pyrene	20	100		U
218-01-9	Chrysene	20	170		U
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170		U
86-73-7	Fluorene	20	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	20	170		U
91-57-6	2-Methylnaphthalene	20	170		U
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170		U
129-00-0	Pyrene	20	170		U

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Lab Smp Id: SBLK0710BS1 Client Smp ID: SBLK0710BS1
Inj Date : 11-JUL-2006 10:55
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
Misc Info : ;BLANK;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

7/12/06

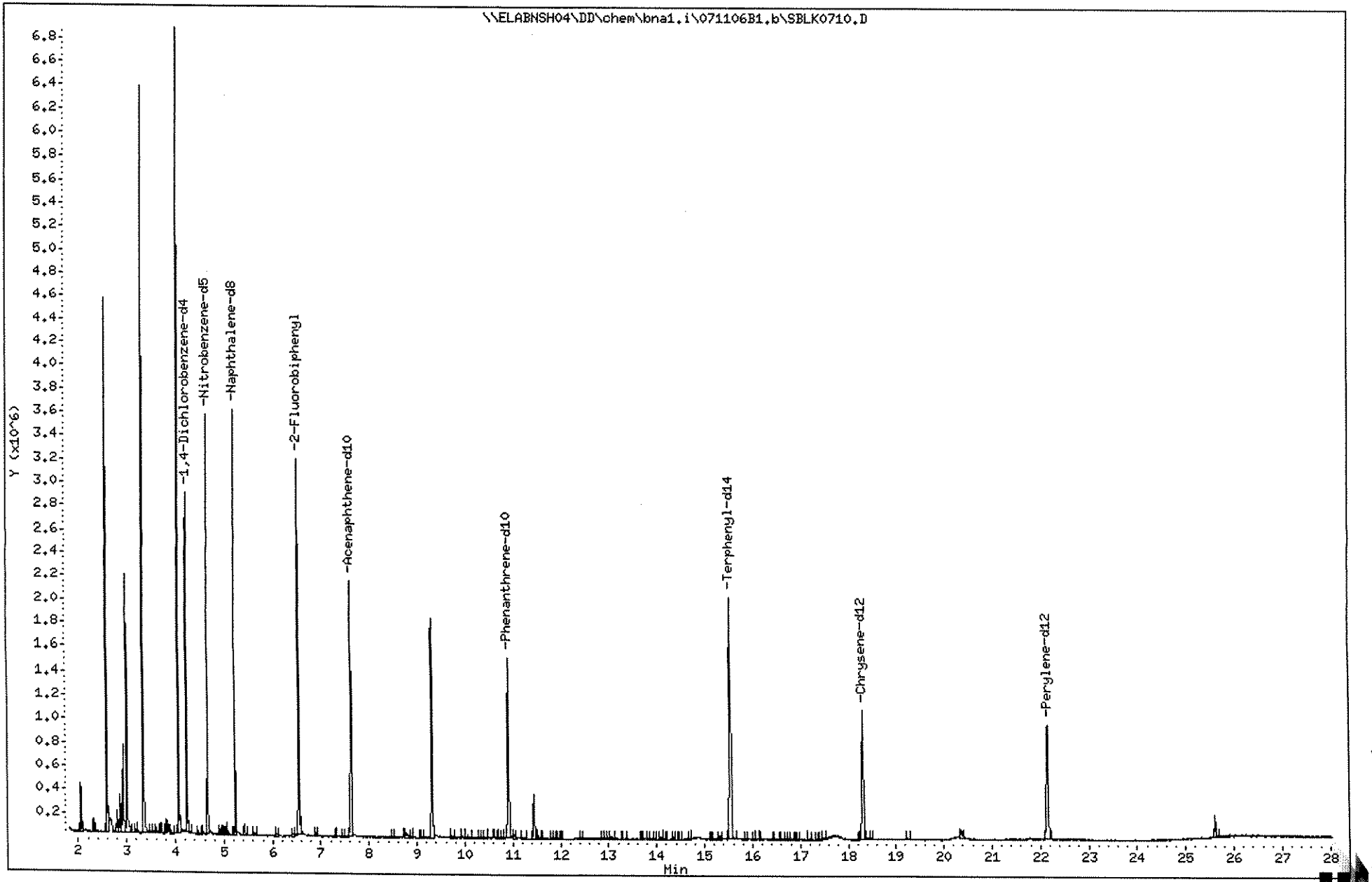
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.239	4.235	(1.000)	417530	40.0000	
* 31 Naphthalene-d8	136	5.234	5.240	(1.000)	1466963	40.0000	
$ 32 Nitrobenzene-d5	82	4.665	4.668	(0.891)	926015	57.8262	1928
* 65 Acenaphthene-d10	164	7.632	7.641	(1.000)	713763	40.0000	
$ 70 2-Fluorobiphenyl	172	6.549	6.555	(0.858)	1237983	54.5026	1817
* 97 Phenanthrene-d10	188	10.917	10.923	(1.000)	981779	40.0000	
* 124 Chrysene-d12	240	18.316	18.333	(1.000)	796917	40.0000	
$ 127 Terphenyl-d14	244	15.550	15.545	(0.849)	1479741	73.5341	2451
* 145 Perylene-d12	264	22.161	22.175	(1.000)	815226	40.0000	

RBW 7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Date : 11-JUL-2006 10:55
Client ID: SBLK0710BS1
Sample Info: SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000555



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: SBLK0710B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0710

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 14:40

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Lab Smp Id: SBLK0710B1 Client Smp ID: SBLK0710B1
Inj Date : 17-JUL-2006 14:40 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006
Misc Info : ;3;BLANK;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

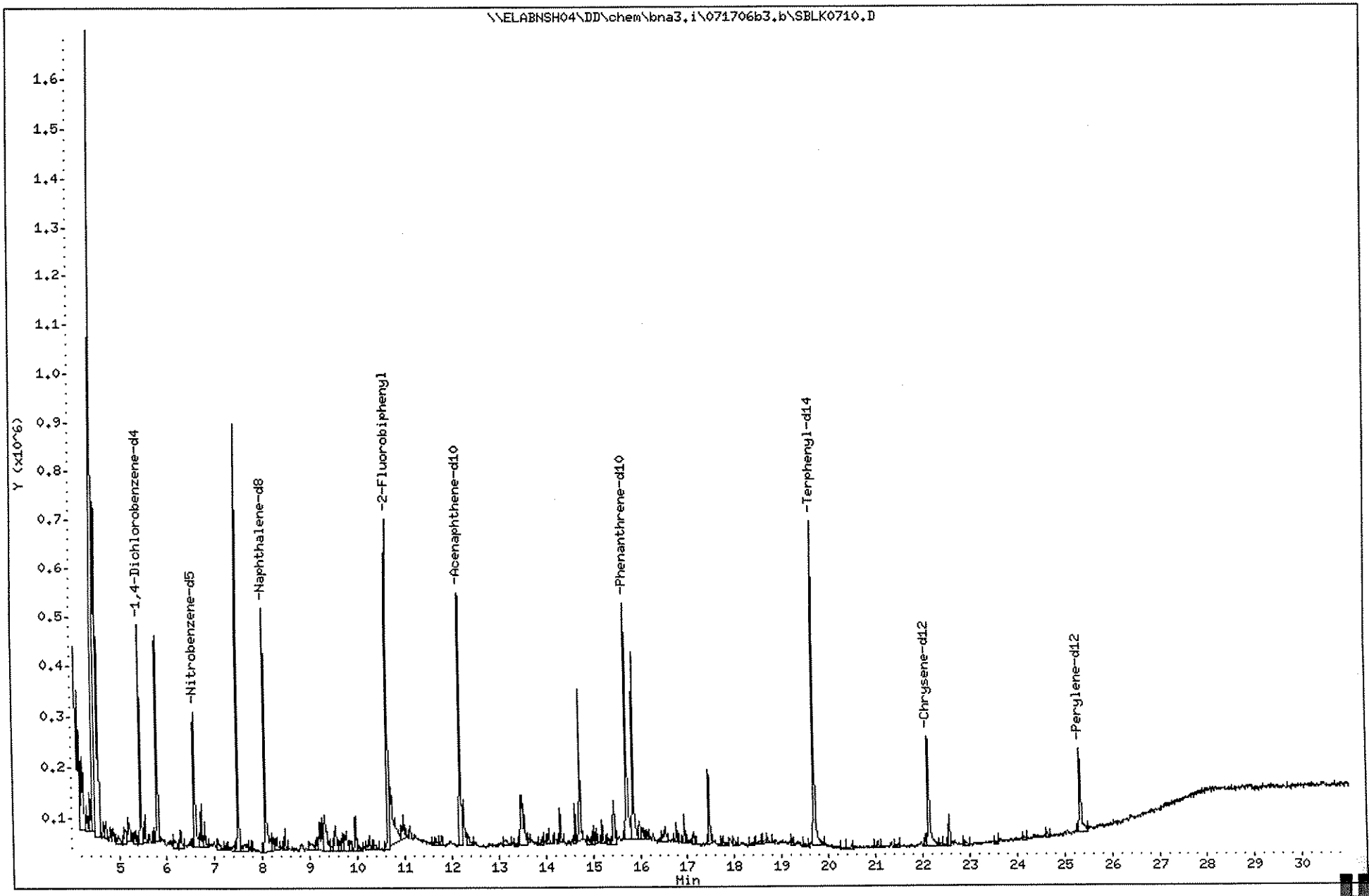
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.455	5.452	(1.000)	121658	1.00000	
*	3 Naphthalene-d8	136	8.058	8.055	(1.000)	465446	1.00000	
$	4 Nitrobenzene-d5	82	6.585	6.584	(0.817)	193990	1.62842	0.8142
*	8 Acenaphthene-d10	164	12.179	12.188	(1.000)	273330	1.00000	
$	10 2-Fluorobiphenyl	172	10.649	10.648	(0.874)	498344	1.51154	0.7558
*	16 Phenanthrene-d10	188	15.707	15.704	(1.000)	357800	1.00000	
*	20 Chrysene-d12	240	22.135	22.132	(1.000)	193201	1.00000	
$	22 Terphenyl-d14	244	19.691	19.690	(0.890)	450275	2.44795	1.224
*	25 Perylene-d12	264	25.331	25.340	(1.000)	138896	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Date : 17-JUL-2006 14:40
Client ID: SBLK0710B1
Sample Info: SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: SDB
Column diameter: 0.25

000558



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLK0710BS1LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0710BS1LCS

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SLCS0710

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 11:30

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	2200	
208-96-8	Acenaphthylene	20	170	2200	
120-12-7	Anthracene	20	170	2700	
56-55-3	Benzo(a)anthracene	20	170	3000	
205-99-2	Benzo(b)fluoranthene	20	170	3200	
207-08-9	Benzo(k)fluoranthene	20	170	2800	
191-24-2	Benzo(g,h,i)perylene	20	170	3000	
50-32-8	Benzo(a)pyrene	20	100	3100	
218-01-9	Chrysene	20	170	2900	
53-70-3	Dibenz(a,h)anthracene	20	100	2800	
206-44-0	Fluoranthene	20	170	2700	
86-73-7	Fluorene	20	170	2400	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	3100	
91-57-6	2-Methylnaphthalene	20	170	1800	
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170	1700	
85-01-8	Phenanthrene	20	170	2700	
129-00-0	Pyrene	20	170	3300	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Report Date: 12-Jul-2006 12:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Lab Smp Id: SBLK0710BS1LCS Client Smp ID: SBLK0710BS1LCS
Inj Date : 11-JUL-2006 11:30
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
Misc Info : ;LCS;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.240	4.235	(1.000)	538017	40.0000	
*	31 Naphthalene-d8	136	5.244	5.240	(1.000)	1842774	40.0000	
$	32 Nitrobenzene-d5	82	4.673	4.668	(0.891)	1173911	58.3565	1945
	47 Naphthalene	128	5.257	5.254	(1.003)	2314760	50.5219	1684
	51 2-Methylnaphthalene	141	6.008	6.004	(1.146)	1399930	53.1748	1772
*	65 Acenaphthene-d10	164	7.648	7.641	(1.000)	947550	40.0000	
$	70 2-Fluorobiphenyl	172	6.559	6.555	(0.858)	1696176	56.2504	1875
	73 Acenaphthylene	152	7.366	7.352	(0.963)	2682162	67.3239	2244
	76 Acenaphthene	153	7.717	7.703	(1.009)	1812550	66.2804	2209
	84 Fluorene	166	8.743	8.727	(1.143)	2145312	73.3469	2445
*	97 Phenanthrene-d10	188	10.937	10.923	(1.000)	1224866	40.0000	
	106 Phenanthrene	178	11.006	10.986	(1.006)	2857728	81.8281	2728
	107 Anthracene	178	11.124	11.096	(1.017)	2782285	80.6955	2690

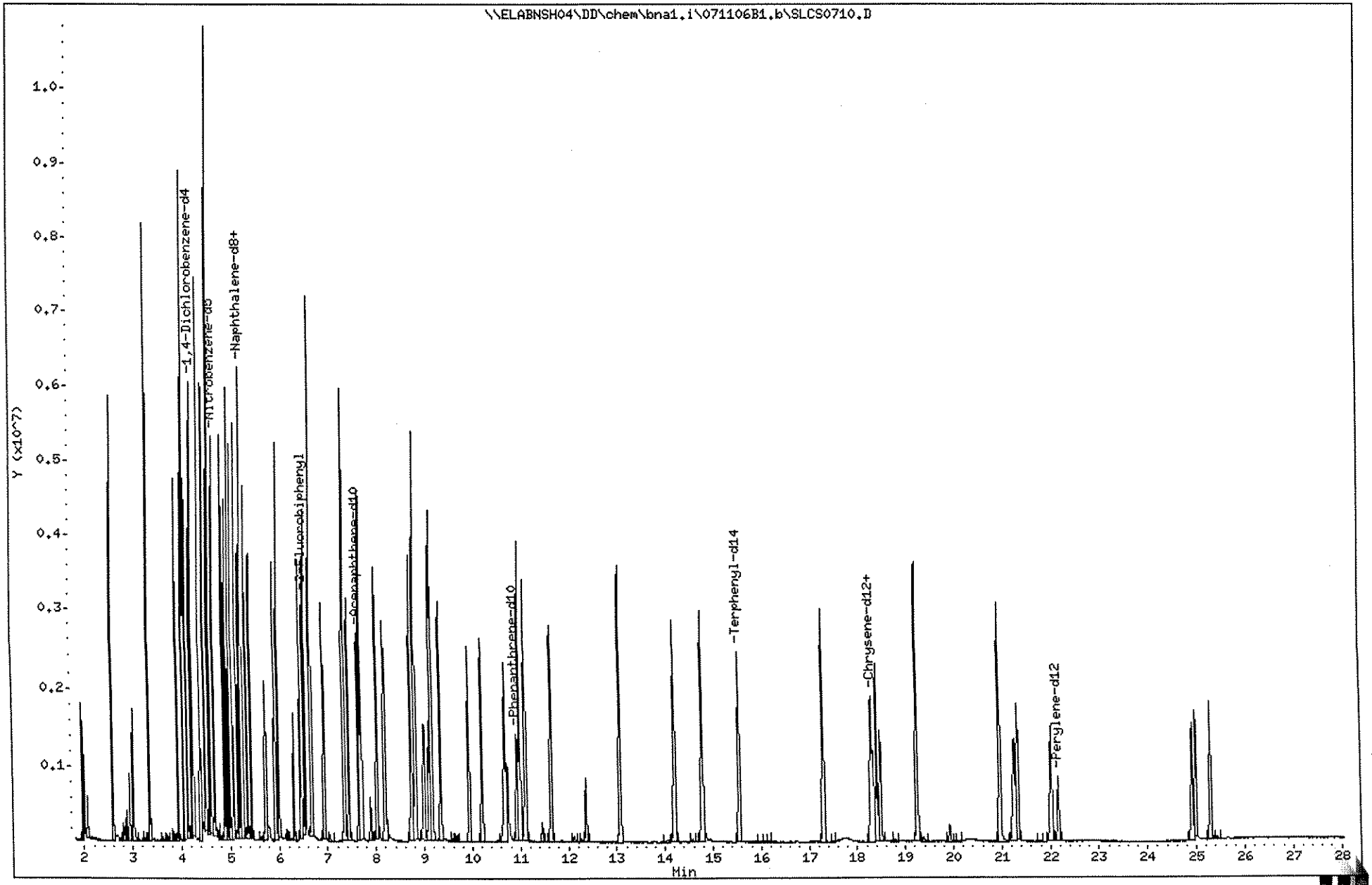
7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Report Date: 12-Jul-2006 12:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.220	14.195	(1.300)	2835486	82.0079	2734
* 124 Chrysene-d12	240	18.351	18.333	(1.000)	743527	40.0000	
126 Pyrene	202	14.798	14.770	(0.806)	2925151	98.5102	3284
$ 127 Terphenyl-d14	244	15.563	15.545	(0.848)	1818284	96.8459	3228
130 Benzo(a)anthracene	228	18.309	18.291	(0.998)	2184825	91.1996	3040
131 Chrysene	228	18.434	18.409	(1.005)	1929287	88.1729	2939
* 145 Perylene-d12	264	22.178	22.175	(1.000)	668049	40.0000	
147 Benzo(b)fluoranthene	252	21.270	21.248	(0.959)	1967184	95.5927	3186
148 Benzo(k)fluoranthene	252	21.347	21.317	(0.962)	1806016	84.5885	2820
149 Benzo(a)pyrene	252	22.033	22.017	(0.993)	1658295	93.4505	3115
150 Indeno(1,2,3-cd)pyrene	276	24.927	24.921	(1.124)	1429473	94.4176	3147
151 Dibenz(a,h)anthracene	278	25.003	24.998	(1.127)	1293315	84.8539	2828
152 Benzo(g,h,i)perylene	276	25.308	25.301	(1.141)	1415912	90.1204	3004

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Date : 11-JUL-2006 11:30
Client ID: SBLK0710BS1LCS
Instrument: bna1.i
Sample Info: SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000562



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710B1LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: SBLK0710B1LCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SLCS0710

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 15:21

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050	0.71	
208-96-8	Acenaphthylene	0.0085	0.050	0.70	
120-12-7	Anthracene	0.0095	0.050	0.78	
56-55-3	Benzo(a)anthracene	0.010	0.050	0.81	
205-99-2	Benzo(b)fluoranthene	0.016	0.050	0.73	
207-08-9	Benzo(k)fluoranthene	0.013	0.050	1.0	
191-24-2	Benzo(g,h,i)perylene	0.013	0.050	0.68	
50-32-8	Benzo(a)pyrene	0.0095	0.050	0.72	
218-01-9	Chrysene	0.0090	0.050	0.95	
53-70-3	Dibenz(a,h)anthracene	0.012	0.050	0.62	
206-44-0	Fluoranthene	0.012	0.050	0.84	
86-73-7	Fluorene	0.012	0.050	0.73	
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050	0.73	
91-57-6	2-Methylnaphthalene	0.016	0.050	0.69	
90-12-0	1-Methylnaphthalene	0.010	0.050	0.69	
91-20-3	Naphthalene	0.019	0.050	0.67	
85-01-8	Phenanthrene	0.014	0.050	0.75	
129-00-0	Pyrene	0.010	0.050	1.0	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Report Date: 18-Jul-2006 09:15

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Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Lab Smp Id: SBLK0710B1LCS Client Smp ID: SBLK0710B1LCS
Inj Date : 17-JUL-2006 15:21 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006
Misc Info : ;3;LCS;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.451	5.452	(1.000)	138773	1.00000	
*	3 Naphthalene-d8	136	8.054	8.055	(1.000)	538678	1.00000	
$	4 Nitrobenzene-d5	82	6.581	6.584	(0.817)	242087	1.75589	0.8779
	5 Naphthalene	128	8.100	8.102	(1.006)	695406	1.34669	0.6733
	6 2-Methylnaphthalene	141	9.698	9.689	(1.204)	389174	1.38113	0.6906
	7 1-Methylnaphthalene	141	9.938	9.940	(1.234)	408406	1.38437	0.6922
*	8 Acenaphthene-d10	164	12.187	12.188	(1.000)	349243	1.00000	
$	10 2-Fluorobiphenyl	172	10.646	10.648	(0.874)	584803	1.38822	0.6941
	11 Acenaphthylene	152	11.810	11.813	(0.969)	775082	1.39373	0.6969
	12 Acenaphthene	153	12.256	12.258	(1.006)	499753	1.41876	0.7094
	15 Fluorene	166	13.477	13.479	(1.106)	609971	1.46908	0.7345
*	16 Phenanthrene-d10	188	15.703	15.704	(1.000)	475655	1.00000	
	17 Phenanthrene	178	15.760	15.763	(1.004)	779782	1.49586	0.7479
	18 Anthracene	178	15.875	15.866	(1.011)	786576	1.56575	0.7829

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Report Date: 18-Jul-2006 09:15

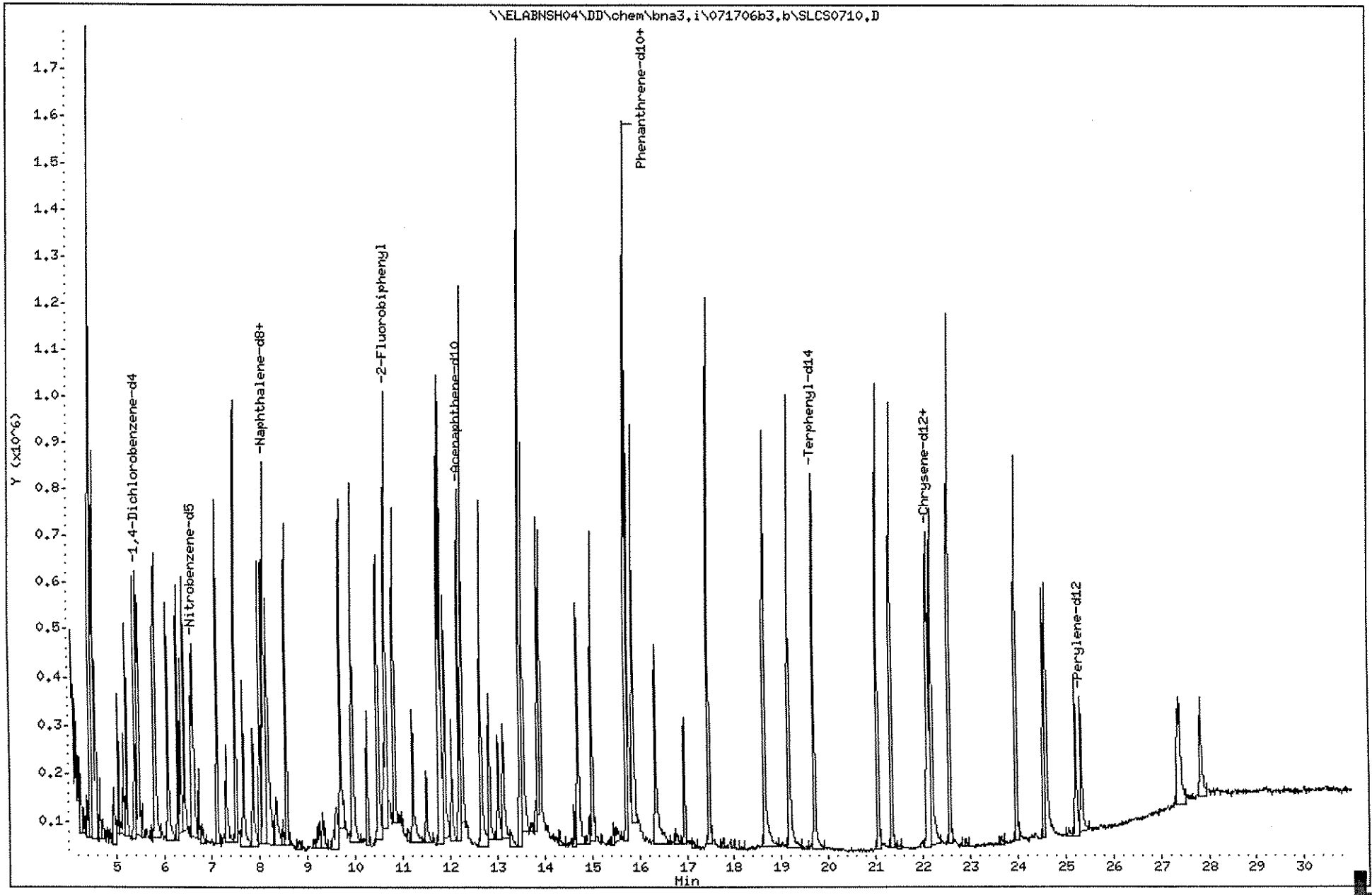
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
	19 Fluoranthene	202	18.649	18.651	(1.188)	892820	1.69005	0.8450
*	20 Chrysene-d12	240	22.131	22.132	(1.000)	301390	1.00000	
	21 Pyrene	202	19.163	19.165	(0.866)	943498	2.10638	1.053
$	22 Terphenyl-d14	244	19.688	19.690	(0.890)	546388	1.90417	0.9521
	23 Benzo(a)anthracene	228	22.097	22.099	(0.998)	568820	1.62066	0.8103
	24 Chrysene	228	22.188	22.190	(1.003)	661039	1.90747	0.9537
*	25 Perylene-d12	264	25.328	25.340	(1.000)	223318	1.00000	
	26 Benzo(b)fluoranthene	252	24.551	24.554	(0.969)	448609	1.45493	0.7275
	27 Benzo(k)fluoranthene	252	24.597	24.599	(0.971)	617889	2.00386	1.002
	28 Benzo(a)pyrene	252	25.214	25.216	(0.995)	366675	1.44325	0.7216
	29 Indeno(1,2,3-cd)pyrene	276	27.360	27.362	(1.080)	260878	1.45248	0.7262(M)
	30 Dibenz(a,h)anthracene	278	27.394	27.397	(1.082)	210425	1.23789	0.6189
	31 Benzo(g,h,i)perylene	276	27.828	27.830	(1.099)	256342	1.36715	0.6836

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Date : 17-JUL-2006 15:21
Client ID: SBLK0710B1LCS
Instrument: bna3.i
Sample Info: SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000566



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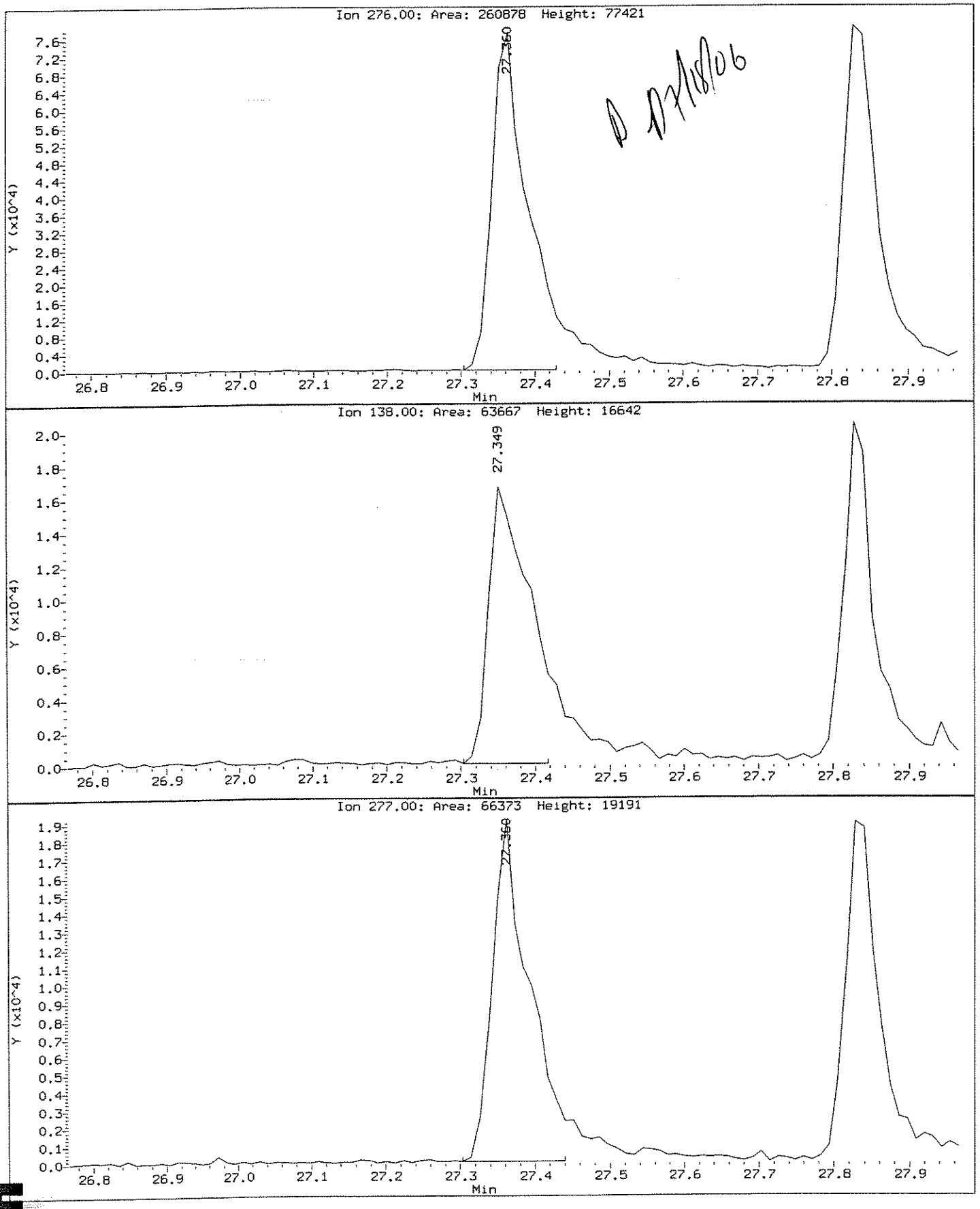
Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Injection Date: 17-JUL-2006 15:21
Instrument: bna3.i
Client Sample ID:

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



D 7/18/06

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM01S
060706MS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203M

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 13:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	2600	
208-96-8	Acenaphthylene	20	170	2400	
120-12-7	Anthracene	20	170	3300	
56-55-3	Benzo(a)anthracene	20	170	5700	E
205-99-2	Benzo(b)fluoranthene	20	170	8500	E
207-08-9	Benzo(k)fluoranthene	20	170	4100	E
191-24-2	Benzo(g,h,i)perylene	20	170	3300	
50-32-8	Benzo(a)pyrene	20	100	6300	E
218-01-9	Chrysene	20	170	6400	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	7100	E
86-73-7	Fluorene	20	170	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	3500	E
91-57-6	2-Methylnaphthalene	20	170	1800	
90-12-0	1-Methylnaphthalene	51	170	55	J
91-20-3	Naphthalene	20	170	1600	
85-01-8	Phenanthrene	20	170	5400	E
129-00-0	Pyrene	20	170	8800	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 10-JUL-2006 13:55
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;MS;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.273	4.276	(1.000)	463784	40.0000	
* 31 Naphthalene-d8	136	5.286	5.287	(1.000)	1571829	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.890)	927196	54.0371	1838
47 Naphthalene	128	5.300	5.307	(1.003)	1882748	48.1762	1639
51 2-Methylnaphthalene	141	6.059	6.062	(1.146)	1204069	53.6189	1824
52 1-Methylnaphthalene	141	6.190	6.203	(1.171)	34760	1.62151	55.15(aM)
* 65 Acenaphthene-d10	164	7.712	7.719	(1.000)	729802	40.0000	
$ 70 2-Fluorobiphenyl	172	6.620	6.617	(0.858)	1365535	58.7969	2000
73 Acenaphthylene	152	7.428	7.426	(0.963)	2184588	71.1952	2422
76 Acenaphthene	153	7.781	7.781	(1.009)	1630672	77.4210	2633
84 Fluorene	166	8.818	8.814	(1.144)	1752767	77.8059	2646
* 97 Phenanthrene-d10	188	11.022	11.020	(1.000)	912148	40.0000	
106 Phenanthrene	178	11.106	11.082	(1.008)	4171839	160.410	5456(AR)

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Report Date: 11-Jul-2006 13:57

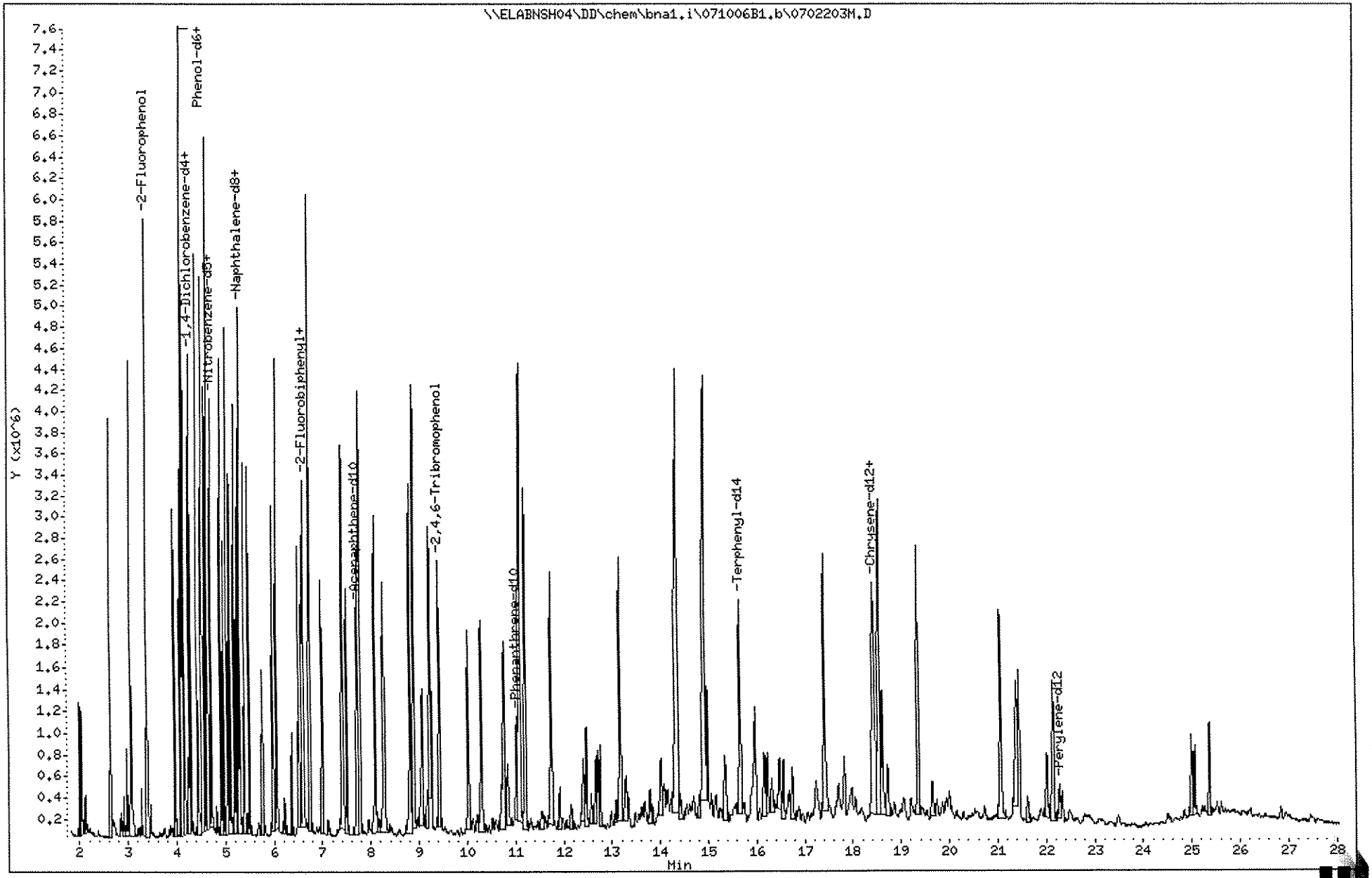
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	11.210	11.192	(1.017)	2498379	97.3037	3310
110 Fluoranthene	202	14.357	14.296	(1.303)	5348112	207.707	7065(AR)
* 124 Chrysene-d12	240	18.473	18.441	(1.000)	479872	40.0000	
126 Pyrene	202	14.936	14.878	(0.809)	4979395	259.825	8838(AR)
$ 127 Terphenyl-d14	244	15.669	15.647	(0.848)	1296810	107.021	3640(A)
130 Benzo(a)anthracene	228	18.438	18.400	(0.998)	2582487	167.027	5681(AR)
131 Chrysene	228	18.564	18.510	(1.005)	2661564	188.472	6411(AR)
* 145 Perylene-d12	264	22.286	22.273	(1.000)	254990	40.0000	
147 Benzo(b)fluoranthene	252	21.395	21.352	(0.960)	1968623	250.627	8525(AR)
148 Benzo(k)fluoranthene	252	21.451	21.421	(0.963)	990942	121.597	4136(ARH)
149 Benzo(a)pyrene	252	22.159	22.121	(0.994)	1254315	185.187	6299(AR)
150 Indeno(1,2,3-cd)pyrene	276	25.000	24.990	(1.122)	597109	103.327	3514(A)
151 Dibenz(a,h)anthracene	278	25.070	25.065	(1.125)	429195	73.7747	2509
152 Benzo(g,h,i)perylene	276	25.374	25.361	(1.139)	577384	96.2801	3275

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Date : 10-JUL-2006 13:55
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000571



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM01S
060706MSD

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203S

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 14:30

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	3200	
208-96-8	Acenaphthylene	20	170	2400	
120-12-7	Anthracene	20	170	4700	E
56-55-3	Benzo(a)anthracene	20	170	11000	E
205-99-2	Benzo(b)fluoranthene	20	170	17000	E
207-08-9	Benzo(k)fluoranthene	20	170	6300	E
191-24-2	Benzo(g,h,i)perylene	20	170	4900	E
50-32-8	Benzo(a)pyrene	20	100	12000	E
218-01-9	Chrysene	20	170	12000	E
53-70-3	Dibenz(a,h)anthracene	20	100	3400	E
206-44-0	Fluoranthene	20	170	15000	E
86-73-7	Fluorene	20	170	3500	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	5500	E
91-57-6	2-Methylnaphthalene	20	170	2000	
90-12-0	1-Methylnaphthalene	51	170	140	J
91-20-3	Naphthalene	20	170	1800	
85-01-8	Phenanthrene	20	170	14000	E
129-00-0	Pyrene	20	170	21000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 10-JUL-2006 14:30
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;MSD;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/11/06

7/11/6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.277	4.276	(1.000)	455682	40.0000	
* 31 Naphthalene-d8	136	5.284	5.287	(1.000)	1464992	40.0000	
$ 32 Nitrobenzene-d5	82	4.711	4.709	(0.892)	933494	58.3717	1985
47 Naphthalene	128	5.304	5.307	(1.004)	1977009	54.2774	1846
51 2-Methylnaphthalene	141	6.063	6.062	(1.148)	1232416	58.8836	2003
52 1-Methylnaphthalene	141	6.188	6.203	(1.171)	83435	4.17598	142.0(aM)
* 65 Acenaphthene-d10	164	7.716	7.719	(1.000)	766940	40.0000	
$ 70 2-Fluorobiphenyl	172	6.617	6.617	(0.858)	1392561	57.0571	1941
73 Acenaphthylene	152	7.425	7.426	(0.962)	2258773	70.0483	2382
76 Acenaphthene	153	7.785	7.781	(1.009)	2091820	94.5061	3214
84 Fluorene	166	8.831	8.814	(1.145)	2424992	102.434	3484(A)
* 97 Phenanthrene-d10	188	11.043	11.020	(1.000)	920312	40.0000	
106 Phenanthrene	178	11.160	11.082	(1.011)	10958305	417.617	14200(AR)

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Report Date: 11-Jul-2006 13:57

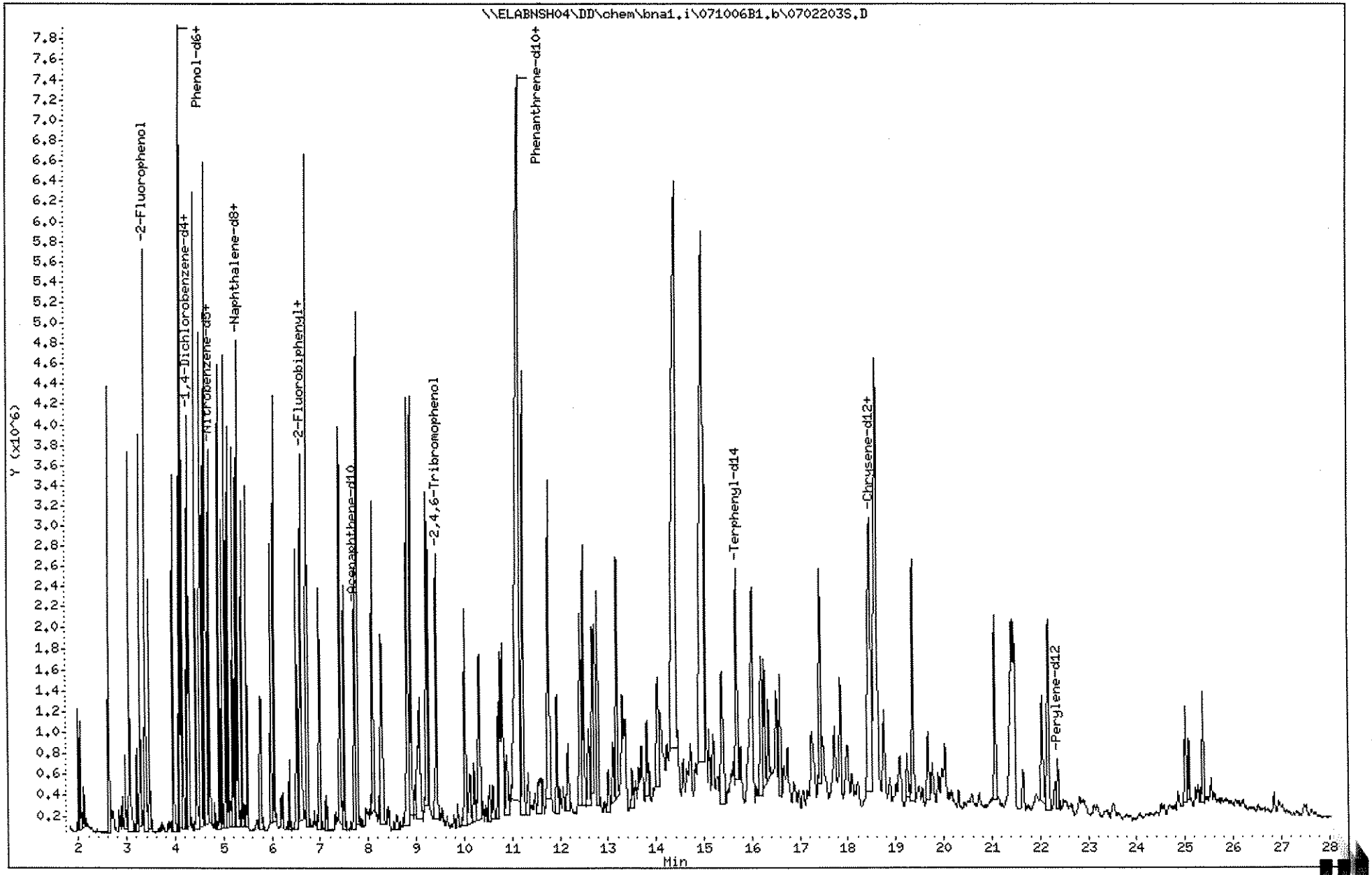
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	11.251	11.192	(1.019)	3616422	139.598	4748(ARH)
110 Fluoranthene	202	14.430	14.296	(1.307)	11423715	439.733	14960(AR)
* 124 Chrysene-d12	240	18.507	18.441	(1.000)	404607	40.0000	
126 Pyrene	202	15.003	14.878	(0.811)	10022722	620.272	21100(AR)
$ 127 Terphenyl-d14	244	15.688	15.647	(0.848)	1143357	111.909	3806(AR)
130 Benzo(a)anthracene	228	18.479	18.400	(0.998)	4089902	313.728	10670(AR)
131 Chrysene	228	18.598	18.510	(1.005)	4115357	345.628	11760(ARH)
* 145 Perylene-d12	264	22.307	22.273	(1.000)	209947	40.0000	
147 Benzo(b)fluoranthene	252	21.433	21.352	(0.961)	3179783	491.672	16720(ARM)
148 Benzo(k)fluoranthene	252	21.489	21.421	(0.963)	1248477	186.067	6329(ARM)
149 Benzo(a)pyrene	252	22.194	22.121	(0.995)	1954203	350.419	11920(ARH)
150 Indeno(1,2,3-cd)pyrene	276	25.029	24.990	(1.122)	766507	161.099	5480(AR)
151 Dibenz(a,h)anthracene	278	25.085	25.065	(1.125)	485568	101.372	3448(A)
152 Benzo(g,h,i)perylene	276	25.390	25.361	(1.138)	708158	143.422	4878(AR)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Date : 10-JUL-2006 14:30
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000575



Empirical Laboratories

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6224.01→02				
6207.01 6303.01→06	9:45 6/26/06 RCh	1617 6/26/06 RCh	All volume of 6207.01 used	TCLP ZHE
6236, 6238, 6243, 6244	1405 6/26/06 B	All 1455 6/26/06 B		Y.S
6217	6/26/06 B	All 1515 6/26/06 B		Y.S
6298 1-2 6299 1-4	BNA P/P 740 6/27/06	9:00 6/27/06 B	BNA P/P	TCLP
6304.01 →.04	8:06 6/27/06 RCh	1358 6/27/06 RCh		TCLP
6307.01	8:16 6/28/06 RCh	11:35 6/28/06 RCh	used all C and B from login	TCLP ZHE
6388.01→04 6394.01	11:00 6/28/06 RCh			TCLP
6367.01A	12:48 6/28/06 RCh	1334 6/28/06 RCh		ZHE
6388.01→04 Aset	12:48 6/28/06 RCh		From login	ZHE
6393, 6394, 6395, 6396	124 6/29/06	All 1328 6/29/06 B		Y.S
6382	1248 6/29/06 B	1300 6/29/06 B		Y.S
6292-01, 02 6297-01 6236-01-05, 6295-01	6:40 6/30/06 AD			CN
6405-02	12:15 6/30/06 m	1:15 6/30/06 m	To weigh out	VOA
6405, 6404 6465	1333 6/30/06 B	All 346 6/30/06 B		Y.S
6422.1-10	11:54am TJM 7/3/06	1:16pm 7/3/06 TJM	Weighed out to dry	Explosives
6399.01→02 6446.01→03	824 7/5/06 RCh	1502 7/5/06 RCh		TCLP ZHE/NON
6419.01→03	↓	↓		↓
6208-01-05 6298-1-2 6217-01-05 6299-1-4 6236-01-05	8:3 7/5/06	1513 7/5/06 RCh		Hg
6423.01	10:26 7/5/06 RCh	1502 7/5/06 RCh		TCLP ZHE/NON
6208.01 6298.01→02 6217.01→05 6299.01→04 6236.01→05 6399.01→02	RCh 1513 7/5/06	1552 7/5/06 RCh		Weight for metals

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 6423-1 6405-2 6404-1,2	9:10 7-6-06 lg	11:25 7/10/06		Hold BNA PCB
6405-02	9:50 7-6-06			VOA
6423 6422	1013 7/6/06	1040 7/6/06		% S
7001-01 B →02	115 7/6/06 RCL	1702 7/6/06		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCL			ZHE
6399.01→02	1431 7/6/06 RCL			SPLP
6405-02	7:00 7/7/6	11:30 7/7/6		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:45 7/7/6	weight	VOA
7014-03B	1:35 7/7/6			VOA
7022 01-11	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06	15:32 7/10/06		CN
7023.01 A,B	9:11 7/10/06 RCL	1450 7/10/06 RCL	taken from extracting	PH, TCLP, ZHE, NON
7014-03	9:46 7/10/06			% S
7022-3-11	10:05 7/10/6		weight	VOA
7014-1-3	1230 7-10-06	1245 7-10-06		FPRO
6399	1435 7/10/06	1456 7/10/06		% S
7014-01→03	6:30 7/11/06	7:16 7/11/06		BNA
7023-01	↓	↓		PCB
6382-01 6377-01-05 6236-1-4 6382-1,2	8:02 7/11/06	15:45 7/11/06		Cr+6

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6235	09:40 7-5-06 RB	15:31 7-5-06 RB		TOC
6235; 6300; 6361; 6383; 6398; 6409; 6384; 6403; 6223; 6226	09:51 7-5-06 RB	10:48 7-5-06 RB		Metals
	10:49 7-5-06 RB	15:31 7-5-06 RB		Sol. Metals
6416, 6425 6426, 6428 6469, 6470	1230 7/5/06 B	All 7/5/06 B 1540		TSS
6468-01-13 6400-01 6414-01 6391-01-2	7/5/06 12:55 BTO	7/5/06 15:55 BTO		NO3
6398.01	7/5/06 1308 RCV	1507 7/5/06 RCV		pH
6468-1-13, 7005-01 6398-01, 6428-01	14:30 7/5/06 BTO	15:05 7/5/06		ANIONS
6468	740 7/6/06 B	1300 7/6/06 B		Alk
6300 6361	03:35 7-6-06 RB	13:39 7-6-06 RB		TOC
7010, 7007 7006	1005 7/6/06 B	1304		BOD
6425-01→12 7005-01	13:19 7/6/06 MM	13:05 7/6/06 MM		NH3
7006, 7011 7005	855 7/7/06 B	All 1410 7/7/06 B		Cond/Spec/Alk
7007-01,02 7012-01, 7005-01	09:15 7/7/06 BTO	13:00 7/7/06 BTO		ANIONS
6468-06, 11	↓	↓		↓
6468-9-13	9:55 TNP 7/7/06	1450 7/7/06 RCV		Alk.
6400-01→02 6427-01,04,06	11:05 7/7/06 MM	~~1450~~ 1550 (some) 8:24 7/7/06 MM		T-PO4
7011-01,02 7017-01	6:50 7/10/06 MM	all		Rest/PCB
7007-01,02 7017-01	↓	↓		PAH
7022-01,02	↓	↓		PAH/PL-PKG

LOW · PAH

Fraction: Semi-volatiles Matrix: Water EX053 Supervisor____________

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Volume(ml)	Final Volume(ml)	Surrogate Added	Surr Initials	Spike Added	Spk Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor Methylene Chloride	Notes/Comments	#
1	CH2mHill	7622-01	071606B01	mH	6	980	.5ml	1ml SV 3571	mH	NA	NA	B21				062123	0621 7:30	1
2	↓	↓ -02	↓	↓	↓	966	↓	↓	↓	NA	NA	—				↓		2
3										NA	NA							3
4										NA	NA							4
5										NA	NA							5
6										NA	NA							6
7										NA	NA							7
8										NA	NA							8
9										NA	NA							9
10										NA	NA							10
11										NA	NA							11
12										NA	NA							12
13										NA	NA							13
14										NA	NA							14
15										NA	NA							15
16										NA	NA							16
17										NA	NA							17
18										NA	NA							18
19										NA	NA							19
20										NA	NA							20
	M.Blank	1-2	071606BLK	mH		1000	.5ml	SAS	SAS		mH	—				SAS		
	LCS	↓	↓	↓		1000	↓	SAS	SAS	1ml SV 3558	↓	—				SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		

Empirical Laboratories

PAH

Empirical Laboratories

Fraction: Semi-volatiles Matrix: Soil Level: Low/Soxhlet/Medium (circle one)

Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	Initial Weight	Final Volume	Surrogate Added	Surr. Initials	Spike Added	Spk Initials	Sox.	Thimble	Thimble	Transf. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Acetone	Notes/Comments
1	[redacted]	6025-01	060806	SO	15.0g	½ml	1ml SV3357	WS	NA	NA	—	-		WS	062119	062287	
2		-02	061306881		15.1g				NA	NA	—	-					
3		-03	1245		15.0g				NA	NA	—	D3					
4		-04			15.1g				NA	NA	—	ROE					
5	CH2	7022-01	071006881	WS	15				NA	NA					062123	062287	#1 creek waters
6		02			15				NA	NA							#2 ↓
7		7022 03	815		15.0	½ml	5ml SV3557	WS	NA	NA	B11			WS			very Rocky All Samp.
8		04			15.0				NA	NA	—						
9		05			15.0				NA	NA	B6						
10		06			15.1				NA	NA	—						
11		07			15.1				NA	NA	—						
12		08			15.1				NA	NA	—						
13		09			15.2				NA	NA	—						
14		10			15.3				NA	NA	—						
15		11			15.2				NA	NA	—						
16									NA	NA							
17									NA	NA							
18									NA	NA							
19									NA	NA							
20									NA	NA							
							SAS	SAS									
	MBlank	1-4	061306881		—	½ml	SAS	SAS	5ml SV3557 5ml SV3610		—	—		WS			
	LCS	↓	↓	↓	—	↓	SAS	SAS		WS	—	—		↓	↓	↓	
							SAS	SAS									
	MBlank	5-15	071006881		—		SAS	SAS	SV3116		—			WS			
	LCS	↓			—		SAS	SAS	5ml SV3607	WS	—						
	MS	7022-3			15.0		SAS	SAS			—						
	MSD	↓	↓	↓	15.0		SAS	SAS	↓	↓	B20			↓	↓	↓	
							SAS	SAS			BF						
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									

000580

Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6381-8 all 6463-02	PCB			1:20 7/3/06	MA	
6361-03-7, 10, 12 6407-01-04; 6463-01,03,07-09	PCB			2:00 7/3/06	MA	
6383-01,02 6384-02; 6408-01,03,04	BNA			2:00 7/3/06	MA	
6046-17-20 6072-12-16, 24	HERB.	3:15 pm / 7.3.06	J.H.	4:15 PM / 7.3.06	J.H.	ANALYZE
6239-01	Expl	7:25 am 7/5/06	TJM	7:40 am 7/5/06	TJM	analysis
6371 6408-1,3,4 6388-1-4 6424-2,3	Pest/PCB			7-5-06 1115	cg	
6421-1 6424 2,3	BNA			7-5-06 100	cg	
~~6462-1-4~~ ~~6395-1-6~~ TJM 7/5/06				TJM 7/5/06		
6106-1,2 / 6198-1-6 6163-1-5 / 6303-1-6	Herb.	1:20pm 7/5/06	TJM	2:15pm 7/5/06	TJM	analysis
6277-03 → 10; 6359-01,02 6406-1,3,4,6,8; 6467-01-09	PCB			2:20 7/5/06	MA	
6303-01-06	BNA	8:10 7/5/06		9:40 7/6/06		Analysis
6217-01-05; 6236-01-05 6298-01,02; 6303-01-06	Pesticide	07:28 7/6/06	BTO	12:33 7/6/06 BTO	BTO	Analysis
6367-01; ~~6382-01-05~~ 6384-02; 6388-01-04	↓	↓	↓	↓	↓	↓
6422-1-10 6394-1 redo	EXP			7-6-06 840	cg	
6422-1-10 6394-1 re-do	Expl.	9:15 am 7/6/06	TJM	9:50 am 7/6/06	TJM	analysis
6277-1-10 re 6359-1,2 re 6381-3-8, 10-12 6462-1-4 6403-1,3,7-9 6408-1,3,4 / 6424-2,3 6466-1,3,4,6 / 6467-1-9	PCBs	10:30 am 7/6/06	TJM	3:10pm 7/6/06	TJM	clean-up & analysis
6367-1 6358-1-4	BNA			7-6-06 1130	cg	
6405-2	BNA			7-6-06 100	cg	
6408-01,03,04 6384-02 6397-01-02 6424-01 6424-2,3	BNA	7:40 7/6/06		11:52 7/7/06		Analysis
6208-1, 6247-01-05, 6249-01-02 6249-01-03	↓	↓	↓	↓	↓	↓
6422-8-9 6394-1	Expl	7:10 am 7/7/06	TJM	7:30 am 7/7/06	TJM	dilute analysis

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6359-1 6408-1,3,4 6299-2,4 6424-2,3 6381-3-7,10,12 6402-1-4 6403-1,3,7-9 6277-1,2	↑ PCB	7/7/06 8:40am	TJM	10:20am 7/7/06	TJM	analysis
	↓	↓	↓	↓	↓	↓
~~6382-1-5~~ ~~6404-1,2~~ ~~6423-1~~	~~Prot/PCB~~			7-7-06 10:15	ug	
6367-1 6388-1-4	Herb			7-7-06 11:15	ug	
6382-01-05 6422-02 6404-01,02	Prot	11:30 7/7/6 BTD	BTD	15:30 7/7/6 BTD		Analysis
6072 6162 6195 ~~6303~~	Herb					
	↓	↓	↓	↓		↓
~~6072~~ 6208-01	Prot	14:10 7/7/6	BTD	15:30 7/7/6 BTD		Analysis
6382-01-05 6404-01,02	Herb			2:25 7/7/06	WA	
6351-06	PCB	7/6/06 735		7/10/06 745	A	Analysis
7022-3-11	PAH			7-10-06 1130	ug	
	↓			↓	↓	
7011-1,2	PCB			7-10-06 1145	ug	
7022-1-11	F.PRO					
6299-04 6217-05 6367-01 6388-01-04	DNA	7/10/06 7:48		7/10/06 11:28		Analysis
7022-03-11	DNA	7/10/06 11:25		7/10/06 2:10		Analysis
7022-01-02	PAH	7/10/06 10:35		7/11/06 10:35		Analysis
7022-01,02	F.PRO	7/10/06 13:15	BTD	14:10 7/10/06	BTD	Analysis
7014-1-3	F.PRO Straight to GC			7-10-06 145	ug	
7014-1-3	F.PRO	7/10/06 13:50	BTD	14:00 7/10/06	BTD	Analysis
6344-01,02; 6411-01-03 6419-01-03; 6423-01; 7001-01,02 7002-01,02; 7017-01	BNA			2:15 7/10/06	WA	
6303-1-4	Herb.	3:25 PM / 7-10-06	J.H.	4:20 PM / 7-10-06	J.H.	ANALYZE
7005-01	Explosives			1:20 7/11/06	WA	
7006-01						

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6307-01; 6388-1-4; 6411-1-3; 6411.9-1-3; 7001-1-2	HERB.	3:00 Pm / 7.14.06	J.H.	4:30 Pm / 7.14.06	J.H.	ANALYZE
7104-2	EXP	~~8:15 7/19/06~~ -7/17/06	CG	8:15 7/17/06	CG	
7037-1-54'	EXP	07:07 7/17/06	BTH	14:55 7/17/06	BTH	Explosives Analysis
7036-01	EXP	08:40 7/17/06	BTH	13:25 7/17/06	BTH	↓
6382-1-5; 6404-01	Pesticides	11:20 7/17/06	BTH	↓	↓	Pesticides Analysis
6217-01	↓	↓	↓	↓	↓	↓
7101-2-7; 7107-2-5	BNA			7-17-06 1330	LG	
7109-2-9	FPRO			7-17-06 2330	LG	
6384-02 MDL's	DRO	2:50 Pm / 7.17.06	J.H.	4:10 Pm / 7.18.06	J.H.	RE-ANALYZE
7098-01-07, 09 - 11 7107-2-05; 7032-01-02 7101-2-17	BNA	8:30 7/17/06	SD	9:10 7/19/06	SD	Analysis
7032-01-02	PAH	8:30 7/17/06	SD	↓	↓	Analysis
7037-31-754	Expl	07/18/06 0712	amb	Already sealed		Analyses
7104-01,02	Expl	↓	amb	07-18-06 0920	amb	Analyses
7114-1	BNA			7-18-06 1100	LG	
7107-2-5; 7111-2-3; 7114-1	Pest/PCB			↓	↓	
7114-01	BNA	7/18/06 11:22	SD	9:10 7/19/06	SD	Analysis
7037-06,24	Explosives	7/18/06 12:30	BTH			
7114-01; 7107-2-5; 7111-2,3; 6382-1-5; 6217-04	P/P	2:45 Pm / 7.18.06	J.H.	4:10 Pm / 7.18.06	J.H.	ANALYZE
7037-47-749,51,58	Expl	07/19/06 0747	amb	0810 07/20/06	amb	dilution + analyses
7107-2-5; 7111-2,3	Herb			7-19-06 950	LG	
7116-2,4,5	Pest/PCB			7-19-06 1110	LG	

Sequence Name: C:\HPCHEM\1\SEQUENCE\020706B1.S
Comment: SW846-8270C/625
Operator: sdb
Data Path: C:\HPCHEM\1\DATA\020706B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

MM 8/16

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	BAKE1	
2	Sample	100	BLANK03	IXBN1	
3	Sample	1	DF0207B1	DFTPPBN1	DF0207B1;;;;;SV3361 1016 2-7-06
4	Sample	2	APPA002	IXBN1	APP9A002PPM;;;;;SV3382-2
5	Sample	3	APPA005	IXBN1	APP9A005PPM;;;;;SV3382-3
6	Sample	4	APPA010	IXBN1	APP9A010PPM;;;;;SV3382-4
7	Sample	5	APPA020	IXBN1	APP9A020PPM;;;;;SV3382-5
8	Sample	6	APPA030	IXBN1	APP9A030PPM;;;;;SV3382-6
9	Sample	7	APPA050	IXBN1	APP9A050PPM;;;;;SV3382-8
10	Sample	8	APPA070	IXBN1	APP9A070PPM;;;;;SV3382-10
11	Sample	9	APPA100	IXBN1	APP9A100PPM;;;;;SV3382-13
12	Sample	10	ICV050	IXBN1	ICV050PPM;;;;;SV3355 1525 2-7-06
13	Sample	1	DF0207B2	DFTPPBN1	DF0207B2;;;;;SV3361 1557
14	Sample	11	CCV050	IXBN1	CCV050PPM;;;;;SV3369
15	Sample	12	CCVAPPA	IXBN1	APP9ACCV050PPM;;;;;SV3383
16	QC	13	SBLK0207	IXBN1	SBLK0207B1;1000;1000;1;UG/L;07-FEB-20
17	QC	14	SLCS0207	IXBN1	SBLK0207B1LCS;1000;1000;1;UG/L;07-FEB
18	Sample	15	0203903	IXBN1	0602039-03;1000;1000;1;UG/L;07-FEB-20
19	Sample	16	0203906	IXBN1	0602039-06;1000;1000;1;UG/L;07-FEB-20
20	Sample	17	0203908	IXBN1	0602039-08;1000;1000;1;UG/L;07-FEB-20
21	Sample	18	0203909	IXBN1	0602039-09;1000;1000;1;UG/L;07-FEB-20
~~22~~	~~QC~~	~~19~~	~~BLK0207~~	~~IXSOX1~~	~~SBLK0207BS1;15;1000;1;UG/KG;07-FEB-20~~
23	QC	20	LCS0207	IXSOX1	SBLK0207BS1LCS;15;1000;1;UG/KG;07-FEB
24	Sample	21	0203901	IXSOX1	0602039-01;15.1;1000;1;UG/KG;07-FEB-2
25	Sample	22	0203902	IXSOX1	0602039-02;15.1;1000;1;UG/KG;07-FEB-2
26	Sample	23	0203904	IXSOX1	0602039-04;15.5;1000;1;UG/KG;07-FEB-2
27	Sample	24	0203905	IXSOX1	0602039-05;15.4;1000;1;UG/KG;07-FEB-2
28	Sample	25	0113901D	IXBN1	0601139-01;100;1000;1;UG/L;25-JAN-200
29	Sample	26	0119203R	IXBN1	0601192-03;700;1000;1;UG/L;07-FEB-200
30					

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\020706B1.S
      Comment: SW846-8270C/625
     Operator: sdb
    Data Path: C:\HPCHEM\1\DATA\020706B1\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample
    Vial: 99            ;;;;;ppbna.sub;
    Meth: BAKE1.M       Barcode: 020606B1.b
    Data: PRIMER.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: Sample
    Vial: 100           ;;;;;ppbna.sub;
    Meth: IXBN1.M       Barcode: 020606B1.b
    Data: BLANK03.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: Sample        DF0207B1;;;;;SV3361
    Vial: 1             ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M    Barcode: 020706B1.b
    Data: DF0207B1.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: Sample        APP9A002PPM;;;;;SV3382-2
    Vial: 2             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA002.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: Sample        APP9A005PPM;;;;;SV3382-3
    Vial: 3             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA005.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: Sample        APP9A010PPM;;;;;SV3382-4
    Vial: 4             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA010.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: Sample        APP9A020PPM;;;;;SV3382-5
    Vial: 5             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA020.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: Sample        APP9A030PPM;;;;;SV3382-6
    Vial: 6             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
```

```
    Data: APPA030.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
9   Type: Sample      APP9A050PPM;;;;;SV3382-8
    Vial: 7           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA050.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: Sample      APP9A070PPM;;;;;SV3382-10
    Vial: 8           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA070.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: Sample      APP9A100PPM;;;;;SV3382-13
    Vial: 9           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA100.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12  Type: Sample      ICV050PPM;;;;;SV3355
    Vial: 10          ;;;;;ppbna2.sub;SV3349
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: ICV050.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13  Type: Sample      DF0207B2;;;;;SV3361
    Vial: 1           ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M  Barcode: 020706eB1.b
    Data: DF0207B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14  Type: Sample      CCV050PPM;;;;;SV3369
    Vial: 11          ;;;;;ppbna.sub;SV3338
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: CCV050.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15  Type: Sample      APP9ACCV050PPM;;;;;SV3383
    Vial: 12          ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: CCVAPPA.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16  Type: QC          SBLK0207B1;1000;1000;1;UG/L;07-FEB-2006
    Vial: 13          ;BLANK;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: SBLK0207.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17  Type: QC          SBLK0207B1LCS;1000;1000;1;UG/L;07-FEB-2006
    Vial: 14          ;LCS;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: SLCS0207.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0602039-03;1000;1000;1;UG/L;07-FEB-2006
    Vial: 15          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203903.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0602039-06;1000;1000;1;UG/L;07-FEB-2006
    Vial: 16          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203906.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0602039-08;1000;1000;1;UG/L;07-FEB-2006
    Vial: 17          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203908.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      0602039-09;1000;1000;1;UG/L;07-FEB-2006
    Vial: 18          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203909.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: QC          SBLK0207BS1;15;1000;1;UG/KG;07-FEB-2006
    Vial: 19          ;BLANK;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: BLK0207.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: QC          SBLK0207BS1LCS;15;1000;1;UG/KG;07-FEB-2006
    Vial: 20          ;LCS;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: LCS0207.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      0602039-01;15.1;1000;1;UG/KG;07-FEB-2006
    Vial: 21          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203901.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      0602039-02;15.1;1000;1;UG/KG;07-FEB-2006
    Vial: 22          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203902.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      0602039-04;15.5;1000;1;UG/KG;07-FEB-2006
    Vial: 23          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203904.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

```
    Quant Report      :Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
27  Type: Sample       0602039-05;15.4;1000;1;UG/KG;07-FEB-2006
    Vial: 24           ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M     Barcode: 020706eB1.b
    Data: 0203905.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
28  Type: Sample       0601139-01;100;1000;1;UG/L;25-JAN-2006
    Vial: 25           tet.b01139;;;;012506B1;tclp.sub;SV3380
    Meth: IXBN1.M      Barcode: 020706eB1.b
    Data: 0113901D.D   Samp Amt: 0          Multiplr: 10
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
29  Type: Sample       0601192-03;700;1000;1;UG/L;07-FEB-2006
    Vial: 26           sha.b01192;;;;020706B1;it-tcl.sub;SV3380
    Meth: IXBN1.M      Barcode: 020706eB1.b
    Data: 0119203R.D   Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
30
-------------------------------------------------------------------------------
```

Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/20/06
5279

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0419B1	DFTPPBN1	DF0419B1;;;;;SV3529
4	Sample	2	CAL001	IXBN1	CAL001PPM;;;;;SV3350-1
5	Sample	3	CAL002	IXBN1	CAL002PPM;;;;;SV3350-2
6	Sample	4	CAL005	IXBN1	CAL005PPM;;;;;SV3350-3
7	Sample	5	CAL010	IXBN1	CAL010PPM;;;;;SV3350-4
8	Sample	6	CAL020	IXBN1	CAL020PPM;;;;;SV3350-5
9	Sample	7	CAL030	IXBN1	CAL030PPM;;;;;SV3350-6
10	Sample	8	CAL040	IXBN1	CAL040PPM;;;;;SV3350-7
11	Sample	9	CAL050	IXBN1	CAL050PPM;;;;;SV3350-8
12	Sample	10	CAL060	IXBN1	CAL060PPM;;;;;SV3350-9
13	Sample	11	CAL070	IXBN1	CAL070PPM;;;;;SV3350-10
14	Sample	12	CAL080	IXBN1	CAL080PPM;;;;;SV3350-11
15	Sample	13	CAL090	IXBN1	CAL090PPM;;;;;SV3350-12
16	Sample	14	CAL100	IXBN1	CAL100PPM;;;;;SV3350-13
17	Sample	15	ICV050	IXBN1	ICV050PPM;;;;;SV3355
18	Sample	16	ICV050EX	IXBN1	ICV050PPMex;;;;;SV3356

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

4/20/06
5250

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 041906B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D	:Default	Lib. Search Rep.:Default
	Area% Report	:Default	Post-Quant Macro:Default
	Quant Report	:Default	CR Spreadsheet :Default
	CR Database		
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 041906B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D	:Default	Lib. Search Rep.:Default
	Area% Report	:Default	Post-Quant Macro:Default
	Quant Report	:Default	CR Spreadsheet :Default
	CR Database		
3	Type: Sample	DF0419B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 041906B1.b	
	Data: DF0419B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	CAL001PPM;;;;;SV3350-1	
	Vial: 2	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL001.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	CAL002PPM;;;;;SV3350-2	
	Vial: 3	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL002.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	CAL005PPM;;;;;SV3350-3	
	Vial: 4	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL005.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	CAL010PPM;;;;;SV3350-4	
	Vial: 5	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL010.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	CAL020PPM;;;;;SV3350-5	
	Vial: 6	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	

Quant Report :Default Post Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

9 Type: Sample CAL030PPM;;;;;SV3350-6
Vial: 7 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL030.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample CAL040PPM;;;;;SV3350-7
Vial: 8 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL040.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample CAL050PPM;;;;;SV3350-8
Vial: 9 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL050.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample CAL060PPM;;;;;SV3350-9
Vial: 10 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL060.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample CAL070PPM;;;;;SV3350-10
Vial: 11 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL070.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample CAL080PPM;;;;;SV3350-11
Vial: 12 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL080.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample CAL090PPM;;;;;SV3350-12
Vial: 13 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL090.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample CAL100PPM;;;;;SV3350-13
Vial: 14 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL100.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample ICV050PPM;;;;;SV3355
Vial: 15 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: ICV050.D Samp Amt: 0 Multiplr: 1

```
18  Type: Sample        ICV050PPMex;;;;;SV3356
    Vial: 16            ;;;;;ppbna1.sub;3549
    Meth: IXBN1.M       Barcode: 041906B1.b
    Data: ICV050EX.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
```

4/19/06 5282

Comment: SW846-8270C/625
Operator: ADM
Data Path: F:\HPCHEM\1\DATA\042106b3\
Pre-Seq Cmd:
Post-Seq Cmd:

4/21/06
2497

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0421B1	DFTPPLOW	DF0421B1;;;;;SV3177
3	Sample	2	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3534
4	Sample	3	PAH001	PAHLOWS	PAHCCV0.10PPM;;;;;SV3490-1
5	Sample	4	PAH002	PAHLOWS	PAHCCV0.20PPM;;;;;SV3490-2
6	Sample	5	PAH003	PAHLOWS	PAHCCV0.40PPM;;;;;SV3490-3
7	Sample	6	PAH004	PAHLOWS	PAHCCV0.60PPM;;;;;SV3490-4
8	Sample	7	PAH006	PAHLOWS	PAHCCV1.00PPM;;;;;SV3490-6
9	Sample	8	PAH008	PAHLOWS	PAHCCV2.50PPM;;;;;SV3490-8
10	Sample	9	PAH009	PAHLOWS	PAHCCV5.00PPM;;;;;SV3490-9
11	Sample	10	PAH011	PAHLOWS	PAHCCV10.0PPM;;;;;SV3490-11
12	Sample	11	PAH013	PAHLOWS	PAHCCV20.0PPM;;;;;SV3490-13
13	Sample	12	PAHICV	PAHLOWS	PAHICV5.0PPM;;;;;SV3397

Sequence Name: C:\HPCHEM\1\SEQUENCE\042106B3.S
Comment: SW846-8270C/625
Operator: ADM
Data Path: F:\HPCHEM\1\DATA\042106b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/22/06 DJ

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;SV3177	
	Vial: 100	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: BLANK.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
2	Type: Sample	DF0421B1;;;;;SV3177	
	Vial: 1	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: DF0421B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
3	Type: Sample	PAHCCV5.0PPM;;;;;SV3534	
	Vial: 2	;;;;;;pahsurr.sub;3459	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAHCCV.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
4	Type: Sample	PAHCCV0.10PPM;;;;;SV3490-1	
	Vial: 3	;;;;;;pahsurr.sub;3459	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH001.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
5	Type: Sample	PAHCCV0.20PPM;;;;;SV3490-2	
	Vial: 4	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH002.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
6	Type: Sample	PAHCCV0.40PPM;;;;;SV3490-3	
	Vial: 5	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH003.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
7	Type: Sample	PAHCCV0.60PPM;;;;;SV3490-4	
	Vial: 6	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH004.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method

```
8   Type: Sample        PAHCCV1.00PPM;;;;;SV3490-6
    Vial: 7             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH006.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
9   Type: Sample        PAHCCV2.50PPM;;;;;SV3490-8
    Vial: 8             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH008.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
10  Type: Sample        PAHCCV5.00PPM;;;;;SV3490-9
    Vial: 9             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH009.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
11  Type: Sample        PAHCCV10.0PPM;;;;;SV3490-11
    Vial: 10            ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH011.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
12  Type: Sample        PAHCCV20.0PPM;;;;;SV3490-13
    Vial: 11            ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH013.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
13  Type: Sample        PAHICV5.0PPM;;;;;SV3397
    Vial: 12            ;;;;;;pahsurr.sub;3353
    Meth: PAHLOWS.M     Barcode:
    Data: PAHICV.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

4/22/06
2499

Sequence Name: C:\[illegible]
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071006B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

7/11/06 5:62

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample 7/10 8:14	1	DF0710B1	DFTPPBN1	DF0710B1;;;;;SV3529
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3607
5	QC	3	FBLK0706	IXBN1	FBLK0706B1;100;1000;1;UG/L;06-JUL-200
6	QC	4	SBLK0706	IXBN1	SBLK0706B1;1000;1000;1;UG/L;06-JUL-20
7	QC	5	SLCS0706	IXBN1	SBLK0706B1LCS;1000;1000;1;UG/L;06-JUL
8	Sample	6	0629904	IXSOX1	0606299-04;15.1;1000;1;UG/KG;29-JUN-2
9	Sample	7	0621705D	IXSOX1	0606217-05;15.5;1000;1;UG/KG;29-JUN-2
10	QC	8	SBLK0710	IXSOX1	SBLK0710BS1;15;500;1;UG/KG;10-JUL-200
11	QC	9	SLCS0710	IXSOX1	SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-
12	Sample	10	0702203	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
13	QC	11	0702203M	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
14	QC	12	0702203S	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
15	Sample	95	APP9ACCV	IXBN1	APP9ACCV050PPM;;;;;SV3625
16	Sample	13	0702204	IXSOX1	0607022-04;15.0;500;1;UG/KG;10-JUL-20
17	Sample	14	0702205	IXSOX1	0607022-05;15.0;500;1;UG/KG;10-JUL-20
18	Sample	15	0702206	IXSOX1	0607022-06;15.1;500;1;UG/KG;10-JUL-20
19	Sample	16	0702207	IXSOX1	0607022-07;15.1;500;1;UG/KG;10-JUL-20
20	Sample	17	0702208	IXSOX1	0607022-08;15.1;500;1;UG/KG;10-JUL-20
21	Sample	18	0702209	IXSOX1	0607022-09;15.2;500;1;UG/KG;10-JUL-20
22	Sample	19	0702210	IXSOX1	0607022-10;15.3;500;1;UG/KG;10-JUL-20
23	Sample 7/10 19:49	20	0702211	IXSOX1	0607022-11;15.2;500;1;UG/KG;10-JUL-20
24	Sample	100	BLANK02	DFTPPBN1	
25	Sample	100	BLANK03	DFTPPBN1	
26	Sample	1	DF0710B2	DFTPPBN1	DF0710B2;;;;;SV3529
27	Sample	2	CCV050E	IXBN1	CCV050PPM;;;;;SV3607
28	Sample	21	0636701	IXBN1	0606367-01;100;1000;1;UG/L;06-JUL-200
29	Sample	22	0638801	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
30	QC	23	0638801D	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
31	QC	24	0638801M	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
32	Sample	25	0638802	IXBN1	0606388-03;100;1000;1;UG/L;06-JUL-200
33	Sample	26	0638803	IXBN1	0606388-04;100;1000;1;UG/L;06-JUL-200
34	Sample	27	0638804	IXBN1	0606388-04;100;1000;1;UG/L;06-JUL-200

Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071006B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

D 7/11/06
5569

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 071006B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D		
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 071006B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D		
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
3	Type: Sample	DF0710B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 071006B1.b	
	Data: DF0710B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
4	Type: Sample	CCV050PPM;;;;;SV3607	
	Vial: 2	;;;;;ppbna.sub;3605	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: CCV050.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
5	Type: QC	FBLK0706B1;100;1000;1;UG/L;06-JUL-2006	
	Vial: 3	;BLANK;;;070606B1;tclp.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: FBLK0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
6	Type: QC	SBLK0706B1;1000;1000;1;UG/L;06-JUL-2006	
	Vial: 4	;BLANK;;;070606B1;ppbna.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: SBLK0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
7	Type: QC	SBLK0706B1LCS;1000;1000;1;UG/L;06-JUL-2006	
	Vial: 5	;LCS;;;070606B1;ppbna.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: SLCS0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
8	Type: Sample	0606299-04;15.1;1000;1;UG/KG;29-JUN-2006	
	Vial: 6	tet.b06299;;;;062906BS1;ppbna.sub;3619	
	Meth: IXSOX1.M	Barcode: 071006B1.b	

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample      0606217-05;15.5;1000;1;UG/KG;29-JUN-2006
    Vial: 7           tet.b06217;;;;062906BS1;ppbna.sub;3619
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0621705D.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: QC          SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
    Vial: 8           ;BLANK;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: SBLK0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: QC          SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
    Vial: 9           ;LCS;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: SLCS0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 10          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: QC          0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 11          ch2.b07022;MS;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: QC          0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 12          ch2.b07022;MSD;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      APP9ACCV050PPM;;;;;SV3625
    Vial: 95          ;;;;;app9a.sub;3623
    Meth: IXBN1.M     Barcode: 071006B1.b
    Data: APP9ACCV.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample      0607022-04;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 13          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702204.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      0607022-05;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 14          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702205.D   Samp Amt: 0          Multiplr: 1
```

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    Area% Report      :Default          Post-Quant Macro:Default
    Quant Report      :Default          CR Spreadsheet  :Default
    CR Database       :Default
-------------------------------------------------------------------------
18  Type: Sample       0607022-06;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 15           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702206.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample       0607022-07;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 16           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702207.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample       0607022-08;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 17           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702208.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample       0607022-09;15.2;500;1;UG/KG;10-JUL-2006
    Vial: 18           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702209.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample       0607022-10;15.3;500;1;UG/KG;10-JUL-2006
    Vial: 19           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702210.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample       0607022-11;15.2;500;1;UG/KG;10-JUL-2006
    Vial: 20           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702211.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample
    Vial: 100          ;;;;;ppbna .sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample
    Vial: 100          ;;;;;ppbna .sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample       DF0710B2;;;;;SV3529
    Vial: 1            ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: DF0710B2.D   Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default

uence: 071006B1.S   Last Modified: Mon Jul 10 14:29:14 2006   Page: 3
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    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
27  Type: Sample      CCV050PPM;;;;;SV3607
    Vial: 2           ;;;;;ppbna.sub;3605
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
28  Type: Sample      0606367-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 21          aaa.b06367;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0636701.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
29  Type: Sample      0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 22          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
30  Type: QC          0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 23          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801D.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
31  Type: QC          0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 24          aaa.b06388;MS;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
32  Type: Sample      0606388-03;100;1000;1;UG/L;06-JUL-2006
    Vial: 25          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638802.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
33  Type: Sample      0606388-04;100;1000;1;UG/L;06-JUL-2006
    Vial: 26          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638803.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
34  Type: Sample      0606388-04;100;1000;1;UG/L;06-JUL-2006
    Vial: 27          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638804.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

Sequence Name: C:\HPCHEM\1\SEQUENCE\071106B1.S
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071106B1\
Pre-Seq Cmd:
Post-Seq Cmd:

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Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0711B1	DFTPPBN1	DF0711B1;;;;;SV3529 0923 7-11-06
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3607
5	Sample	3	APP9ACCV	IXBN1	APP9ACCV050PPM;;;;;SV3625
6	QC	4	SBLK0710	IXSOX1	SBLK0710BS1;15;500;1;UG/KG;10-JUL-200
7	QC	5	SLCS0710	IXSOX1	SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-
8	Sample	6	0702208D	IXSOX1	0607022-08;15.1;500;1;UG/KG;10-JUL-20
9	Sample	7	0702210D	IXSOX1	0607022-10;15.3;500;1;UG/KG;10-JUL-20
10	Sample	8	0702206D	IXSOX1	0607022-06;15.1;500;1;UG/KG;10-JUL-20
11	Sample	9	0702207D	IXSOX1	0607022-07;15.1;500;1;UG/KG;10-JUL-20
12	Sample	10	0702205D	IXSOX1	0607022-05;15.0;500;1;UG/KG;10-JUL-20
13	Sample	11	0702209D	IXSOX1	0607022-09;15.2;500;1;UG/KG;10-JUL-20
14	Sample	12	0702203D	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
15	Sample	13	0702204D	IXSOX1	0607022-04;15.0;500;1;UG/KG;10-JUL-20
16	Sample	14	0702211D	IXSOX1	0607022-11;15.2;500;1;UG/KG;10-JUL-20
17	Sample	15	0702203R	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20 1727 7-11-06

Sequence Name: C:\HPCHEM\1\SEQUENCE\071106B1.S
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071106B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Sample Vial: 99 Meth: IXBN1.M Data: PRIMER.D Area% Report :Default Quant Report :Default CR Database :Default ;;;;;ppbna .sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2	Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK01.D Area% Report :Default Quant Report :Default CR Database :Default ;;;;;ppbna .sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3	Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0711B1.D Area% Report :Default Quant Report :Default CR Database :Default DF0711B1;;;;;SV3529 ;;;;;ppbna.sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4	Type: Sample Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default CCV050PPM;;;;;SV3607 ;;;;;ppbna.sub;3605 Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5	Type: Sample Vial: 3 Meth: IXBN1.M Data: APP9ACCV.D Area% Report :Default Quant Report :Default CR Database :Default APP9ACCV050PPM;;;;;SV3625 ;;;;;ppbna.sub;3605 Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6	Type: QC Vial: 4 Meth: IXSOX1.M Data: SBLK0710.D Area% Report :Default Quant Report :Default CR Database :Default SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006 ;BLANK;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7	Type: QC Vial: 5 Meth: IXSOX1.M Data: SLCS0710.D Area% Report :Default Quant Report :Default CR Database :Default SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006 ;LCS;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8	Type: Sample Vial: 6 Meth: IXSOX1.M 0607022-08;15.1;500;1;UG/KG;10-JUL-2006 ch2.b07022;;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b

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Data: 0702208D.D Samp Amt: 0 Multiplr: 2
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

9 Type: Sample 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Vial: 7 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702210D.D Samp Amt: 0 Multiplr: 2
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Vial: 8 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702206D.D Samp Amt: 0 Multiplr: 200
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Vial: 9 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702207D.D Samp Amt: 0 Multiplr: 100
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Vial: 10 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702205D.D Samp Amt: 0 Multiplr: 20
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Vial: 11 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702209D.D Samp Amt: 0 Multiplr: 10
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Vial: 12 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702203D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Vial: 13 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702204D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Vial: 14 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702211D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Vial: 15 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702203R.D Samp Amt: 0 Multiplr: 1

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Area% Report	:Default	Lib. Search Rep.	:Default
Quant Report	:Default	Post-Quant Macro	:Default
CR Database	:Default	CR Spreadsheet	:Default

Comment: SW846-8270C/625
Operator: SDB
Data Path: F:\HPCHEM\1\DATA\071706b3\
Pre-Seq Cmd:
Post-Seq Cmd:

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Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0717B1	DFTPPLOW	DF0717B1;;;;;SV3177
3	Sample	2	SPCC020	PAHLOWS	SPCC020PPM;;;;;SV3628
4	Sample	3	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3624
5	Sample	4	SBLK0710	PAHLOWW	SBLK0710B1;1;1000;500;1;UG/L;
6	Sample	5	SLCS0710	PAHLOWW	SBLK0710B1LCS;1;1000;500;1;UG
7	Sample	6	0702201	PAHLOWW	0607022-01;1;980;500;1;UG/L;1
8	Sample	7	0702202	PAHLOWW	0607022-02;1;960;500;1;UG/L;1
9	Sample	8	OPHOS20	PAHLOWW	OPHOS020PPM;1;960;500;1;UG/L;
10	Sample	9	PHOS05	PAHLOWW	OPHOS0.50PPM;1;960;500;1;UG/L
11	Sample	10	PHOS01	PAHLOWW	OPHOS0.10PPM;1;960;500;1;UG/L

Comment: SW846-8270C/625
Operator: SDB
Data Path: F:\HPCHEM\1\DATA\071706b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;SV3177	
	Vial: 100	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: BLANK.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
2	Type: Sample	DF0717B1;;;;;SV3177	
	Vial: 1	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: DF0717B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
3	Type: Sample	SPCC020PPM;;;;;SV3628	
	Vial: 2	;;;;;;pahsurr.sub;3620	
	Meth: PAHLOWS.M	Barcode:	
	Data: SPCC020.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
4	Type: Sample	PAHCCV5.0PPM;;;;;SV3624	
	Vial: 3	;;;;;;pahsurr.sub;3620	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAHCCV.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
5	Type: Sample	SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006	
	Vial: 4	;3;BLANK;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: SBLK0710.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
6	Type: Sample	SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006	
	Vial: 5	;3;LCS;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: SLCS0710.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
7	Type: Sample	0607022-01;1;980;500;1;UG/L;10-JUL-2006	
	Vial: 6	ch2.b07022;;;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: 0702201.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method

Empirical Laboratories

```
8    Type: Sample          ch2.b07022;;;;;071006B1;pahsurr.sub;3620
     Vial: 7               Barcode:
     Meth: PAHLOWW.M       Samp Amt: 0          Multiplr: 1
     Data: 0702202.D      :per Method       Lib. Search Rep :per Method
     Area% Report         :per Method       Post-Quant Macro:per Method
     Quant Report         :per Method       CR Spreadsheet  :per Method
     CR Database
-------------------------------------------------------------------------
9    Type: Sample          OPHOS020PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 8               oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: OPHOS20.D       Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10   Type: Sample          OPHOS0.50PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 9               oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: PHOS05.D        Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11   Type: Sample          OPHOS0.10PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 10              oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: PHOS01.D        Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

7/18/06 2 of 7

ANALYTICAL REPORT

MAIN DATA PACKAGE – ORGANIC

SEMIVOLATILE PAH SECTION

CH2M Hill, Inc.

WO #0607022
Part 3 of 3

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607022

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-03	51CFM01S060706DL	5
0607022-03	51CFM01S060706	1
0607022-04	51CFM02S060706	1
0607022-04	51CFM02S060706DL	5
0607022-05	51CFM03S060706	1
0607022-05	51CFM03S060706DL	20
0607022-06	51CFM04S060706	1
0607022-06	51CFM04S060706DL	200
0607022-07	51CFM05S060706	1
0607022-07	51CFM05S060706DL	100
0607022-08	51CFM06S060706	1
0607022-08	51CFM06S060706DL	2
0607022-09	51CFM07S060706	1
0607022-09	51CFM07S060706DL	10
0607022-10	51CFM08S060706	1
0607022-10	51CFM08S060706DL	2
0607022-11	51DUP1S060706	1
0607022-11	51DUP1S060706DL	5

Semi-Volatile PAHs

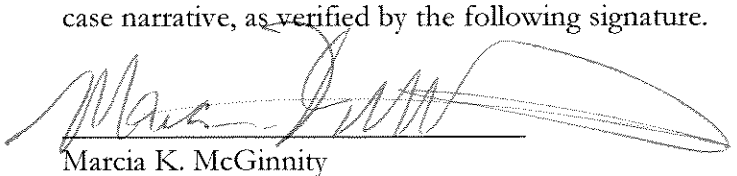
Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (automated soxtherm extraction followed by capillary column GC/MS) for soils and 3510C/8270C (separatory funnel extraction followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: The low concentration water PAH quantitation limits were obtained using 3510C extraction with a 0.5ml final volume and full scan 8270C analysis modified for increased sensitivity with calibration from 0.1ng/µL to 20ng/µL for a nominal water calibration range starting at 0.050µg/L. All instrument enhancements were applied to method QC as well as instrument QC.
- DFTPP Tuning: All method tuning criteria were met.
- Initial Calibration Criteria: All method criteria were met for the target analytes.
- Continuing Calibration Criteria: All method calibration criteria were met for the target analytes with the exception that benzo(k)fluoranthene and pyrene exceeded 20% difference on the high side at 21.7% and 30.2%, respectively, in the low concentration water calibration verification standard. These analytes were not detected in the associated samples.
- Blank Results: No target analytes were detected in the associated method blanks.
- Surrogate Recoveries: All surrogate recoveries were within limits for the water analyses and the diluted soil analyses. Recoveries of the surrogate d14-terphenyl exceeded the limit of 110% as high as 137% in some of the undiluted soil analyses – see form 2.

- Internal Standard Area Counts: Due to the sample matrix, d12-chrysene and/or d12-perylene area counts were below 50% of that found in the associated calibration standard as low as 14% for the undiluted analyses of the soil samples. All soil samples were reanalyzed at the dilutions indicated in the table above with area counts for the internal standards within 50% -200% of that found in the associated calibration verification standard.
- LCS Results: All recoveries were within limits. It should be noted that the spike solutions for the soil extractions did not include 1-methylnaphthalene.
- MS/MSD Results: In spike samples 51CFM01S060706MS/MSD, 12 of 34 recoveries and 7 of 17 relative percent differences were outside the control limits. See form 3 for specifics. This is attributed to sample matrix and analyte concentrations which required dilutions.
- Dilutions: The samples were analyzed at the dilutions indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

[redacted] Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022-															
01 1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J+ HCl pitted 3J+ UNPRES			Grab		
02 2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3				Grab		
03 3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J- UNPRES			Grab		
04 4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05 5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06 6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07 7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08 8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09 9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1				Grab		
-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks CH2M HILL Constructors, Inc.					
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	1300

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

3.0

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Twn Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnaphthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		35,10,11 - UNPRES	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
1023 01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,1K-UNPRES	Composite		
1022 12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2S-HCLPRES			
1023 02	TB-2-060706	✓	W	✓				2			✓			

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	BCW

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

3.0

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 COC ID(s): 346570-001

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Boto Today's Date 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-7

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen C
Frozen _____

# of Coolers 1 Temp. of Coolers 3.0

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0710B1	81	76	122						0
02	SBLK0710B1LC	88	69	95						0
03	51EQB1W06070	93	70	123						0
04	51EQB2W06070	75	67	117						0
05										
06										
07										
08										
09										
10										
11										
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28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	1.0
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	1.0
S3 (TPH) = Terphenyl-d14	(55-125)	1.0

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	51CFM01S0607	54	59	107						0
02	51CFM01S0607	58	57	112*						1
03	51CFM02S0607	68	67	102						0
04	51CFM03S0607	59	55	95						0
05	51CFM04S0607	58	64	150*						1
06	51CFM05S0607	44	51	115*						1
07	51CFM06S0607	61	56	107						0
08	51CFM07S0607	60	58	103						0
09	51CFM08S0607	57	57	137*						1
10	51DUP1S06070	52	56	123*						1
11	SBLK0710BS1	58	54	74						0
12	SBLK0710BS1L	58	56	97						0
13	51CFM06S0607	65D	59D	66D						0
14	51CFM08S0607	65D	60D	77D						0
15	51CFM04S0607	0D	0D	0D						0
16	51CFM05S0607	0D	0D	0D						0
17	51CFM03S0607	52D	51D	48D						0
18	51CFM07S0607	57D	54D	49D						0
19	51CFM01S0607	67D	66D	70D						0
20	51CFM02S0607	58D	62D	64D						0
21	51DUP1S06070	74D	79D	94D						0
22	51CFM01S0607	55	59	72						0
23										
24										
25										
26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	3400
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	3400
S3 (TPH) = Terphenyl-d14	(55-110)	3400

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710B1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	1.000	0.0000	0.7094	71	40-110
Acenaphthylene	1.000	0.0000	0.6969	70	45-110
Anthracene	1.000	0.0000	0.7829	78	65-125
Benzo(a)anthracene	1.000	0.0000	0.8103	81	60-130
Benzo(b)fluoranthene	1.000	0.0000	0.7275	73	50-135
Benzo(k)fluoranthene	1.000	0.0000	1.002	100	50-140
Benzo(g,h,i)perylene	1.000	0.0000	0.6836	68	50-150
Benzo(a)pyrene	1.000	0.0000	0.7216	72	55-145
Chrysene	1.000	0.0000	0.9537	95	60-130
Dibenz(a,h)anthracene	1.000	0.0000	0.6189	62	55-145
Fluoranthene	1.000	0.0000	0.8450	84	65-130
Fluorene	1.000	0.0000	0.7345	73	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.0000	0.7262	73	50-150
2-Methylnaphthalene	1.000	0.0000	0.6906	69	25-110
1-Methylnaphthalene	1.000	0.0000	0.6922	69	25-110
Naphthalene	1.000	0.0000	0.6733	67	25-110
Phenanthrene	1.000	0.0000	0.7479	75	65-120
Pyrene	1.000	0.0000	1.053	105	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: SBLK0710BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2209	66	45-110
Acenaphthylene	3333	0.0000	2244	67	50-105
Anthracene	3333	0.0000	2690	81	55-105
Benzo(a)anthracene	3333	0.0000	3040	91	60-110
Benzo(b)fluoranthene	3333	0.0000	3186	96	55-115
Benzo(k)fluoranthene	3333	0.0000	2820	85	55-110
Benzo(g,h,i)perylene	3333	0.0000	3004	90	35-135
Benzo(a)pyrene	3333	0.0000	3115	93	60-120
Chrysene	3333	0.0000	2939	88	55-105
Dibenz(a,h)anthracene	3333	0.0000	2828	85	40-130
Fluoranthene	3333	0.0000	2734	82	55-110
Fluorene	3333	0.0000	2445	73	50-105
Indeno(1,2,3-cd)pyrene	3333	0.0000	3147	94	40-130
2-Methylnaphthalene	3333	0.0000	1772	53	40-110
Naphthalene	3333	0.0000	1684	50	30-110
Phenanthrene	3333	0.0000	2728	82	55-105
Pyrene	3333	0.0000	3284	98	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	3401	389.1	2633	66	45-110
Acenaphthylene	3401	0.0000	2422	71	50-105
Anthracene	3401	689.7	3310	77	55-105
Benzo(a)anthracene	3401	3288	5681	70	60-110
Benzo(b)fluoranthene	3401	4733	8525	111	55-115
Benzo(k)fluoranthene	3401	1590	4136	75	55-110
Benzo(g,h,i)perylene	3401	1697	3275	46	35-135
Benzo(a)pyrene	3401	3616	6299	79	60-120
Chrysene	3401	4061	6411	69	55-105
Dibenz(a,h)anthracene	3401	520.6	2509	58	40-130
Fluoranthene	3401	5450	7065	47*	55-110
Fluorene	3401	401.9	2646	66	50-105
Indeno(1,2,3-cd)pyrene	3401	1892	3514	48	40-130
2-Methylnaphthalene	3401	74.21	1824	51	40-110
Naphthalene	3401	31.69	1639	47	30-110
Phenanthrene	3401	3631	5456	54*	55-105
Pyrene	3401	4811	8838	118*	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3401	3214	83	20	50	45-110
Acenaphthylene	3401	2382	70	2	50	50-105
Anthracene	3401	4748	119*	36	50	55-105
Benzo(a)anthracene	3401	10670	217*	61*	50	60-110
Benzo(b)fluoranthene	3401	16720	352*	65*	50	55-115
Benzo(k)fluoranthene	3401	6329	139*	42	50	55-110
Benzo(g,h,i)perylene	3401	4878	94	39	50	35-135
Benzo(a)pyrene	3401	11920	244*	62*	50	60-120
Chrysene	3401	11760	226*	59*	50	55-105
Dibenz(a,h)anthracene	3401	3448	86	32	50	40-130
Fluoranthene	3401	14960	280*	72*	50	55-110
Fluorene	3401	3484	91	27	50	50-105
Indeno(1,2,3-cd)pyrene	3401	5480	105	44	50	40-130
2-Methylnaphthalene	3401	2003	57	9	50	40-110
Naphthalene	3401	1846	53	12	50	30-110
Phenanthrene	3401	14200	311*	89*	50	55-105
Pyrene	3401	21100	479*	82*	50	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 7 out of 17 outside limits
Spike Recovery: 12 out of 34 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710B1

Instrument ID: BNA3 Date Extracted: 07/10/06

Matrix: (soil/water) WATER Date Analyzed: 07/17/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1440

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06
02	51EQB1W06070	0607022-01	0702201	07/17/06
03	51EQB2W06070	0607022-02	0702202	07/17/06
04				
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COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: SBLK0710 Lab Sample ID: SBLK0710BS1

Instrument ID: BNA1 Date Extracted: 07/10/06

Matrix: (soil/water) SOIL Date Analyzed: 07/11/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1055

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	51CFM01S0607	0607022-03	0702203M	07/10/06
02	51CFM01S0607	0607022-03	0702203S	07/10/06
03	51CFM02S0607	0607022-04	0702204	07/10/06
04	51CFM03S0607	0607022-05	0702205	07/10/06
05	51CFM04S0607	0607022-06	0702206	07/10/06
06	51CFM05S0607	0607022-07	0702207	07/10/06
07	51CFM06S0607	0607022-08	0702208	07/10/06
08	51CFM07S0607	0607022-09	0702209	07/10/06
09	51CFM08S0607	0607022-10	0702210	07/10/06
10	51DUP1S06070	0607022-11	0702211	07/10/06
11	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06
12	51CFM06S0607	0607022-08	0702208D	07/11/06
13	51CFM08S0607	0607022-10	0702210D	07/11/06
14	51CFM04S0607	0607022-06	0702206D	07/11/06
15	51CFM05S0607	0607022-07	0702207D	07/11/06
16	51CFM03S0607	0607022-05	0702205D	07/11/06
17	51CFM07S0607	0607022-09	0702209D	07/11/06
18	51CFM01S0607	0607022-03	0702203D	07/11/06
19	51CFM02S0607	0607022-04	0702204D	07/11/06
20	51DUP1S06070	0607022-11	0702211D	07/11/06
21	51CFM01S0607	0607022-03	0702203R	07/11/06
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0421B1 DFTPP Injection Date: 04/21/06

Instrument ID: BNA3 DFTPP Injection Time: 1524

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.24
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	11.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHCCV0.10PP	PAHCCV0.10PPM	PAH001	04/21/06	1628
02	PAHCCV0.20PP	PAHCCV0.20PPM	PAH002	04/21/06	1708
03	PAHCCV0.40PP	PAHCCV0.40PPM	PAH003	04/21/06	1748
04	PAHCCV0.60PP	PAHCCV0.60PPM	PAH004	04/21/06	1828
05	PAHCCV1.00PP	PAHCCV1.00PPM	PAH006	04/21/06	1908
06	PAHCCV2.50PP	PAHCCV2.50PPM	PAH008	04/21/06	1948
07	PAHCCV5.00PP	PAHCCV5.00PPM	PAH009	04/21/06	2027
08	PAHCCV10.0PP	PAHCCV10.0PPM	PAH011	04/21/06	2107
09	PAHCCV20.0PP	PAHCCV20.0PPM	PAH013	04/21/06	2147
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0717B1 DFTPP Injection Date: 07/17/06

Instrument ID: BNA3 DFTPP Injection Time: 1257

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.92
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	56.2
443	17.0 - 23.0% of mass 442	10.8 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SPCC020PPM	SPCC020PPM	SPCC020	07/17/06	1318
02	PAHCCV5.0PPM	PAHCCV5.0PPM	PAHCCV	07/17/06	1359
03	SBLK0710B1	SBLK0710B1	SBLK0710	07/17/06	1440
04	SBLK0710B1LC	SBLK0710B1LCS	SLCS0710	07/17/06	1521
05	51EQB1W06070	0607022-01	0702201	07/17/06	1602
06	51EQB2W06070	0607022-02	0702202	07/17/06	1643
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0207B1 DFTPP Injection Date: 02/07/06

Instrument ID: BNA1 DFTPP Injection Time: 1016

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.0% of mass 198	2.53
441	Present, but less than mass 443	12.3
442	Greater than 40.0% of mass 198	76.3
443	17.0 - 23.0% of mass 442	13.9 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	APP9A002PPM	APP9A002PPM	APPA002	02/07/06	1038
02	APP9A005PPM	APP9A005PPM	APPA005	02/07/06	1113
03	APP9A010PPM	APP9A010PPM	APPA010	02/07/06	1149
04	APP9A020PPM	APP9A020PPM	APPA020	02/07/06	1225
05	APP9A030PPM	APP9A030PPM	APPA030	02/07/06	1301
06	APP9A050PPM	APP9A050PPM	APPA050	02/07/06	1337
07	APP9A070PPM	APP9A070PPM	APPA070	02/07/06	1413
08	APP9A100PPM	APP9A100PPM	APPA100	02/07/06	1449
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0710B1 DFTPP Injection Date: 07/10/06

Instrument ID: BNA1 DFTPP Injection Time: 0814

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	80.3
70	Less than 2.0% of mass 69	1.0 (1.3)1
127	40.0 - 60.0% of mass 198	50.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	3.07
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.0
443	17.0 - 23.0% of mass 442	15.0 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050S	07/10/06	0835
02	51CFM01S0607	0607022-03	0702203M	07/10/06	1355
03	51CFM01S0607	0607022-03	0702203S	07/10/06	1430
04	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/10/06	1506
05	51CFM02S0607	0607022-04	0702204	07/10/06	1542
06	51CFM03S0607	0607022-05	0702205	07/10/06	1617
07	51CFM04S0607	0607022-06	0702206	07/10/06	1652
08	51CFM05S0607	0607022-07	0702207	07/10/06	1728
09	51CFM06S0607	0607022-08	0702208	07/10/06	1803
10	51CFM07S0607	0607022-09	0702209	07/10/06	1838
11	51CFM08S0607	0607022-10	0702210	07/10/06	1914
12	51DUP1S06070	0607022-11	0702211	07/10/06	1949
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID: DF0711B1 DFTPP Injection Date: 07/11/06

Instrument ID: BNA1 DFTPP Injection Time: 0923

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.5
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.72
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	72.8
443	17.0 - 23.0% of mass 442	14.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/11/06	0943
02	APP9ACCV050P	APP9ACCV050PPM	APP9ACCV	07/11/06	1019
03	SBLK0710BS1	SBLK0710BS1	SBLK0710	07/11/06	1055
04	SBLK0710BS1L	SBLK0710BS1LCS	SLCS0710	07/11/06	1130
05	51CFM06S0607	0607022-08	0702208D	07/11/06	1206
06	51CFM08S0607	0607022-10	0702210D	07/11/06	1242
07	51CFM04S0607	0607022-06	0702206D	07/11/06	1317
08	51CFM05S0607	0607022-07	0702207D	07/11/06	1353
09	51CFM03S0607	0607022-05	0702205D	07/11/06	1429
10	51CFM07S0607	0607022-09	0702209D	07/11/06	1504
11	51CFM01S0607	0607022-03	0702203D	07/11/06	1540
12	51CFM02S0607	0607022-04	0702204D	07/11/06	1616
13	51DUP1S06070	0607022-11	0702211D	07/11/06	1651
14	51CFM01S0607	0607022-03	0702203R	07/11/06	1727
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	91793		5.45		440409		8.06		269649		12.19	
	UPPER LIMIT	183586		5.95		880818		8.56		539298		12.69	
	LOWER LIMIT	45897		4.95		220205		7.56		134825		11.69	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	121658		5.46		465446		8.06		273330		12.18	
02	SBLK0710B1LC	138773		5.45		538678		8.05		349243		12.19	
03	51EQB1W06070	129959		5.45		457000		8.06		300801		12.19	
04	51EQB2W06070	97583		5.45		420705		8.06		244864		12.19	
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19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): PAHCCV Date Analyzed: 07/17/06

Instrument ID: BNA3 Time Analyzed: 1359

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	361669		15.71		239219		22.13		175042		25.33	
	UPPER LIMIT	723338		16.21		478438		22.63		350084		25.83	
	LOWER LIMIT	180835		15.21		119610		21.63		87521		24.83	
	CLIENT SAMPLE NO.												
01	SBLK0710B1	357800		15.71		193201		22.14		138896		25.33	
02	SBLK0710B1LC	475655		15.70		301390		22.13		223318		25.33	
03	51EQB1W06070	393613		15.71		192506		22.13		139977		25.33	
04	51EQB2W06070	337290		15.72		207600		22.13		161426		25.33	
05													
06													
07													
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20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	490511		4.28		1549037		5.29		762535		7.72	
	UPPER LIMIT	981022		4.78		3098074		5.79		1525070		8.22	
	LOWER LIMIT	245256		3.78		774519		4.79		381268		7.22	
	CLIENT SAMPLE NO.												
01	51CFM01S0607	463784		4.27		1571829		5.29		729802		7.71	
02	51CFM01S0607	455682		4.28		1464992		5.28		766940		7.72	
03	51CFM02S0607	362980		4.27		1244309		5.28		563237		7.71	
04	51CFM03S0607	376135		4.27		1244549		5.28		622642		7.71	
05	51CFM04S0607	579739		4.28		2005483		5.28		937164		7.72	
06	51CFM05S0607	569244		4.27		2035797		5.28		892557		7.72	
07	51CFM06S0607	498939		4.28		1742860		5.28		860611		7.71	
08	51CFM07S0607	424515		4.27		1484378		5.28		732415		7.71	
09	51CFM08S0607	522925		4.27		1821101		5.28		886023		7.71	
10	51DUP1S06070	588667		4.27		1995612		5.28		967098		7.71	
11													
12													
13													
14													
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17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050S Date Analyzed: 07/10/06

Instrument ID: BNA1 Time Analyzed: 0835

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	979351		11.02		678371		18.44		671653		22.27	
	UPPER LIMIT	1958702		11.52		1356742		18.94		1343306		22.77	
	LOWER LIMIT	489676		10.52		339186		17.94		335827		21.77	
	CLIENT SAMPLE NO.												
01	51CFM01S0607	912148		11.02		479872		18.47		254990	*	22.29	
02	51CFM01S0607	920312		11.04		404607		18.51		209947	*	22.31	
03	51CFM02S0607	711652		11.01		374962		18.43		195060	*	22.26	
04	51CFM03S0607	710268		11.03		299270	*	18.48		160313	*	22.29	
05	51CFM04S0607	821642		11.12		223360	*	18.56		114069	*	22.33	
06	51CFM05S0607	945614		11.08		215513	*	18.55		92065	*	22.34	
07	51CFM06S0607	1078920		11.02		369663		18.43		198523	*	22.27	
08	51CFM07S0607	820238		11.03		244512	*	18.47		129670	*	22.30	
09	51CFM08S0607	1052422		11.02		299916	*	18.44		157786	*	22.28	
10	51DUP1S06070	1135313		11.02		350216		18.45		196508	*	22.29	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	470349		4.24		1533236		5.24		784651		7.64	
	UPPER LIMIT	940698		4.74		3066472		5.74		1569302		8.14	
	LOWER LIMIT	235175		3.74		766618		4.74		392326		7.14	
	CLIENT SAMPLE NO.												
01	SBLK0710BS1	417530		4.24		1466963		5.23		713763		7.63	
02	SBLK0710BS1L	538017		4.24		1842774		5.24		947550		7.65	
03	51CFM06S0607	561867		4.24		1957507		5.23		954793		7.64	
04	51CFM08S0607	576810		4.24		1935806		5.23		991861		7.64	
05	51CFM04S0607	550037		4.23		1768695		5.24		910077		7.64	
06	51CFM05S0607	522989		4.24		1812935		5.23		891228		7.64	
07	51CFM03S0607	566806		4.24		1945729		5.24		977628		7.64	
08	51CFM07S0607	541204		4.24		1862652		5.24		930885		7.64	
09	51CFM01S0607	554399		4.24		1861201		5.23		974269		7.64	
10	51CFM02S0607	495619		4.24		1785336		5.24		858789		7.64	
11	51DUP1S06070	534771		4.24		1877607		5.23		918759		7.64	
12	51CFM01S0607	527249		4.24		1840100		5.24		900802		7.64	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Lab File ID (Standard): CCV050 Date Analyzed: 07/11/06

Instrument ID: BNA1 Time Analyzed: 0943

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1083046		10.92		817298		18.33		813632		22.18	
	UPPER LIMIT	2166092		11.42		1634596		18.83		1627264		22.68	
	LOWER LIMIT	541523		10.42		408649		17.83		406816		21.68	
	CLIENT SAMPLE NO.												
01	SBLK0710BS1	981779		10.92		796917		18.32		815226		22.16	
02	SBLK0710BS1L	1224866		10.94		743527		18.35		668049		22.18	
03	51CFM06S0607	1198277		10.92		833738		18.32		770123		22.16	
04	51CFM08S0607	1290131		10.92		867995		18.33		850543		22.16	
05	51CFM04S0607	1219549		10.92		928463		18.32		954726		22.17	
06	51CFM05S0607	1162136		10.92		943983		18.33		967641		22.17	
07	51CFM03S0607	1321612		10.92		1068214		18.33		1098925		22.18	
08	51CFM07S0607	1267737		10.93		1006098		18.34		1014347		22.18	
09	51CFM01S0607	1309895		10.93		1003686		18.34		1036314		22.19	
10	51CFM02S0607	1091272		10.92		770234		18.33		729191		22.16	
11	51DUP1S06070	1231851		10.92		923091		18.33		903015		22.18	
12	51CFM01S0607	1077989		10.94		800087		18.39		639204		22.23	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 0702201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.051		U
208-96-8	Acenaphthylene	0.0087	0.051		U
120-12-7	Anthracene	0.0097	0.051		U
56-55-3	Benzo(a)anthracene	0.011	0.051		U
205-99-2	Benzo(b)fluoranthene	0.016	0.051		U
207-08-9	Benzo(k)fluoranthene	0.013	0.051		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.051		U
50-32-8	Benzo(a)pyrene	0.0097	0.051		U
218-01-9	Chrysene	0.0092	0.051		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.051		U
206-44-0	Fluoranthene	0.012	0.051		U
86-73-7	Fluorene	0.013	0.051		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.051		U
91-57-6	2-Methylnaphthalene	0.016	0.051		U
90-12-0	1-Methylnaphthalene	0.010	0.051		U
91-20-3	Naphthalene	0.019	0.051		U
85-01-8	Phenanthrene	0.014	0.051		U
129-00-0	Pyrene	0.011	0.051		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Lab Smp Id: 0607022-01 Client Smp ID: 51EQB1W060706
Inj Date : 17-JUL-2006 16:02 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-01;1;980;500;1;UG/L;10-JUL-2006
Misc Info : ch2.b07022;;;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

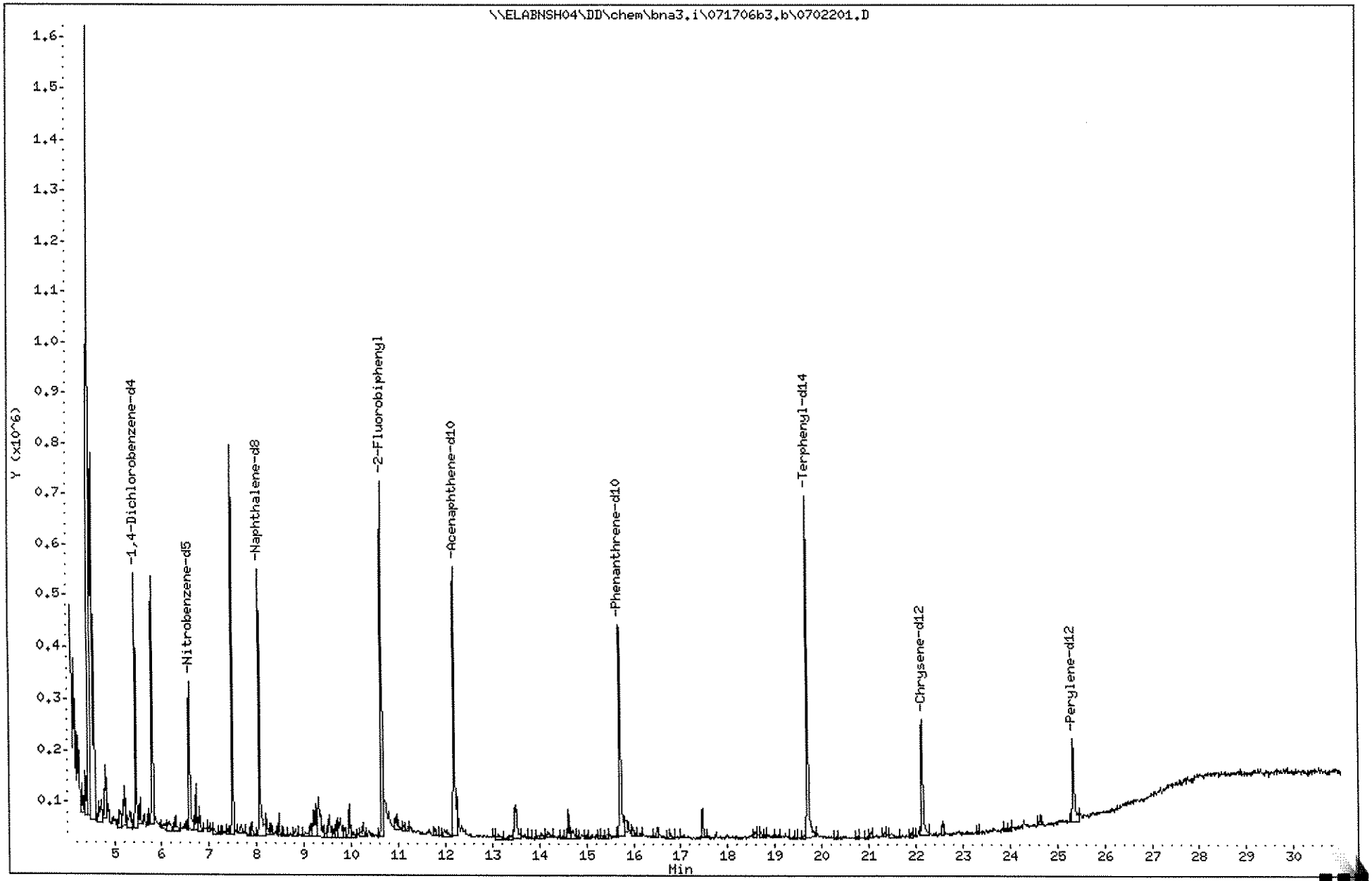
Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	980.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1 1,4-Dichlorobenzene-d4	152	5.454	5.452	(1.000)	129959	1.00000	
* 3 Naphthalene-d8	136	8.057	8.055	(1.000)	457000	1.00000	
$ 4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	217110	1.85618	0.9470
* 8 Acenaphthene-d10	164	12.190	12.188	(1.000)	300801	1.00000	
$ 10 2-Fluorobiphenyl	172	10.649	10.648	(0.874)	510020	1.40567	0.7172
* 16 Phenanthrene-d10	188	15.706	15.704	(1.000)	393613	1.00000	
* 20 Chrysene-d12	240	22.134	22.132	(1.000)	192506	1.00000	
$ 22 Terphenyl-d14	244	19.691	19.690	(0.890)	450247	2.45664	1.253
* 25 Perylene-d12	264	25.331	25.340	(1.000)	139977	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702201.D
Date : 17-JUL-2006 16:02
Client ID: 51EQB1W060706
Instrument: bna3.i
Sample Info: 0607022-01:1:980:500:1:UG/L:10-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000029



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 0702202

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 16:43

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.052		U
208-96-8	Acenaphthylene	0.0088	0.052		U
120-12-7	Anthracene	0.0099	0.052		U
56-55-3	Benzo(a)anthracene	0.011	0.052		U
205-99-2	Benzo(b)fluoranthene	0.017	0.052		U
207-08-9	Benzo(k)fluoranthene	0.014	0.052		U
191-24-2	Benzo(g,h,i)perylene	0.014	0.052		U
50-32-8	Benzo(a)pyrene	0.0099	0.052		U
218-01-9	Chrysene	0.0094	0.052		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.052		U
206-44-0	Fluoranthene	0.012	0.052		U
86-73-7	Fluorene	0.013	0.052		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.019	0.052		U
91-57-6	2-Methylnaphthalene	0.017	0.052		U
90-12-0	1-Methylnaphthalene	0.010	0.052		U
91-20-3	Naphthalene	0.020	0.052		U
85-01-8	Phenanthrene	0.014	0.052		U
129-00-0	Pyrene	0.011	0.052		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Lab Smp Id: 0607022-02 Client Smp ID: 51EQB2W060706
Inj Date : 17-JUL-2006 16:43 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-02;1;960;500;1;UG/L;10-JUL-2006
Misc Info : ch2.b07022;;;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	960.000	Volume of initial extraction

7/18/06

7/18/06

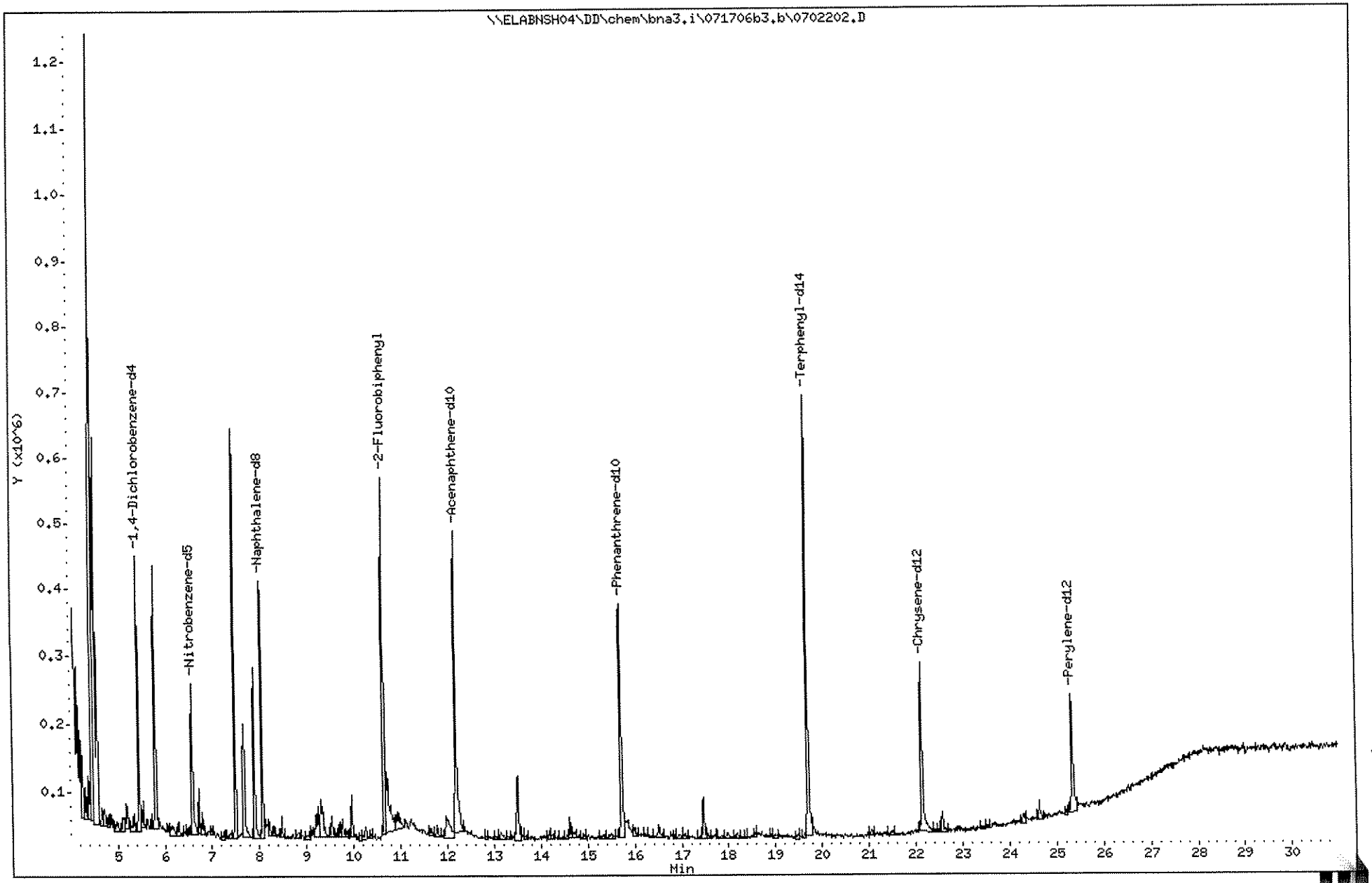
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1 1,4-Dichlorobenzene-d4	152	5.453	5.452	(1.000)	97583	1.00000	
* 3 Naphthalene-d8	136	8.056	8.055	(1.000)	420705	1.00000	
$ 4 Nitrobenzene-d5	82	6.583	6.584	(0.817)	162493	1.50908	0.7860
* 8 Acenaphthene-d10	164	12.189	12.188	(1.000)	244864	1.00000	
$ 10 2-Fluorobiphenyl	172	10.647	10.648	(0.874)	396492	1.34241	0.6992
* 16 Phenanthrene-d10	188	15.716	15.704	(1.000)	337290	1.00000	
* 20 Chrysene-d12	240	22.133	22.132	(1.000)	207600	1.00000	
$ 22 Terphenyl-d14	244	19.689	19.690	(0.890)	463031	2.34270	1.220
* 25 Perylene-d12	264	25.329	25.340	(1.000)	161426	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\0702202.D
Date : 17-JUL-2006 16:43
Client ID: 51EQB2W060706
Sample Info: 0607022-02;1;960;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: SDB
Column diameter: 0.25

000032



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203R

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 17:27

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	390	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	690	
56-55-3	Benzo(a)anthracene	20	170	3300	
205-99-2	Benzo(b)fluoranthene	20	170	4700	E
207-08-9	Benzo(k)fluoranthene	20	170	1600	
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	3600	E
218-01-9	Chrysene	20	170	4100	E
53-70-3	Dibenz(a,h)anthracene	20	100	520	
206-44-0	Fluoranthene	20	170	5400	E
86-73-7	Fluorene	20	170	400	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	74	J
90-12-0	1-Methylnaphthalene	51	170		U
91-20-3	Naphthalene	20	170	32	J
85-01-8	Phenanthrene	20	170	3600	E
129-00-0	Pyrene	20	170	4800	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 11-JUL-2006 17:27
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.240	4.235	(1.000)	527249	40.0000	
*	31 Naphthalene-d8	136	5.237	5.240	(1.000)	1840100	40.0000	
$	32 Nitrobenzene-d5	82	4.667	4.668	(0.891)	1112091	55.3637	1883
	47 Naphthalene	128	5.251	5.254	(1.003)	42622	0.93162	31.69(a)
	51 2-Methylnaphthalene	141	5.999	6.004	(1.145)	57357	2.18181	74.21(a)
*	65 Acenaphthene-d10	164	7.642	7.641	(1.000)	900802	40.0000	
$	70 2-Fluorobiphenyl	172	6.556	6.555	(0.858)	1705178	59.4836	2023
	76 Acenaphthene	153	7.691	7.703	(1.006)	297395	11.4394	389.1
	84 Fluorene	166	8.724	8.727	(1.141)	328555	11.8161	401.9
*	97 Phenanthrene-d10	188	10.935	10.923	(1.000)	1077989	40.0000	
	106 Phenanthrene	178	11.004	10.986	(1.006)	3281125	106.753	3631(A)
	107 Anthracene	178	11.101	11.096	(1.015)	615270	20.2763	689.7
	110 Fluoranthene	202	14.262	14.195	(1.304)	4875510	160.222	5450(A)

7/12/06

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Report Date: 12-Jul-2006 12:12

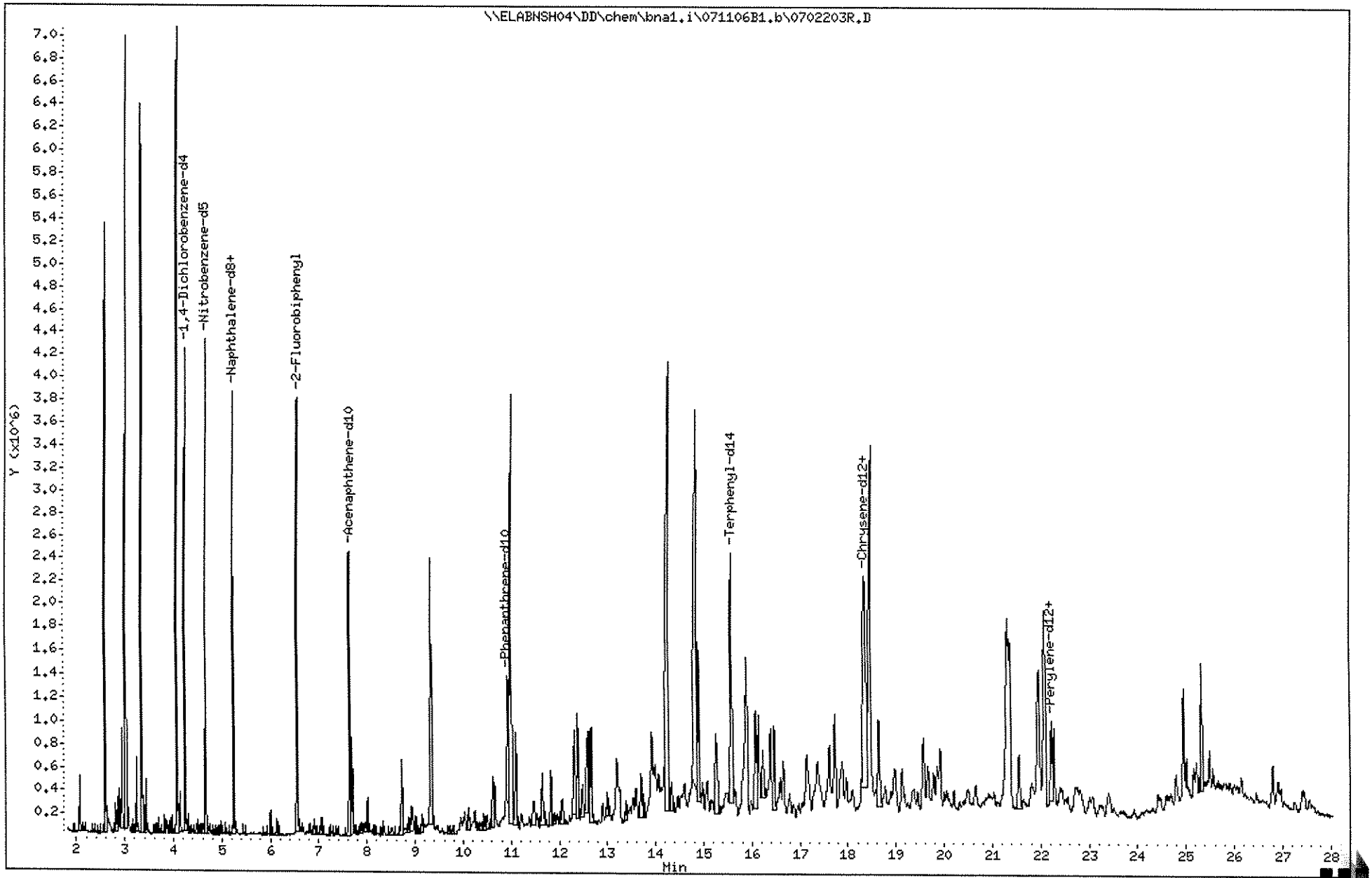
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 124 Chrysene-d12	240	18.386	18.333	(1.000)	800087	40.0000	
126 Pyrene	202	14.841	14.770	(0.807)	4519295	141.437	4811(A)
$ 127 Terphenyl-d14	244	15.581	15.545	(0.847)	1450475	71.7942	2442
130 Benzo(a)anthracene	228	18.351	18.291	(0.998)	2492085	96.6716	3288
131 Chrysene	228	18.470	18.409	(1.005)	2811142	119.393	4061(AH)
* 145 Perylene-d12	264	22.228	22.175	(1.000)	639204	40.0000	
147 Benzo(b)fluoranthene	252	21.332	21.248	(0.960)	2740162	139.163	4733(AM)
148 Benzo(k)fluoranthene	252	21.374	21.317	(0.962)	954713	46.7338	1590(M)
149 Benzo(a)pyrene	252	22.101	22.017	(0.994)	1805256	106.323	3616(AH)
150 Indeno(1,2,3-cd)pyrene	276	24.964	24.921	(1.123)	805763	55.6229	1892
151 Dibenz(a,h)anthracene	278	25.014	24.998	(1.125)	223234	15.3072	520.6
152 Benzo(g,h,i)perylene	276	25.333	25.301	(1.140)	749978	49.8889	1697

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D
Date : 11-JUL-2006 17:27
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000036



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

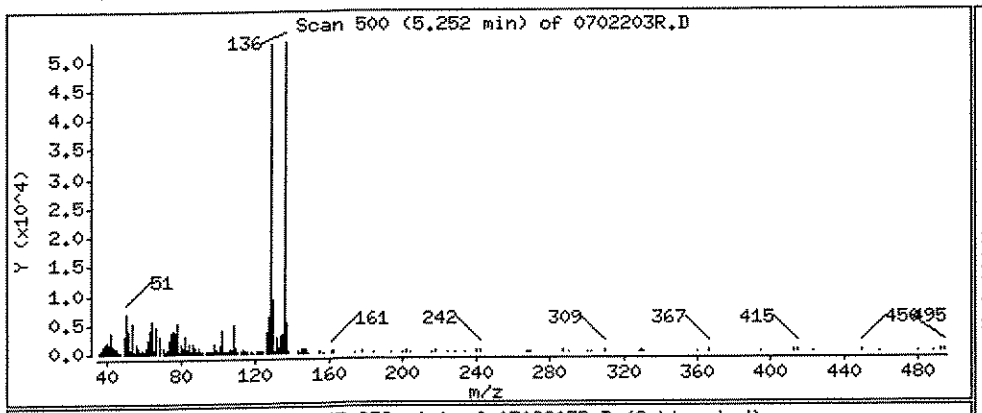
Client ID: 51CFM01S060706 Instrument: bna1.i

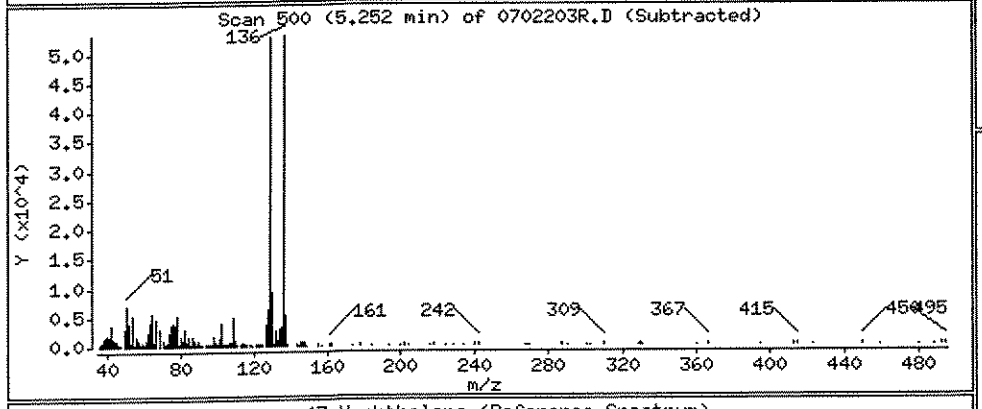
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

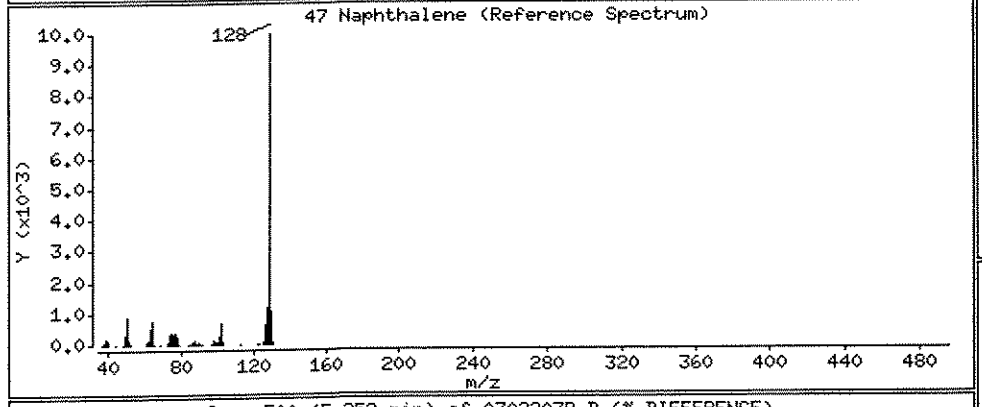
Volume Injected (uL): 0.5 Operator: SDB

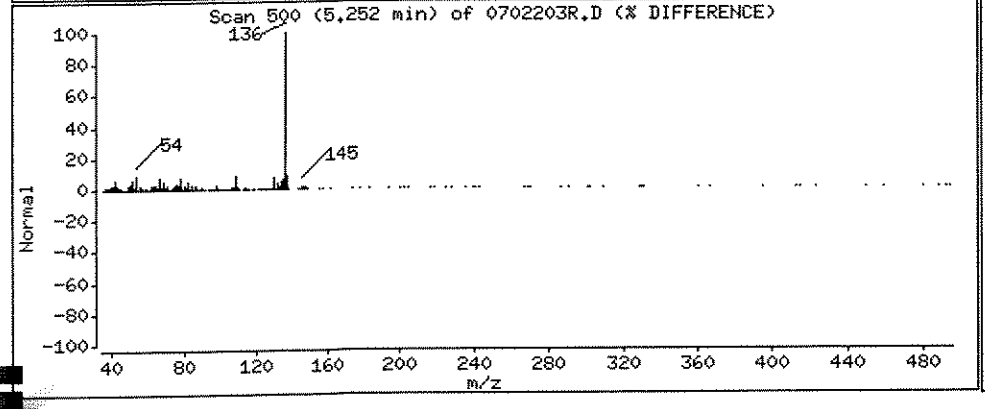
Column phase: fused silica Column diameter: 0.25

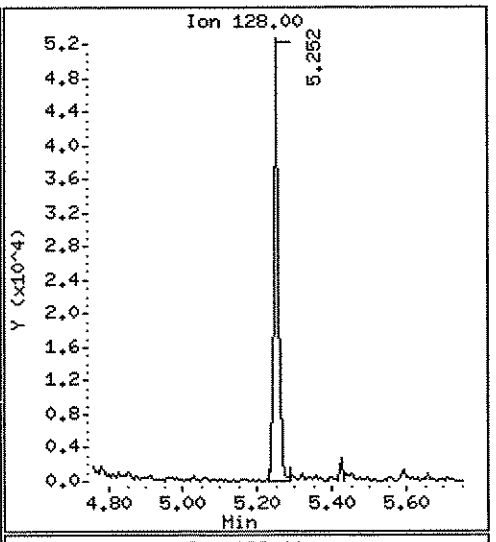
47 Naphthalene Concentration: 31.69 UG/KG

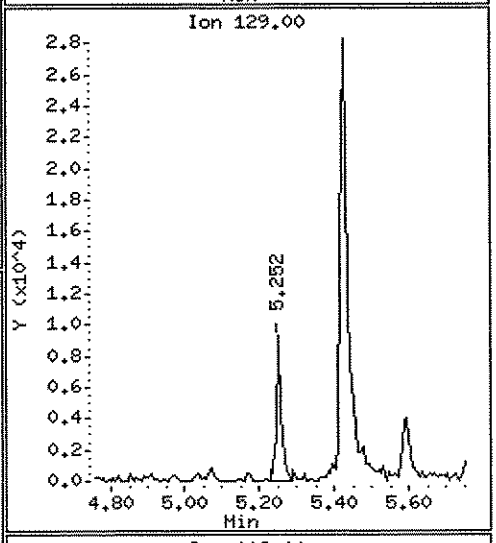


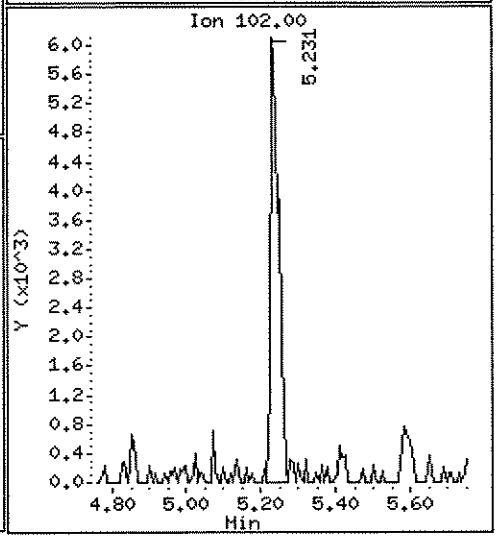












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Date : 11-JUL-2006 17:27

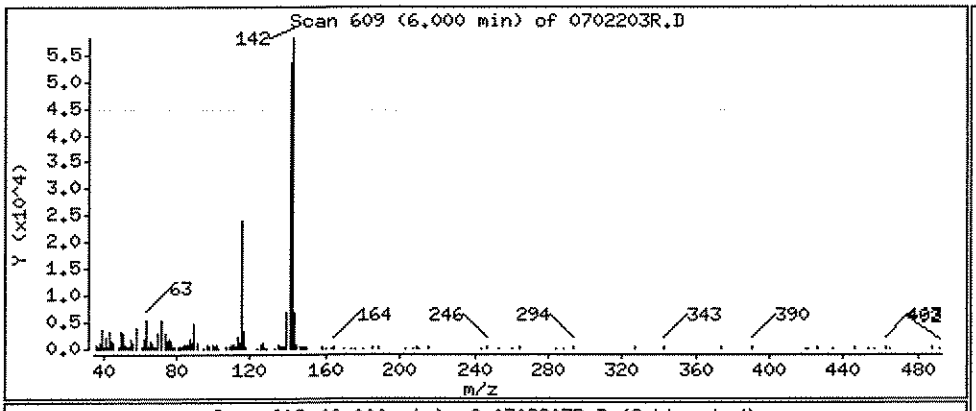
Client ID: 51CFM01S060706 Instrument: bna1.i

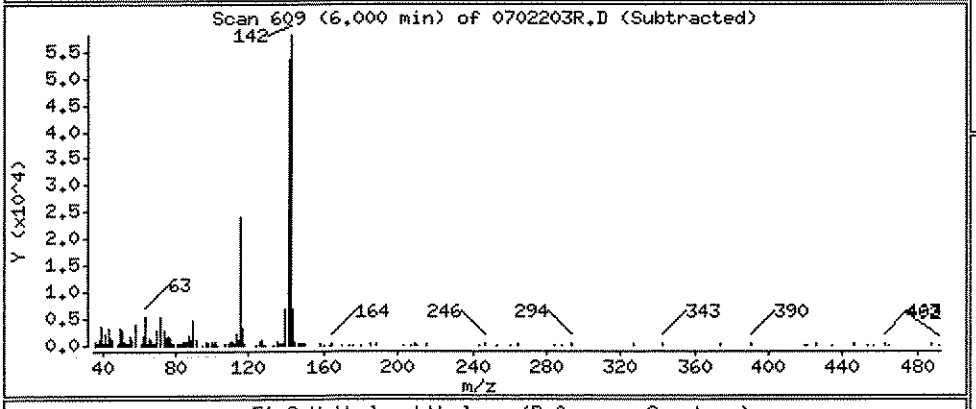
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

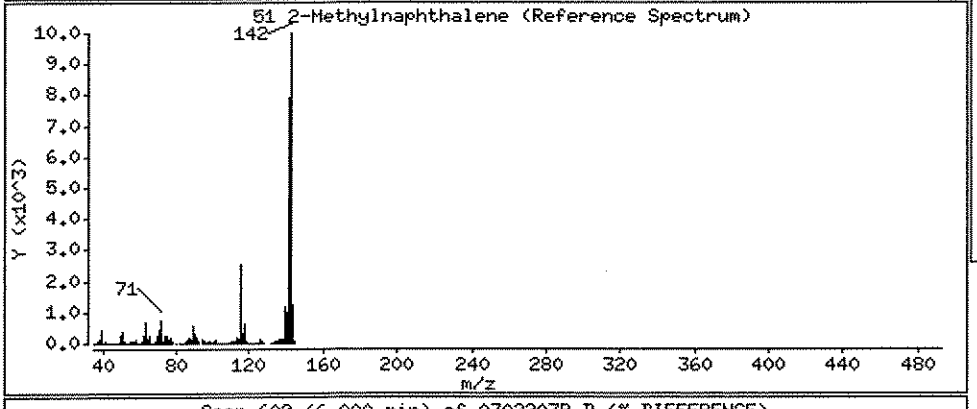
Volume Injected (uL): 0.5 Operator: SDB

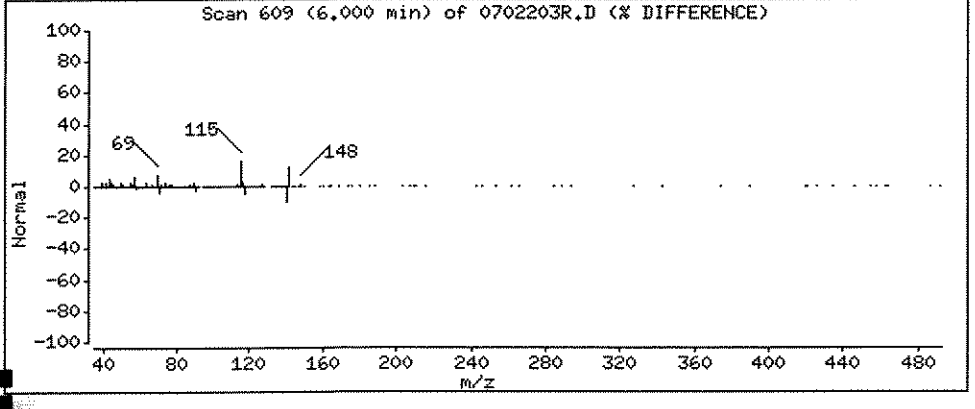
Column phase: fused silica Column diameter: 0.25

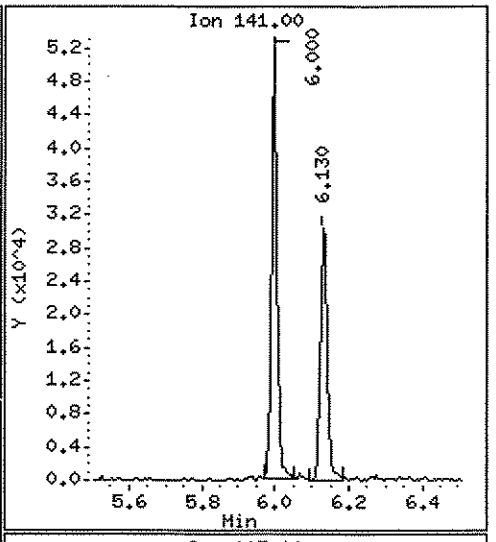
51 2-Methylnaphthalene Concentration: 74.21 UG/KG

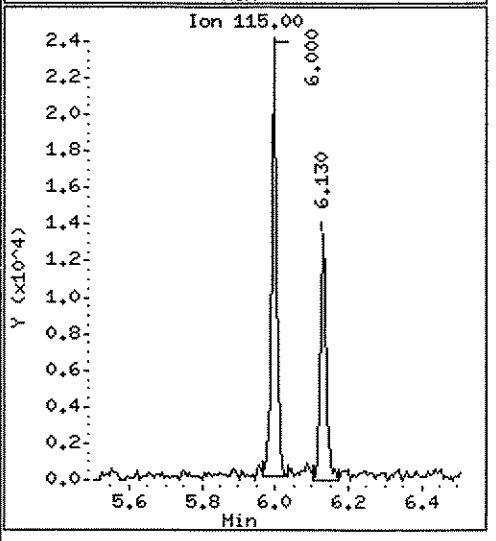












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Date : 11-JUL-2006 17:27

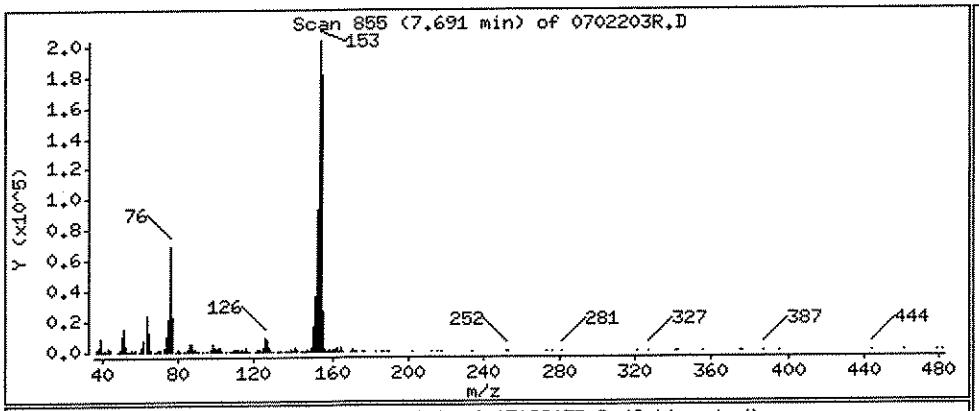
Client ID: 51CFM01S060706 Instrument: bna1.i

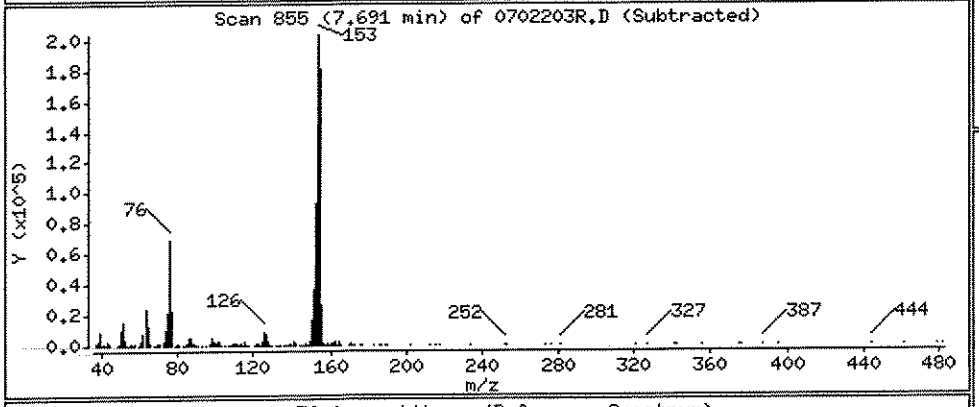
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

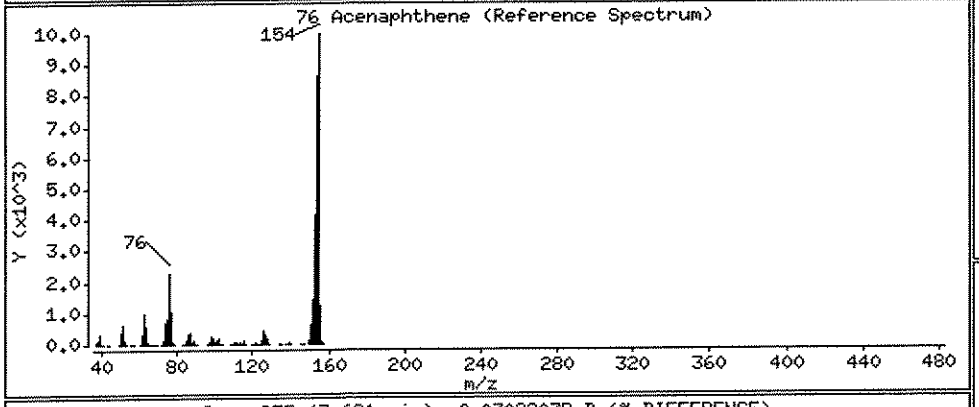
Volume Injected (uL): 0.5 Operator: SDB

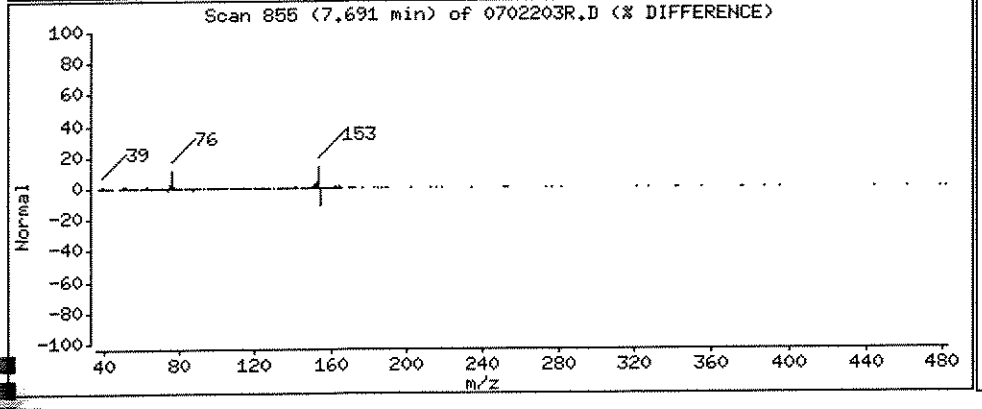
Column phase: fused silica Column diameter: 0.25

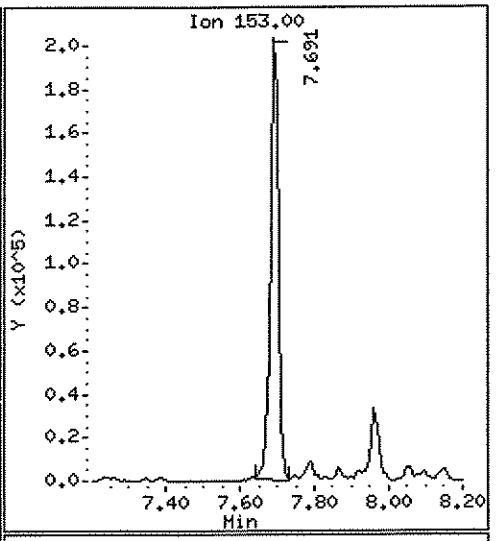
76 Acenaphthene Concentration: 389.1 UG/KG

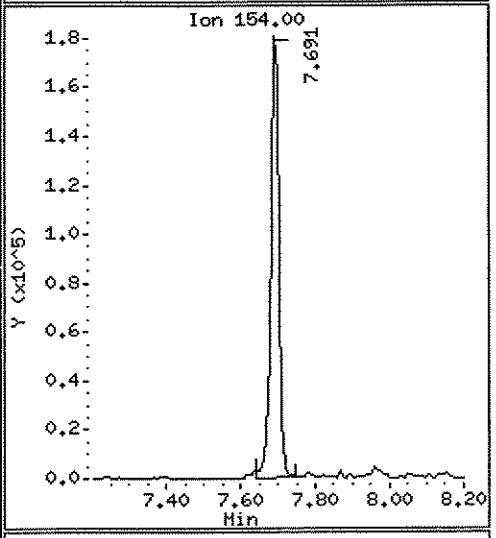


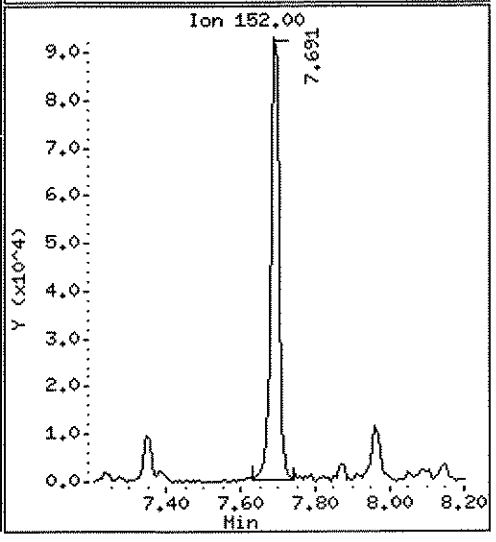












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Date : 11-JUL-2006 17:27

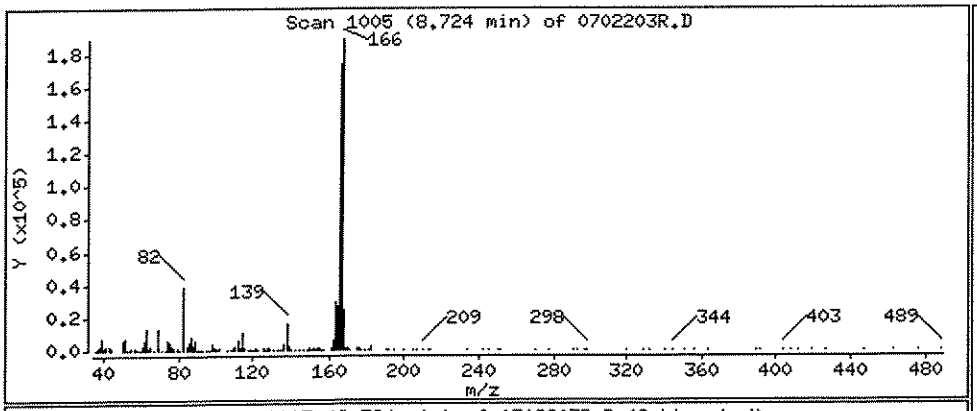
Client ID: 51CFM01S060706 Instrument: bna1.i

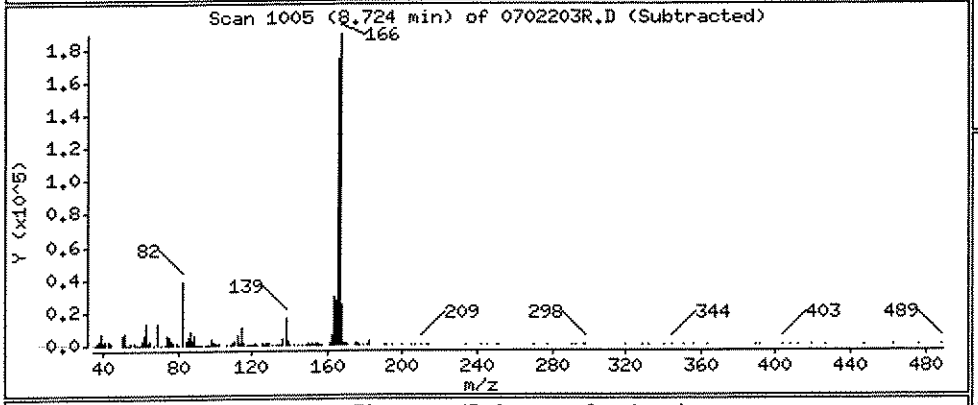
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

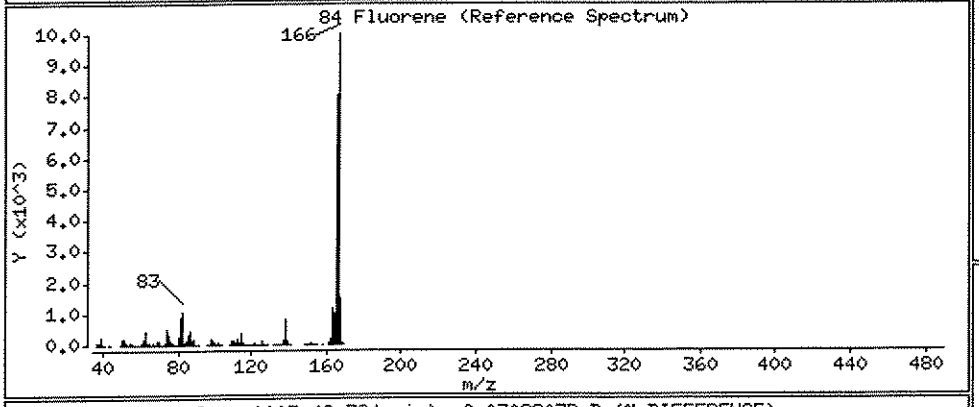
Volume Injected (uL): 0.5 Operator: SDB

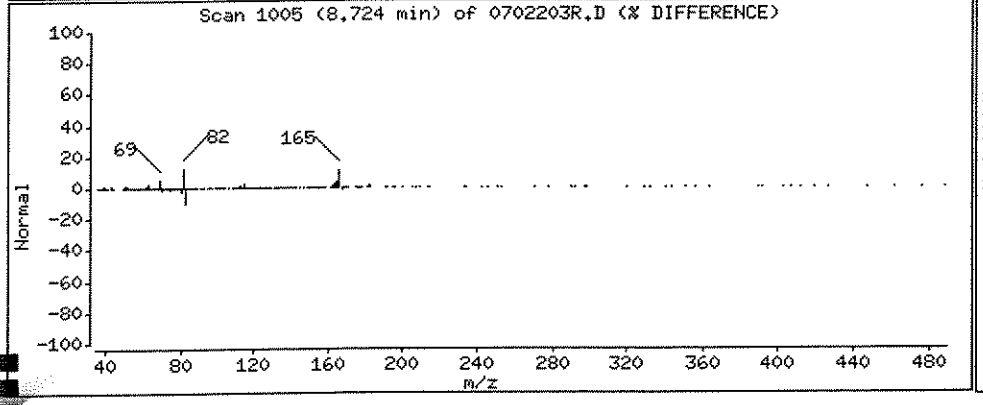
Column phase: fused silica Column diameter: 0.25

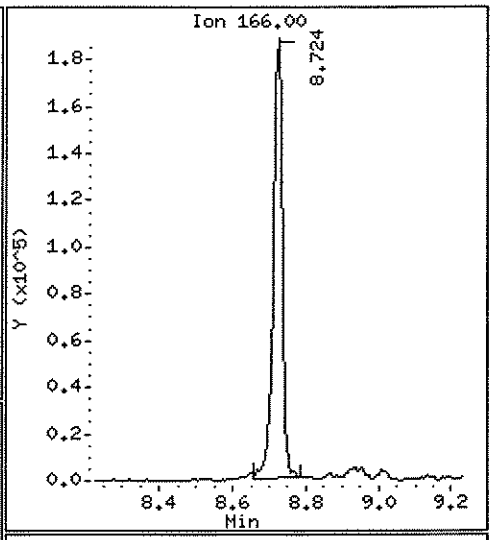
84 Fluorene Concentration: 401.9 UG/KG

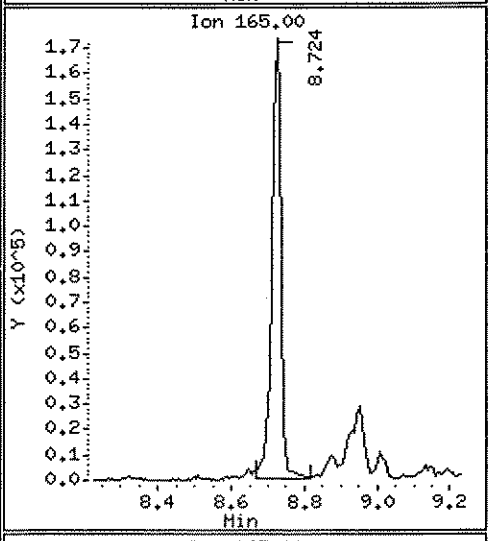


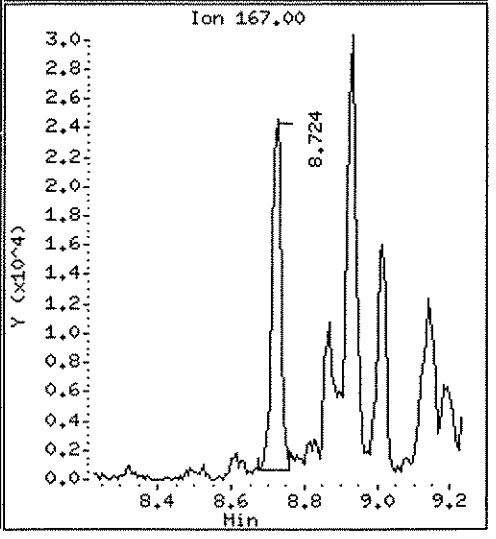












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Date : 11-JUL-2006 17:27

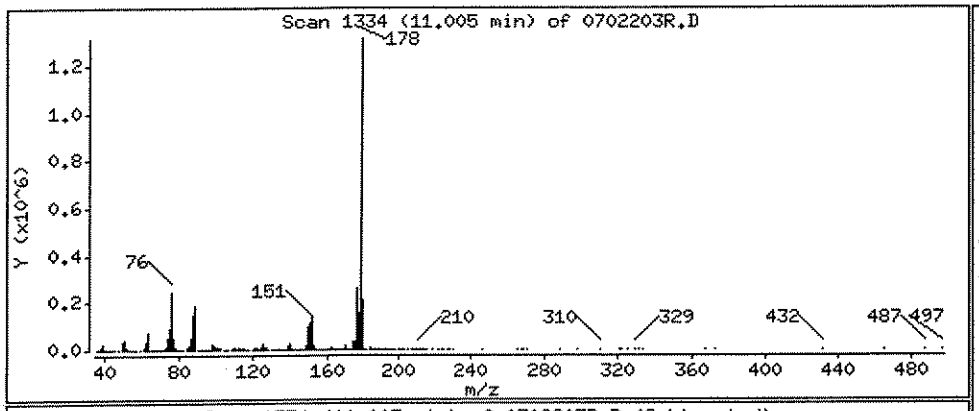
Client ID: 51CFM01S060706 Instrument: bna1.i

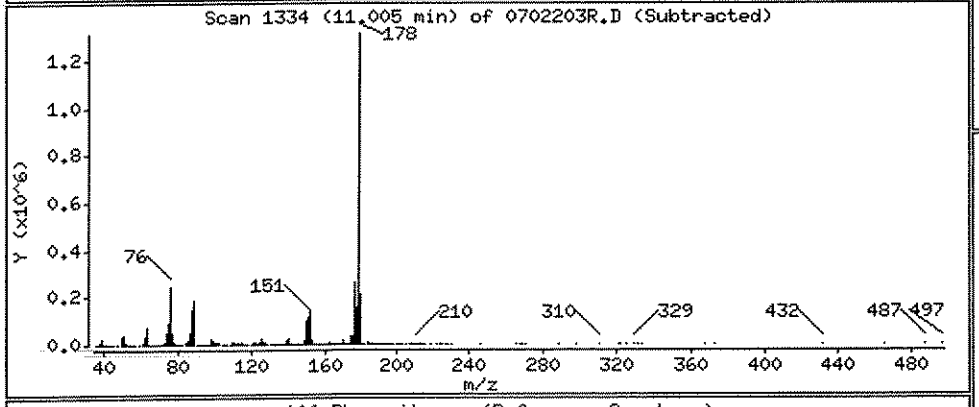
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

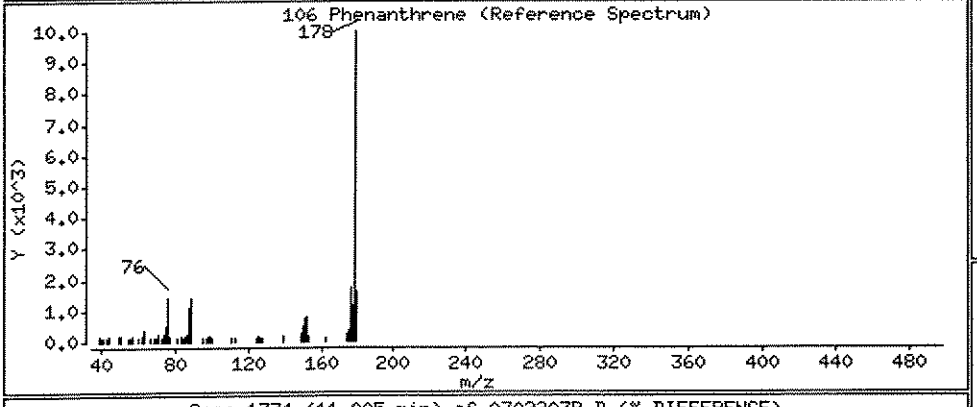
Volume Injected (uL): 0.5 Operator: SDB

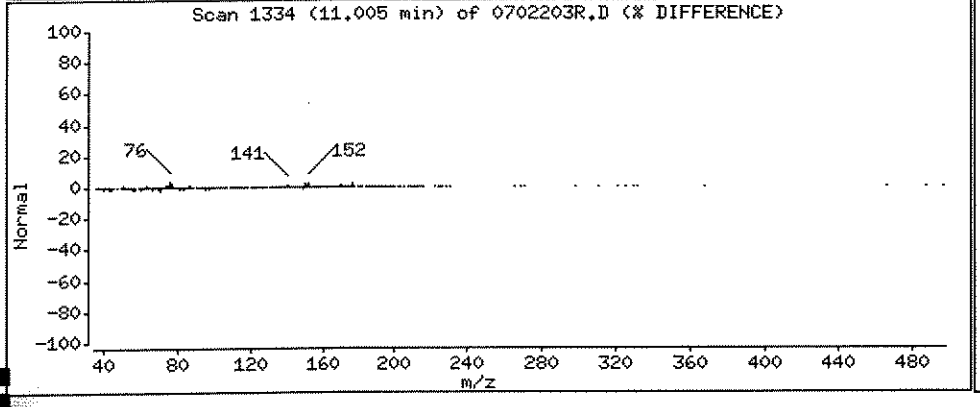
Column phase: fused silica Column diameter: 0.25

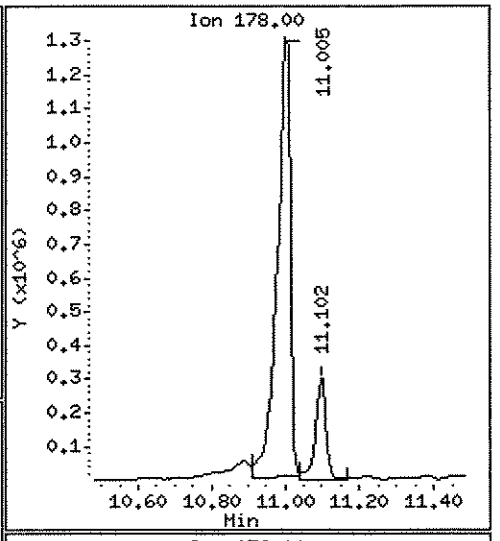
106 Phenanthrene Concentration: 3631 UG/KG

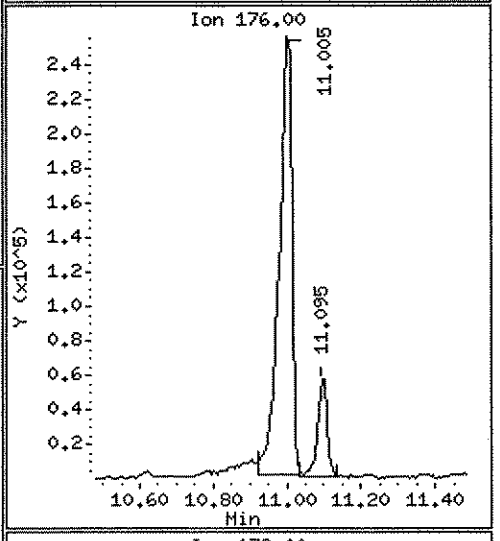


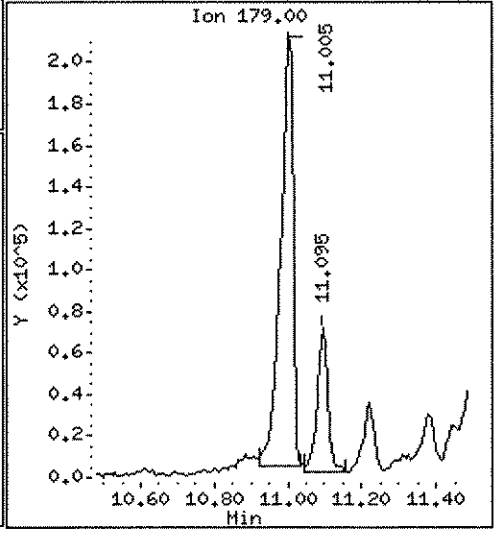












Empirical Laboratories

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Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

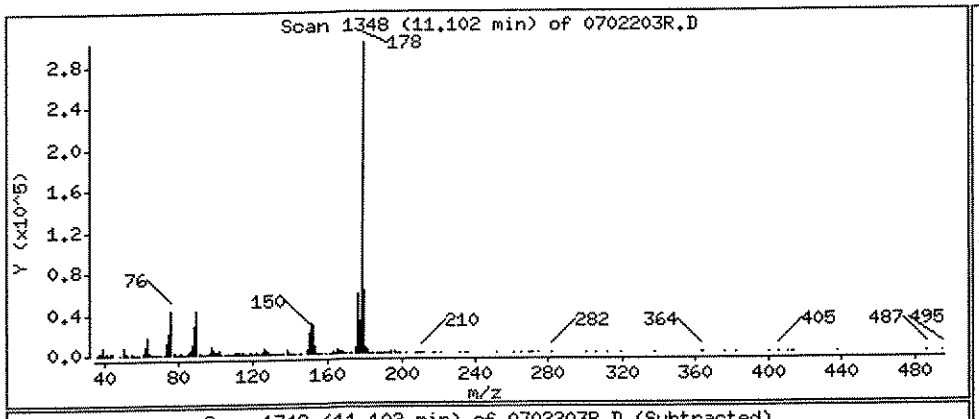
Operator: SDB

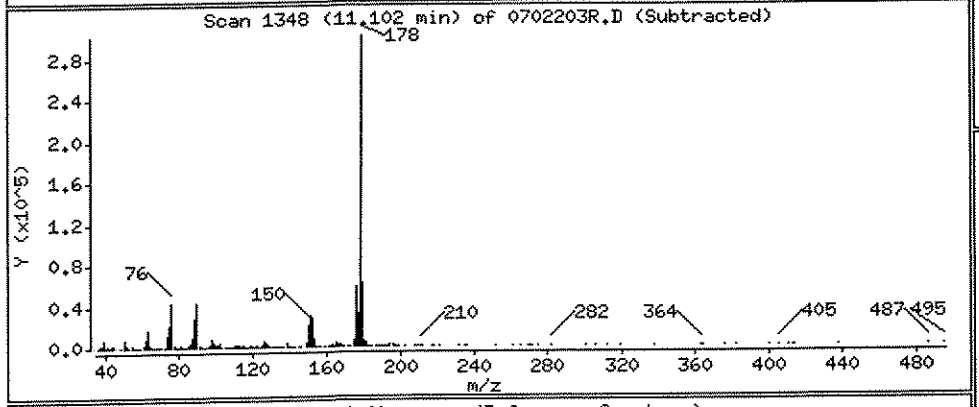
Column phase: fused silica

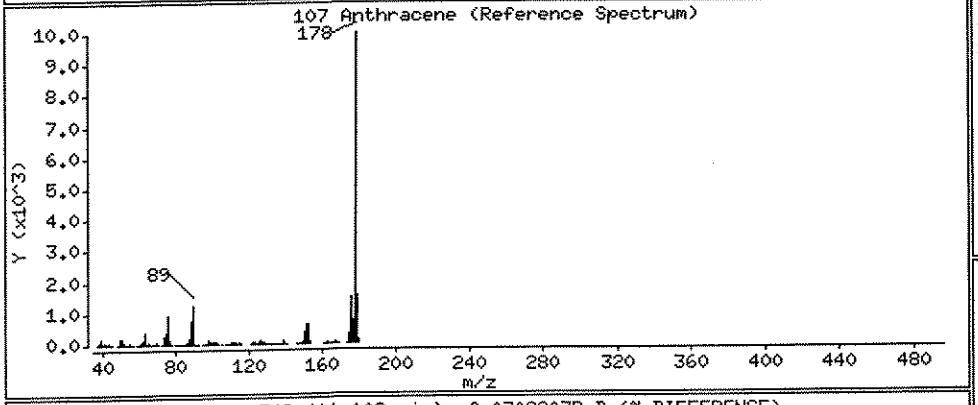
Column diameter: 0.25

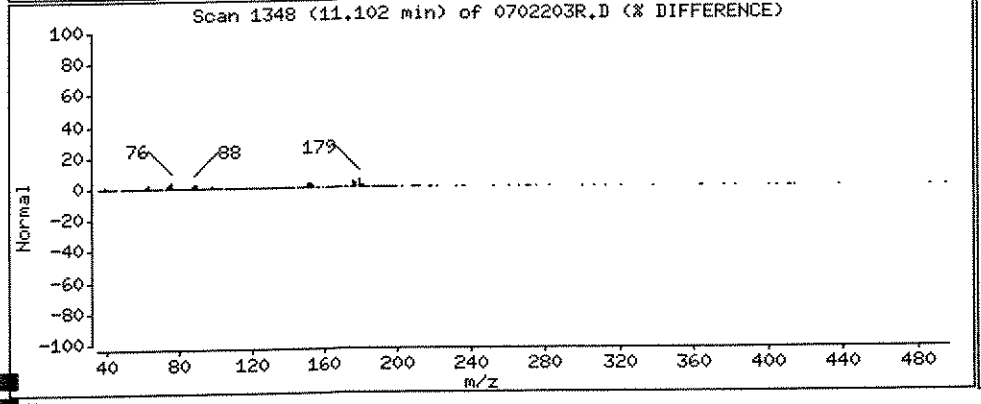
107 Anthracene

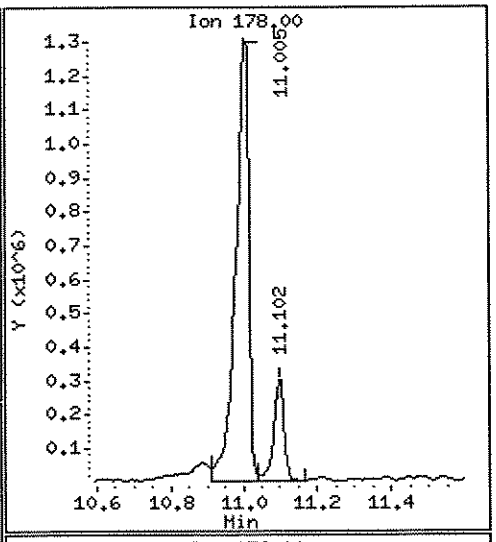
Concentration: 689.7 UG/KG

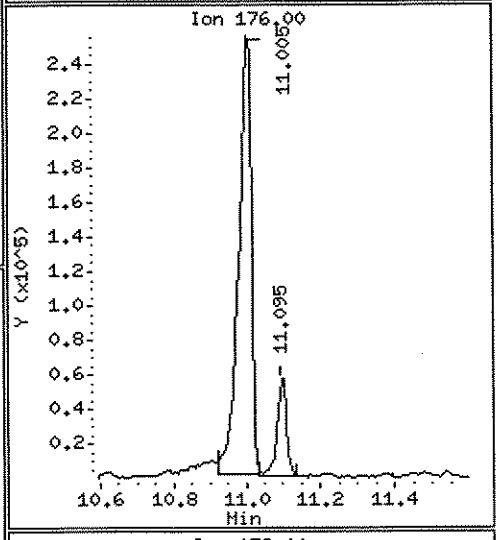


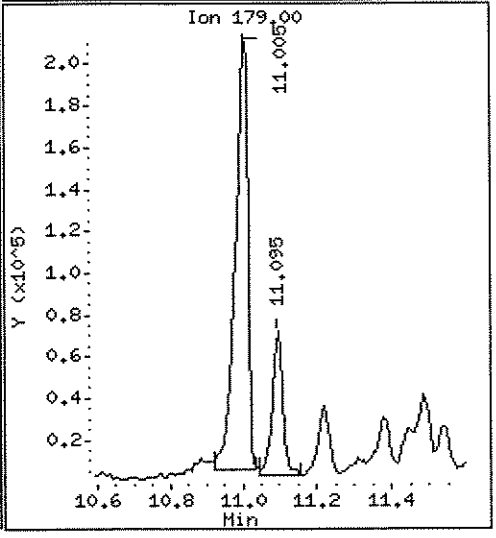












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

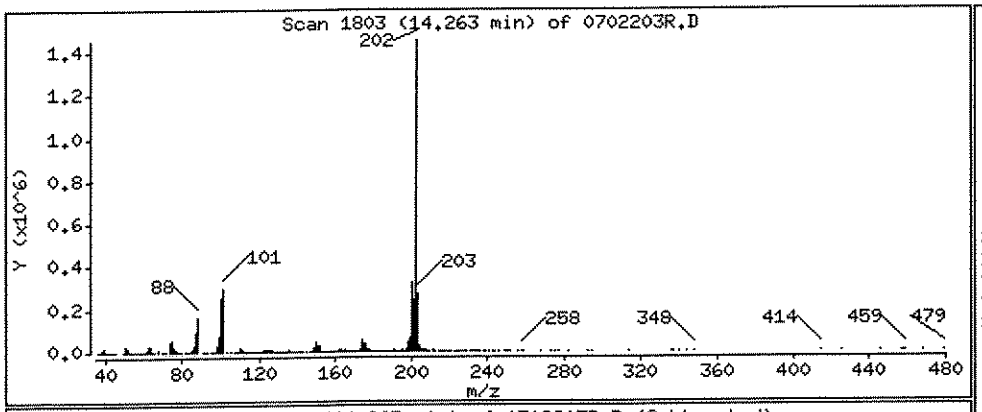
Client ID: 51CFM01S060706 Instrument: bna1.i

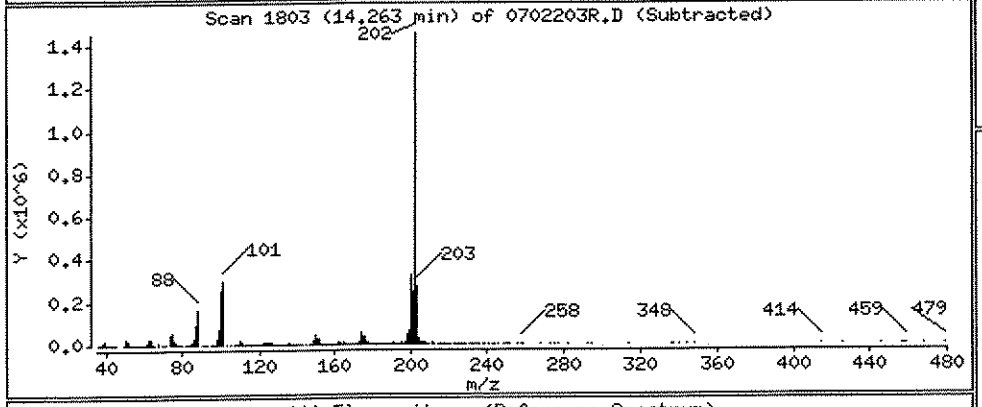
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

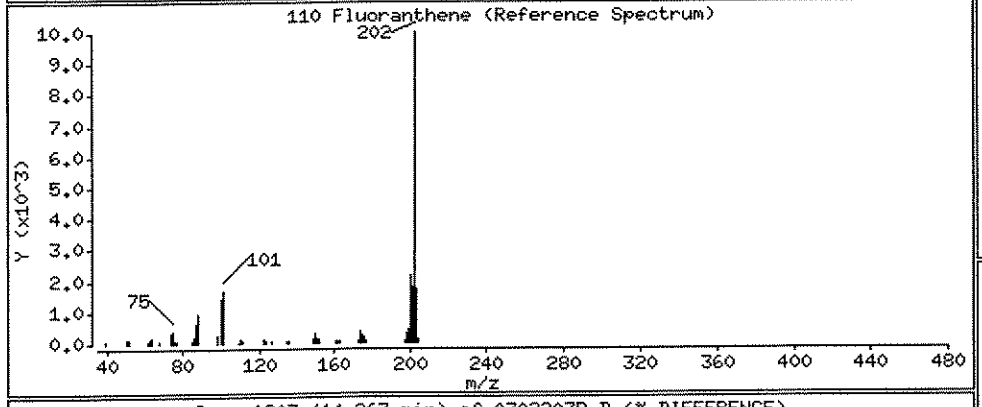
Volume Injected (uL): 0.5 Operator: SDB

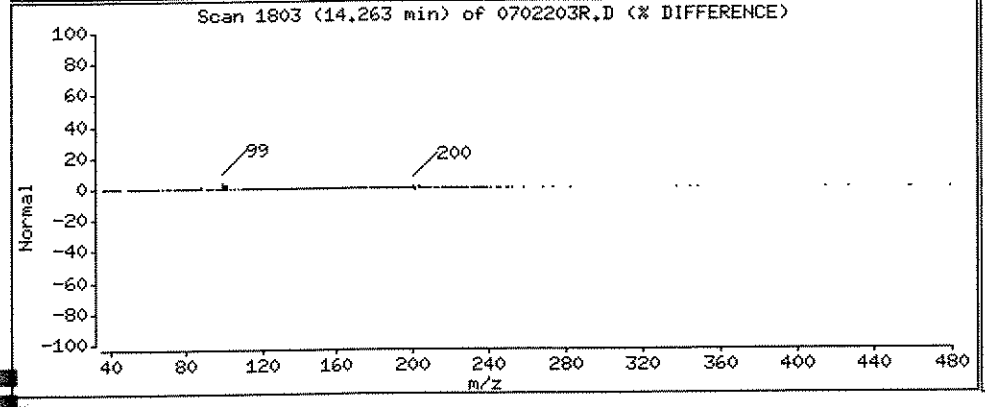
Column phase: fused silica Column diameter: 0.25

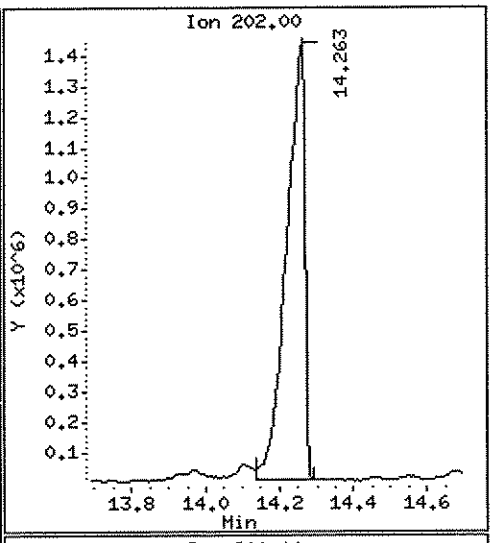
110 Fluoranthene Concentration: 5450 UG/KG

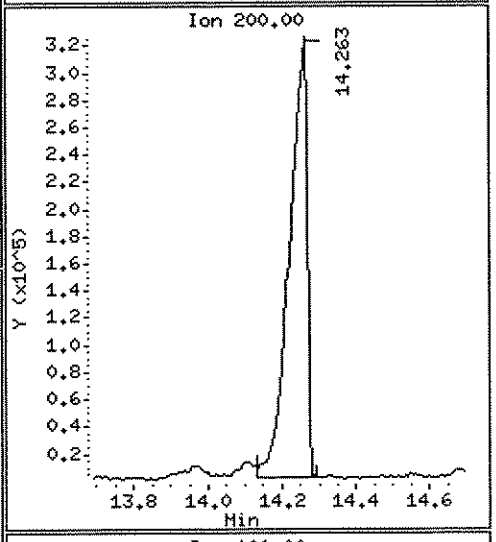


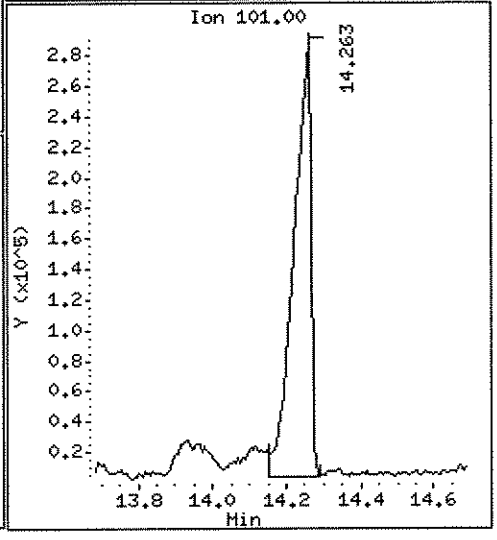












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

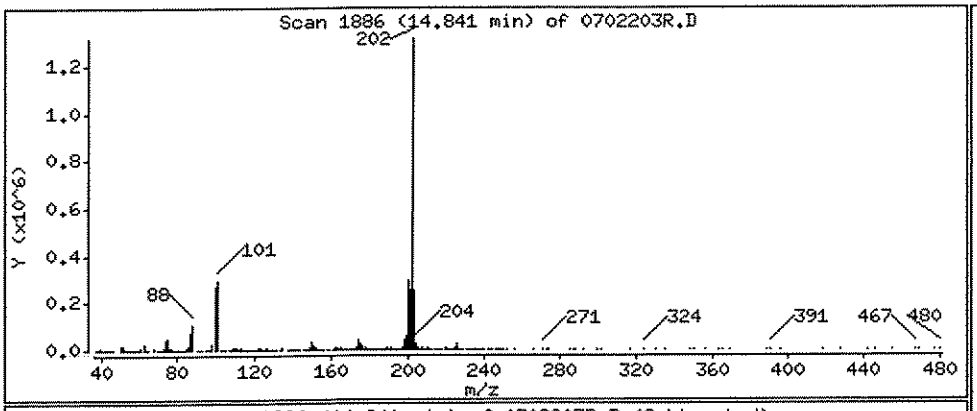
Client ID: 51CFM01S060706 Instrument: bna1.i

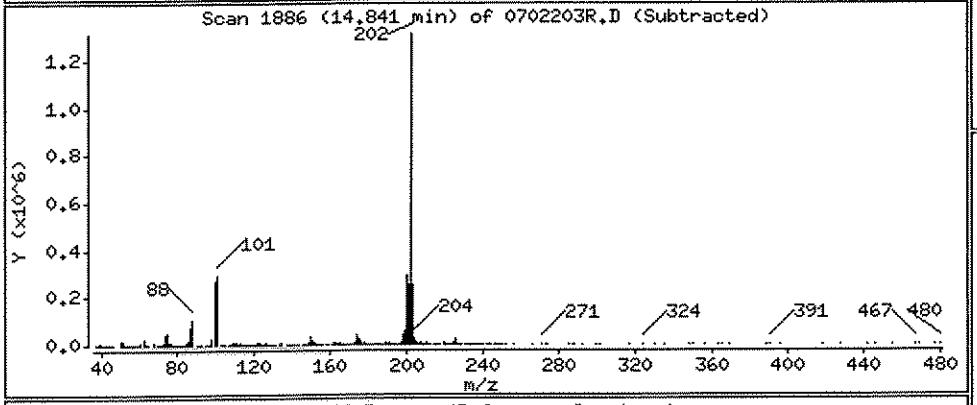
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

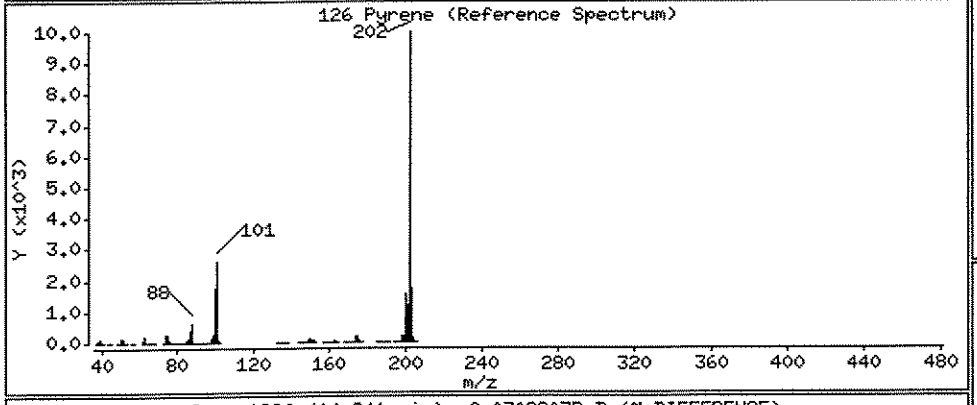
Volume Injected (uL): 0.5 Operator: SDB

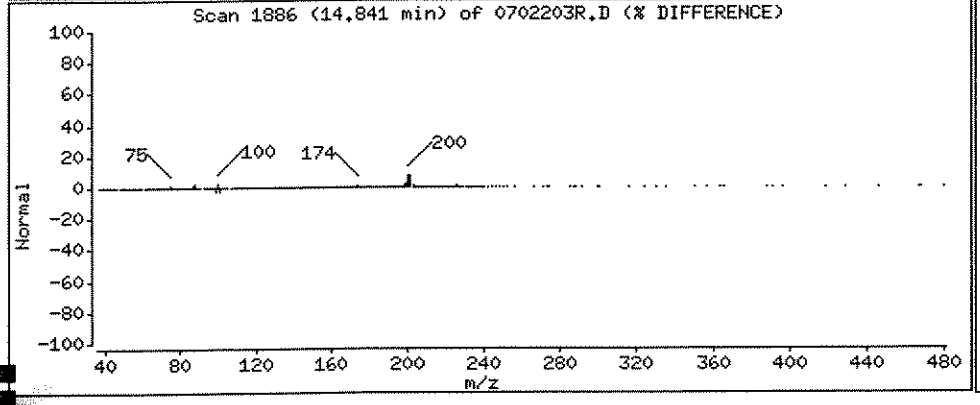
Column phase: fused silica Column diameter: 0.25

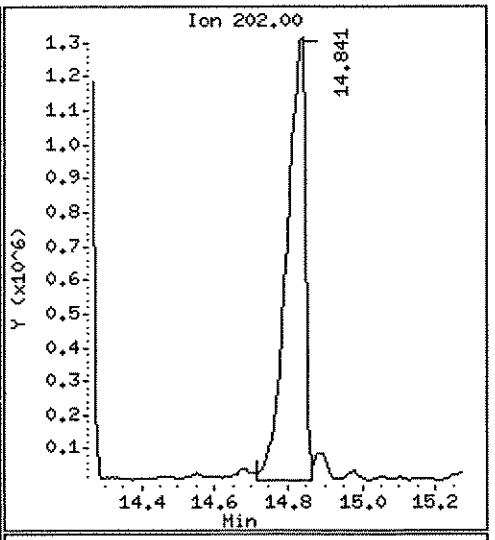
126 Pyrene Concentration: 4811 UG/KG

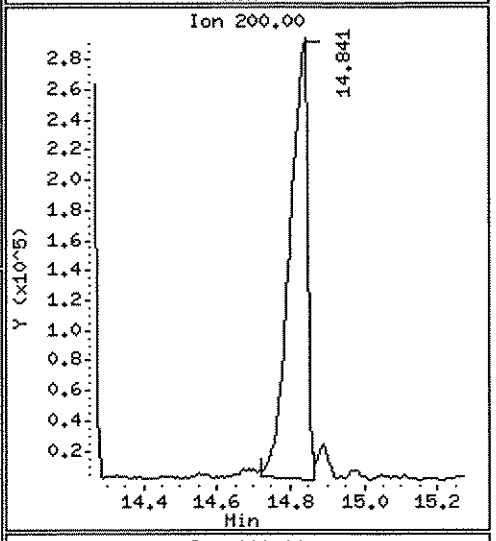


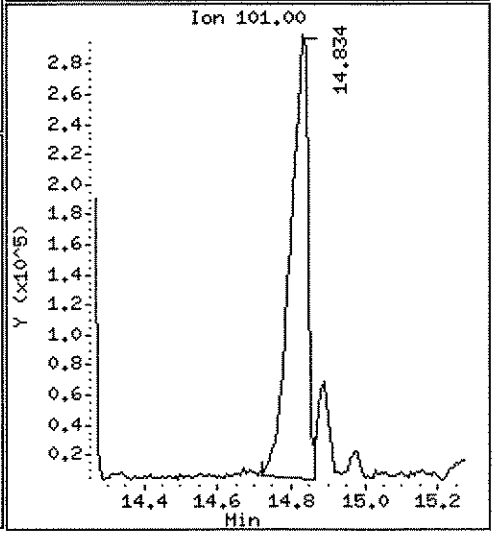












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

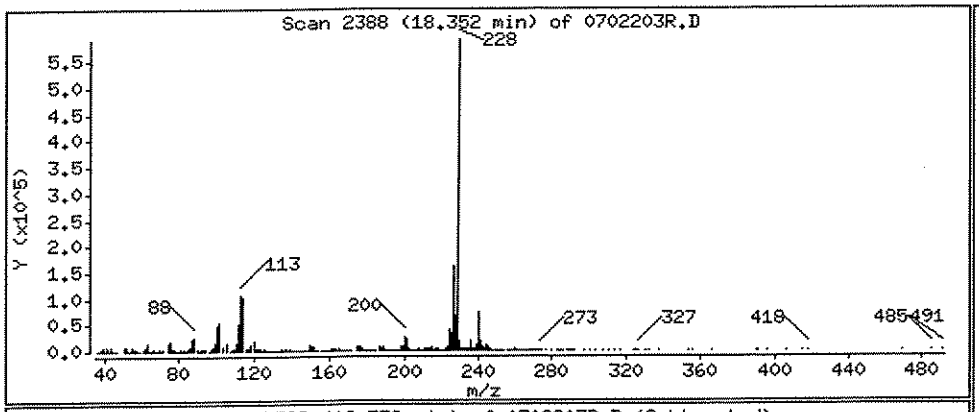
Client ID: 51CFM01S060706 Instrument: bna1.i

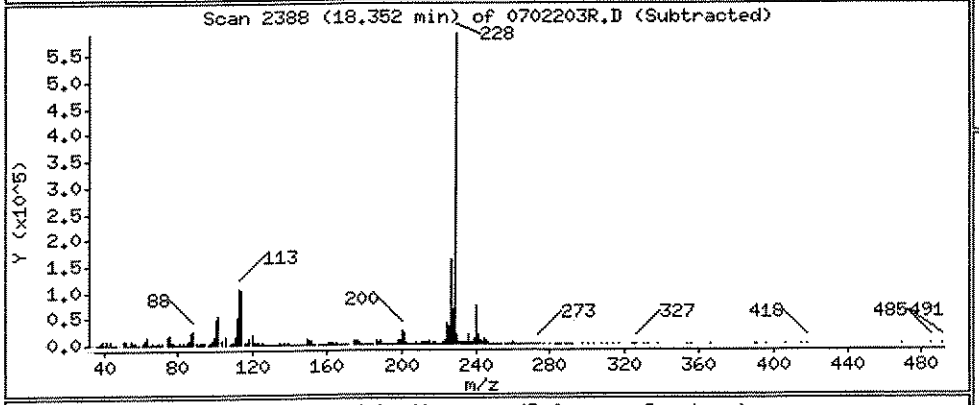
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

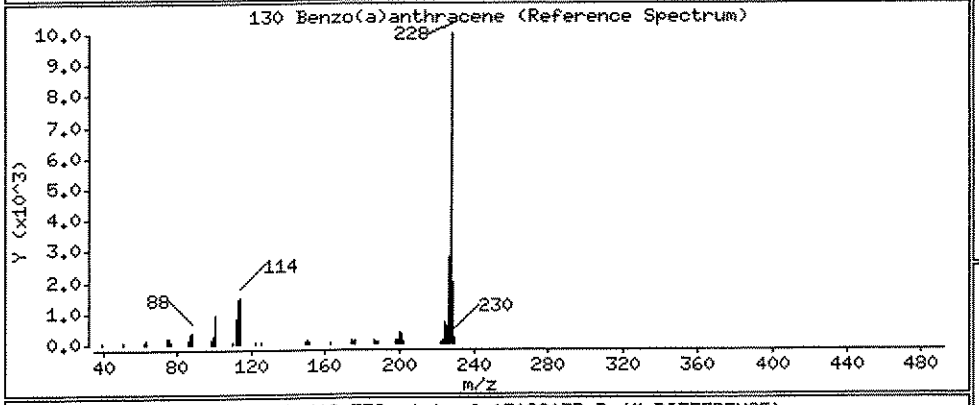
Volume Injected (uL): 0.5 Operator: SDB

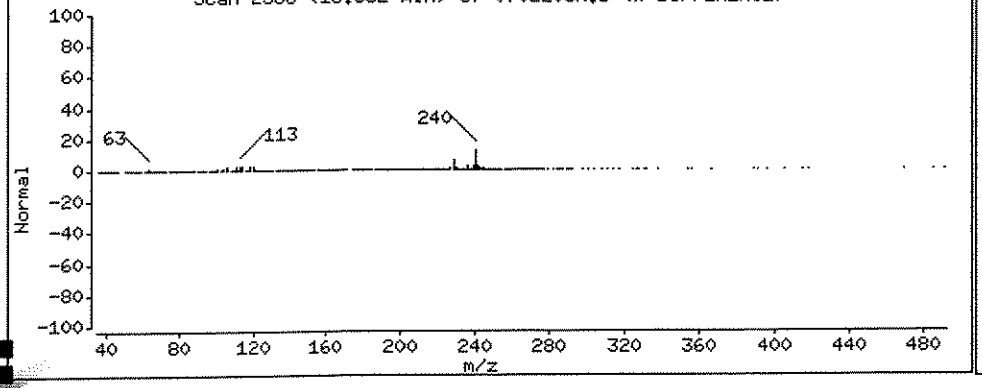
Column phase: fused silica Column diameter: 0.25

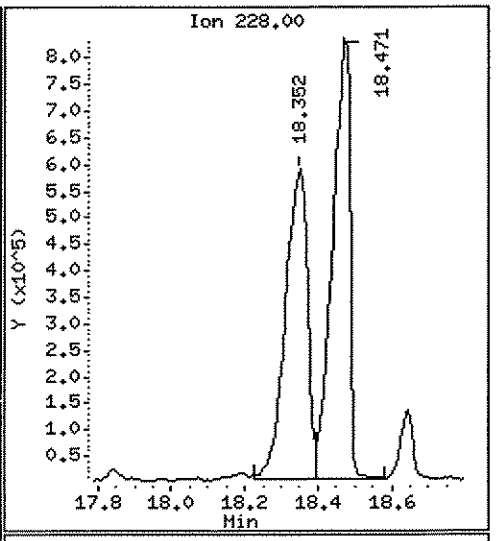
130 Benzo(a)anthracene Concentration: 3288 UG/KG

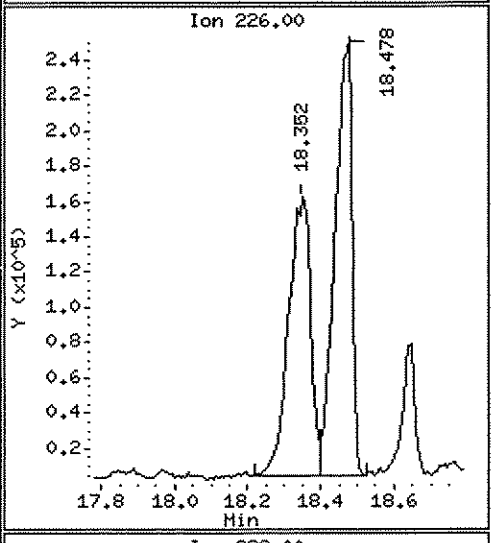


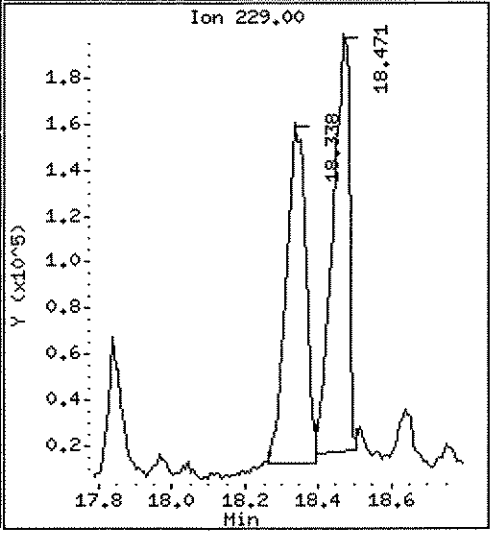












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

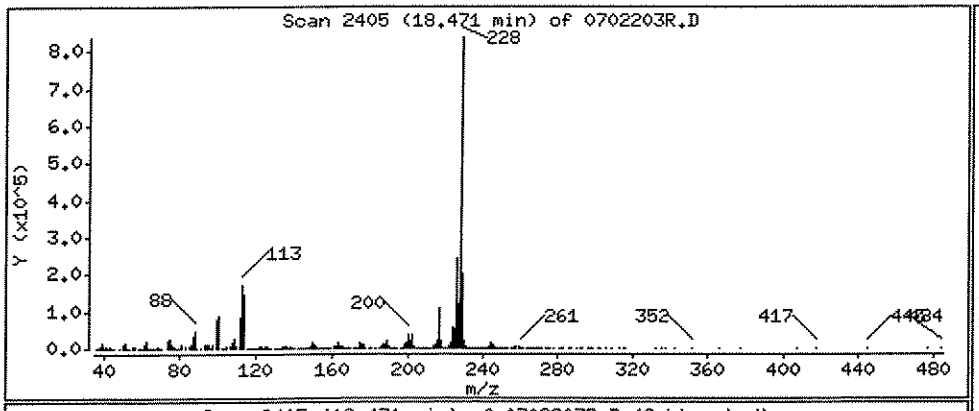
Client ID: 51CFM01S060706 Instrument: bna1.i

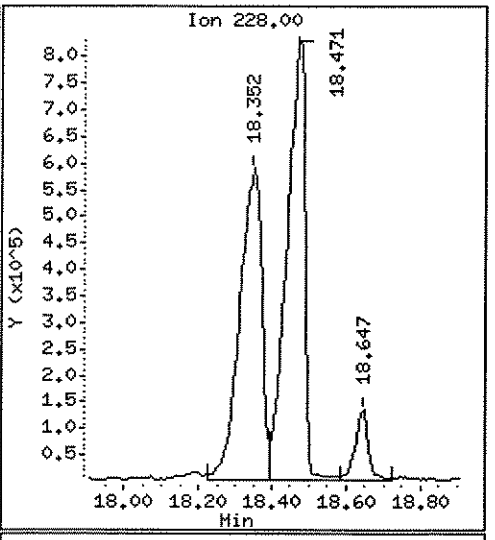
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

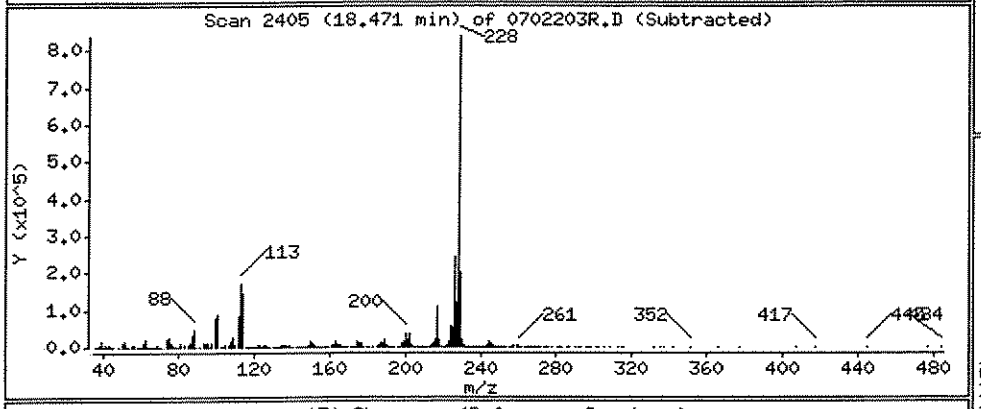
Volume Injected (uL): 0.5 Operator: SDB

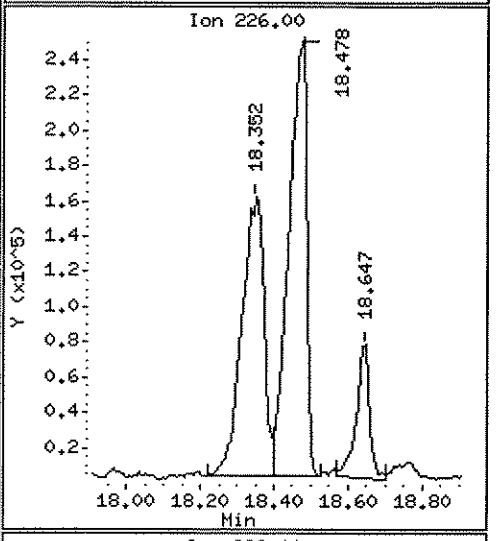
Column phase: fused silica Column diameter: 0.25

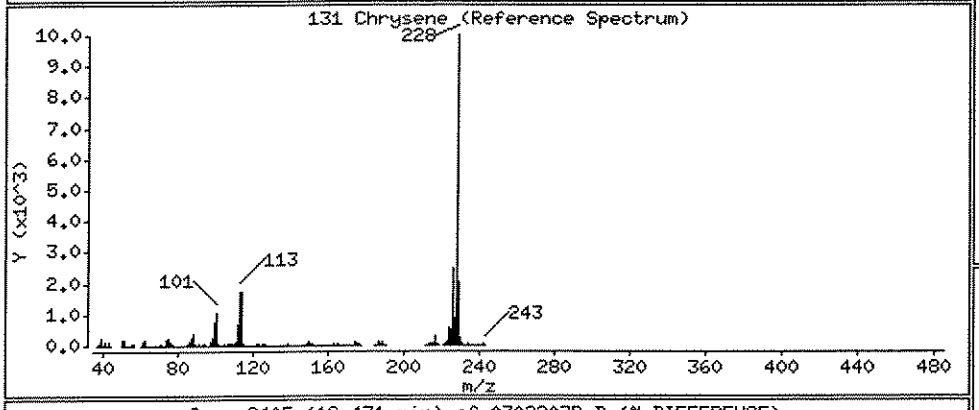
131 Chrysene Concentration: 4061 UG/KG

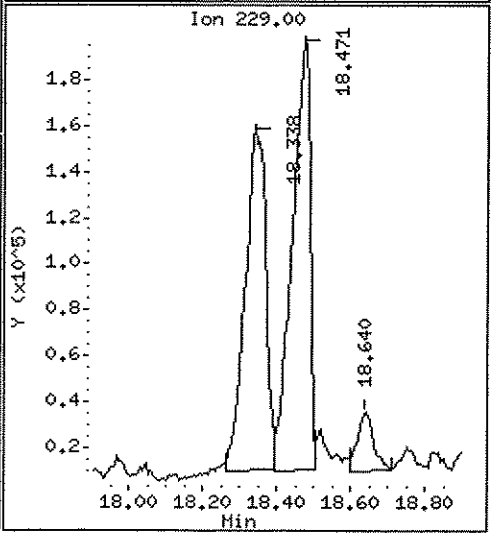


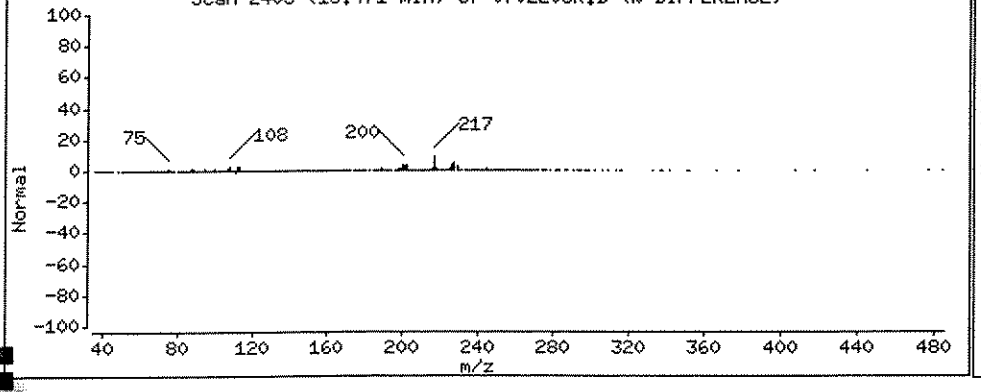












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

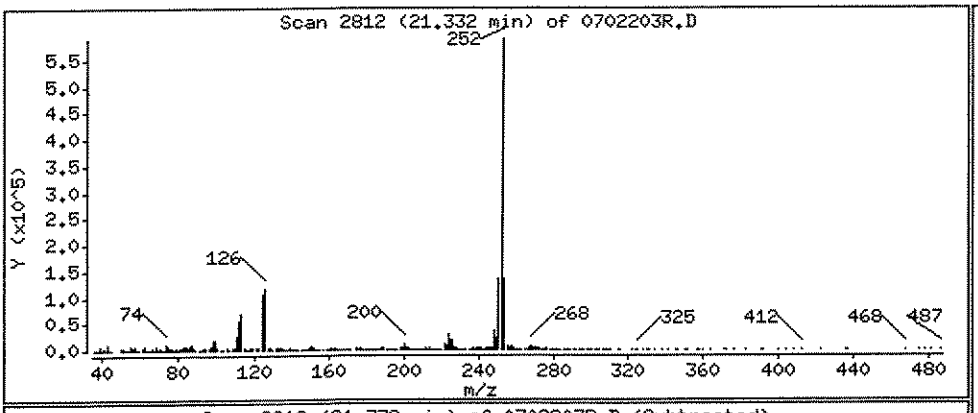
Client ID: 51CFM01S060706 Instrument: bna1.i

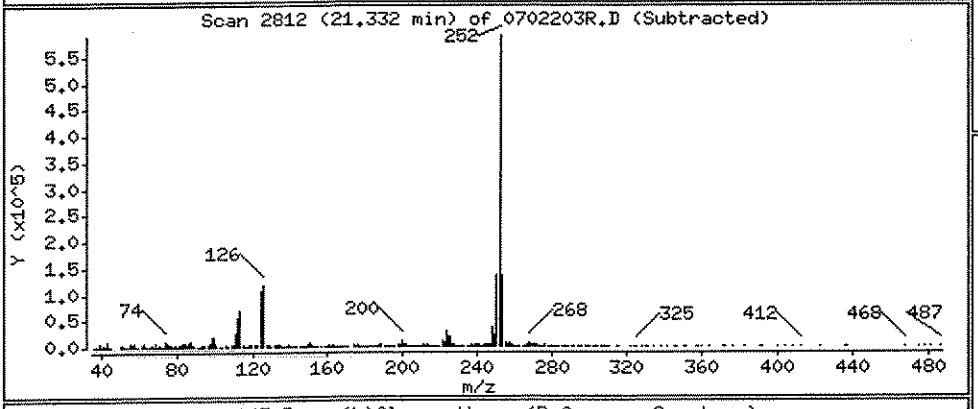
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

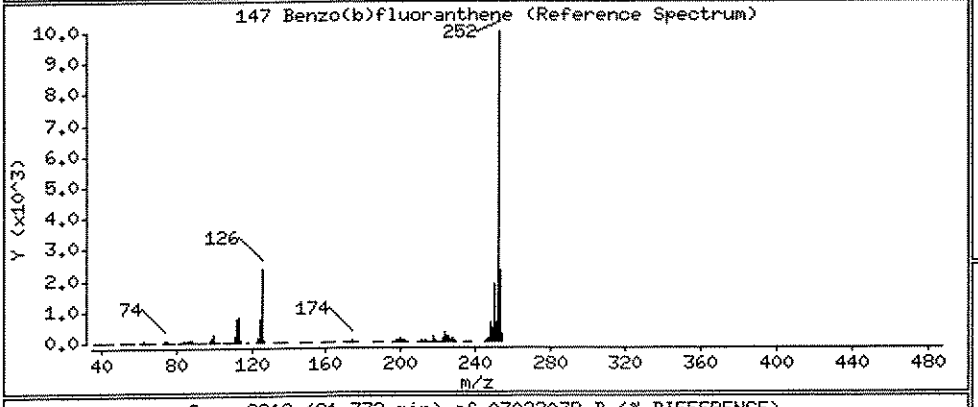
Volume Injected (uL): 0.5 Operator: SDB

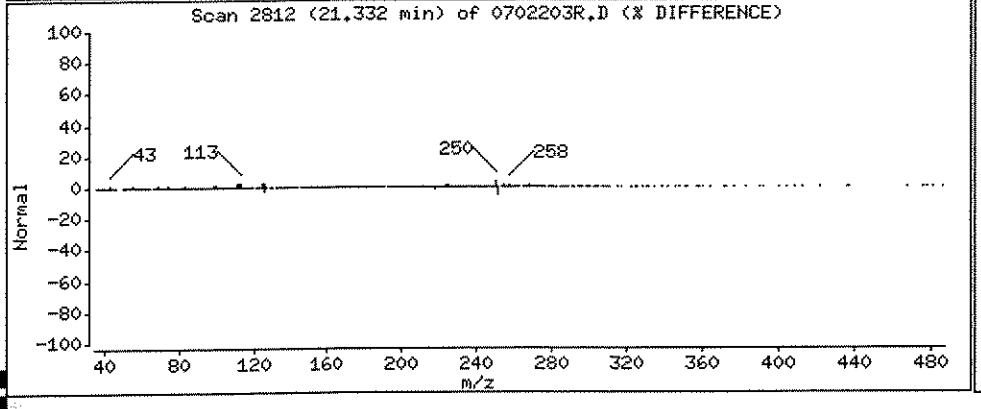
Column phase: fused silica Column diameter: 0.25

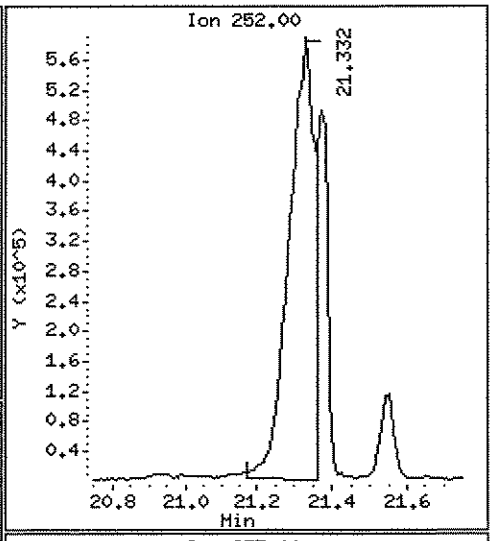
147 Benzo(b)fluoranthene Concentration: 4733 UG/KG

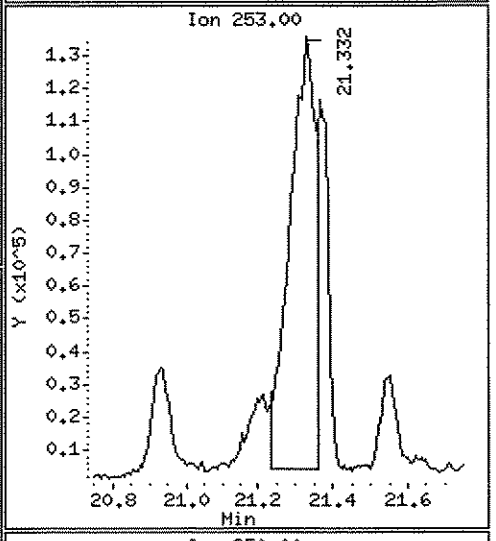


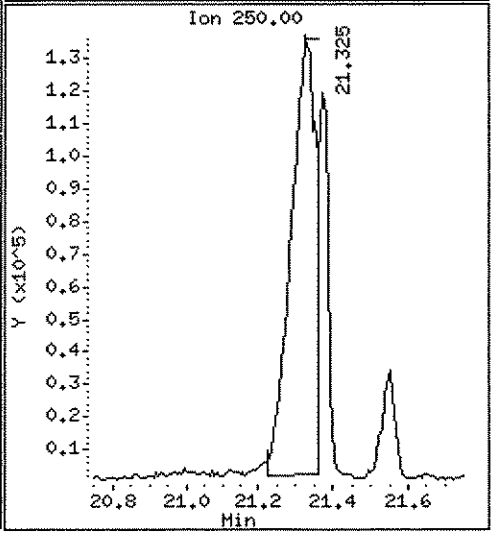












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

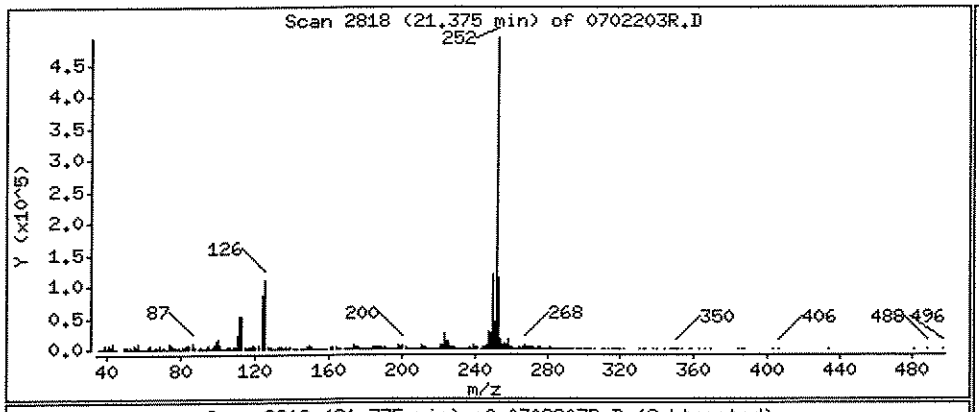
Client ID: 51CFM01S060706 Instrument: bna1.i

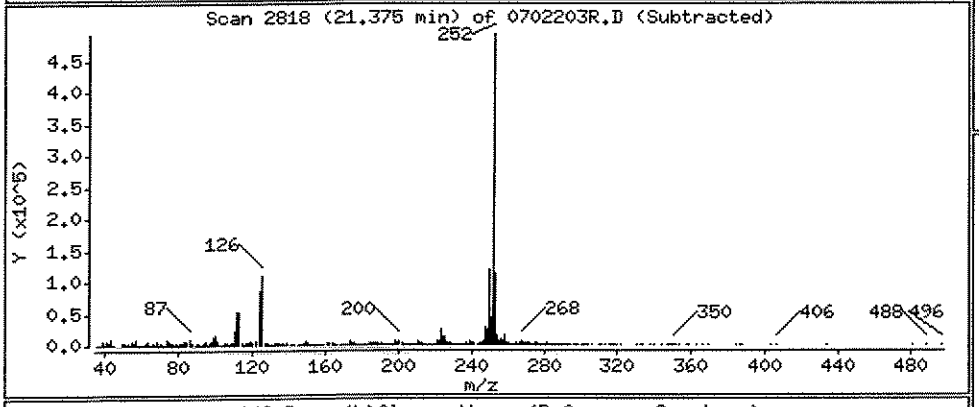
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

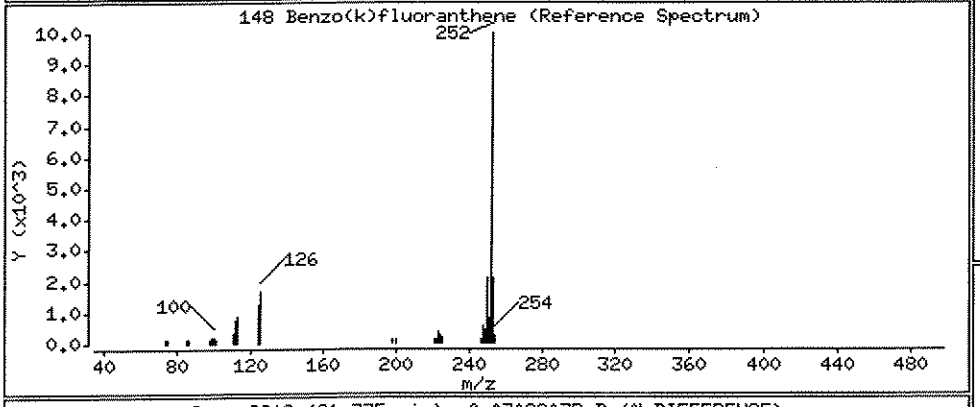
Volume Injected (uL): 0.5 Operator: SDB

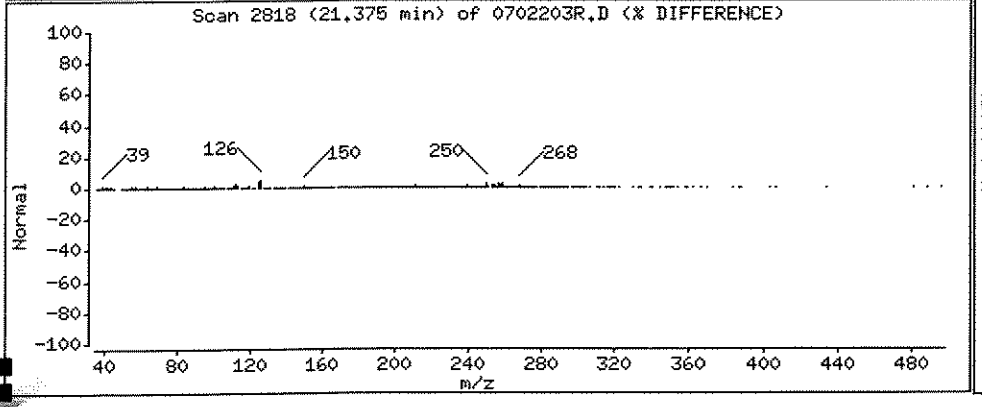
Column phase: fused silica Column diameter: 0.25

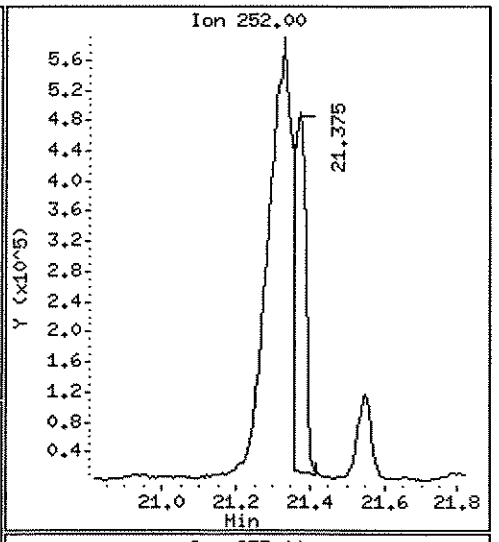
148 Benzo(k)fluoranthene Concentration: 1590 UG/KG

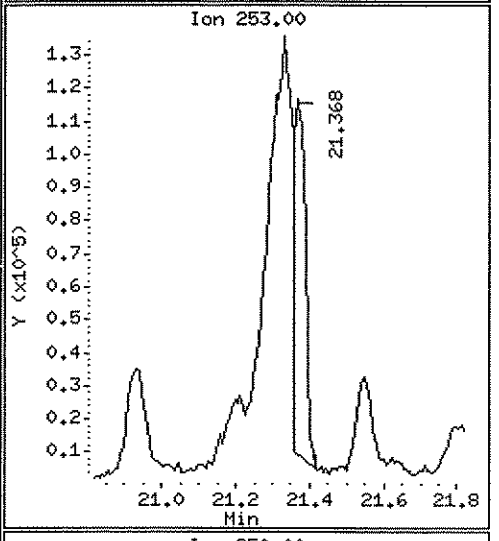


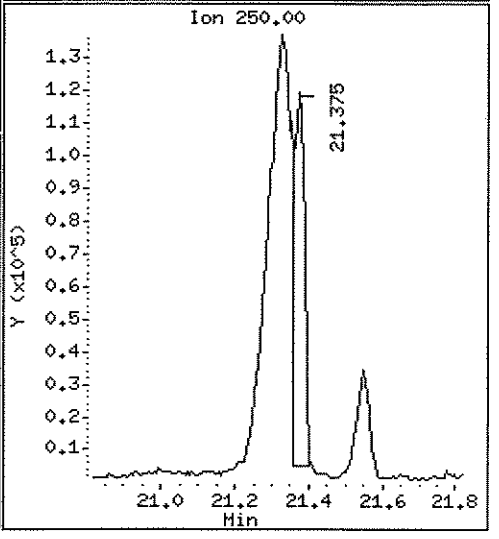












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

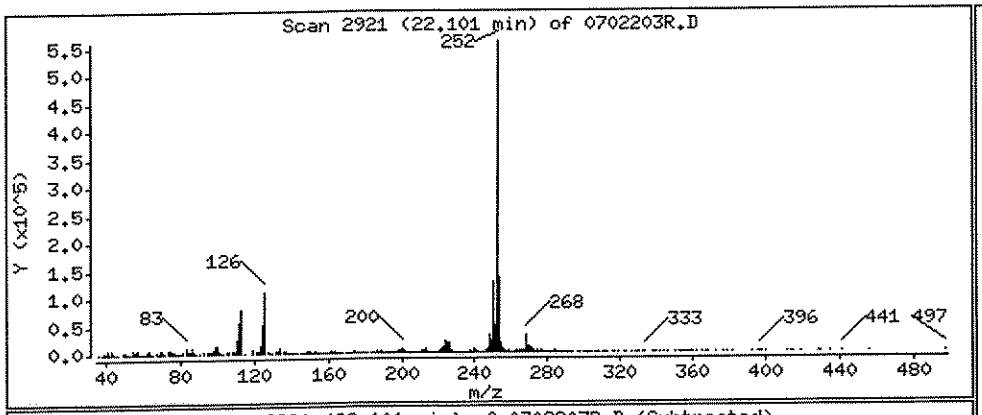
Operator: SDB

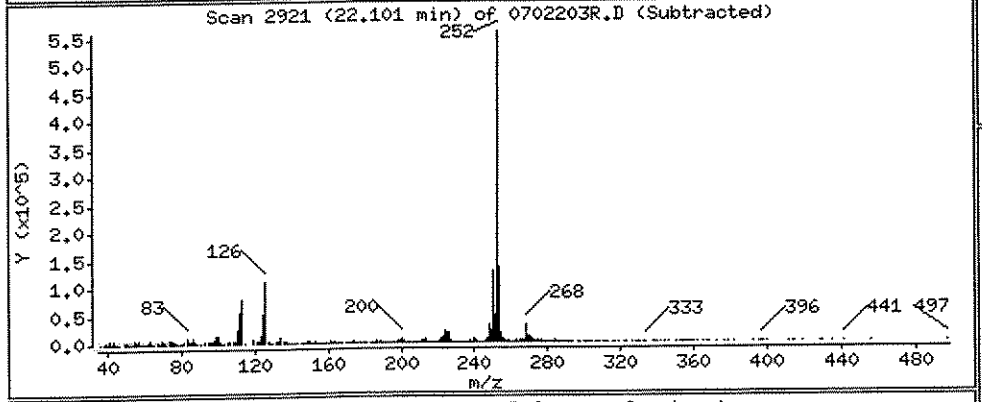
Column phase: fused silica

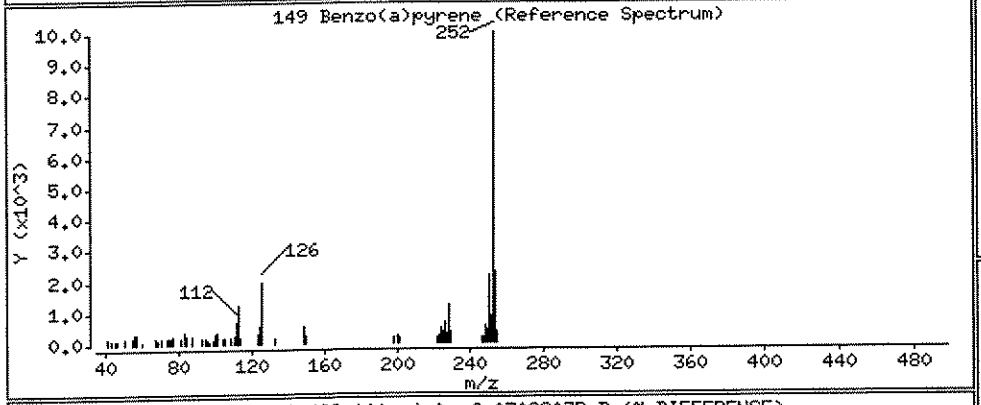
Column diameter: 0.25

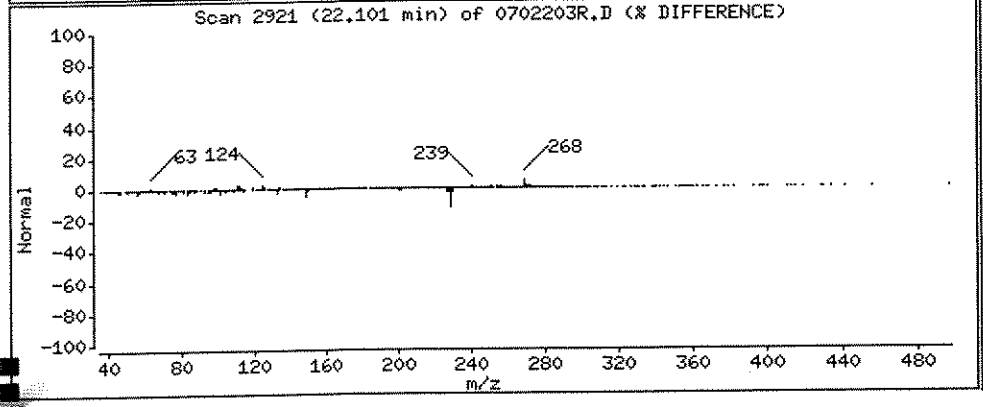
149 Benzo(a)pyrene

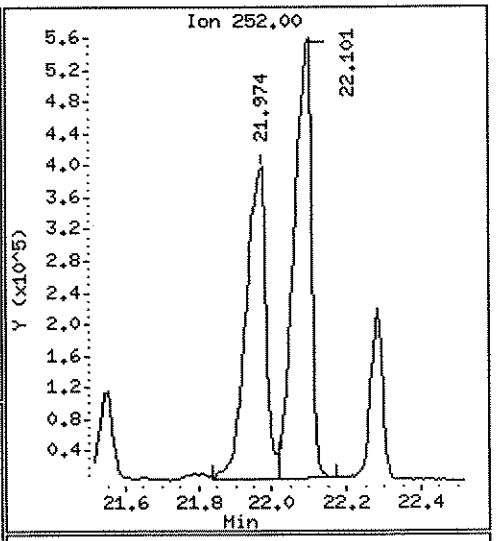
Concentration: 3616 UG/KG

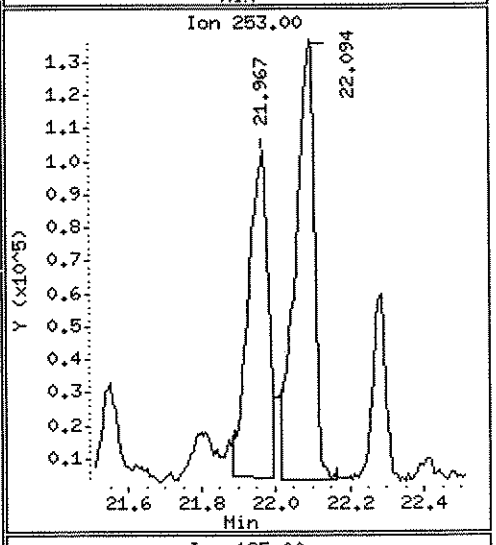


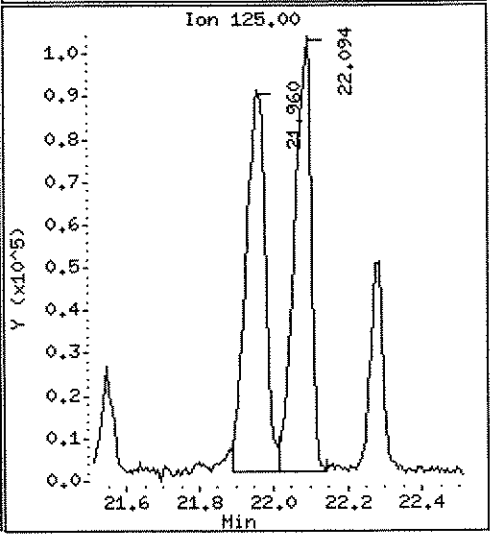












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203R.D

Date : 11-JUL-2006 17:27

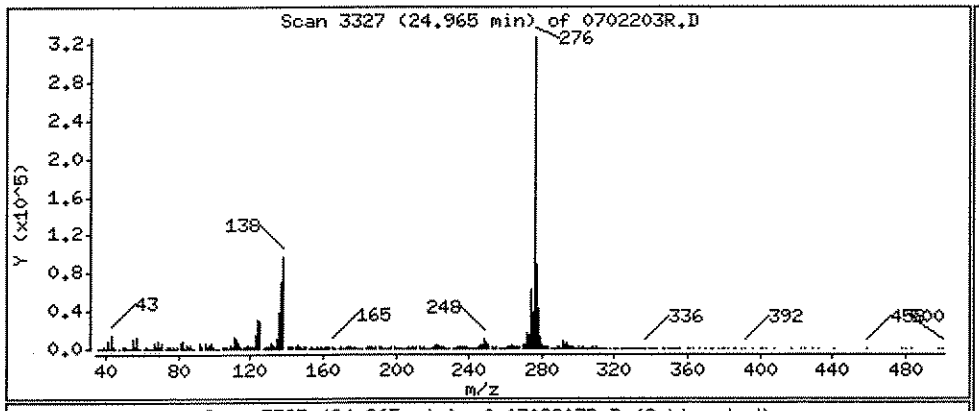
Client ID: 51CFM01S060706 Instrument: bna1.i

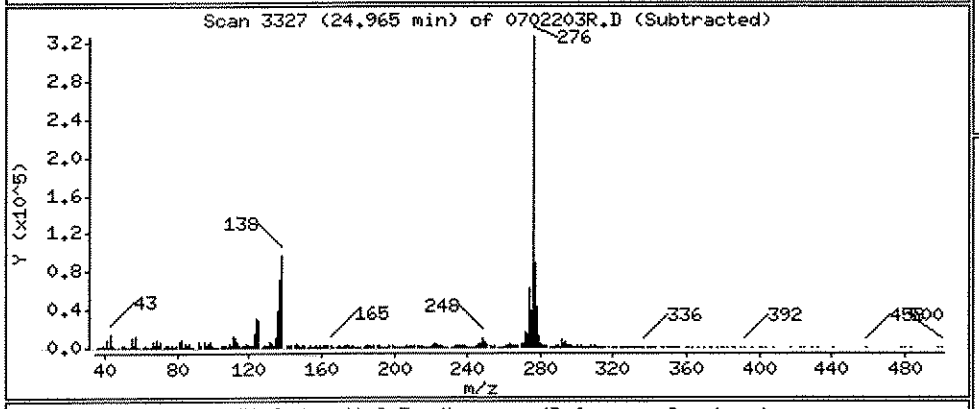
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

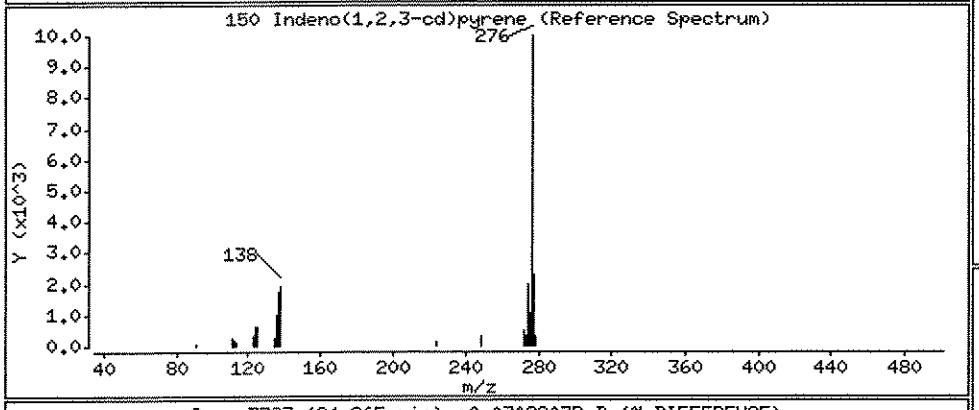
Volume Injected (uL): 0.5 Operator: SDB

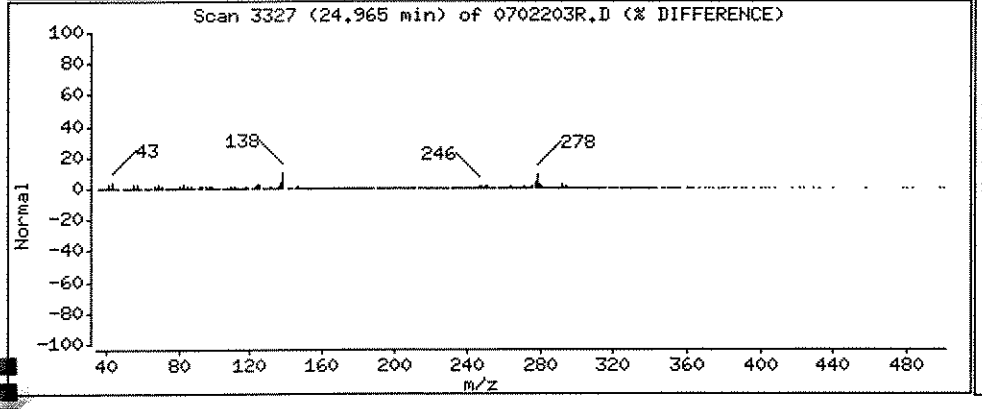
Column phase: fused silica Column diameter: 0.25

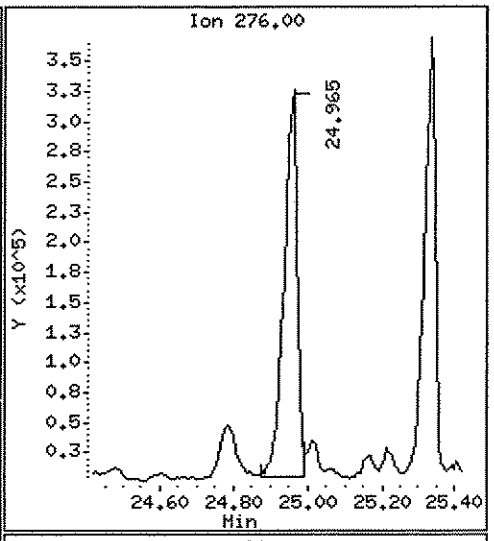
150 Indeno(1,2,3-cd)pyrene Concentration: 1892 UG/KG

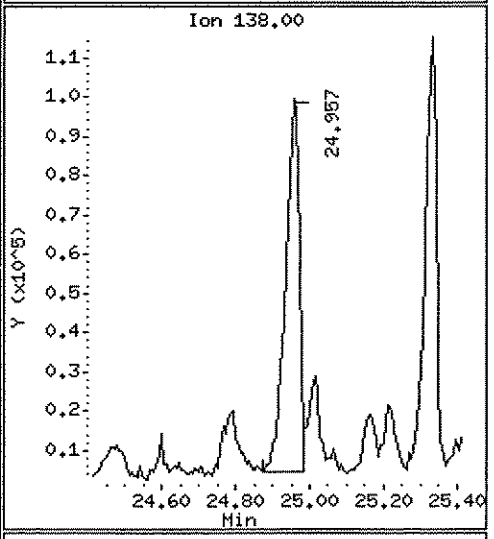


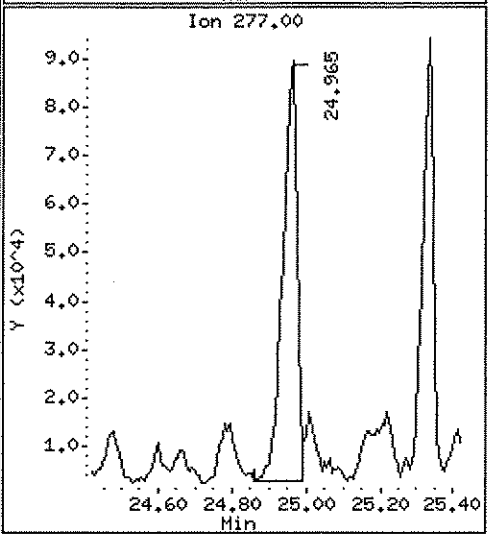












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Date : 11-JUL-2006 17:27

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

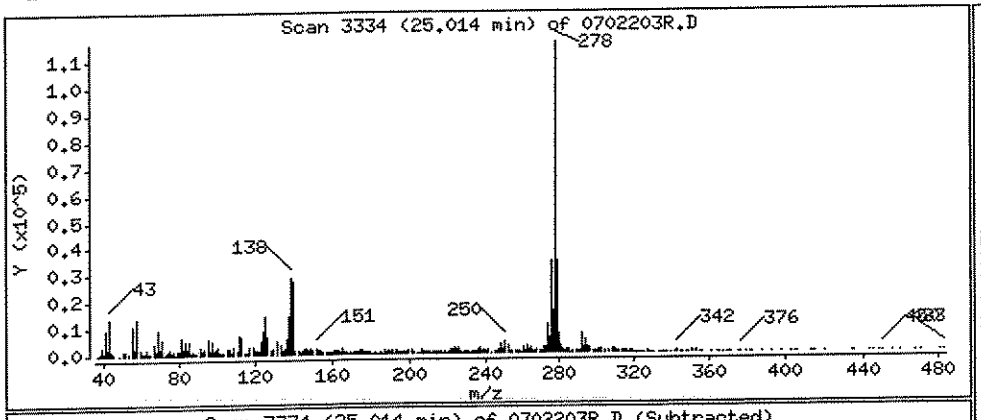
Operator: SDB

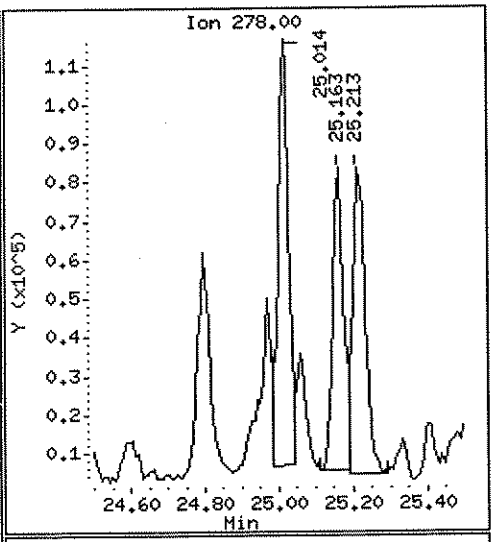
Column phase: fused silica

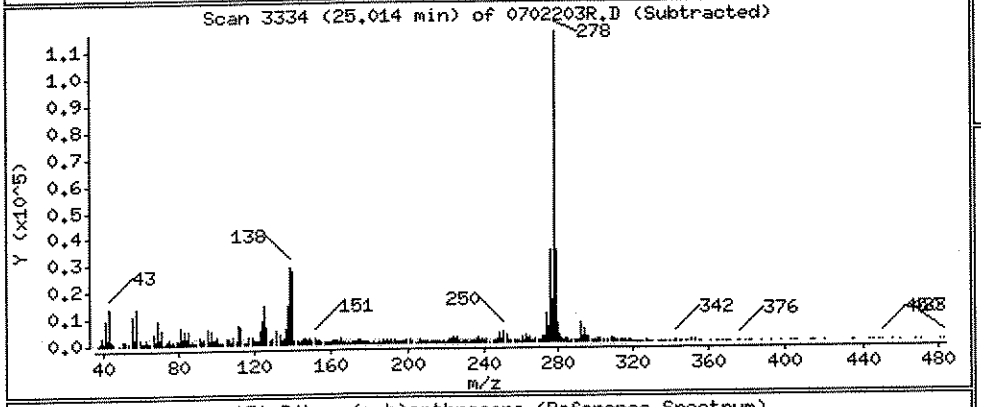
Column diameter: 0.25

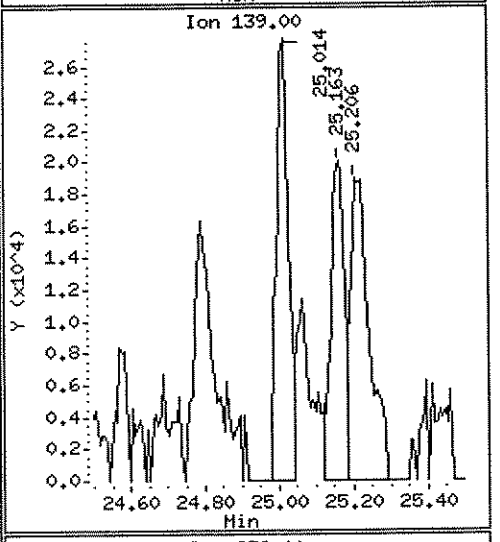
151 Dibenz(a,h)anthracene

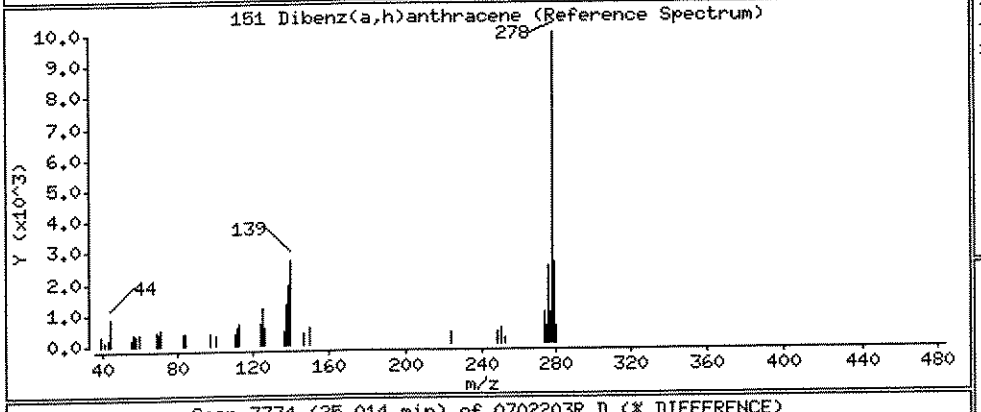
Concentration: 520.6 UG/KG

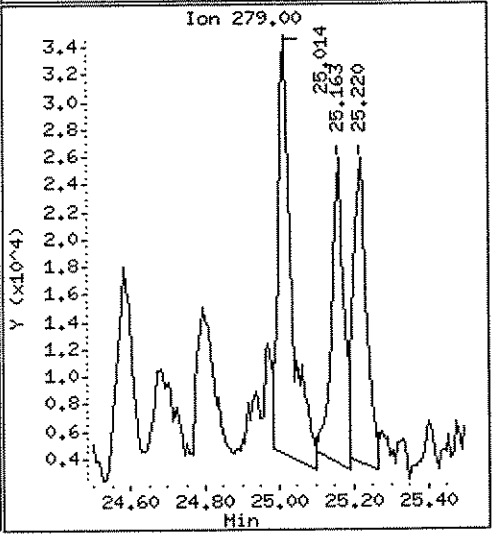


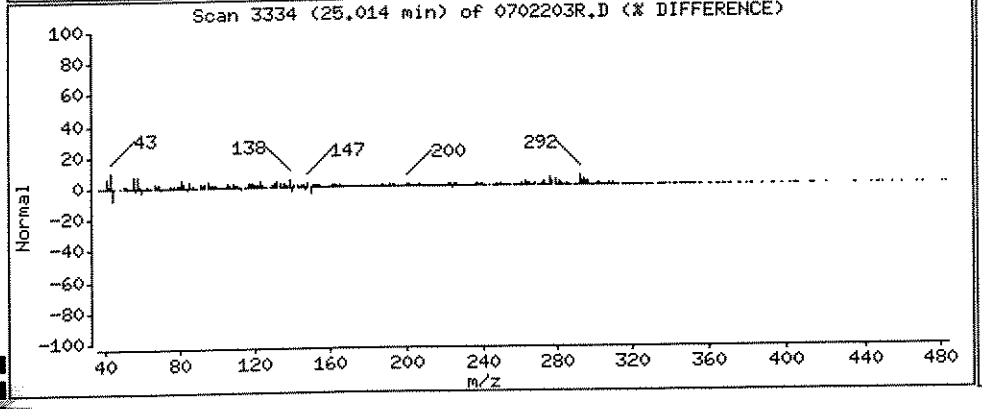












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Date : 11-JUL-2006 17:27

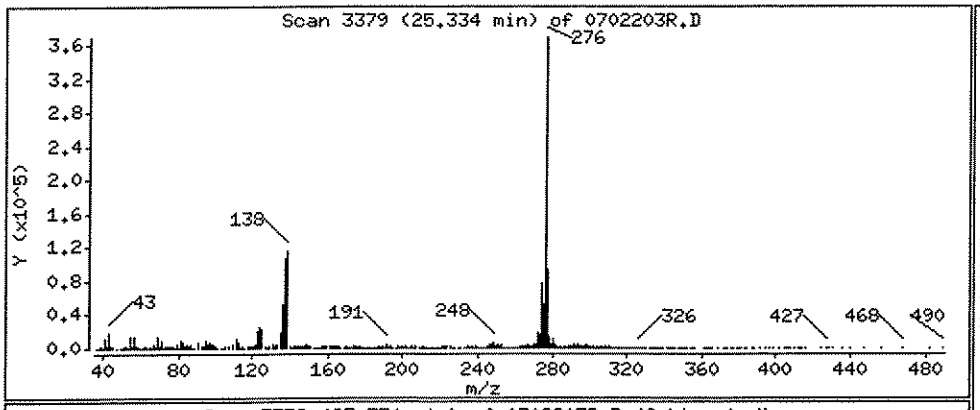
Client ID: 51CFM01S060706 Instrument: bna1.i

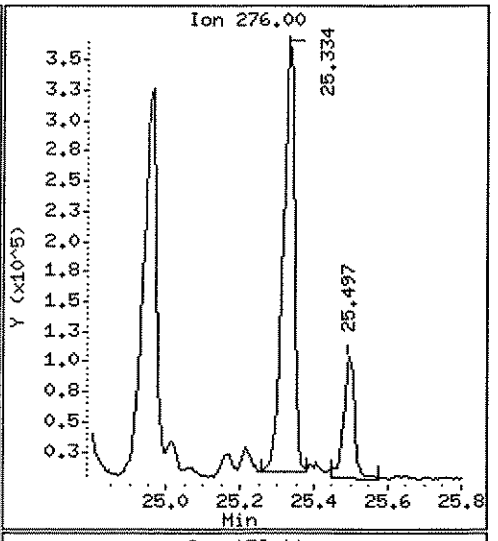
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

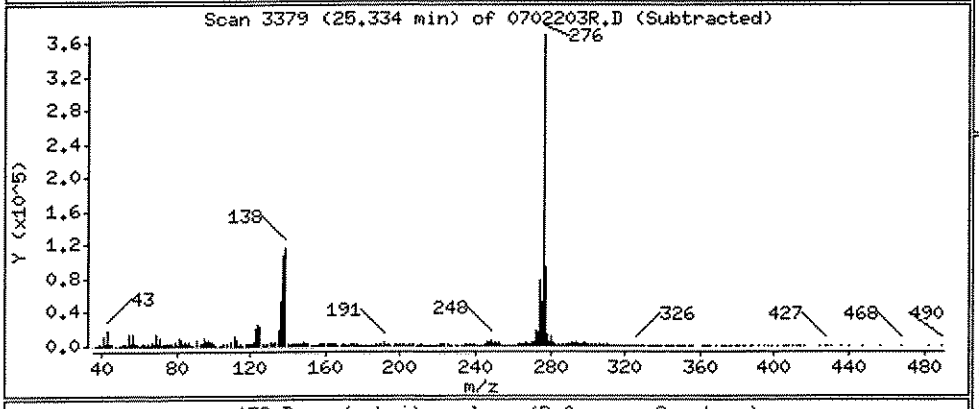
Volume Injected (uL): 0.5 Operator: SDB

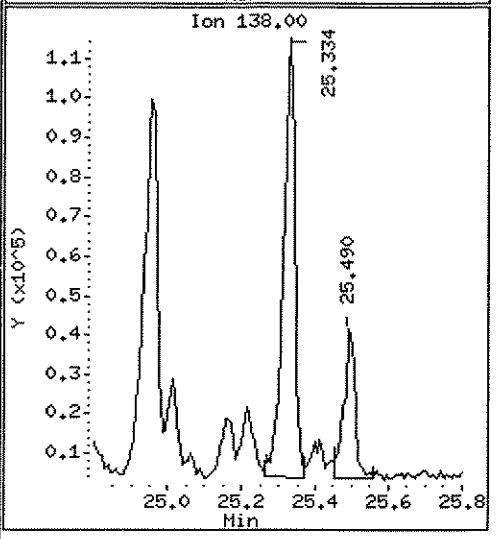
Column phase: fused silica Column diameter: 0.25

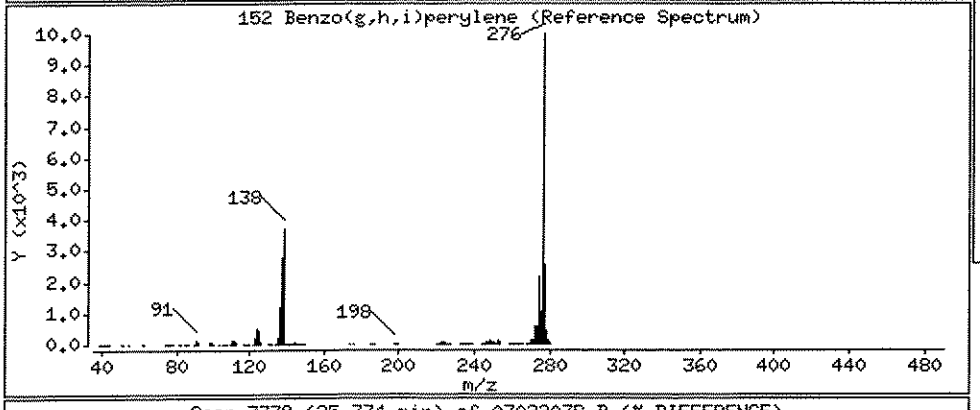
152 Benzo(g,h,i)perylene Concentration: 1697 UG/KG

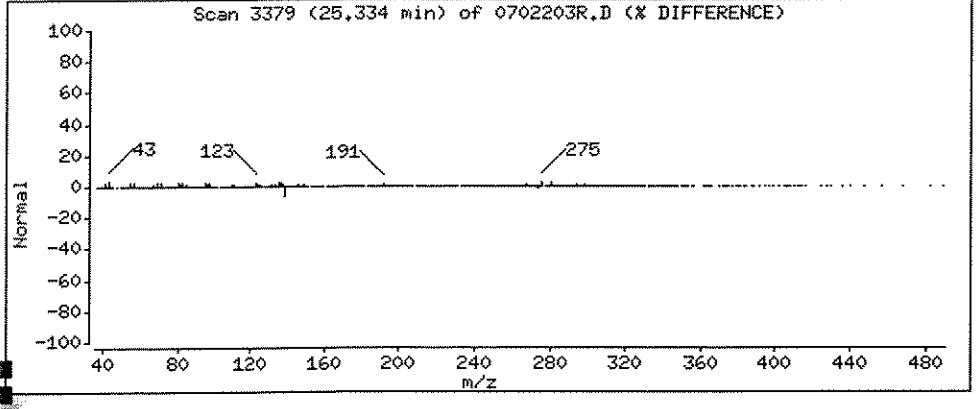












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:40

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	850	400	JD
208-96-8	Acenaphthylene	100	850		UD
120-12-7	Anthracene	100	850	700	JD
56-55-3	Benzo(a)anthracene	100	850	3400	D
205-99-2	Benzo(b)fluoranthene	100	850	4100	D
207-08-9	Benzo(k)fluoranthene	100	850	2000	D
191-24-2	Benzo(g,h,i)perylene	100	850	2200	D
50-32-8	Benzo(a)pyrene	100	510	3700	D
218-01-9	Chrysene	100	850	4300	D
53-70-3	Dibenz(a,h)anthracene	100	510	620	D
206-44-0	Fluoranthene	100	850	6000	D
86-73-7	Fluorene	100	850	410	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	850	2300	D
91-57-6	2-Methylnaphthalene	100	850		UD
90-12-0	1-Methylnaphthalene	260	850		UD
91-20-3	Naphthalene	100	850		UD
85-01-8	Phenanthrene	100	850	4000	D
129-00-0	Pyrene	100	850	5100	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 11-JUL-2006 15:40
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.238	4.235	(1.000)	554399	40.0000	
*	31 Naphthalene-d8	136	5.232	5.240	(1.000)	1861201	40.0000	
$	32 Nitrobenzene-d5	82	4.664	4.668	(0.891)	271931	13.3842	2276
*	65 Acenaphthene-d10	164	7.638	7.641	(1.000)	974269	40.0000	
$	70 2-Fluorobiphenyl	172	6.548	6.555	(0.857)	409954	13.2225	2249
	76 Acenaphthene	153	7.693	7.703	(1.007)	65704	2.33674	397.4(a)
	84 Fluorene	166	8.721	8.727	(1.142)	71970	2.39313	407.0(a)
*	97 Phenanthrene-d10	188	10.925	10.923	(1.000)	1309895	40.0000	
	106 Phenanthrene	178	10.980	10.986	(1.005)	867963	23.2399	3952
	107 Anthracene	178	11.083	11.096	(1.015)	151947	4.12090	700.8(a)
	110 Fluoranthene	202	14.203	14.195	(1.300)	1303462	35.2516	5995
*	124 Chrysene-d12	240	18.344	18.333	(1.000)	1003686	40.0000	
	126 Pyrene	202	14.778	14.770	(0.806)	1206873	30.1088	5120

7/12/06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Report Date: 12-Jul-2006 12:12

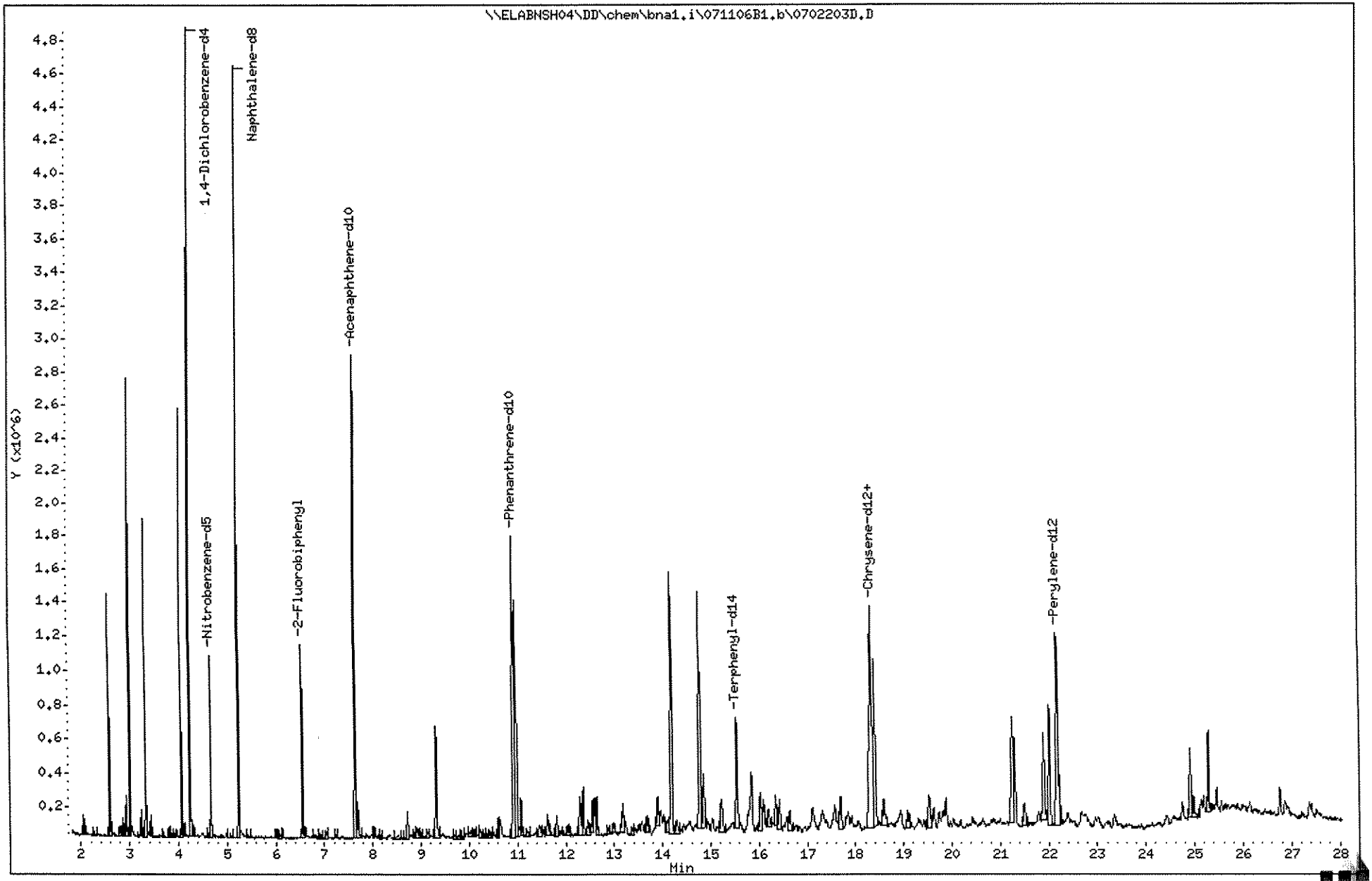
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.541	15.545	(0.847)	356791	14.0777	2394
130 Benzo(a)anthracene	228	18.295	18.291	(0.997)	640389	19.8025	3368
131 Chrysene	228	18.407	18.409	(1.003)	754539	25.5458	4344
* 145 Perylene-d12	264	22.189	22.175	(1.000)	1036314	40.0000	
147 Benzo(b)fluoranthene	252	21.253	21.248	(0.958)	770266	24.1289	4104(M)
148 Benzo(k)fluoranthene	252	21.302	21.317	(0.960)	391021	11.8061	2008(M)
149 Benzo(a)pyrene	252	22.021	22.017	(0.992)	596841	21.6818	3687
150 Indeno(1,2,3-cd)pyrene	276	24.913	24.921	(1.123)	318158	13.5468	2304
151 Dibenz(a,h)anthracene	278	24.976	24.998	(1.126)	85829	3.63010	617.4(a)
152 Benzo(g,h,i)perylene	276	25.293	25.301	(1.140)	312823	12.8352	2183

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D
Date : 11-JUL-2006 15:40
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000056



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

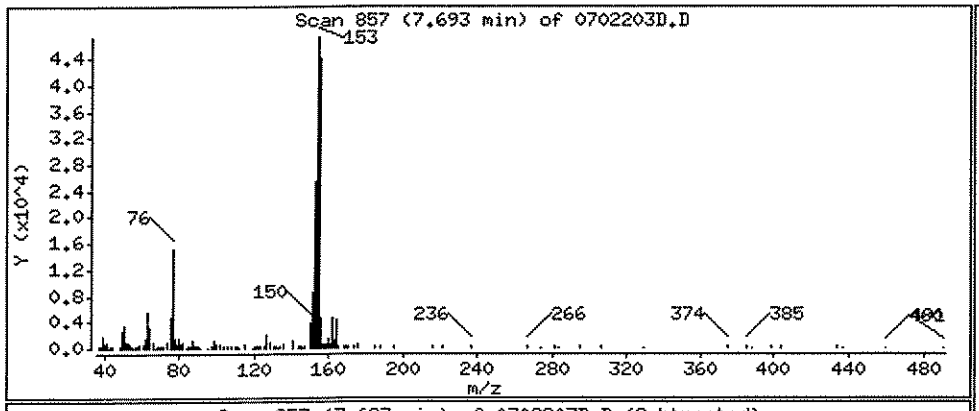
Client ID: 51CFM01S060706 Instrument: bna1.i

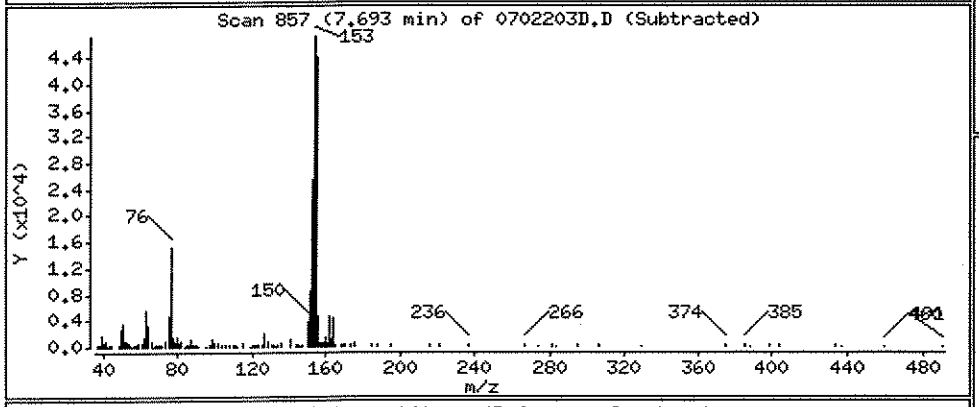
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

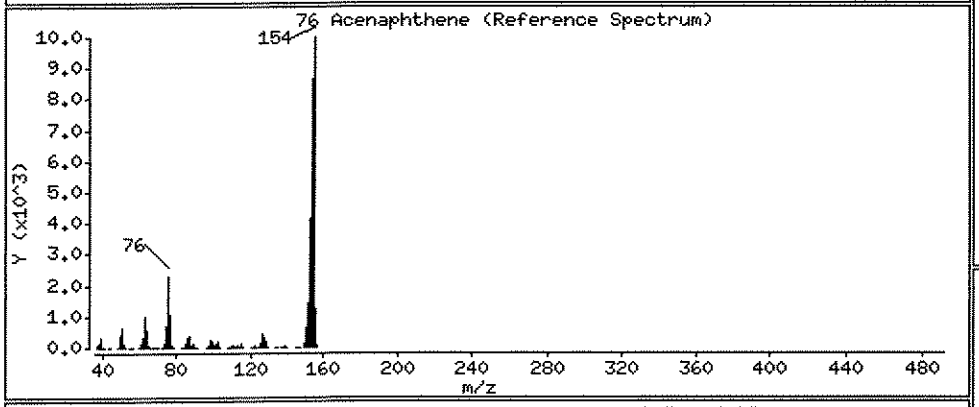
Volume Injected (uL): 0.5 Operator: SDB

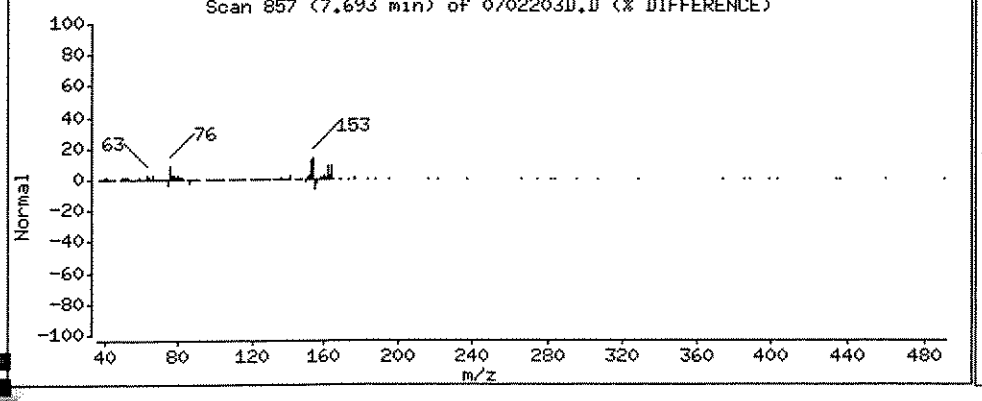
Column phase: fused silica Column diameter: 0.25

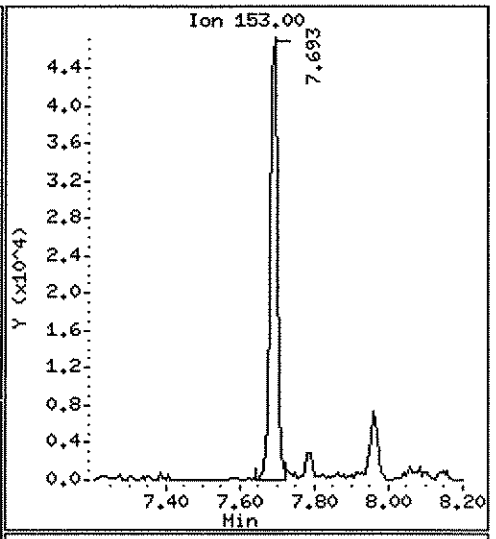
76 Acenaphthene Concentration: 397.4 UG/KG

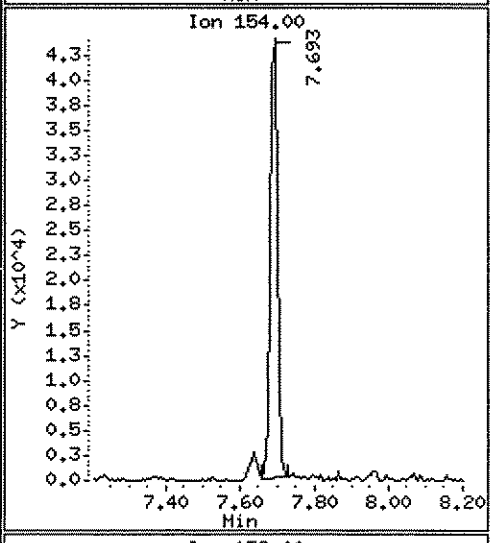


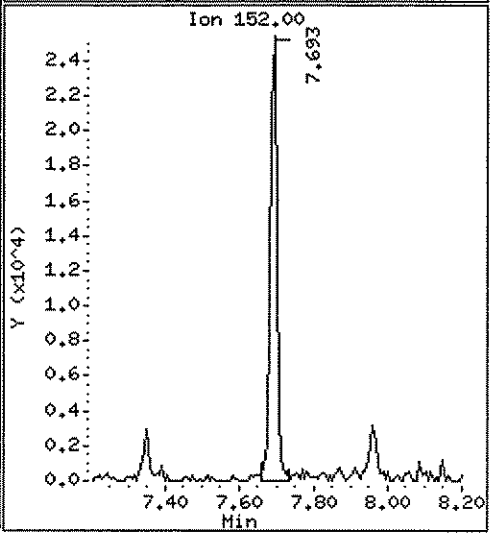












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

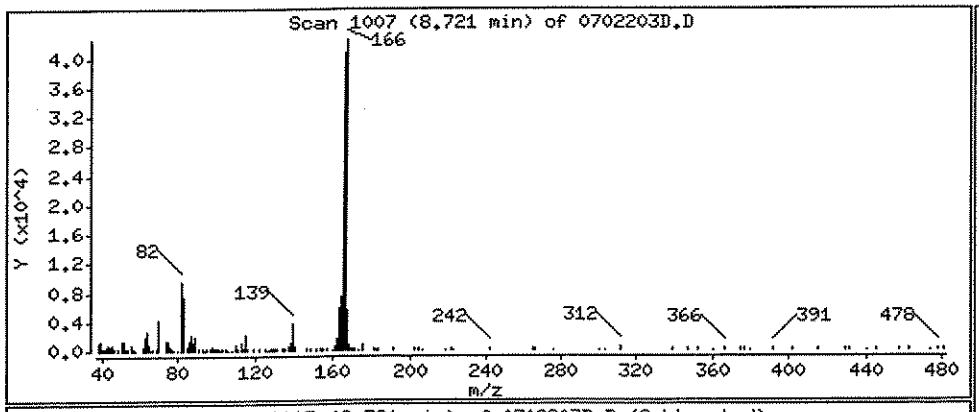
Client ID: 51CFM01S060706 Instrument: bna1.i

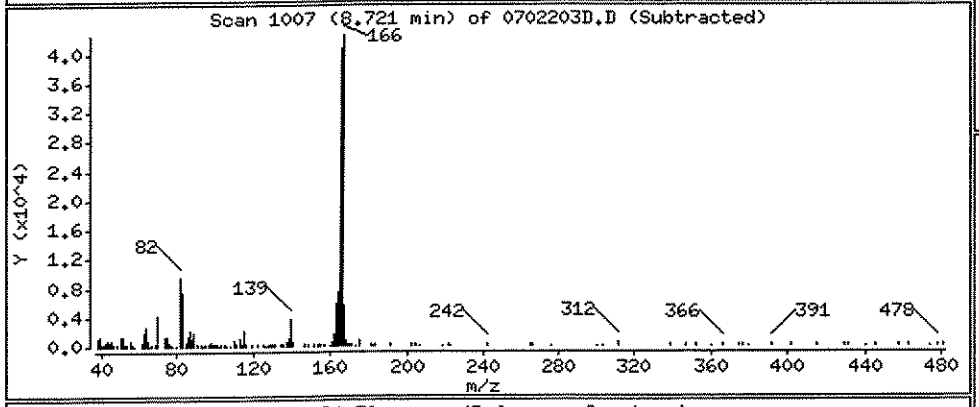
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

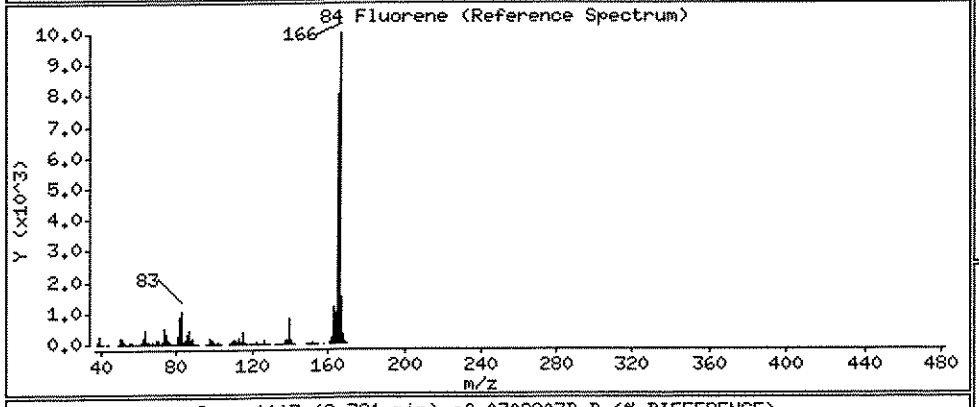
Volume Injected (uL): 0.5 Operator: SDB

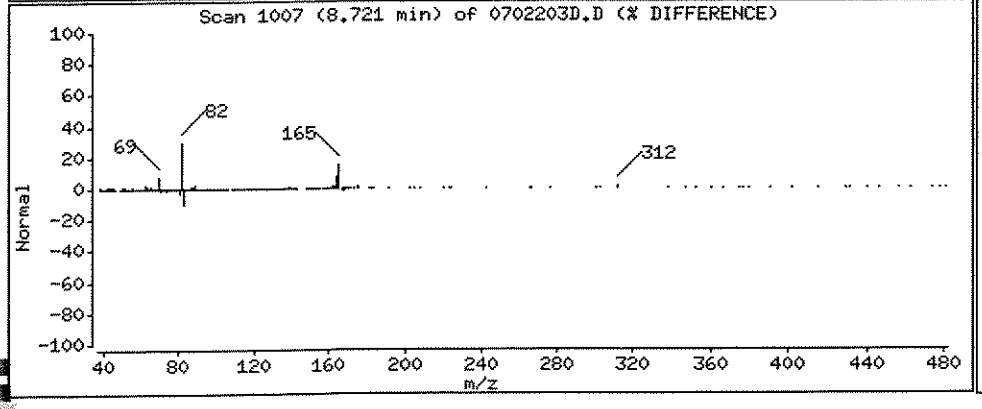
Column phase: fused silica Column diameter: 0.25

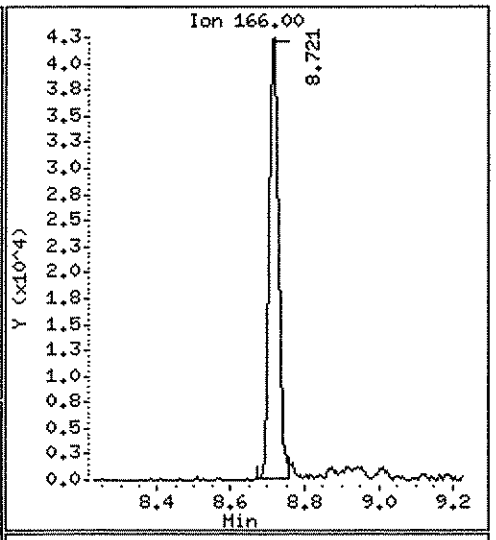
84 Fluorene Concentration: 407.0 UG/KG

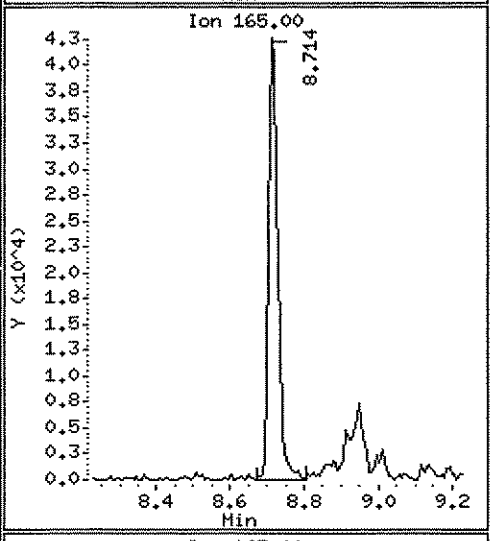


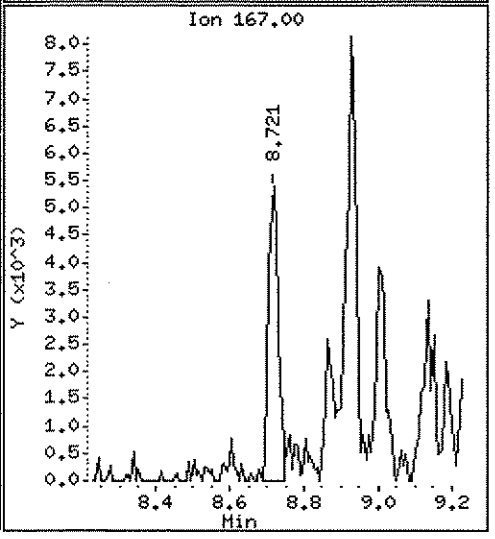












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

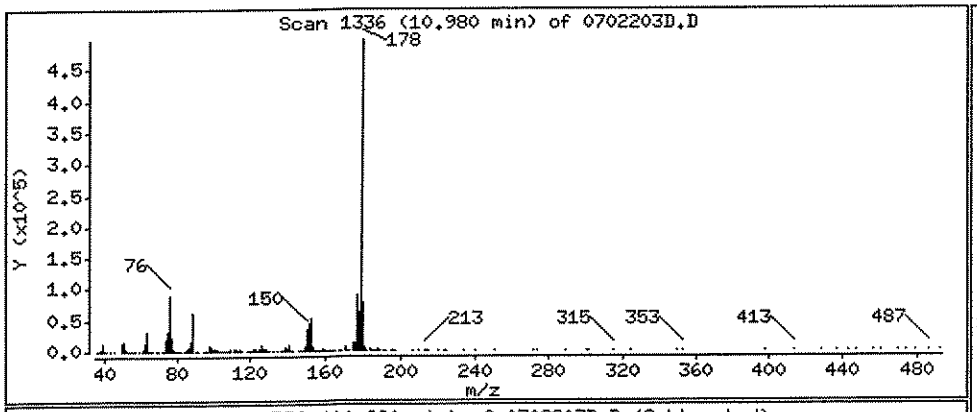
Client ID: 51CFM01S060706 Instrument: bna1.i

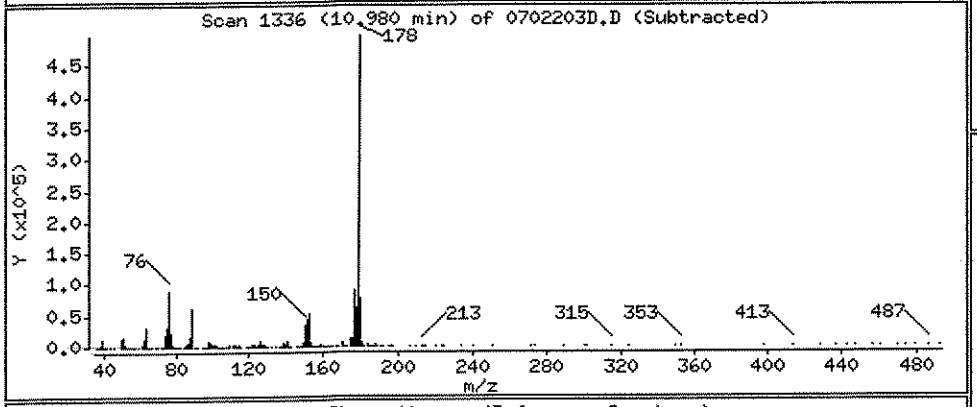
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

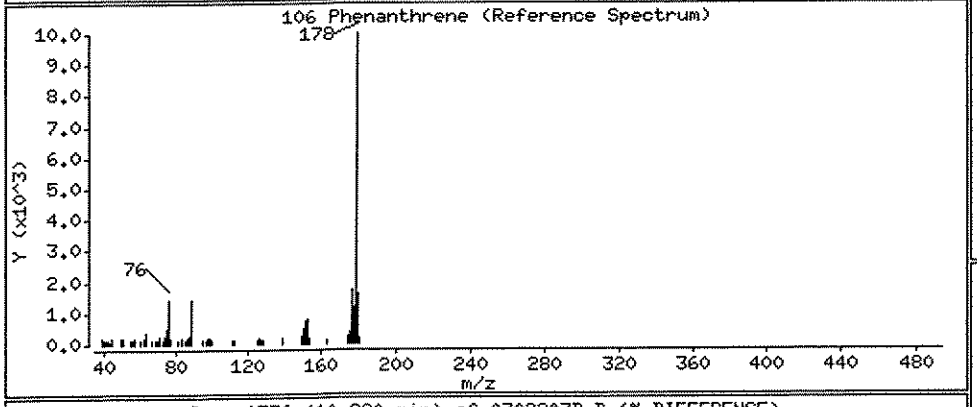
Volume Injected (uL): 0.5 Operator: SDB

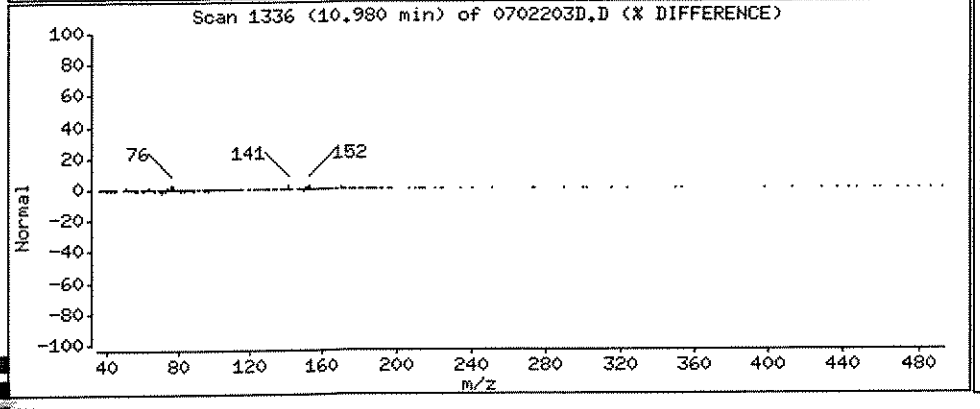
Column phase: fused silica Column diameter: 0.25

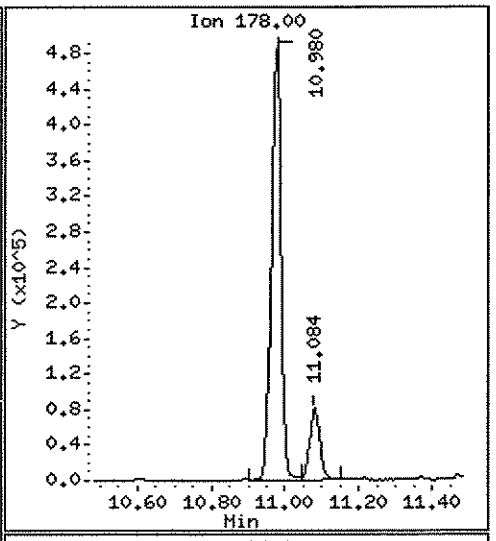
106 Phenanthrene Concentration: 3952 UG/KG

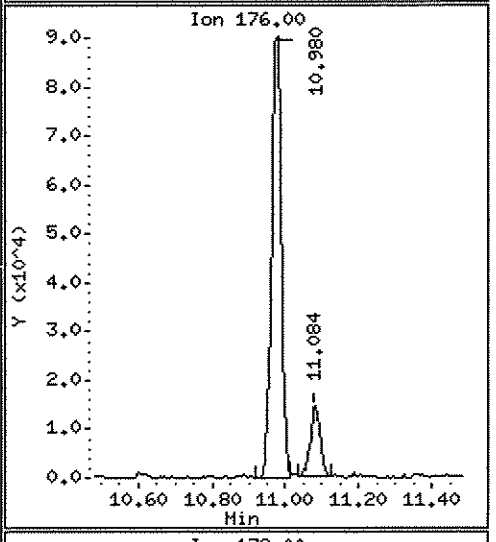


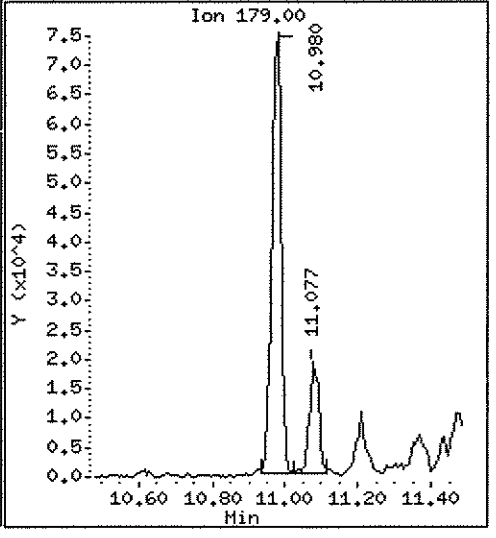












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

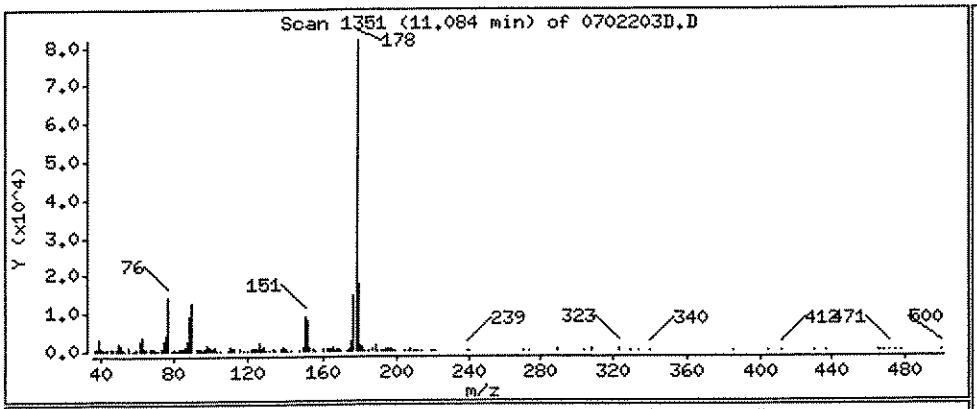
Client ID: 51CFM01S060706 Instrument: bna1.i

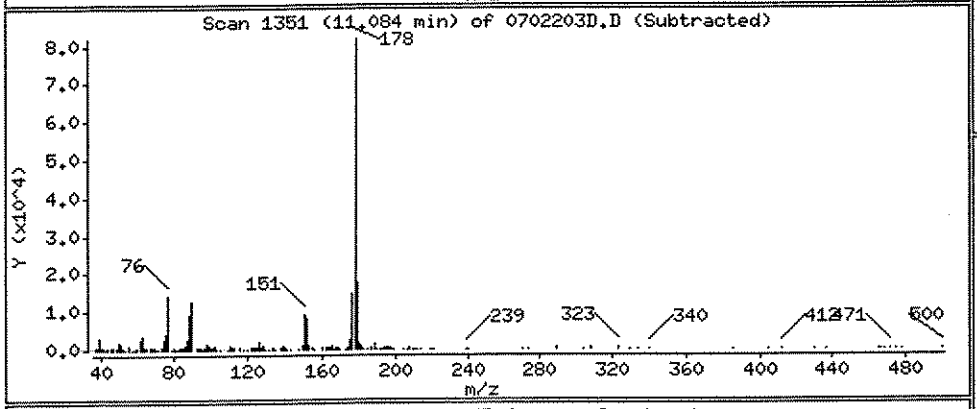
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

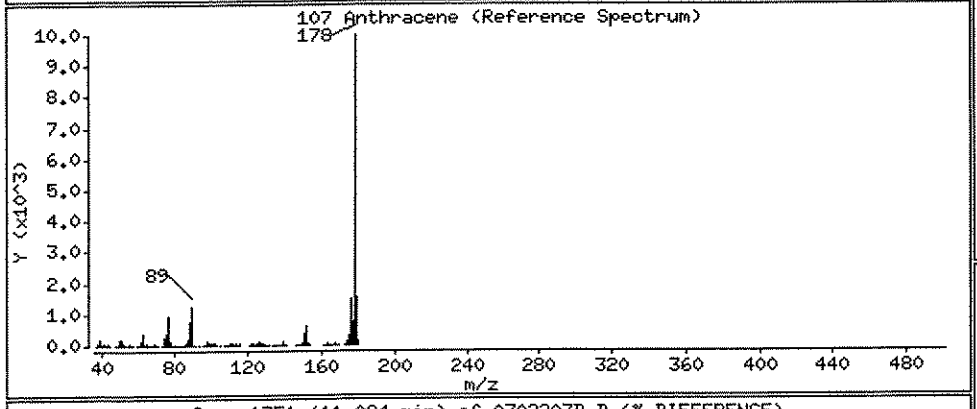
Volume Injected (uL): 0.5 Operator: SDB

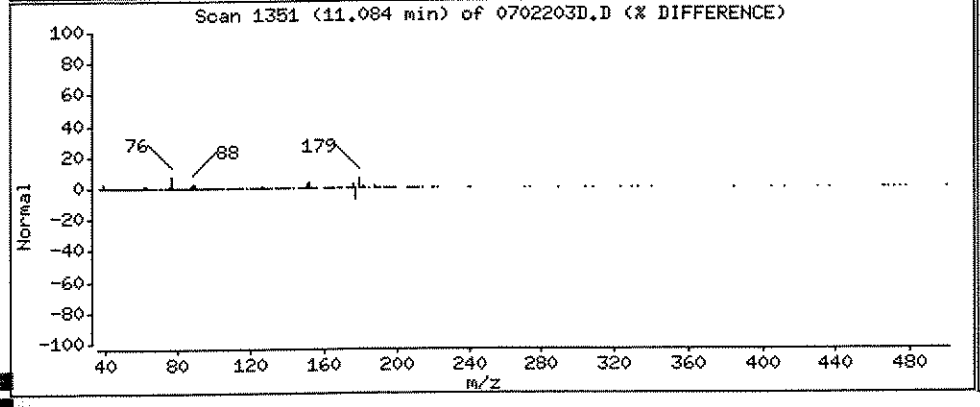
Column phase: fused silica Column diameter: 0.25

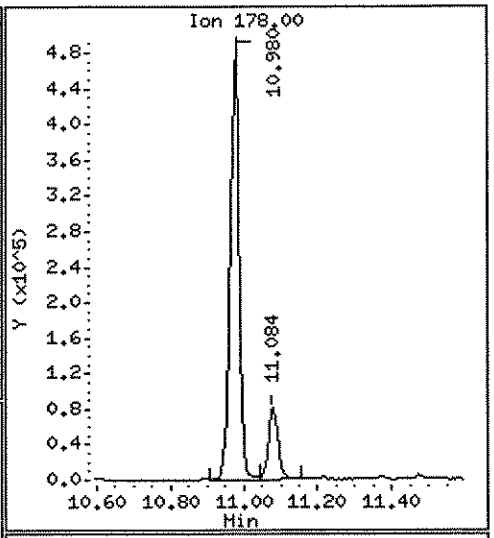
107 Anthracene Concentration: 700.8 UG/KG

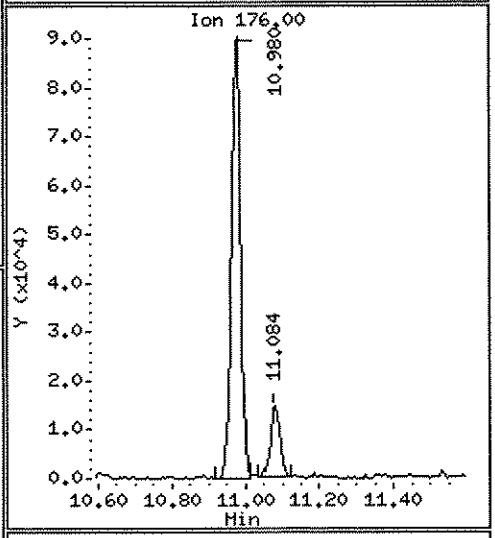


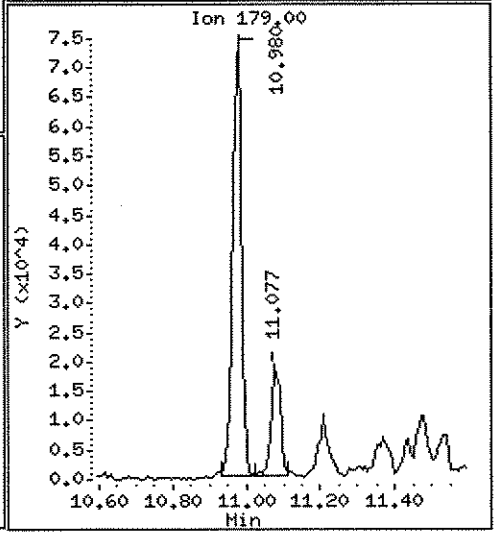












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

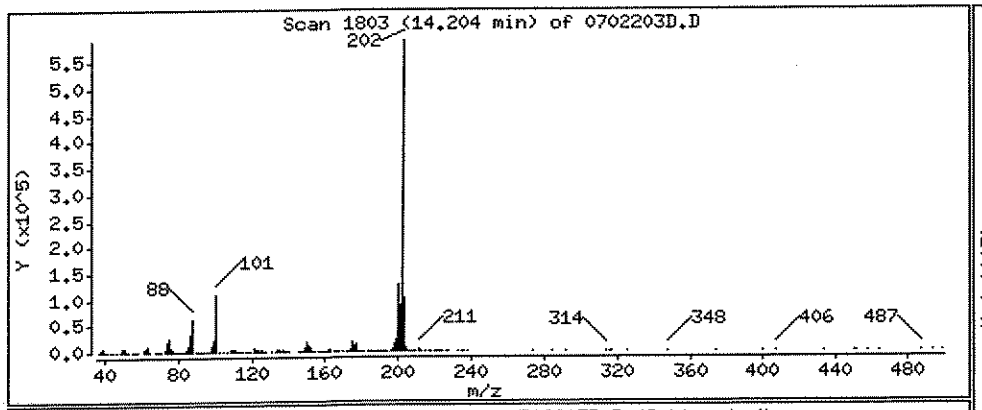
Client ID: 51CFM01S060706 Instrument: bna1.i

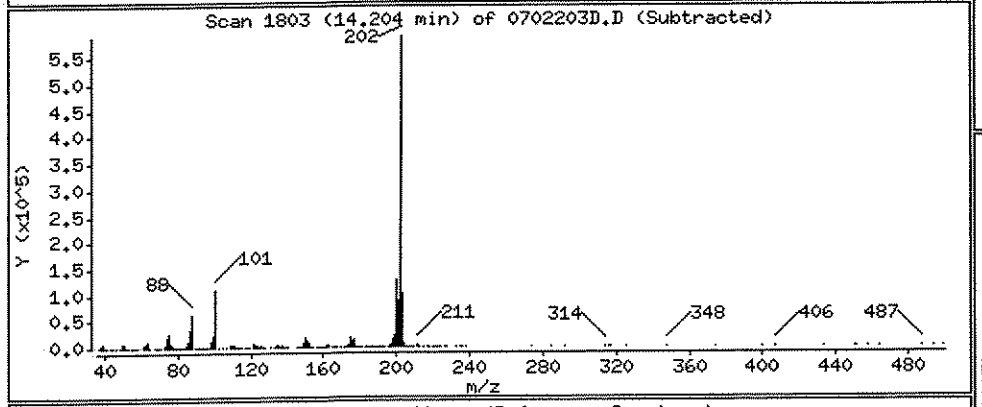
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

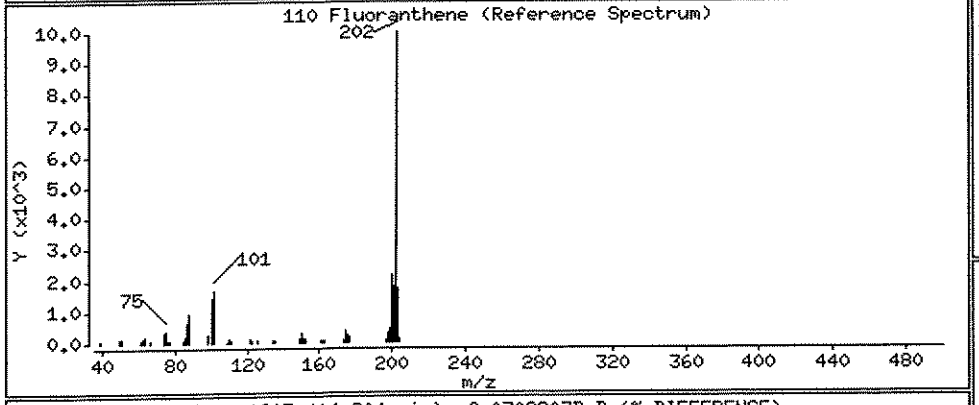
Volume Injected (uL): 0.5 Operator: SDB

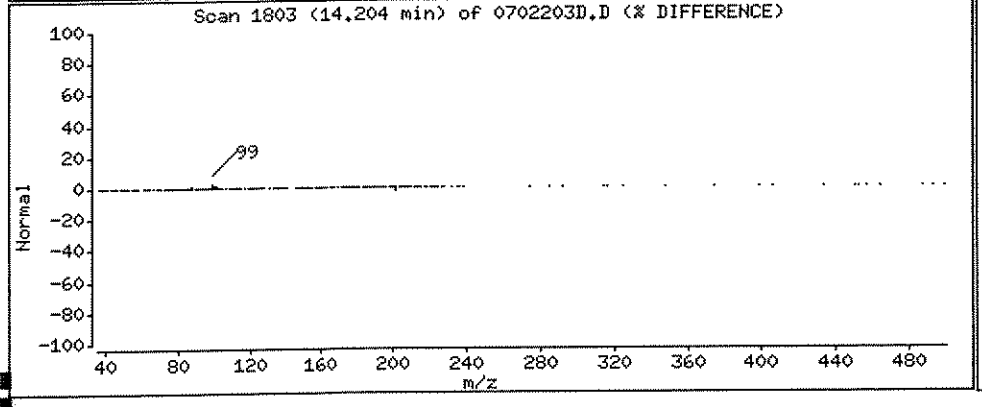
Column phase: fused silica Column diameter: 0.25

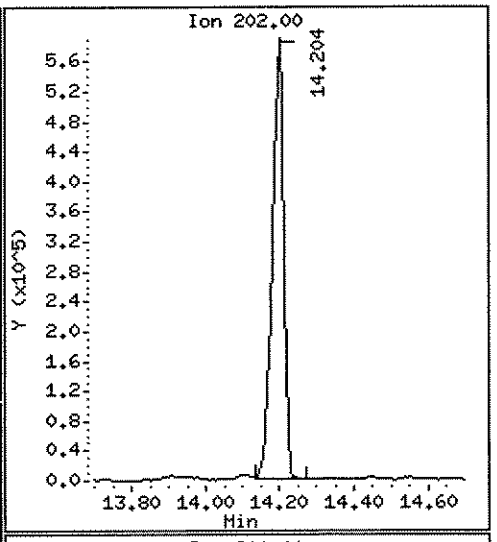
110 Fluoranthene Concentration: 5995 UG/KG

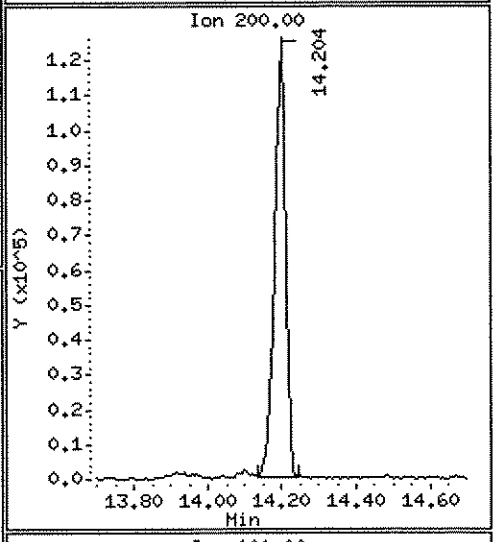


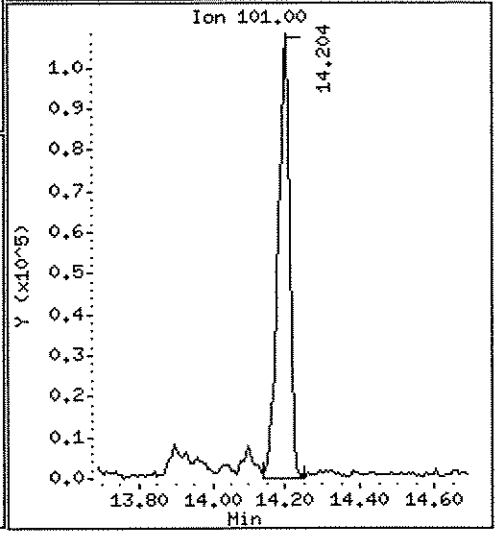












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

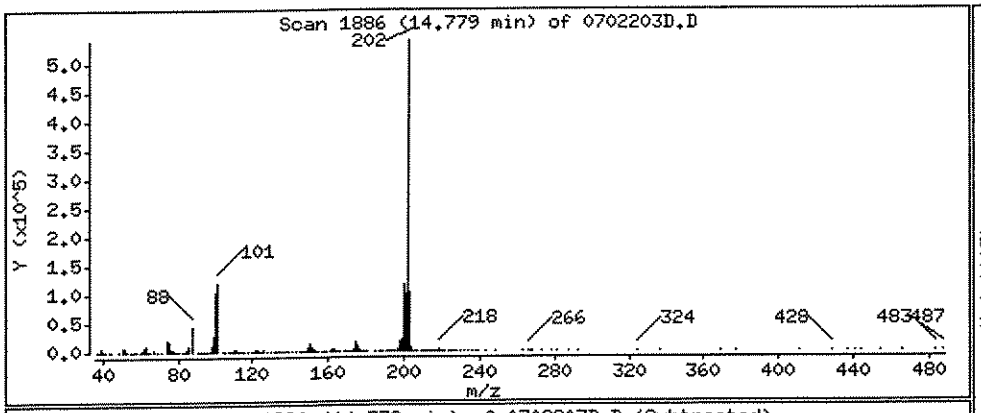
Client ID: 51CFH01S060706 Instrument: bna1.i

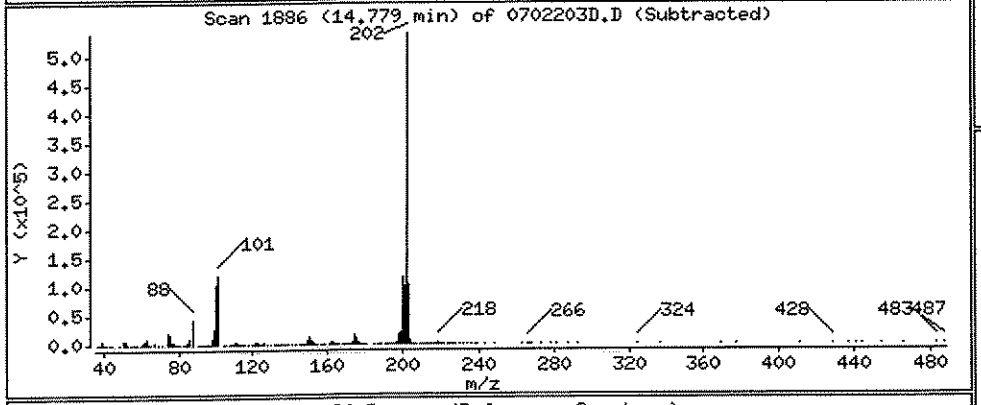
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

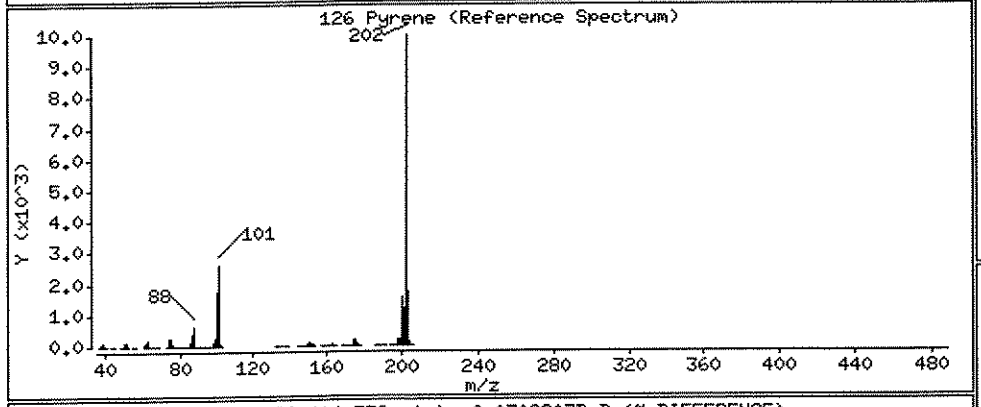
Volume Injected (uL): 0.5 Operator: SDB

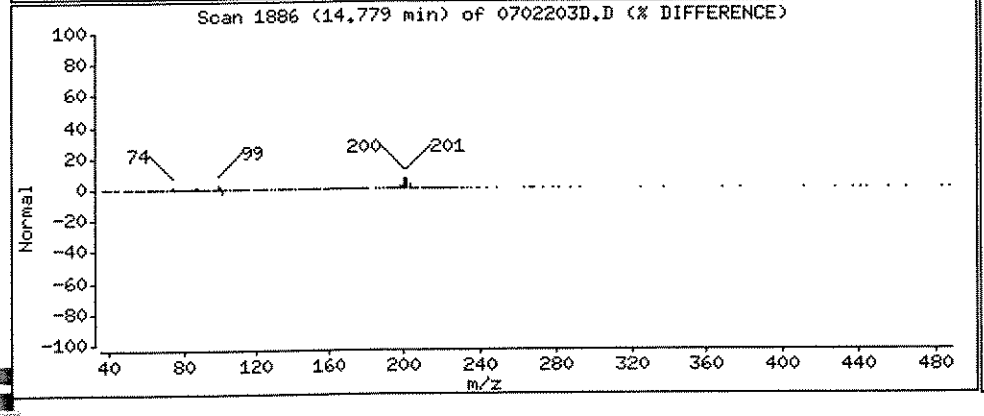
Column phase: fused silica Column diameter: 0.25

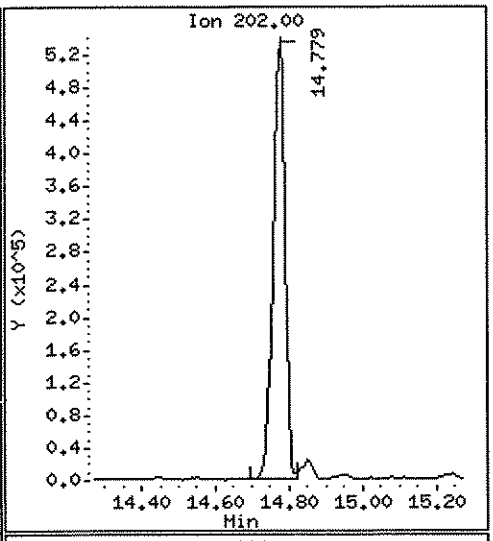
126 Pyrene Concentration: 5120 UG/KG

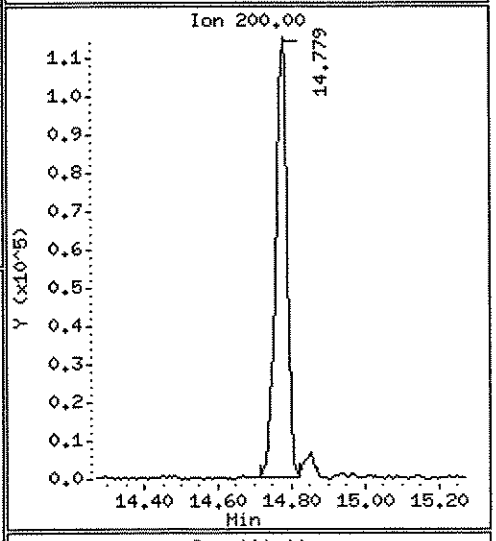


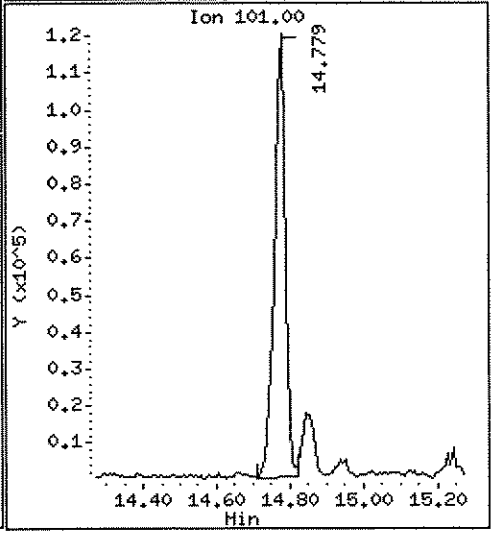












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

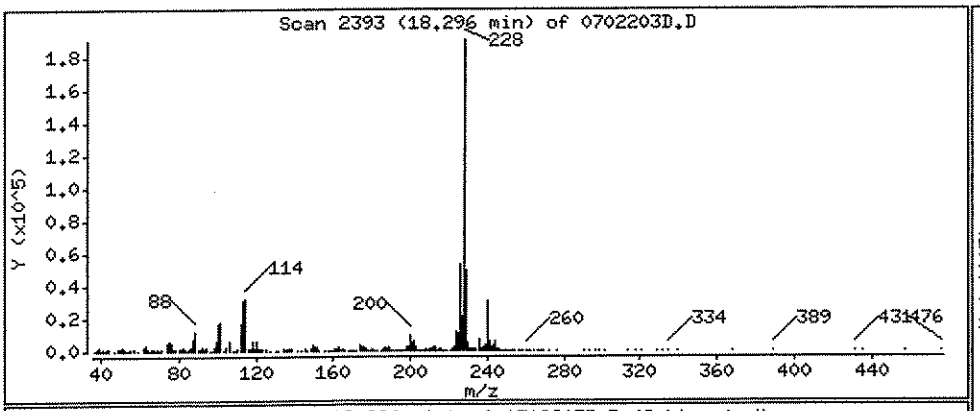
Client ID: 51CFM01S060706 Instrument: bna1.i

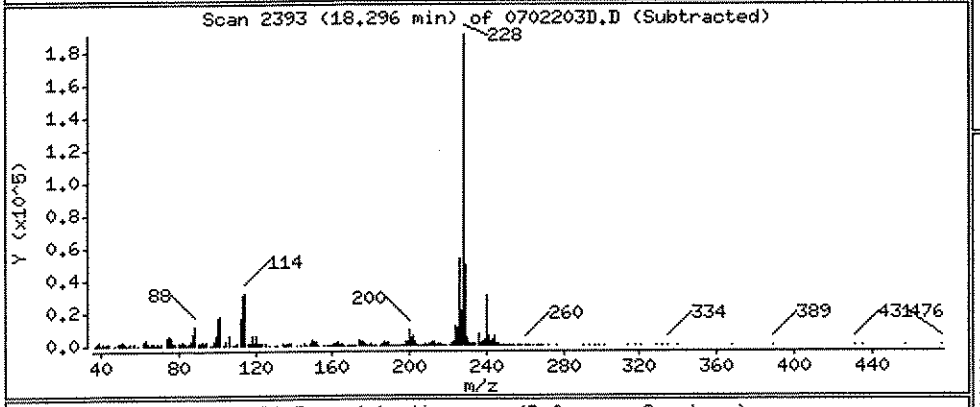
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

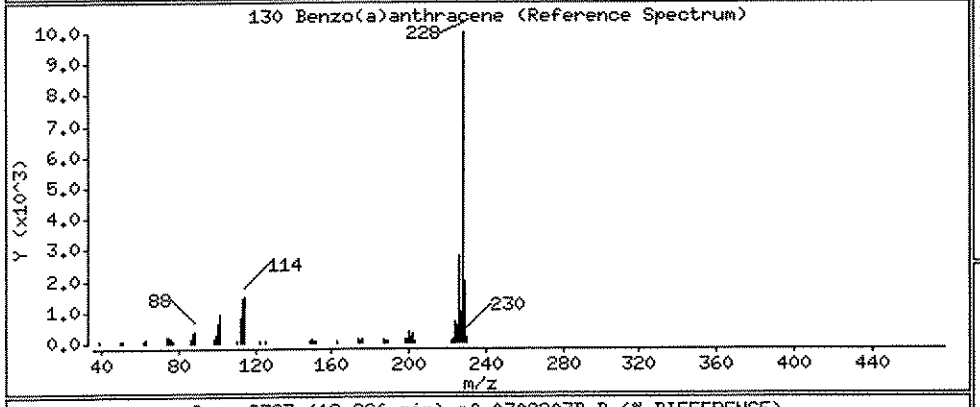
Volume Injected (uL): 0.5 Operator: SDB

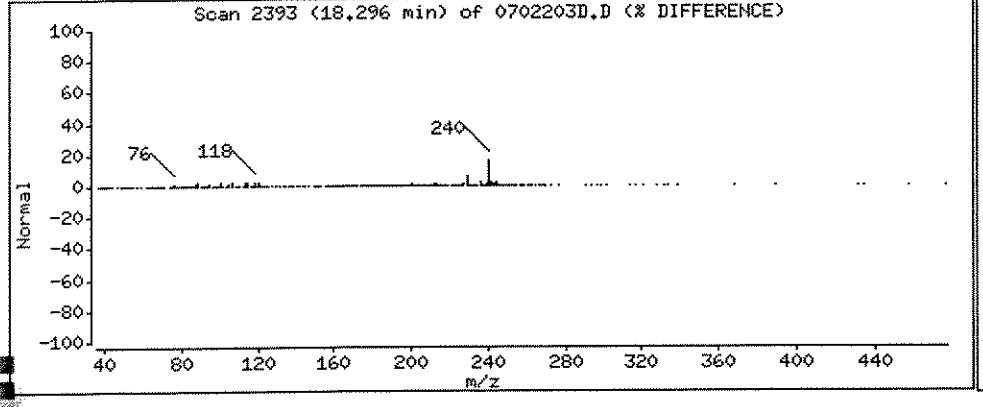
Column phase: fused silica Column diameter: 0.25

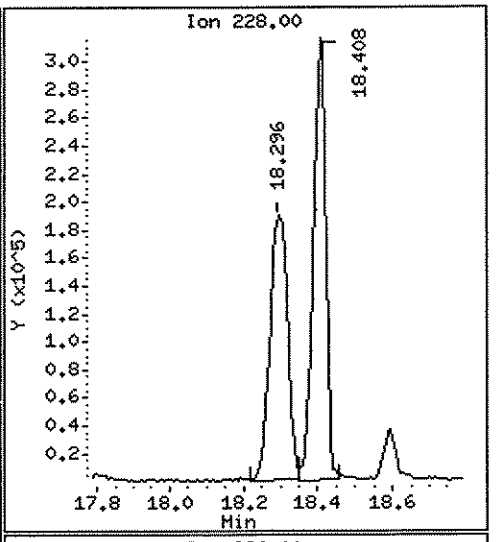
130 Benzo(a)anthracene Concentration: 3368 UG/KG

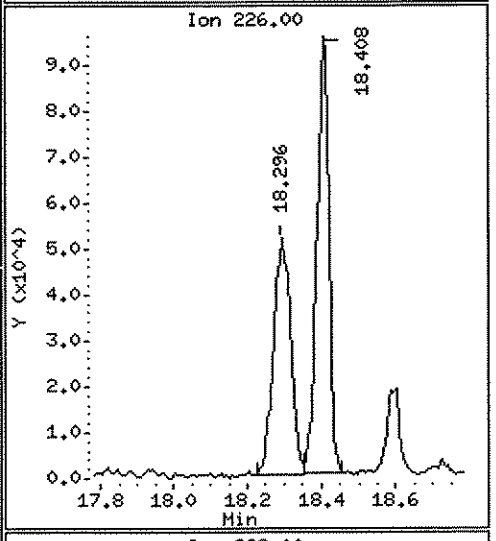


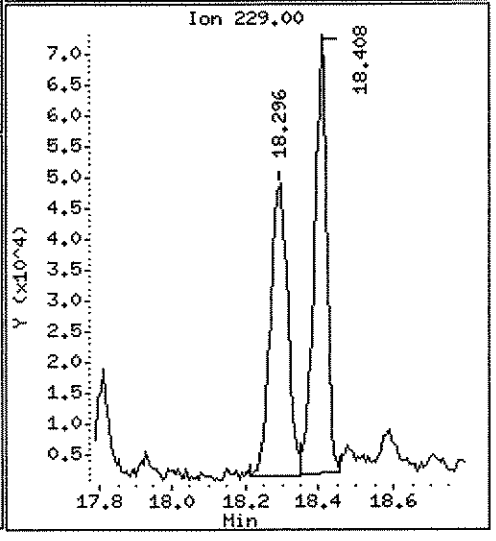












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

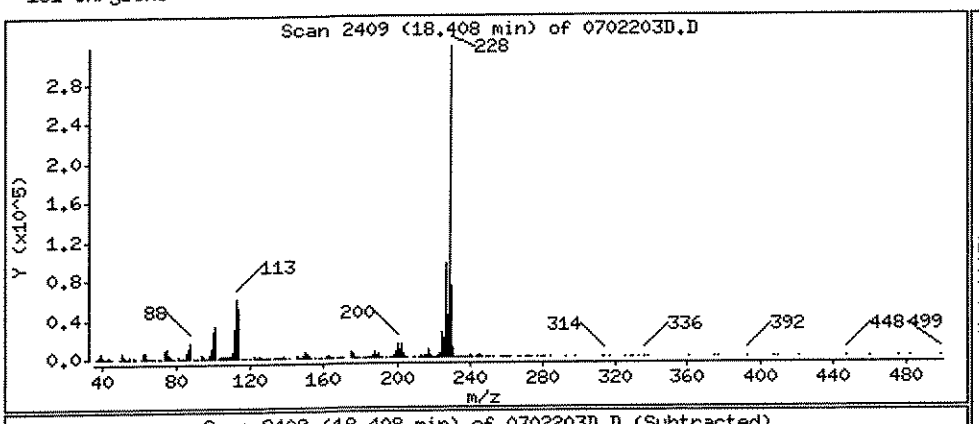
Operator: SDB

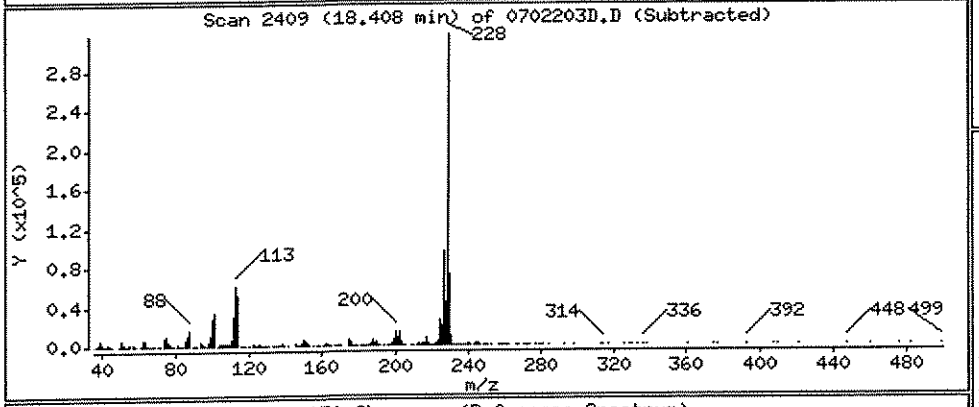
Column phase: fused silica

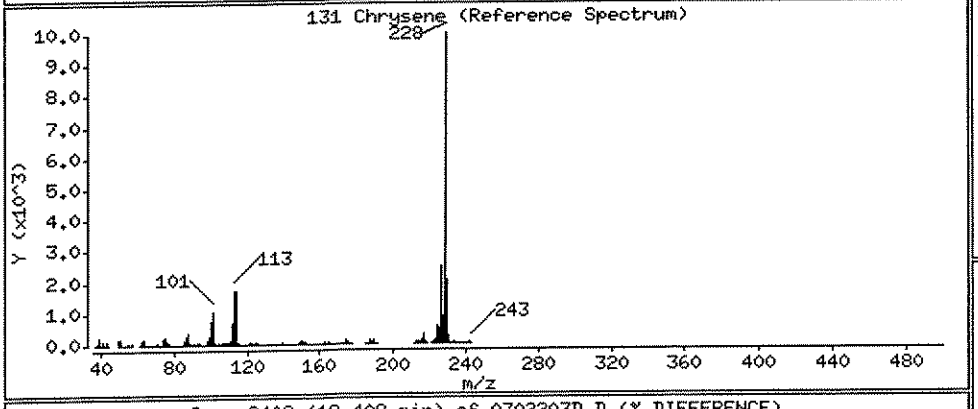
Column diameter: 0.25

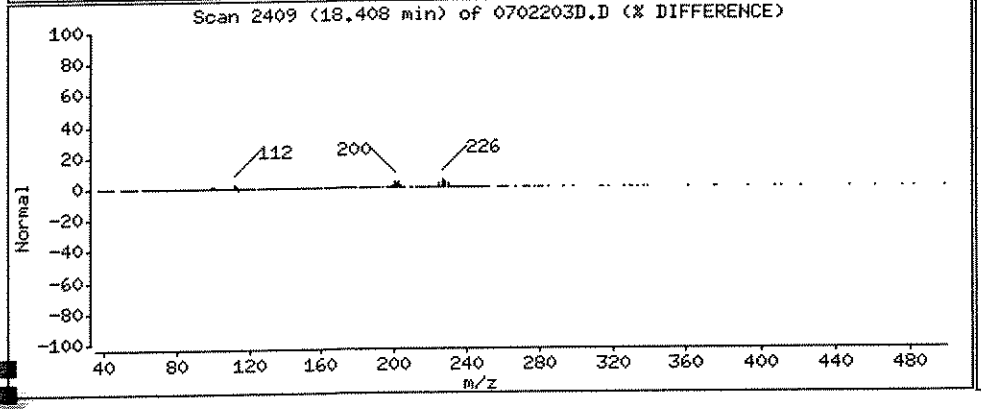
131 Chrysene

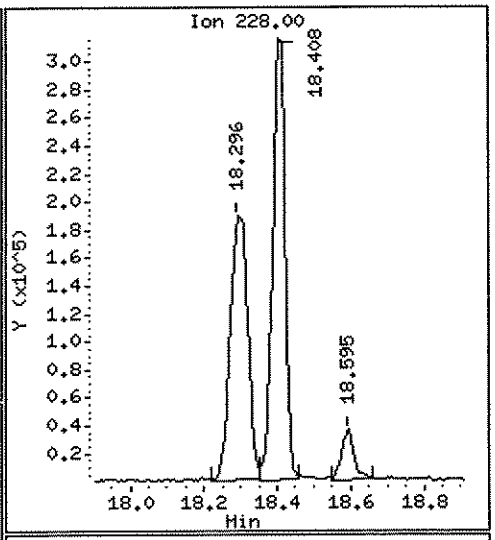
Concentration: 4344 UG/KG

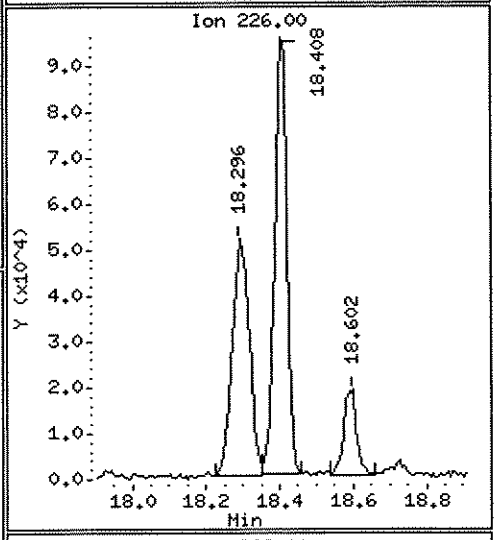


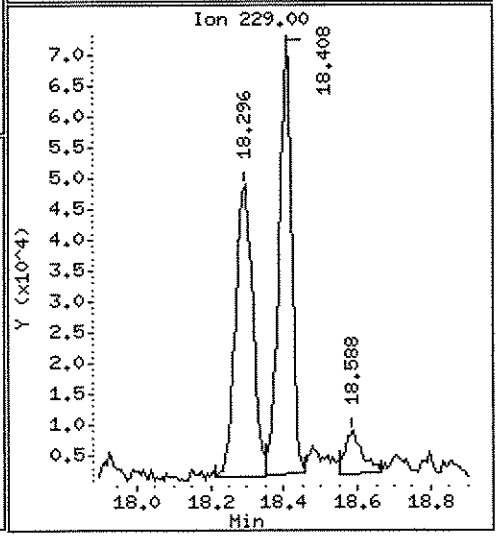












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

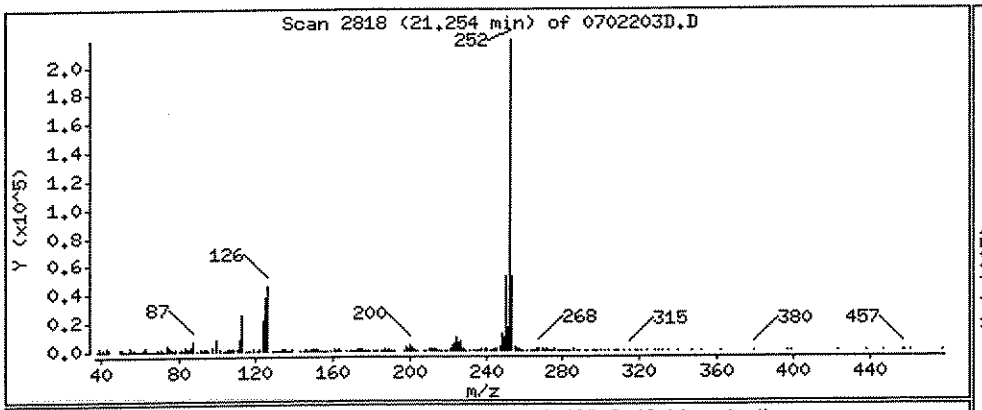
Client ID: 51CFM01S060706 Instrument: bna1.i

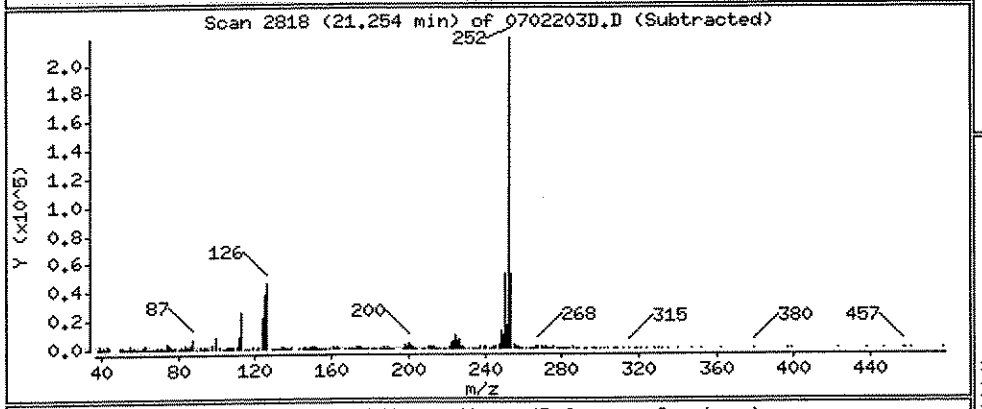
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

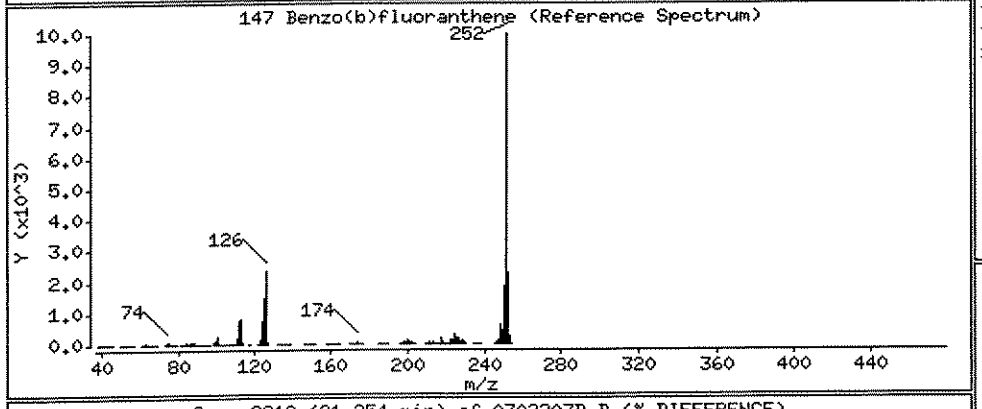
Volume Injected (uL): 0.5 Operator: SDB

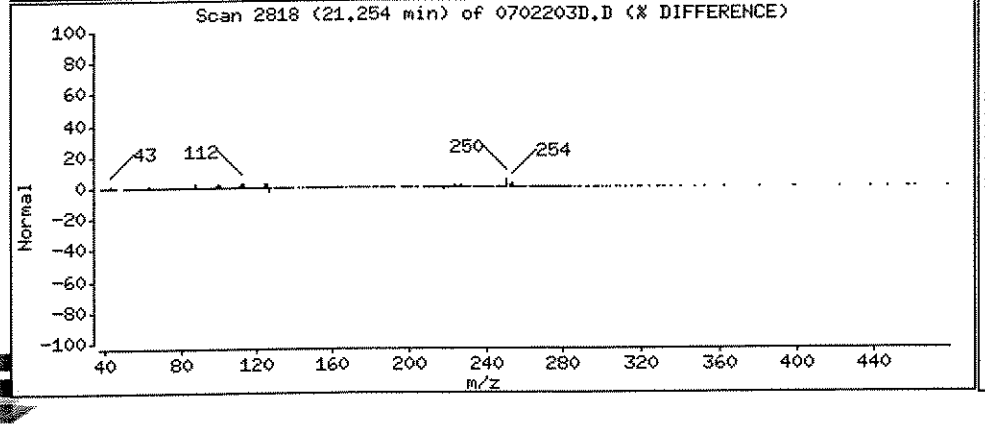
Column phase: fused silica Column diameter: 0.25

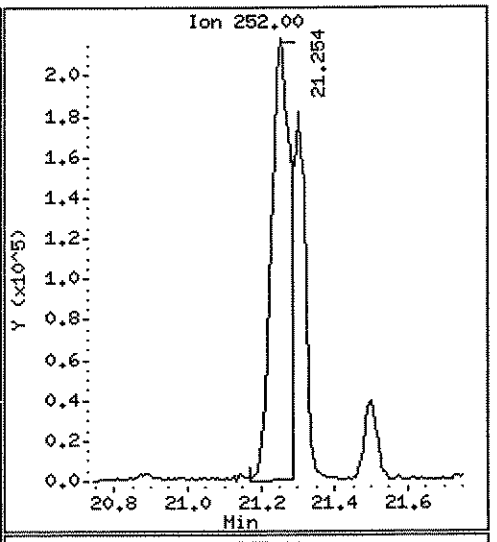
147 Benzo(b)fluoranthene Concentration: 4104 UG/KG

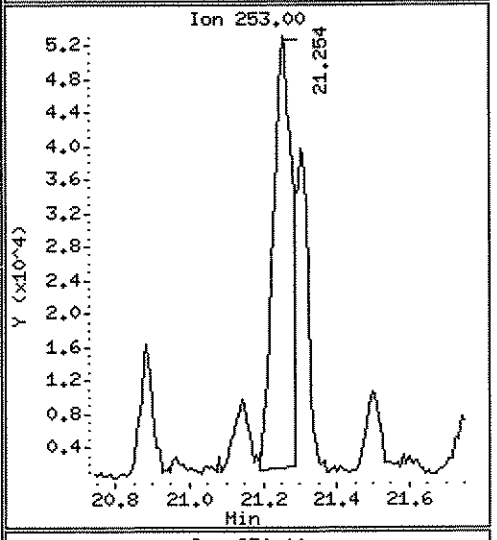


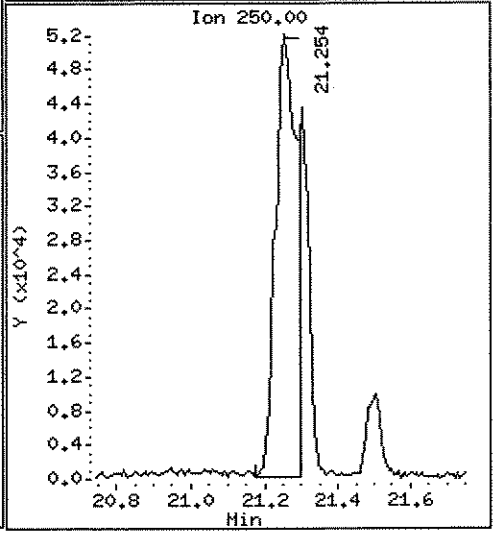












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

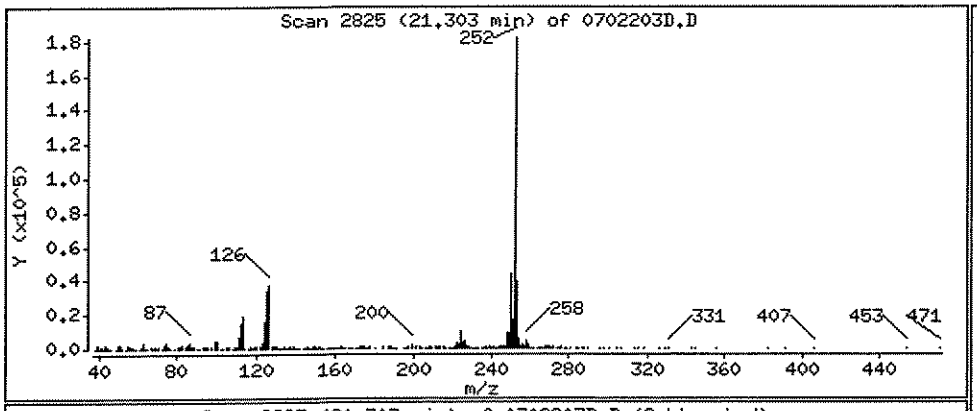
Client ID: 51CFM01S060706 Instrument: bna1.i

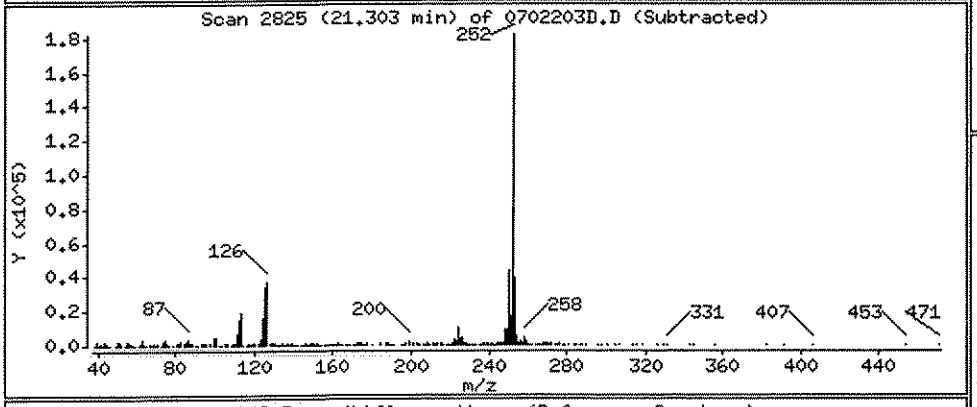
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

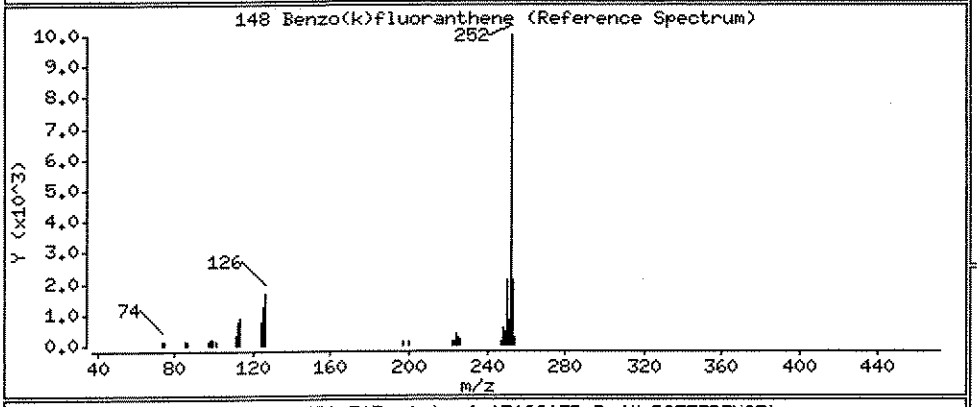
Volume Injected (uL): 0.5 Operator: SDB

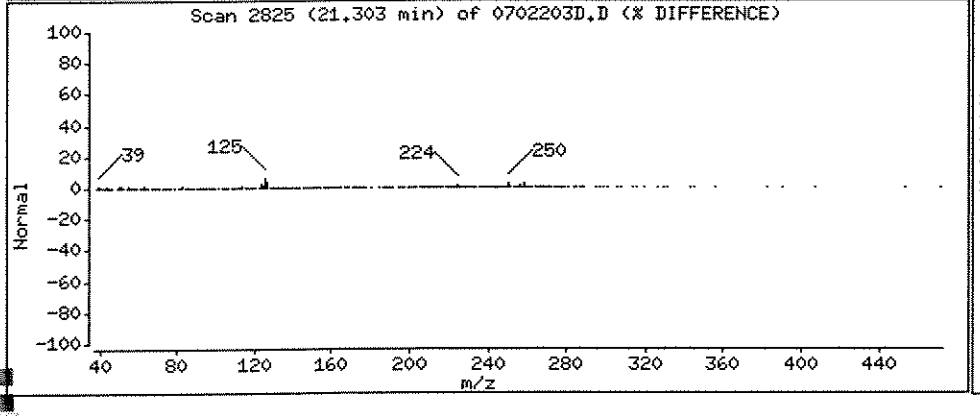
Column phase: fused silica Column diameter: 0.25

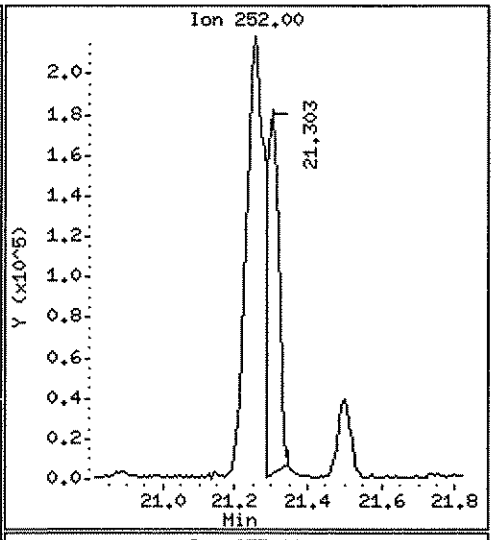
148 Benzo(k)fluoranthene Concentration: 2008 UG/KG

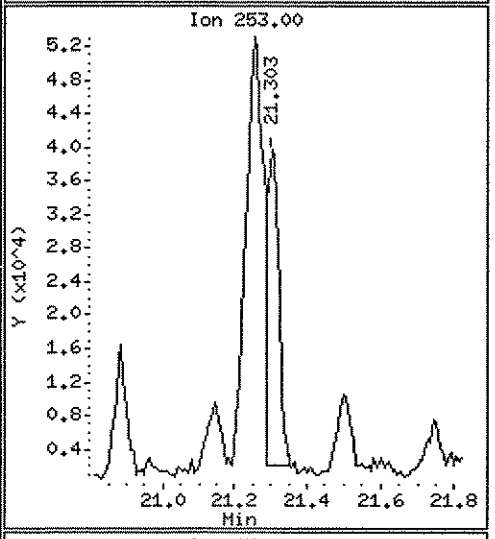


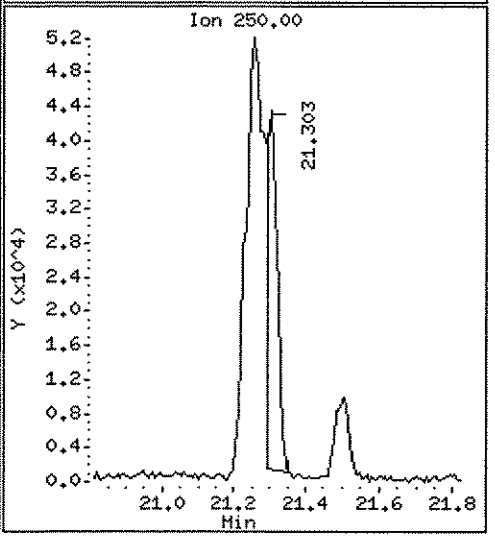












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

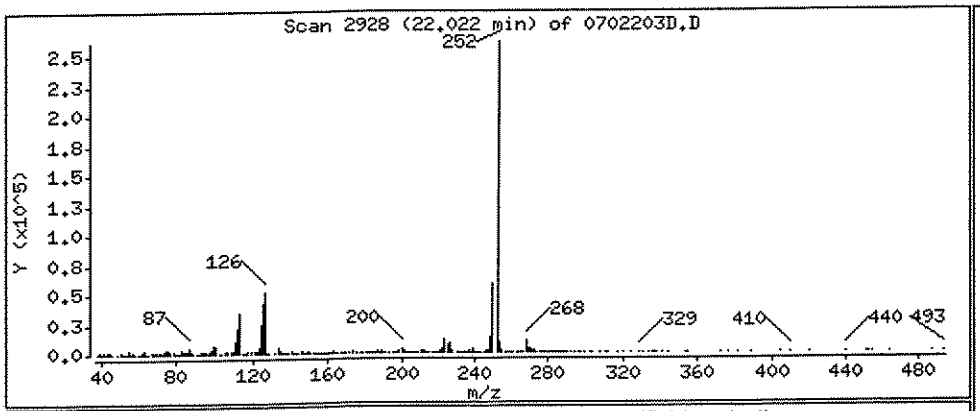
Operator: SDB

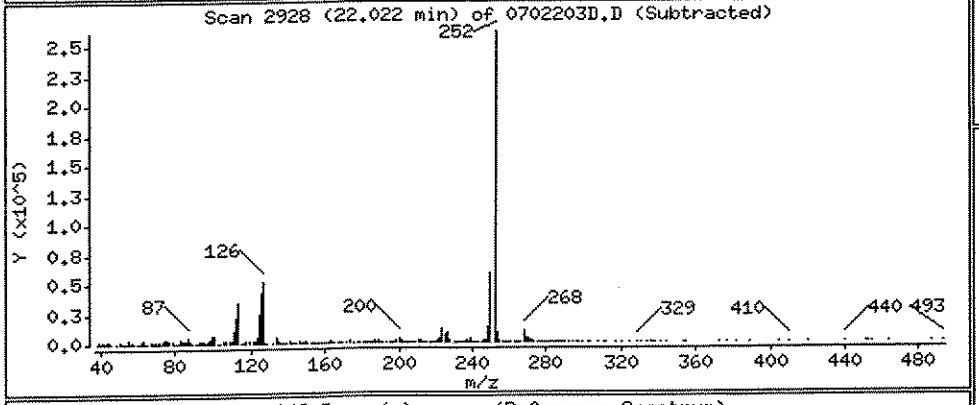
Column phase: fused silica

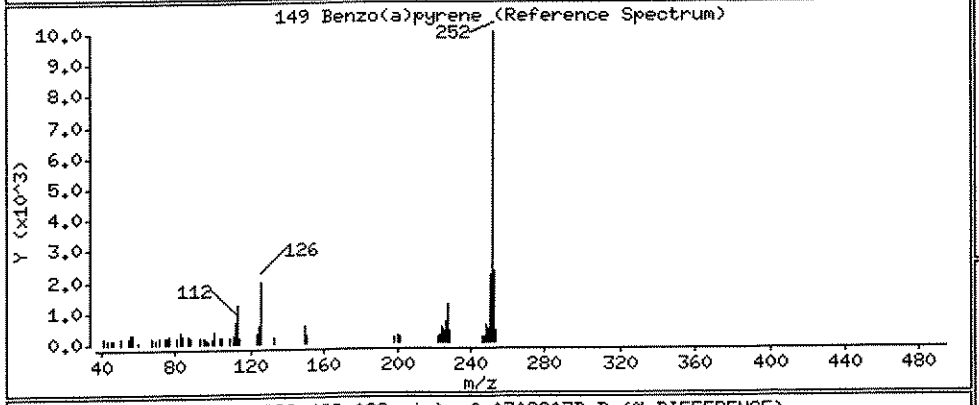
Column diameter: 0.25

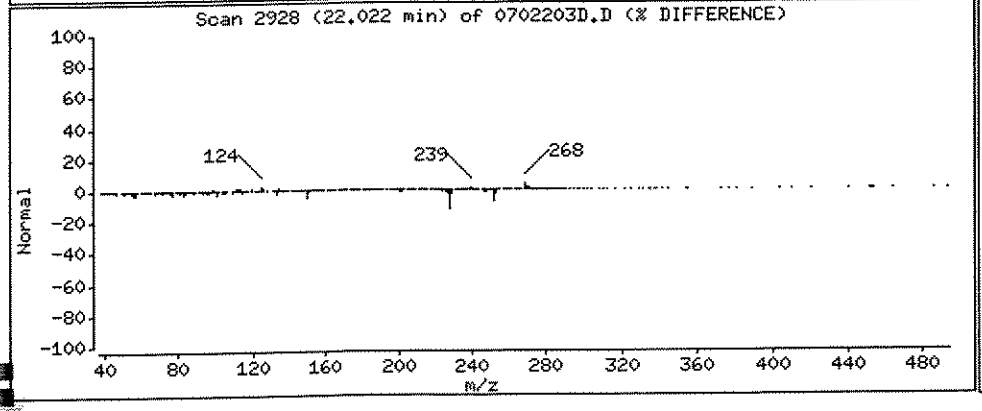
149 Benzo(a)pyrene

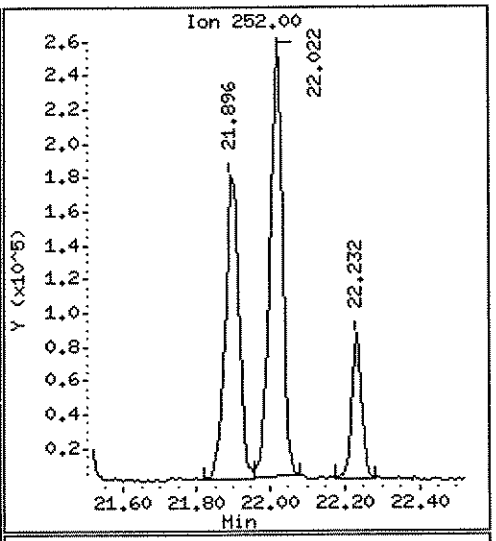
Concentration: 3687 UG/KG

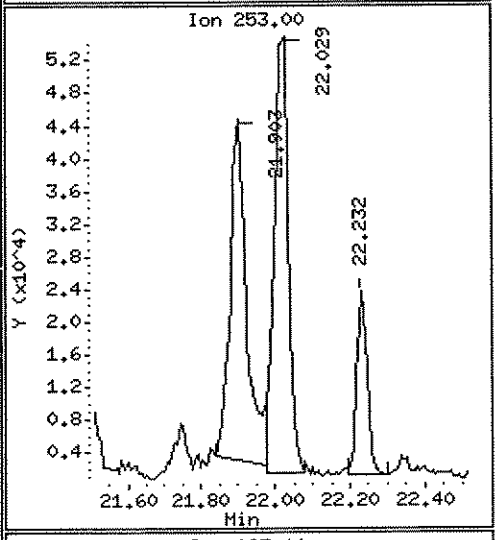


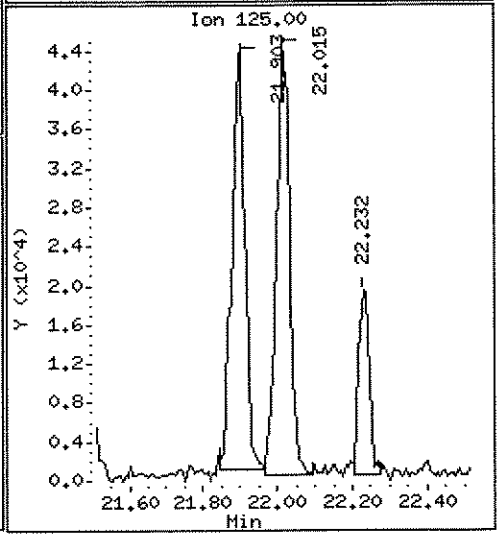












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

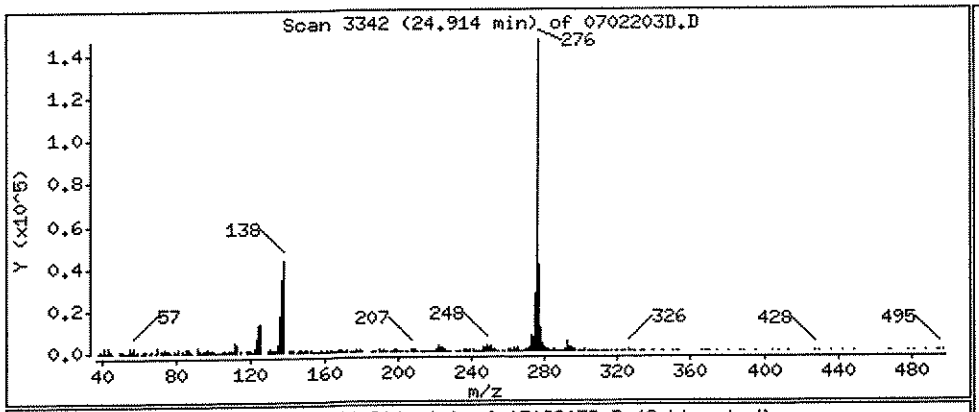
Client ID: 51CFM01S060706 Instrument: bna1.i

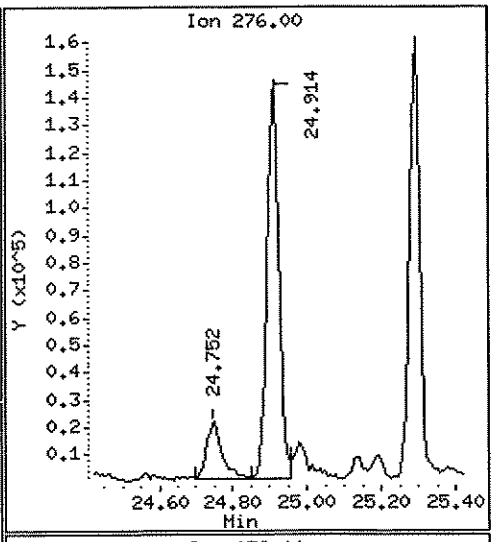
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

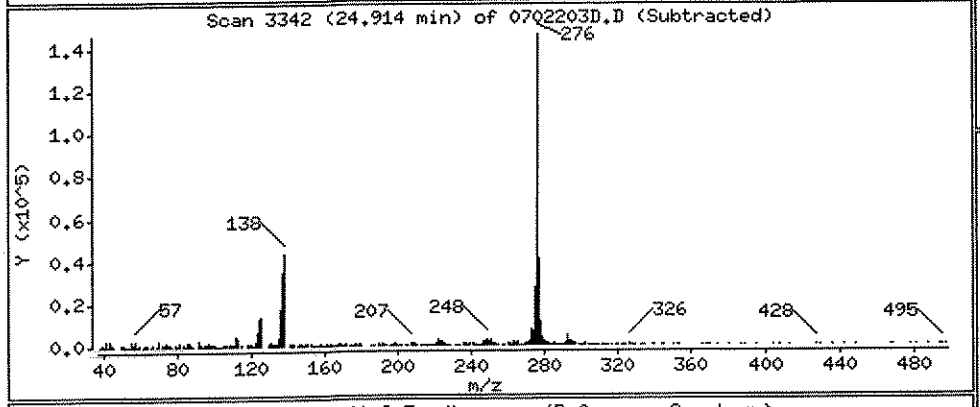
Volume Injected (uL): 0.5 Operator: SDB

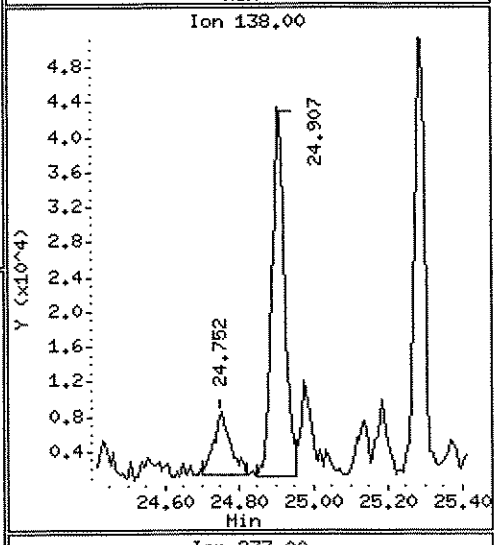
Column phase: fused silica Column diameter: 0.25

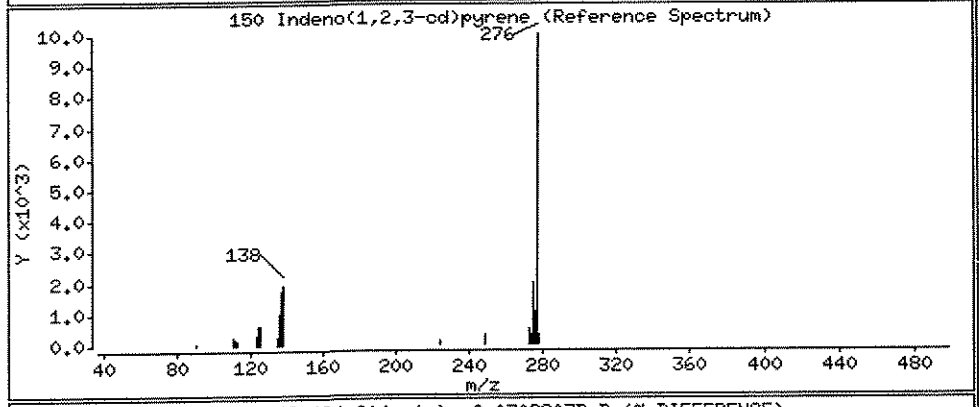
150 Indeno(1,2,3-cd)pyrene Concentration: 2304 UG/KG

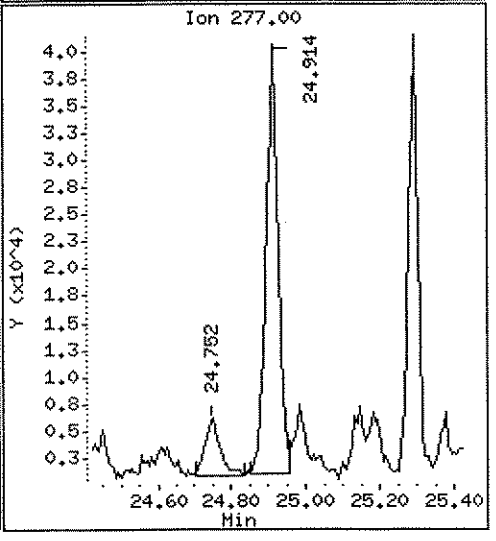


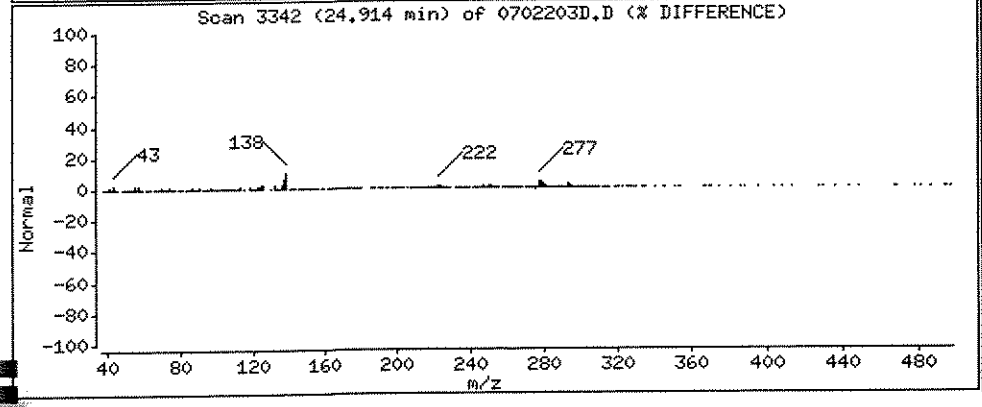












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

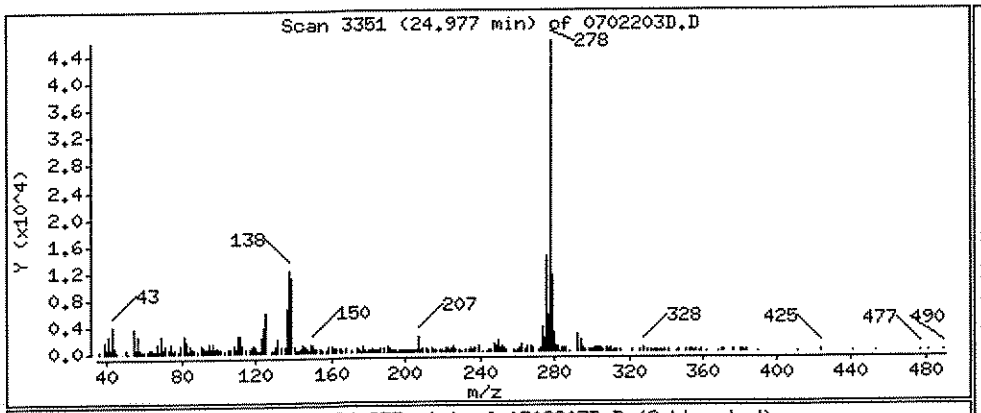
Client ID: 51CFM01S060706 Instrument: bna1.i

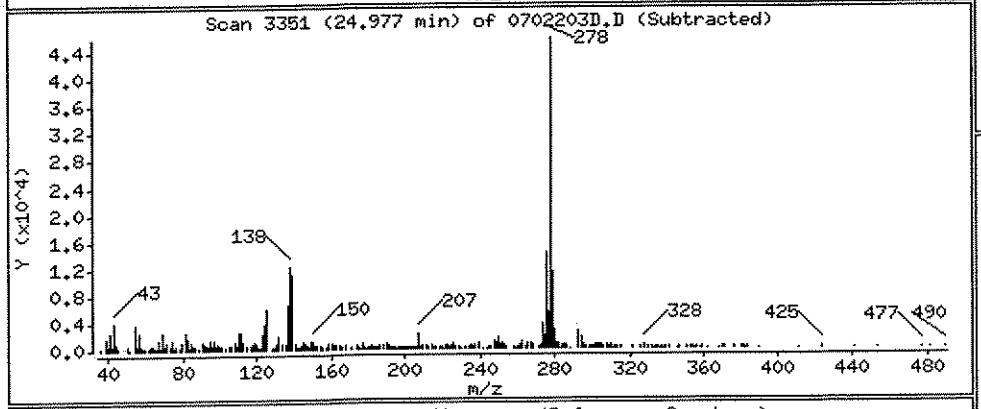
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

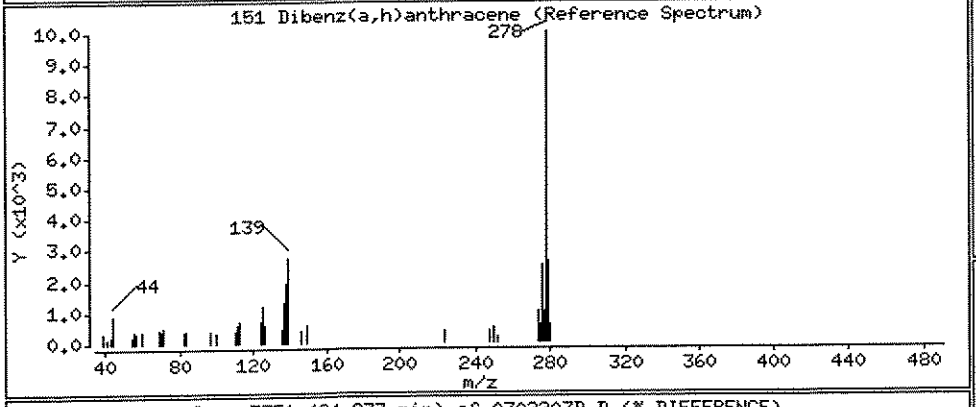
Volume Injected (uL): 0.5 Operator: SDB

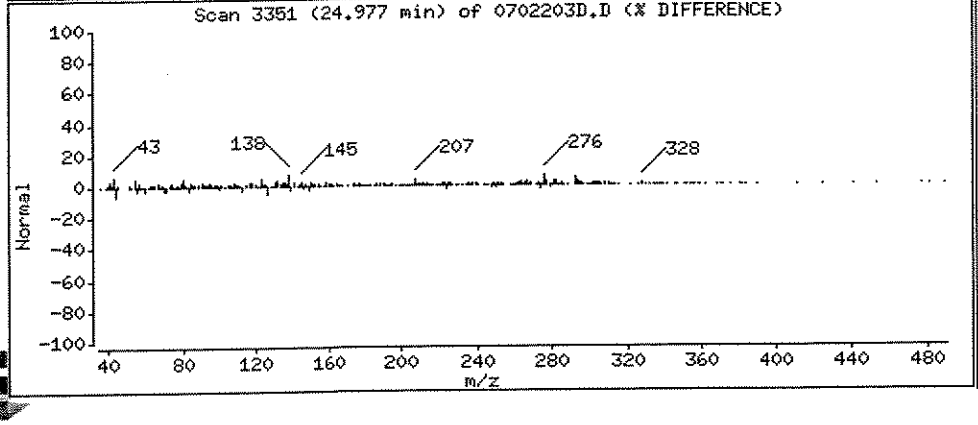
Column phase: fused silica Column diameter: 0.25

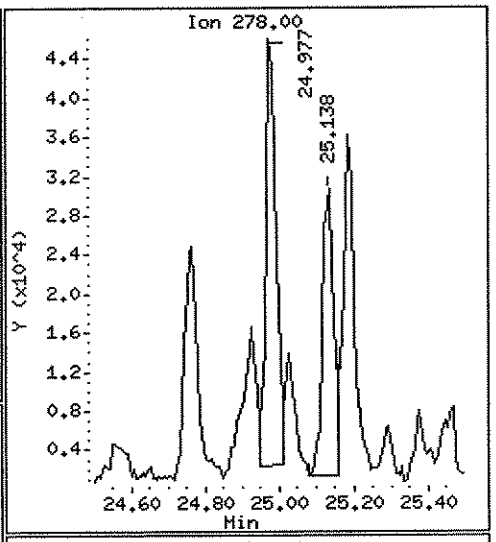
151 Dibenz(a,h)anthracene Concentration: 617.4 UG/KG

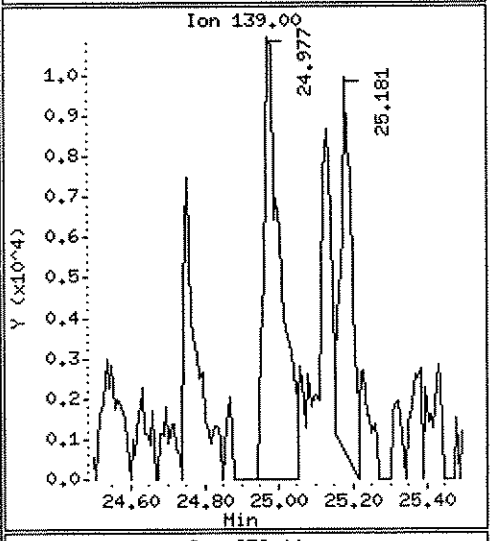


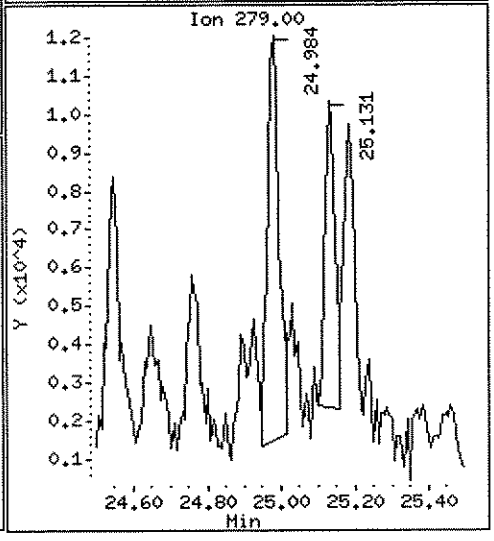












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702203D.D

Date : 11-JUL-2006 15:40

Client ID: 51CFM01S060706

Instrument: bna1.i

Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

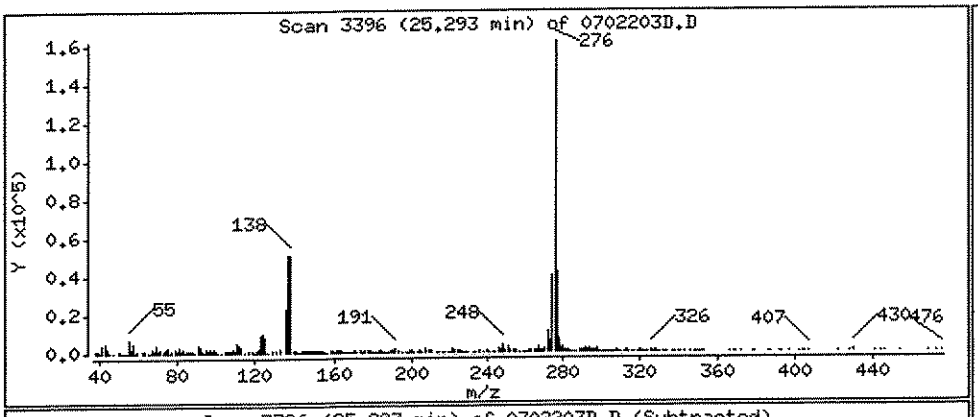
Operator: SDB

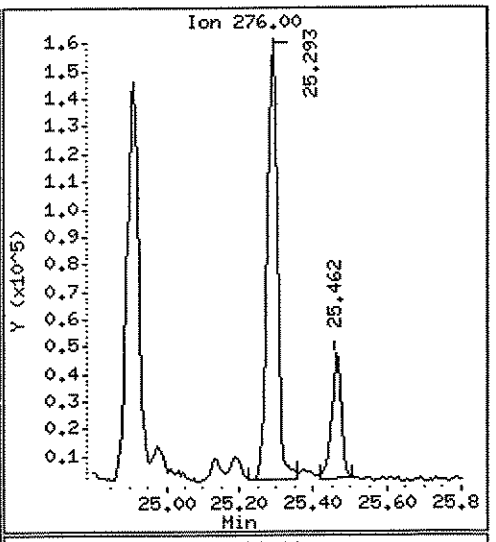
Column phase: fused silica

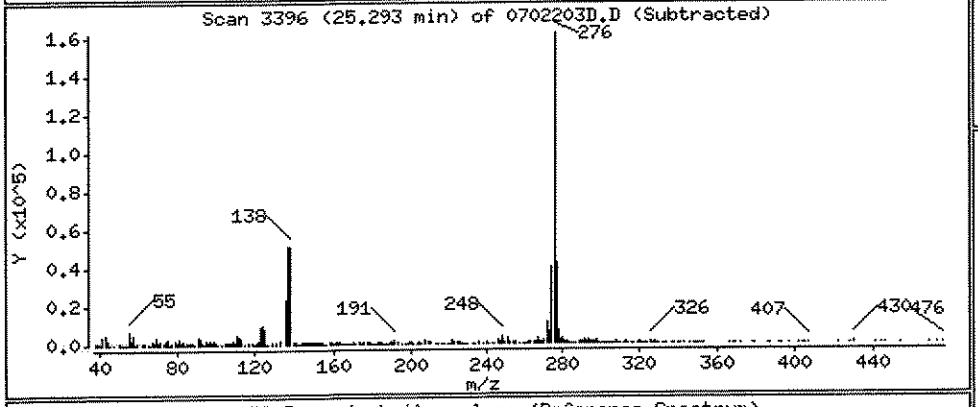
Column diameter: 0.25

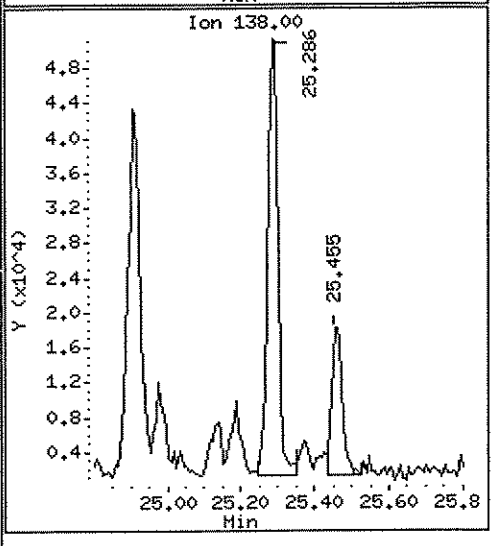
152 Benzo(g,h,i)perylene

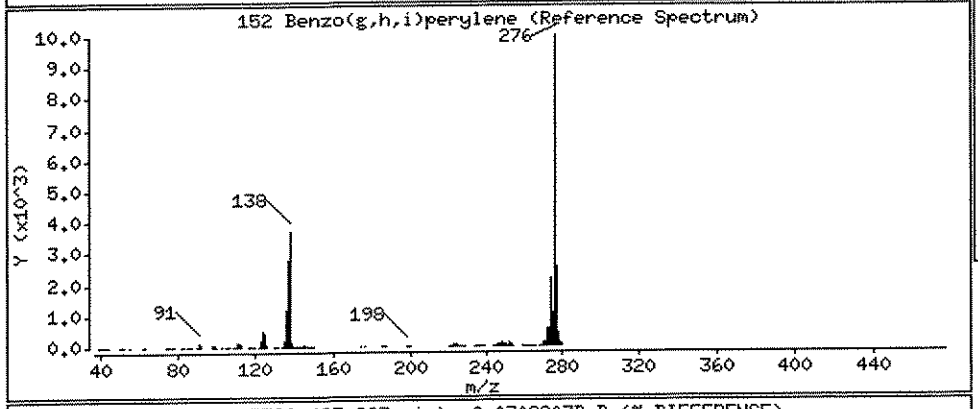
Concentration: 2183 UG/KG

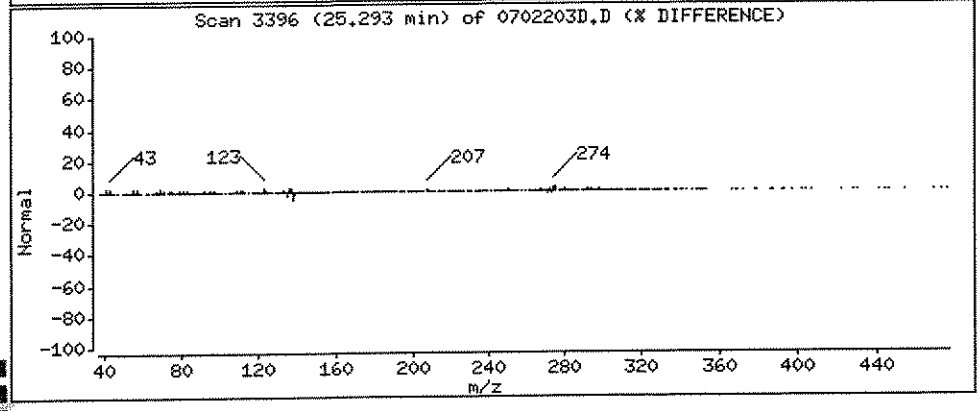












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 15:42

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	68	J
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	150	J
56-55-3	Benzo(a)anthracene	21	170	890	
205-99-2	Benzo(b)fluoranthene	21	170	1800	
207-08-9	Benzo(k)fluoranthene	21	170	870	
191-24-2	Benzo(g,h,i)perylene	21	170	610	
50-32-8	Benzo(a)pyrene	21	100	1500	
218-01-9	Chrysene	21	170	1300	
53-70-3	Dibenz(a,h)anthracene	21	100	160	
206-44-0	Fluoranthene	21	170	1600	
86-73-7	Fluorene	21	170	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	740	
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	1000	
129-00-0	Pyrene	21	170	2000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Lab Smp Id: 0607022-04 Client Smp ID: 51CFM02S060706
Inj Date : 10-JUL-2006 15:42
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.000	Percent Solids

7/11/06

7/11/6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.273	4.276	(1.000)	362980	40.0000	
* 31 Naphthalene-d8	136	5.276	5.287	(1.000)	1244309	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.892)	926604	68.2169	2344
* 65 Acenaphthene-d10	164	7.707	7.719	(1.000)	563237	40.0000	
$ 70 2-Fluorobiphenyl	172	6.608	6.617	(0.857)	1199495	66.9213	2300
76 Acenaphthene	153	7.763	7.781	(1.007)	32389	1.99252	68.47(a)
84 Fluorene	166	8.797	8.814	(1.141)	41892	2.40954	82.80(a)
* 97 Phenanthrene-d10	188	11.007	11.020	(1.000)	711652	40.0000	
106 Phenanthrene	178	11.062	11.082	(1.005)	588668	29.0117	997.0
107 Anthracene	178	11.165	11.192	(1.014)	88370	4.41137	151.6(a)
110 Fluoranthene	202	14.290	14.296	(1.298)	928183	46.2044	1588
* 124 Chrysene-d12	240	18.426	18.441	(1.000)	374962	40.0000	
126 Pyrene	202	14.872	14.878	(0.807)	869720	58.0794	1996

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Report Date: 11-Jul-2006 13:57

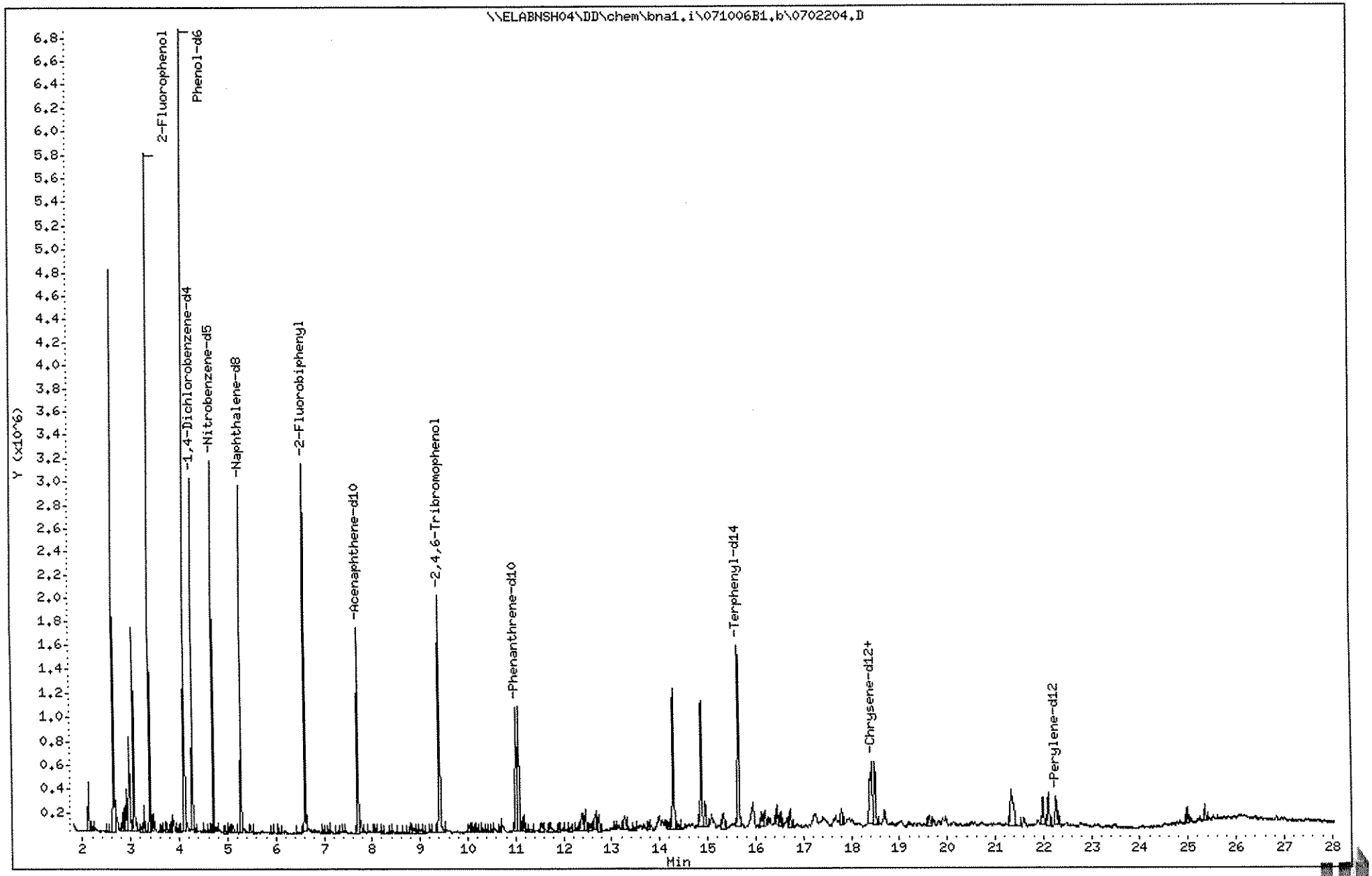
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.649	15.647	(0.849)	965427	101.964	3504(A)
130 Benzo(a)anthracene	228	18.384	18.400	(0.998)	314159	26.0037	893.6
131 Chrysene	228	18.496	18.510	(1.004)	408440	37.0149	1272
* 145 Perylene-d12	264	22.263	22.273	(1.000)	195060	40.0000	
147 Benzo(b)fluoranthene	252	21.339	21.352	(0.959)	316722	52.7106	1811(M)
148 Benzo(k)fluoranthene	252	21.388	21.421	(0.961)	158604	25.4416	874.3(M)
149 Benzo(a)pyrene	252	22.103	22.121	(0.993)	229976	44.3856	1525
150 Indeno(1,2,3-cd)pyrene	276	24.980	24.990	(1.122)	95064	21.5047	739.0
151 Dibenz(a,h)anthracene	278	25.050	25.065	(1.125)	21409	4.81065	165.3(a)
152 Benzo(g,h,i)perylene	276	25.351	25.361	(1.139)	81523	17.7708	610.7

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D
Date : 10-JUL-2006 15:42
Client ID: 51CFM02S060706
Instrument: bna1.i
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000074



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

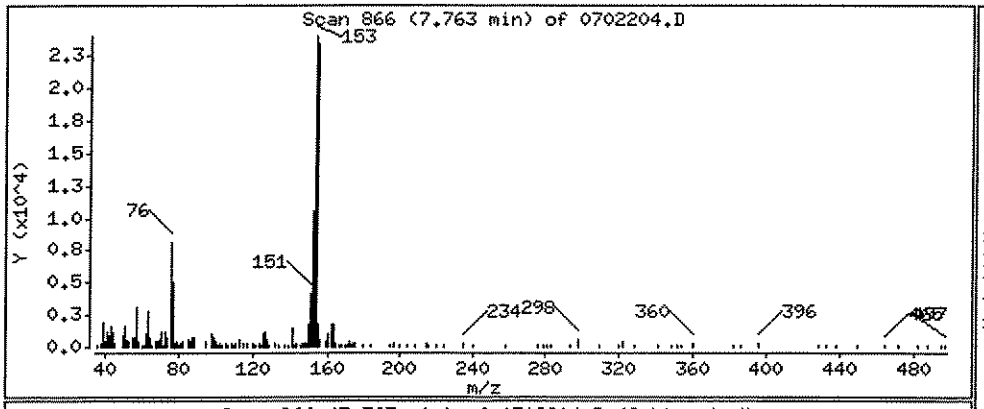
Client ID: 51CFM02S060706 Instrument: bna1.i

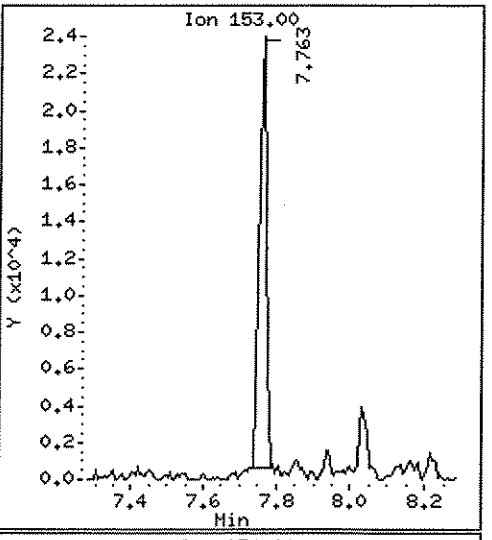
Sample Info: 0607022-04:15.0:500:1:UG/KG:10-JUL-2006

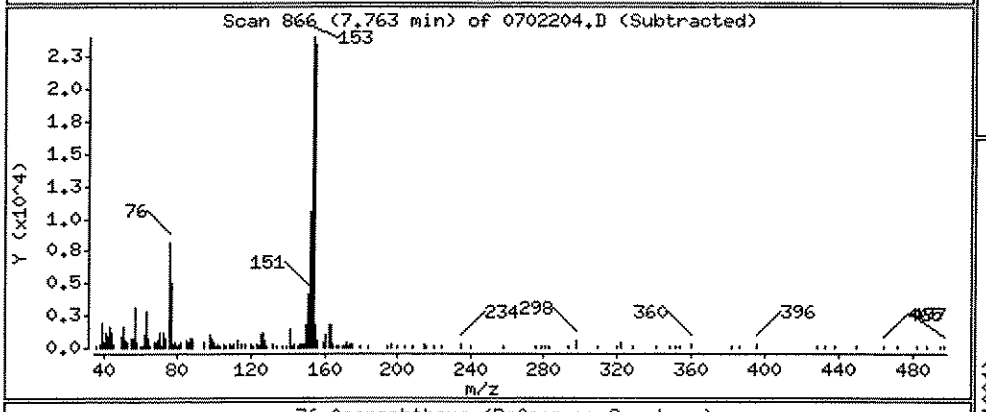
Volume Injected (uL): 0.5 Operator: SDB

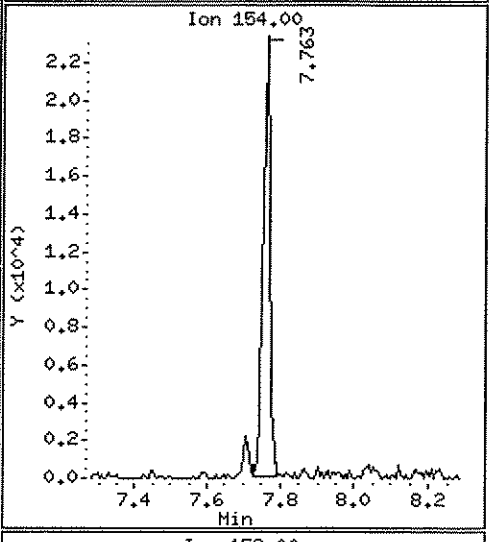
Column phase: fused silica Column diameter: 0.25

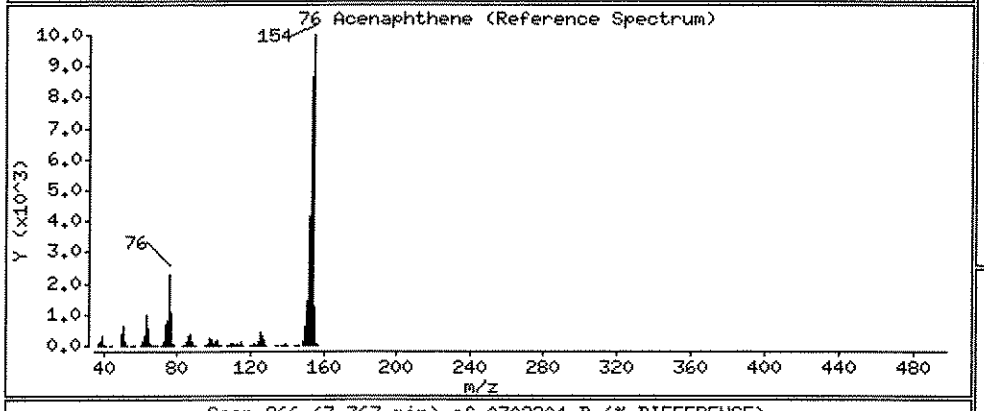
76 Acenaphthene Concentration: 68.47 UG/KG

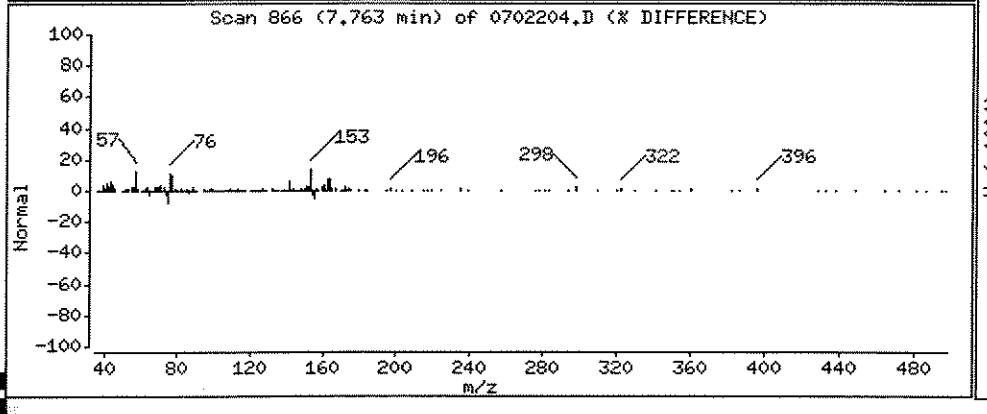


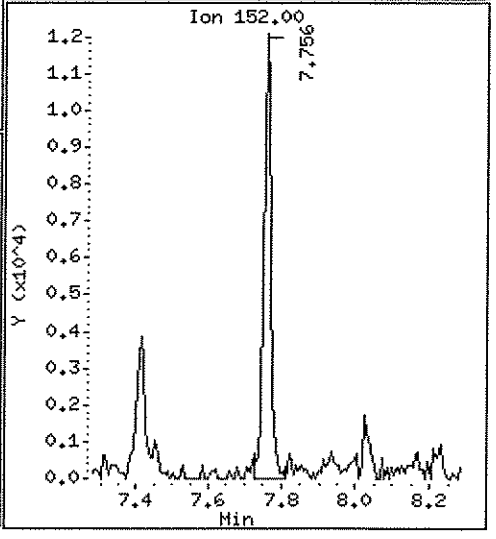












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

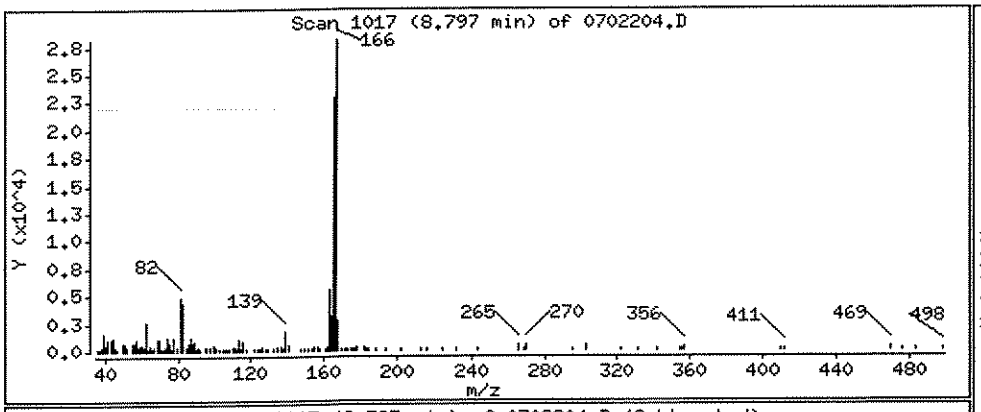
Client ID: 51CFM02S060706 Instrument: bna1.i

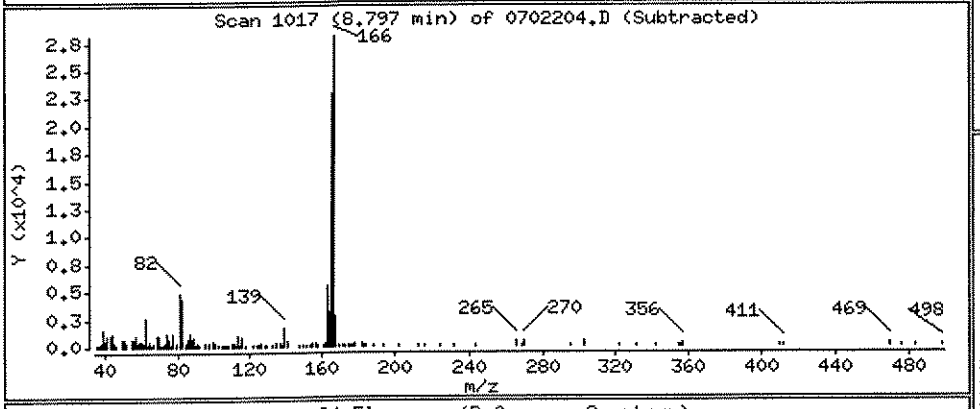
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

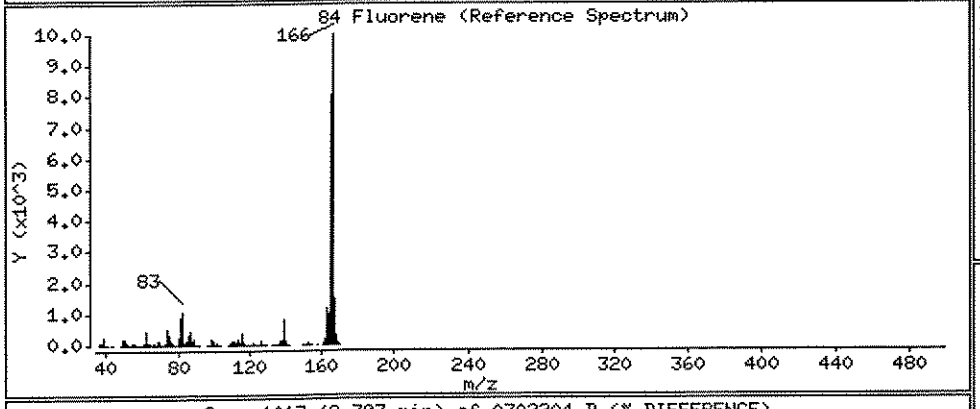
Volume Injected (uL): 0.5 Operator: SDB

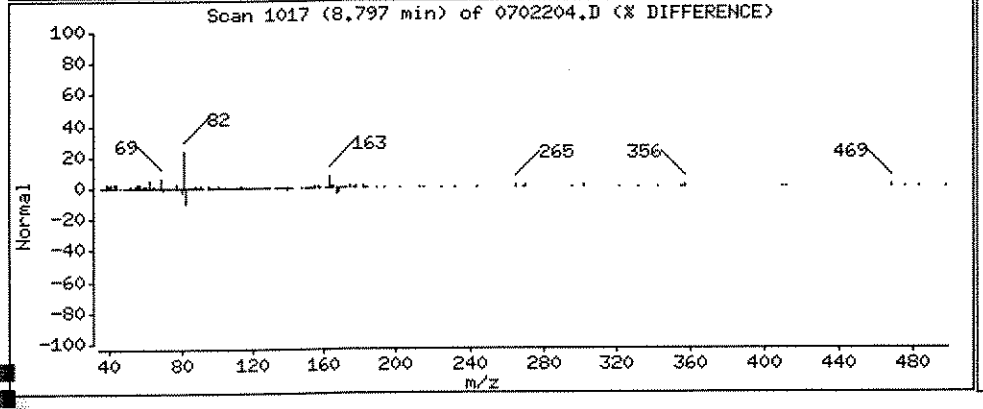
Column phase: fused silica Column diameter: 0.25

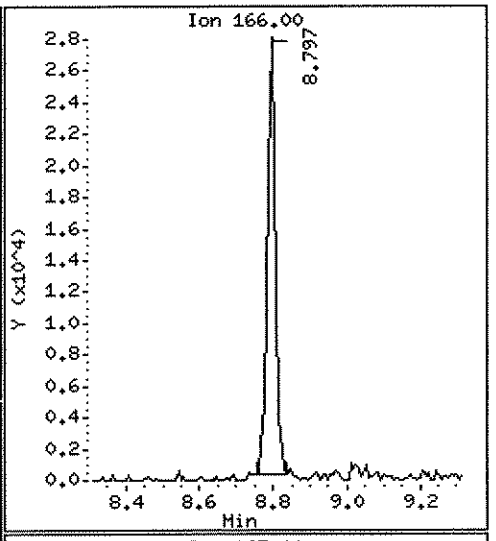
84 Fluorene Concentration: 82.80 UG/KG

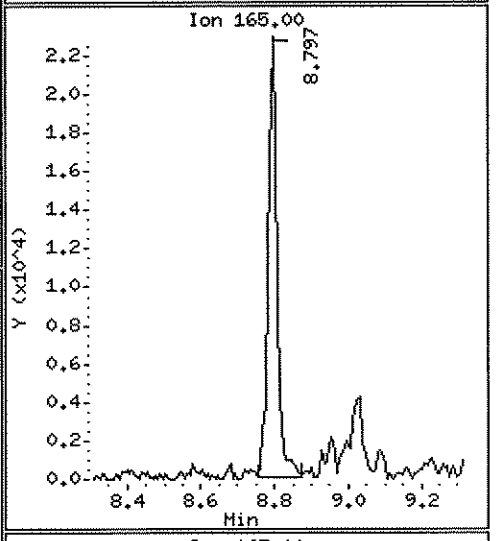


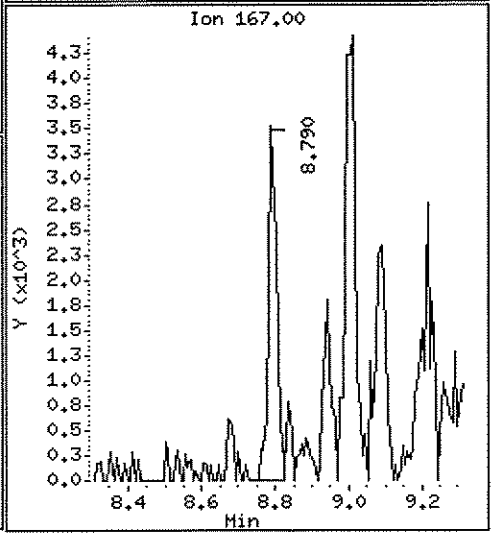












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

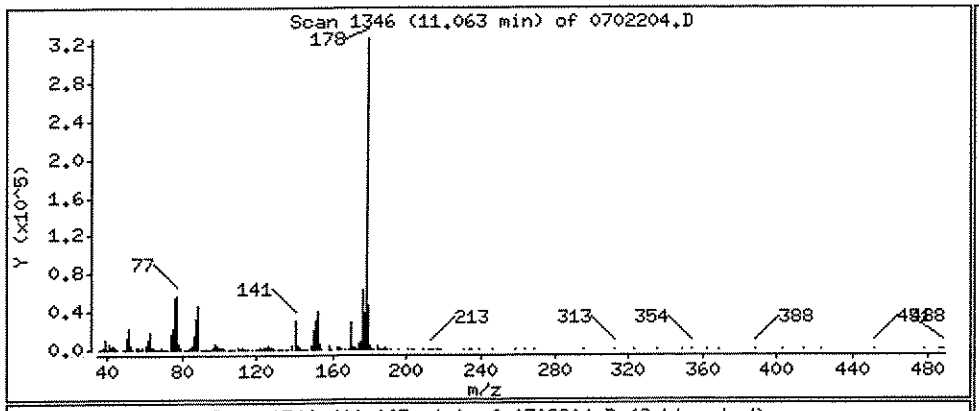
Client ID: 51CFM02S060706 Instrument: bna1.i

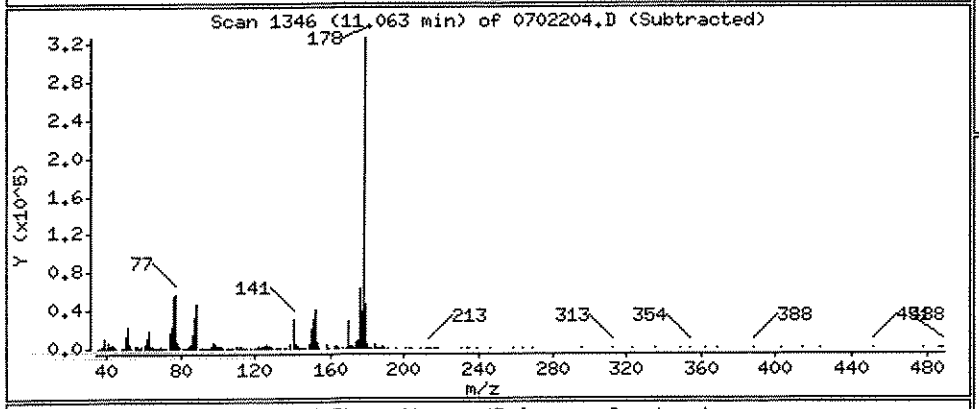
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

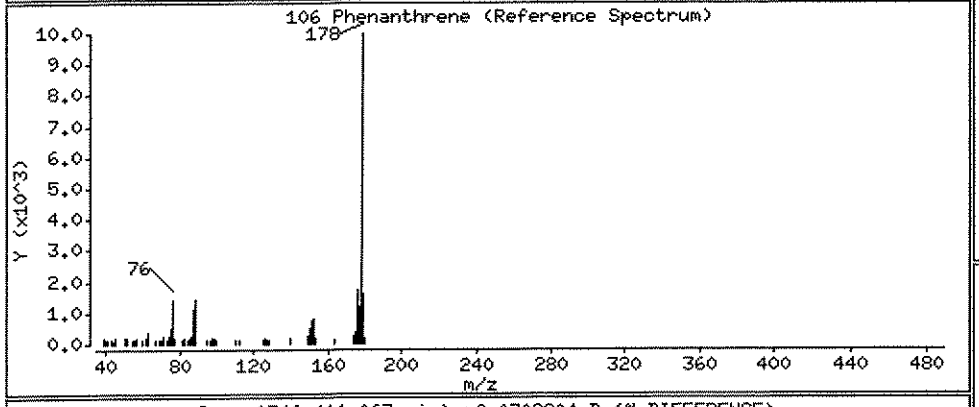
Volume Injected (uL): 0.5 Operator: SDB

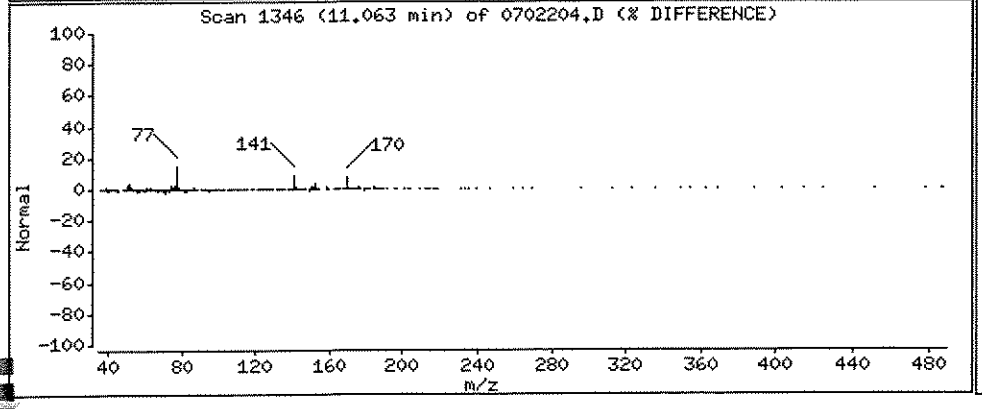
Column phase: fused silica Column diameter: 0.25

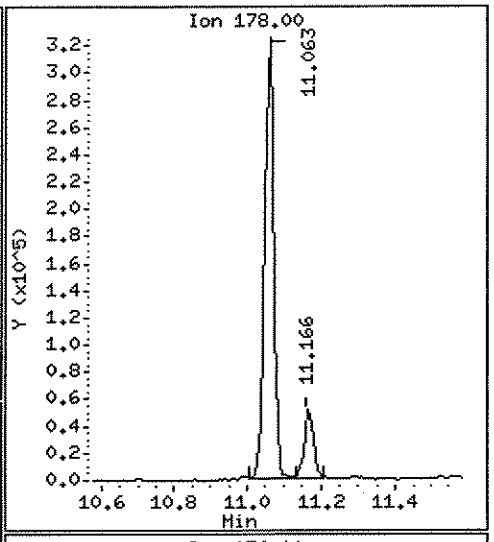
106 Phenanthrene Concentration: 997.0 UG/KG

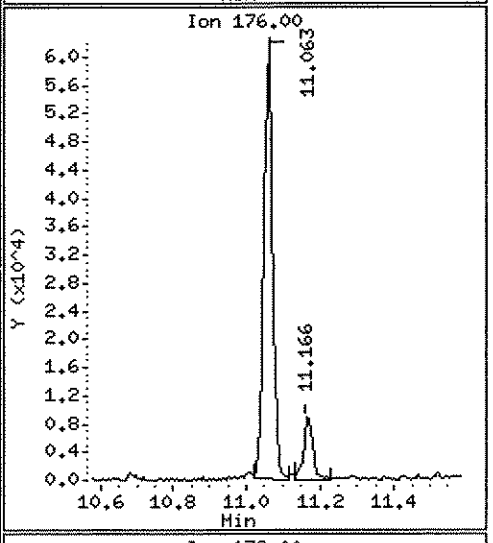


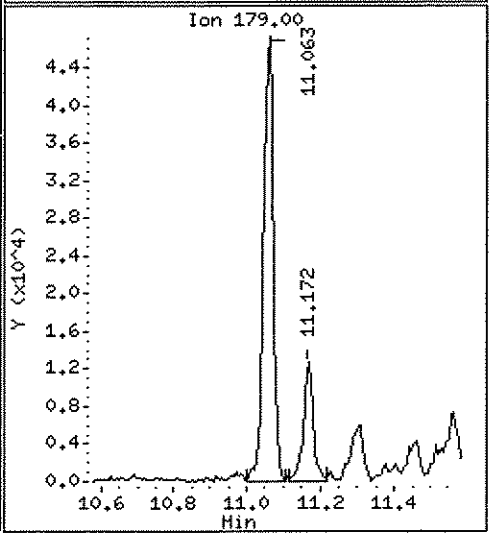












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

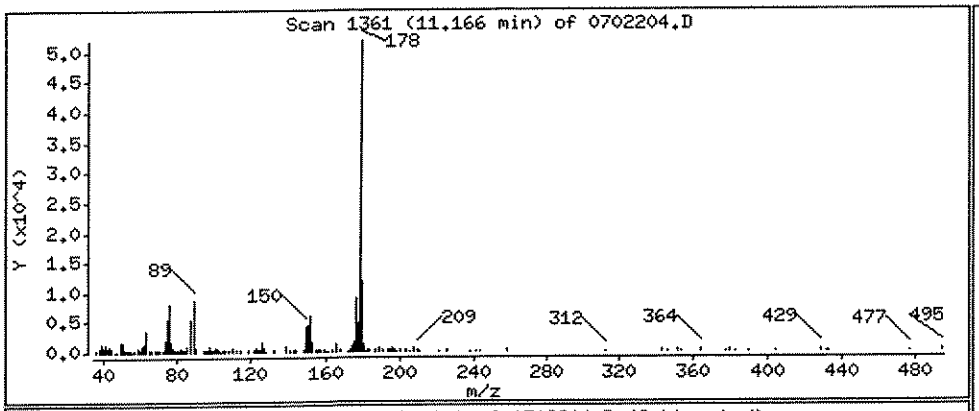
Client ID: 51CFM02S060706 Instrument: bna1.i

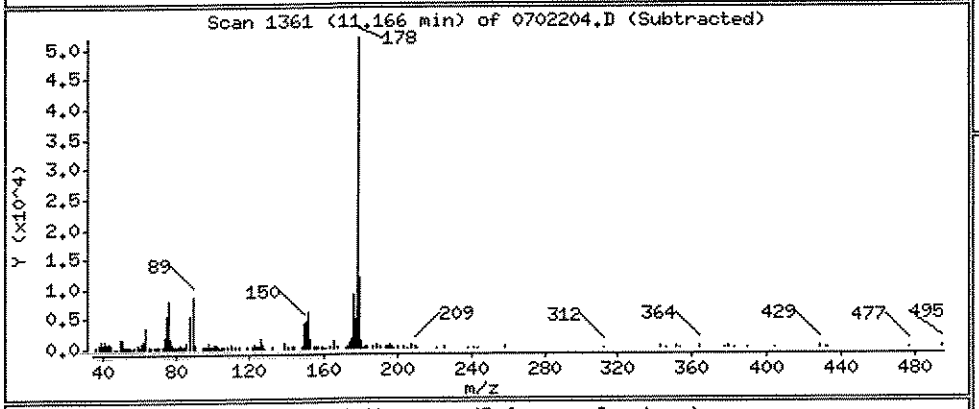
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

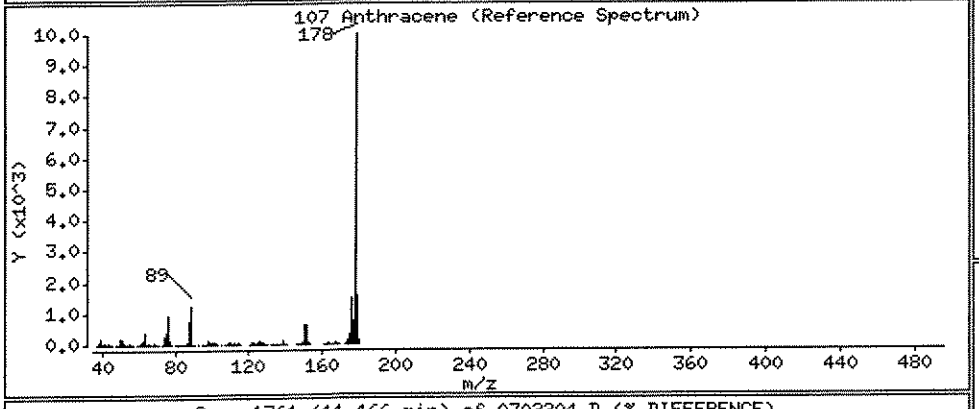
Volume Injected (uL): 0.5 Operator: SDB

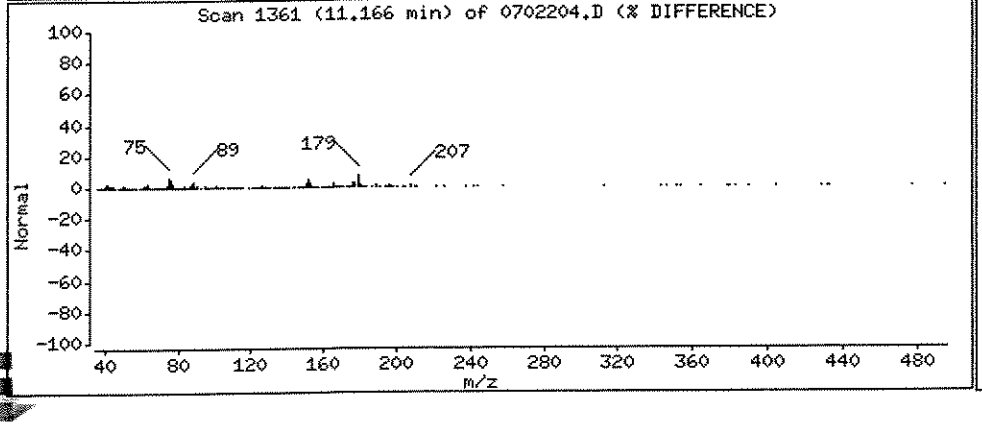
Column phase: fused silica Column diameter: 0.25

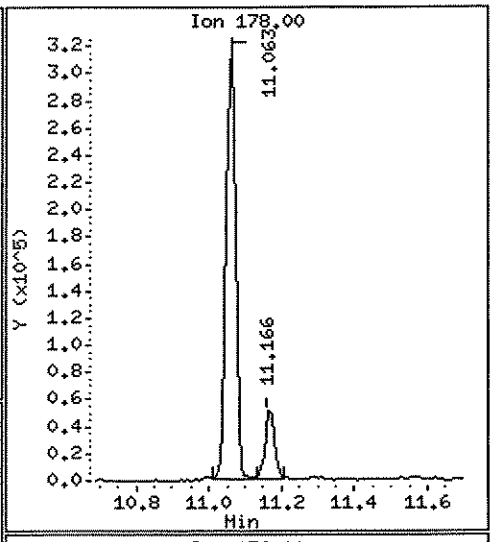
107 Anthracene Concentration: 151.6 UG/KG

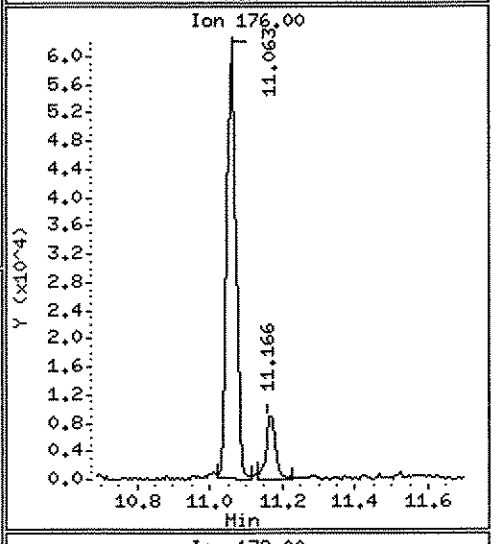


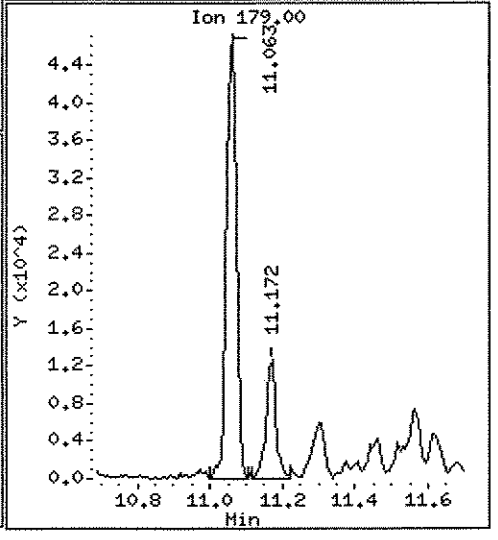












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

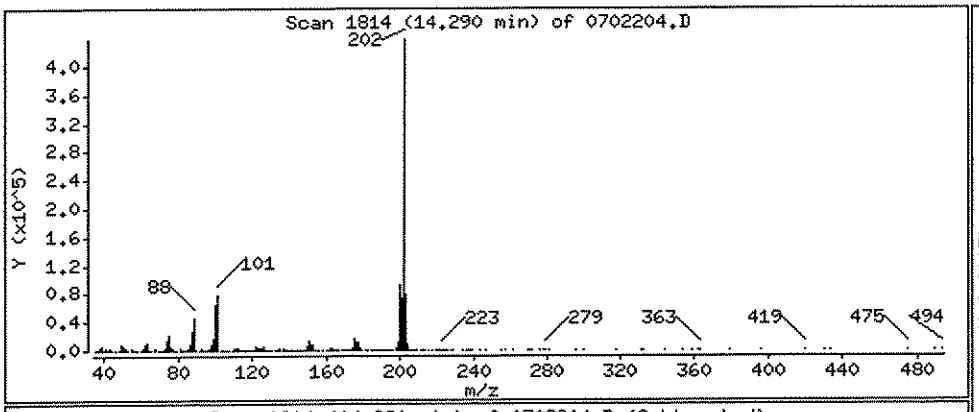
Client ID: 51CFM02S060706 Instrument: bna1.i

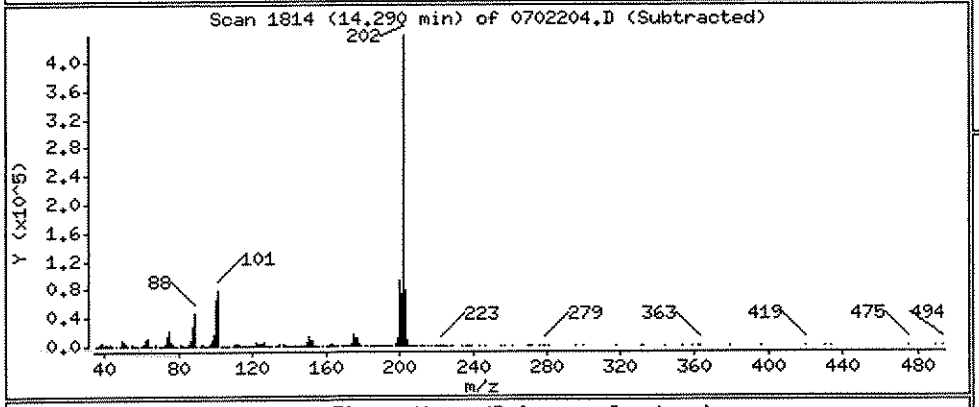
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

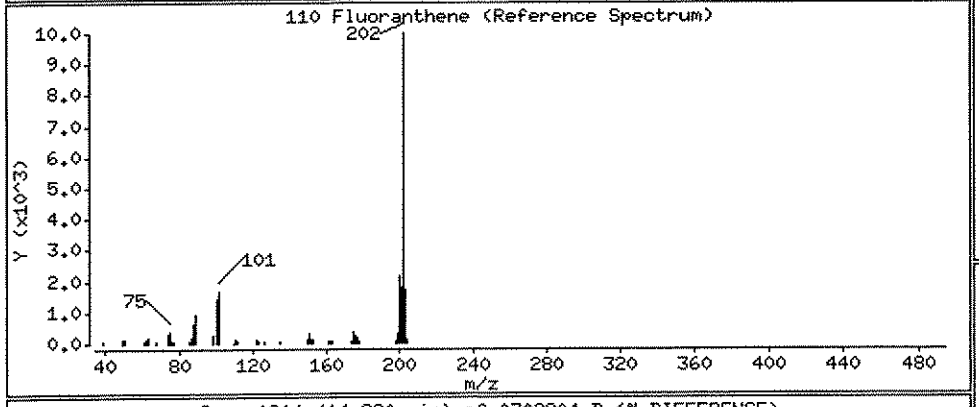
Volume Injected (uL): 0.5 Operator: SDB

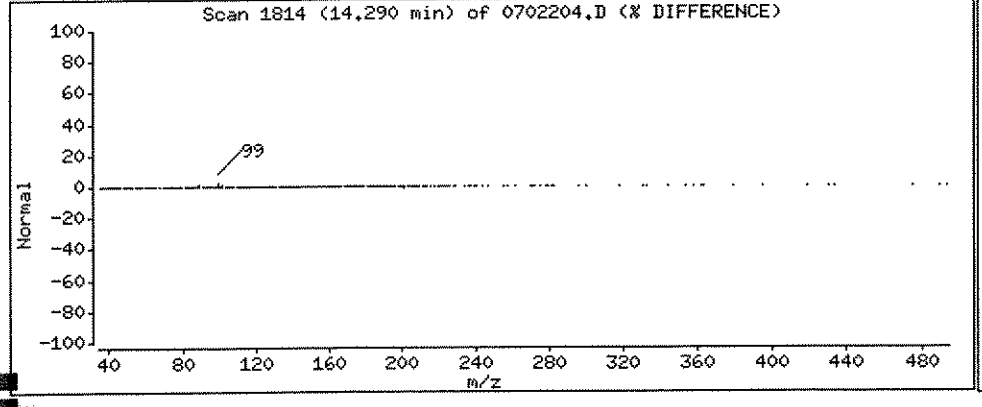
Column phase: fused silica Column diameter: 0.25

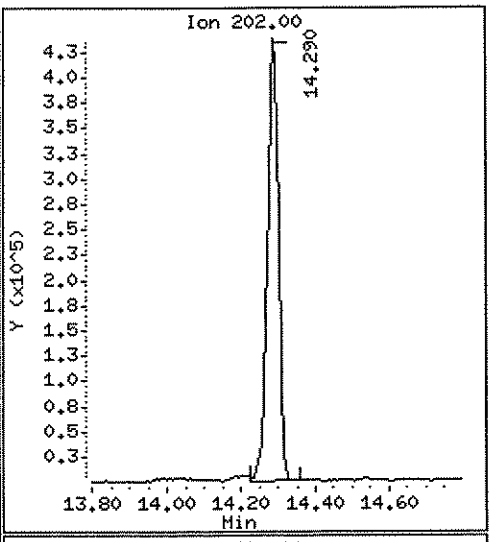
110 Fluoranthene Concentration: 1588 UG/KG

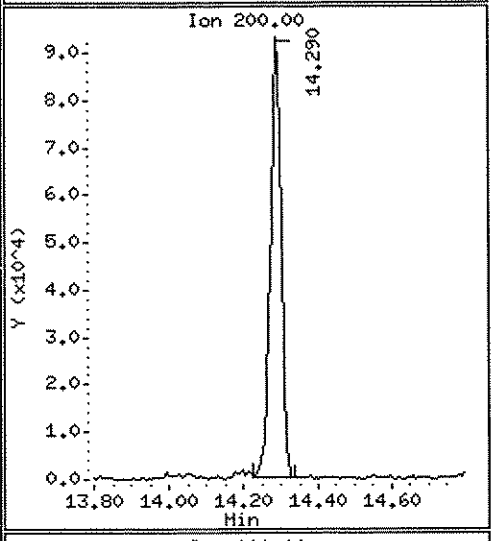


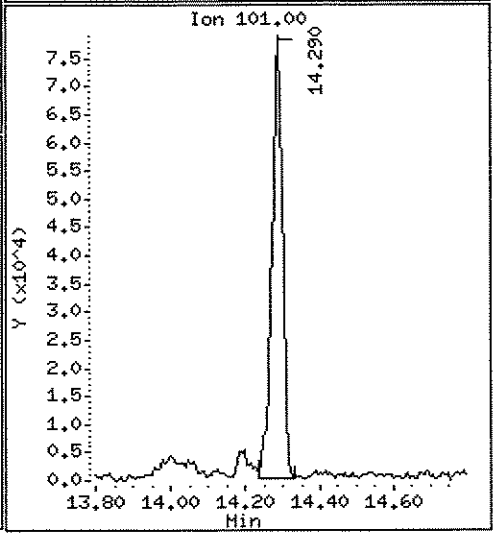












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

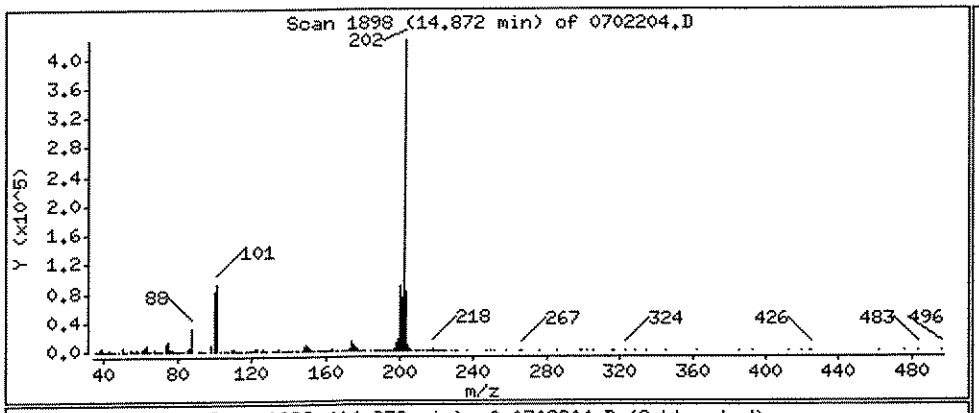
Client ID: 51CFM02S060706 Instrument: bna1.i

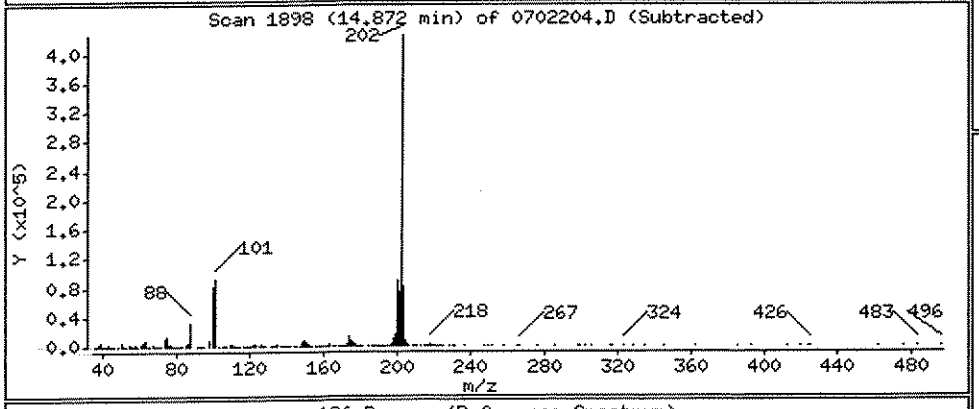
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

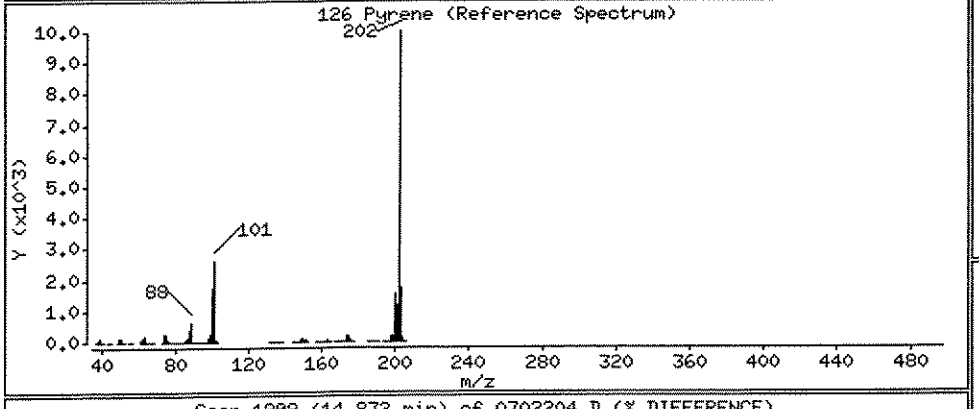
Volume Injected (uL): 0.5 Operator: SDB

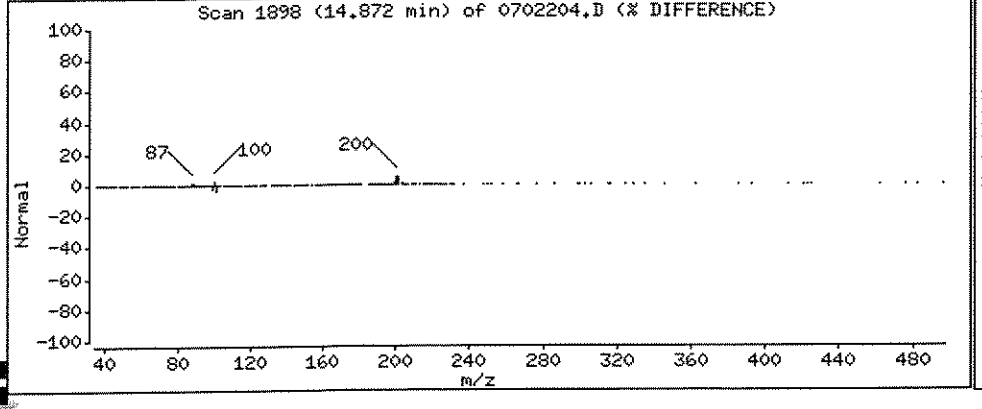
Column phase: fused silica Column diameter: 0.25

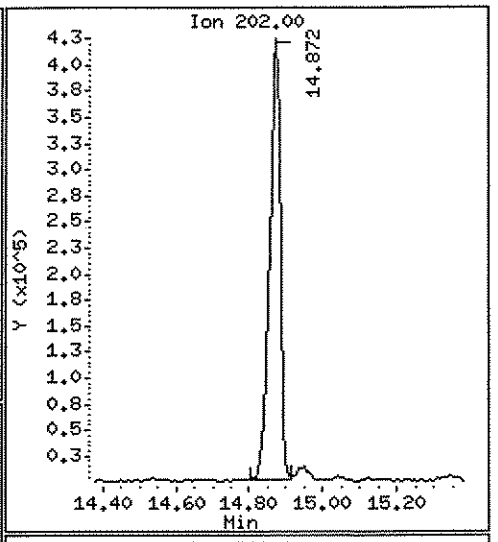
126 Pyrene Concentration: 1996 UG/KG

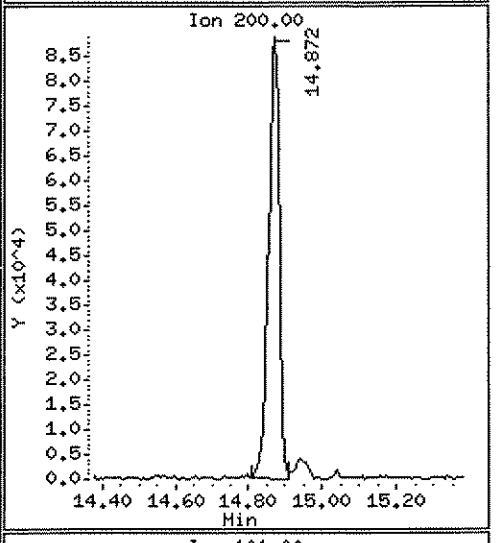


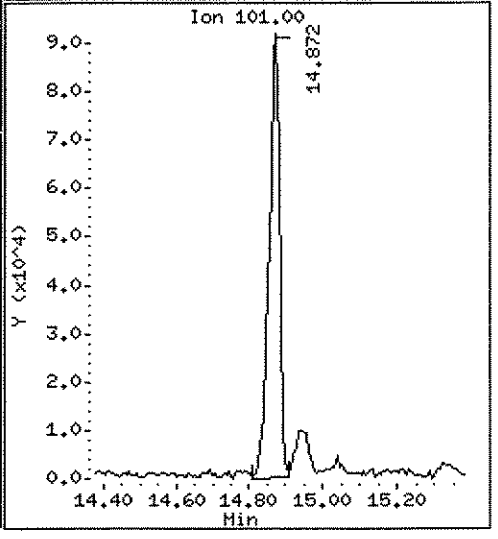












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

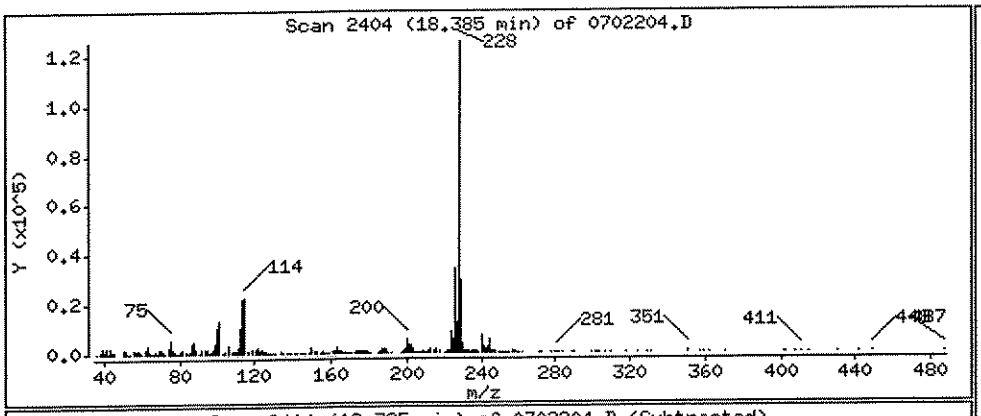
Operator: SDB

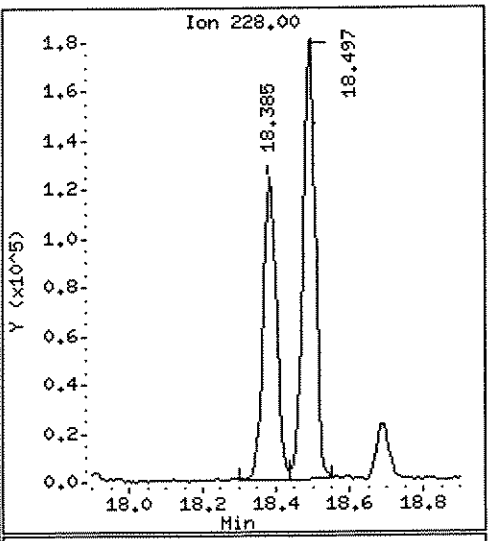
Column phase: fused silica

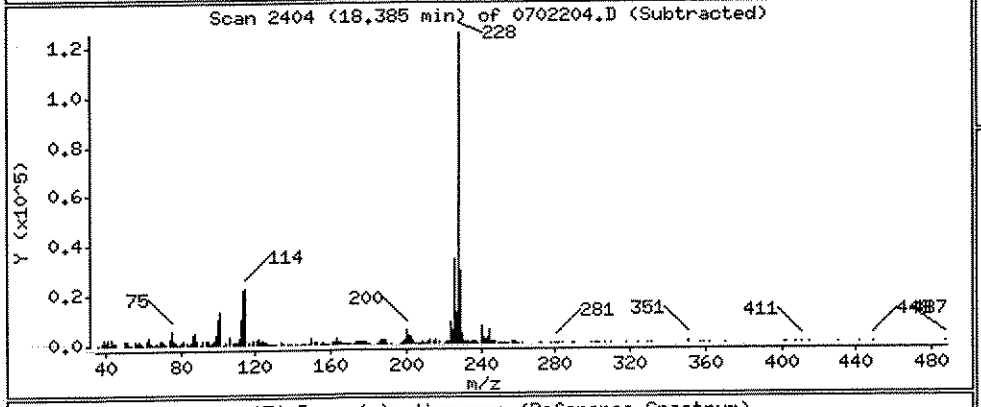
Column diameter: 0.25

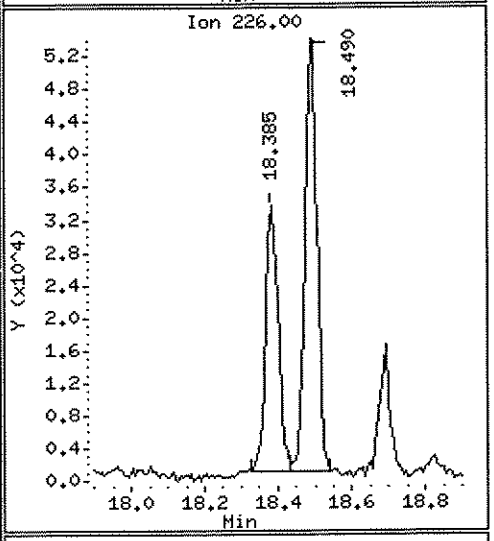
130 Benzo(a)anthracene

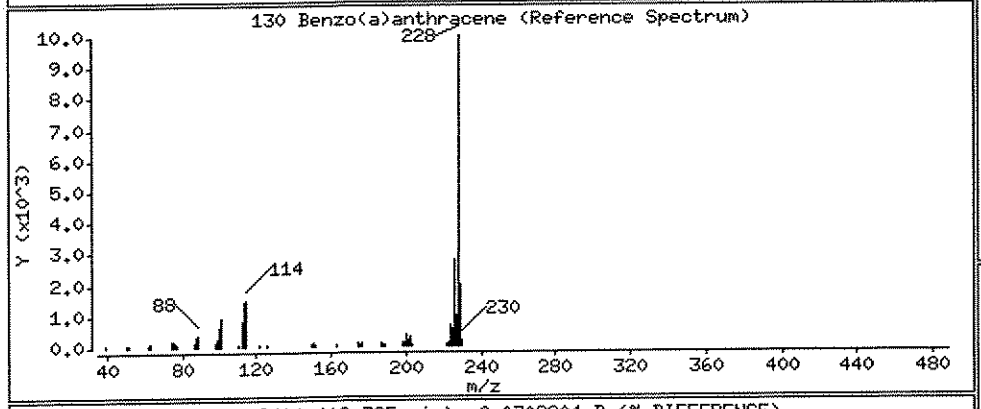
Concentration: 893.6 UG/KG

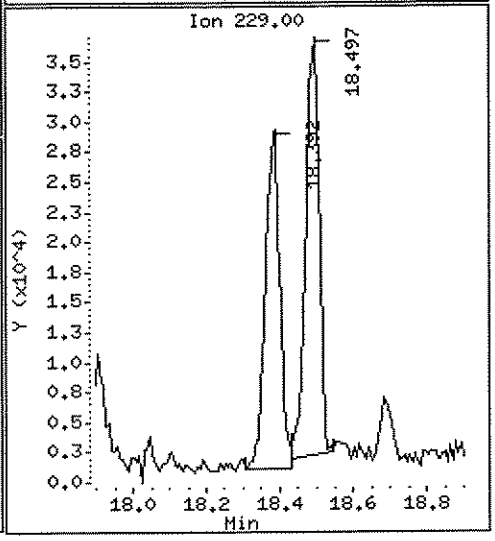


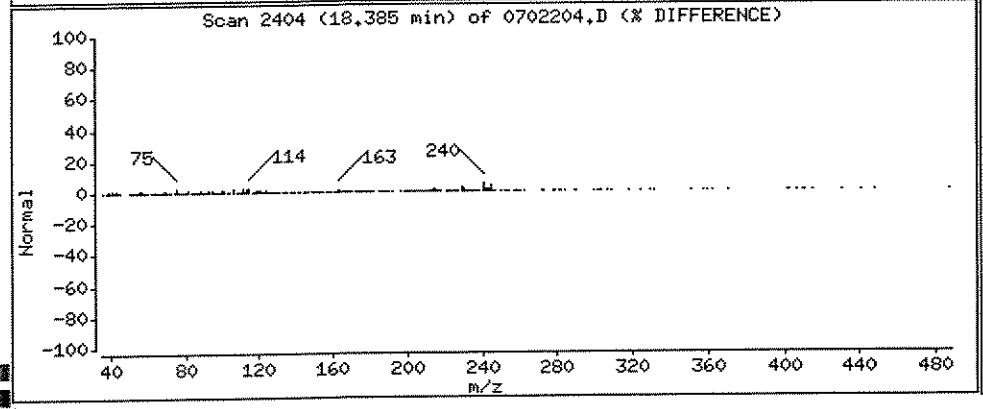












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

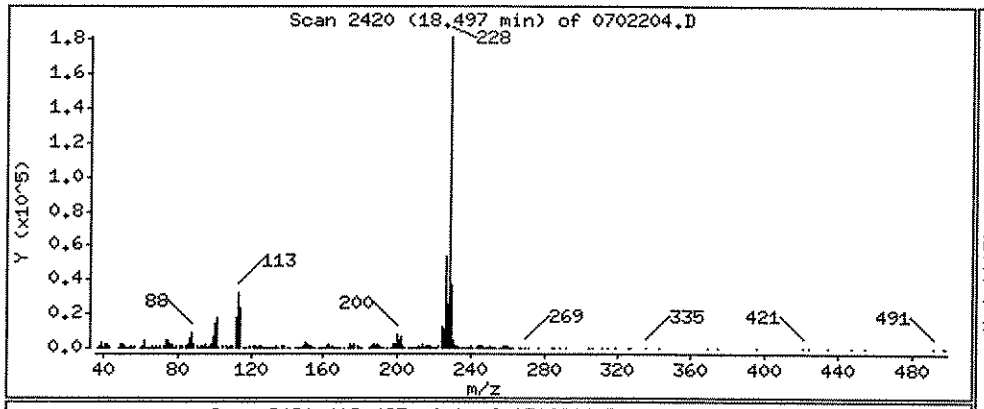
Client ID: 51CFM02S060706 Instrument: bna1.i

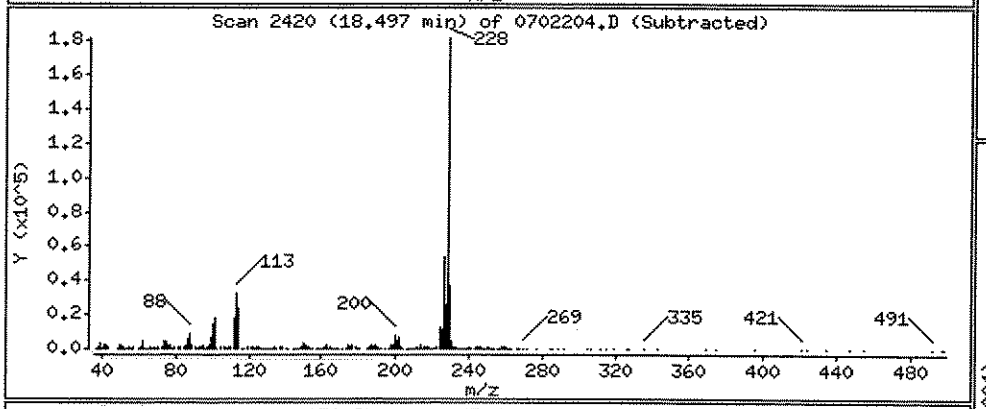
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

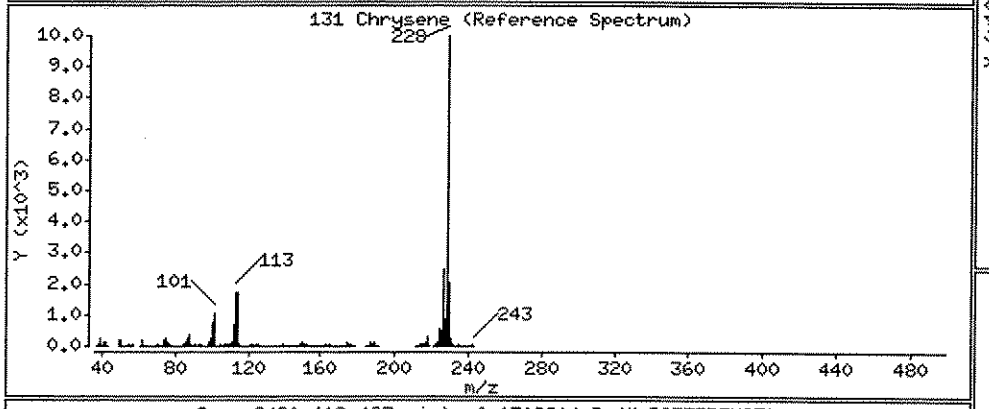
Volume Injected (uL): 0.5 Operator: SDB

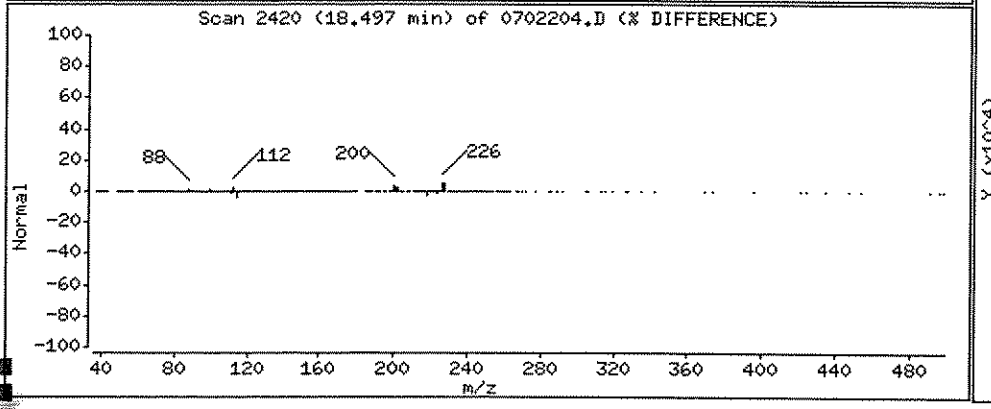
Column phase: fused silica Column diameter: 0.25

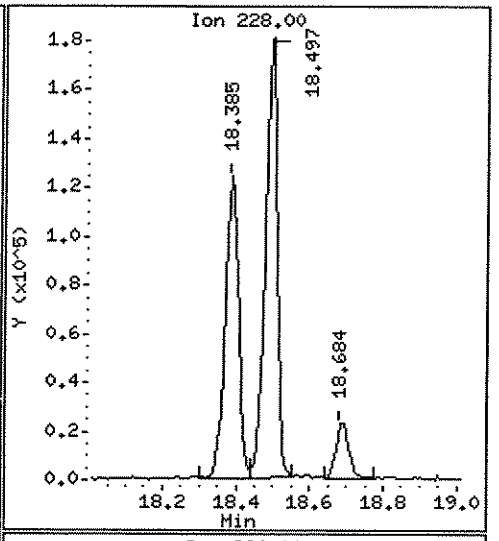
131 Chrysene Concentration: 1272 UG/KG

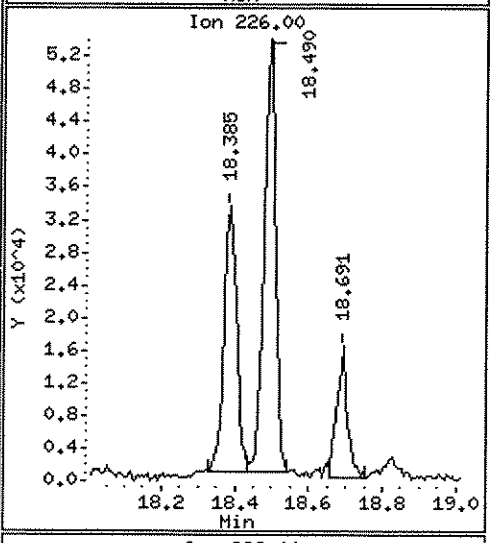


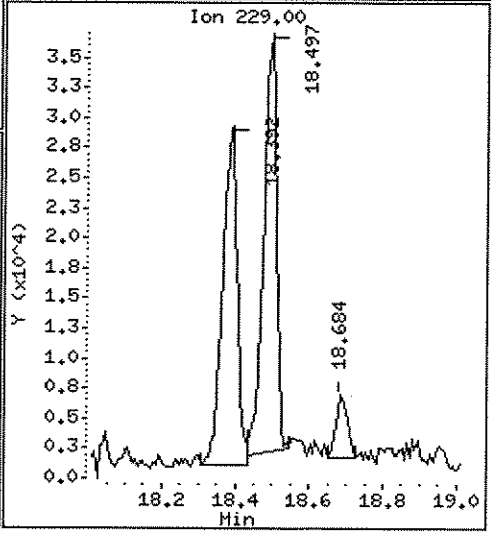












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000082

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

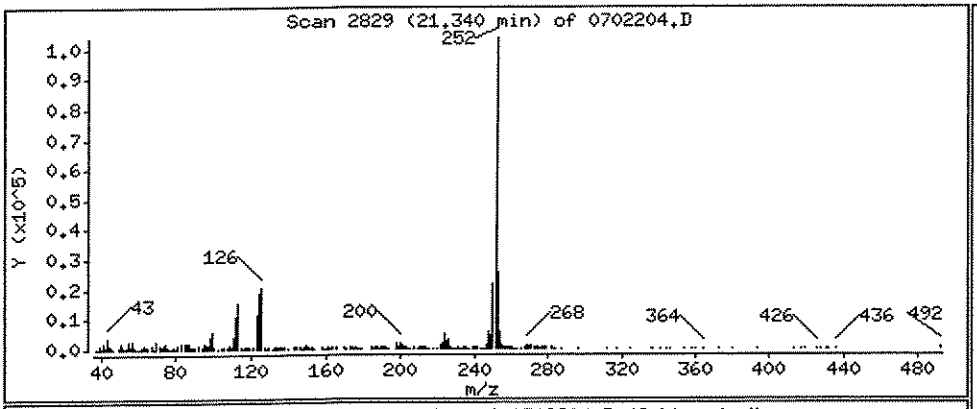
Client ID: 51CFM02S060706 Instrument: bna1.i

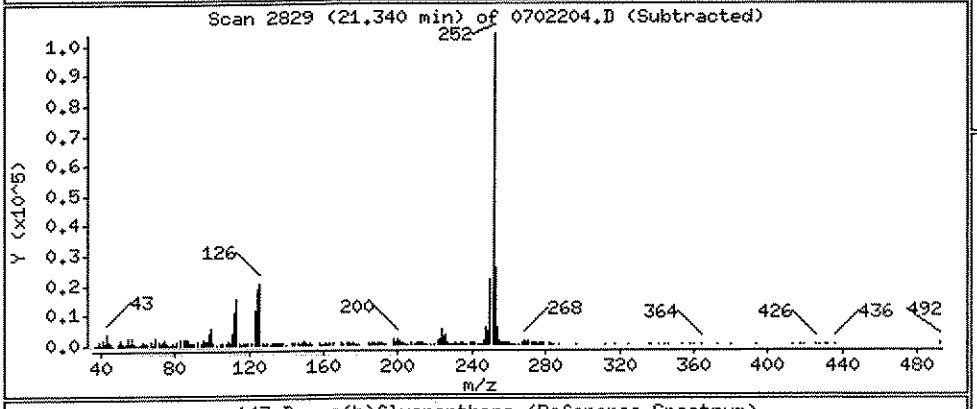
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

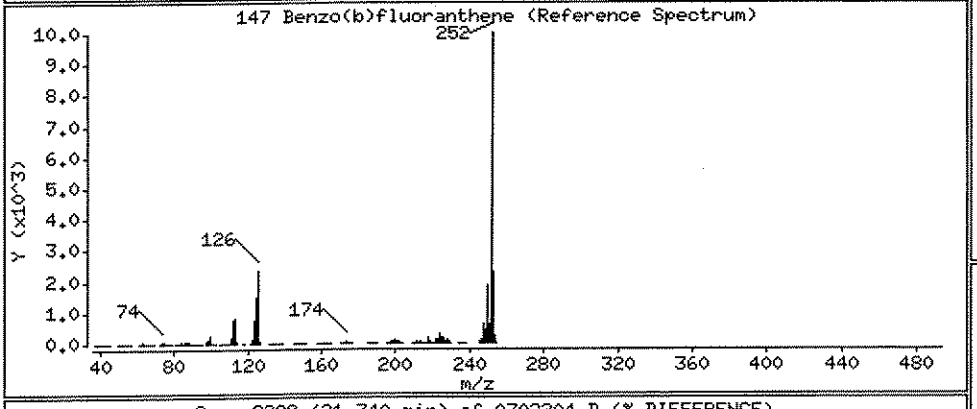
Volume Injected (uL): 0.5 Operator: SDB

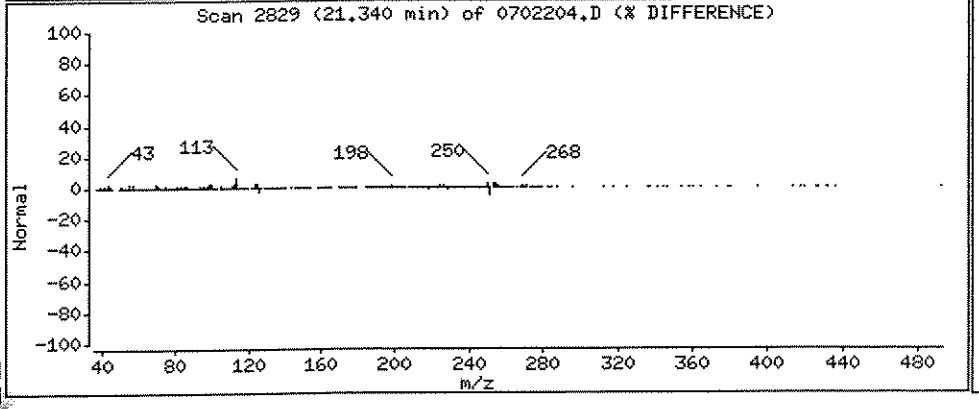
Column phase: fused silica Column diameter: 0.25

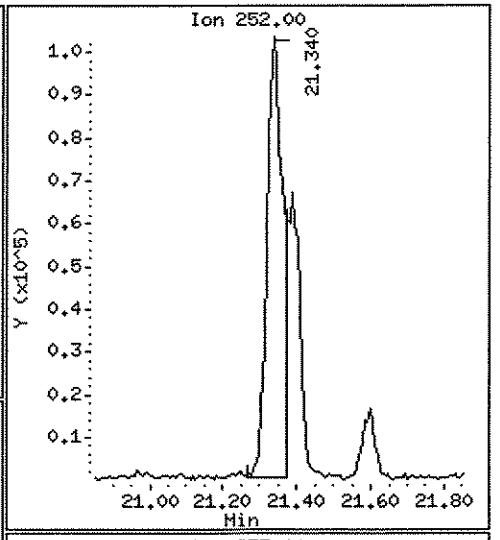
147 Benzo(b)fluoranthene Concentration: 1811 UG/KG

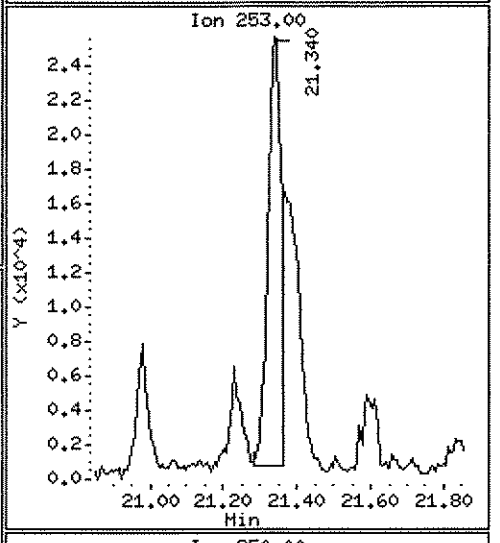


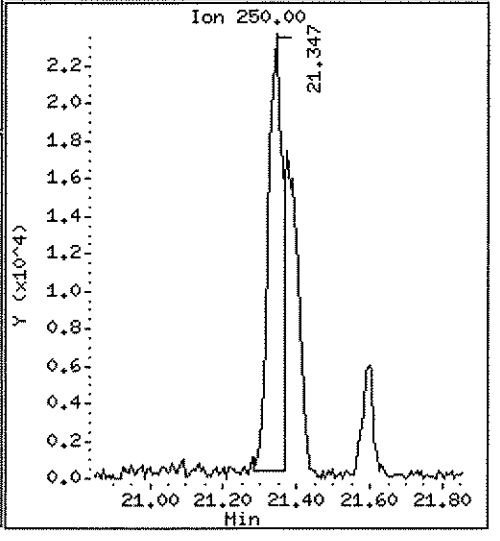












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Date : 10-JUL-2006 15:42

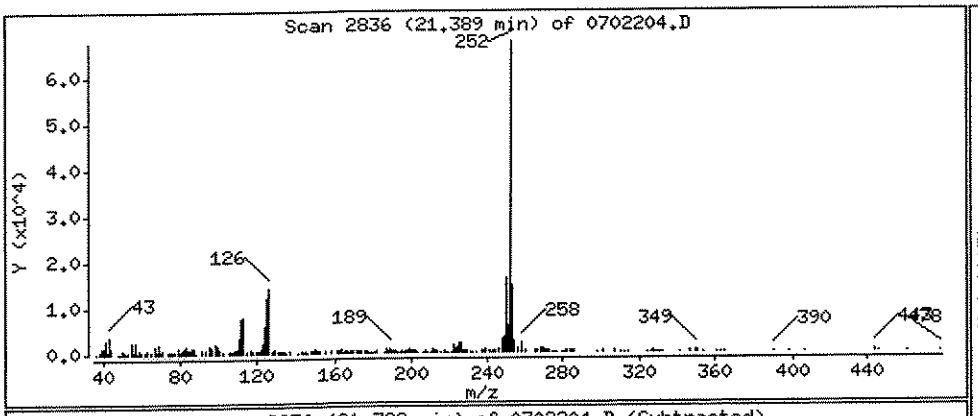
Client ID: 51CFM02S060706 Instrument: bna1.i

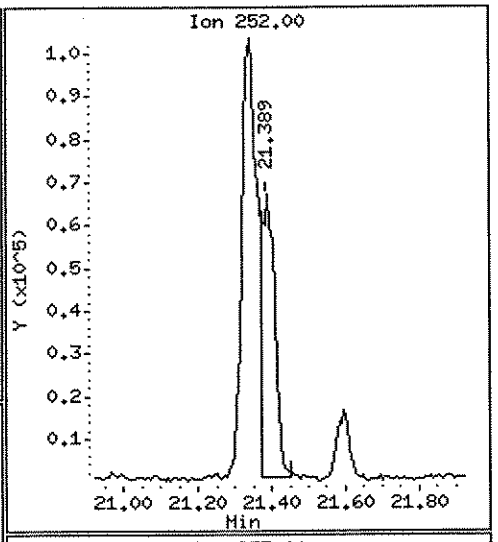
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

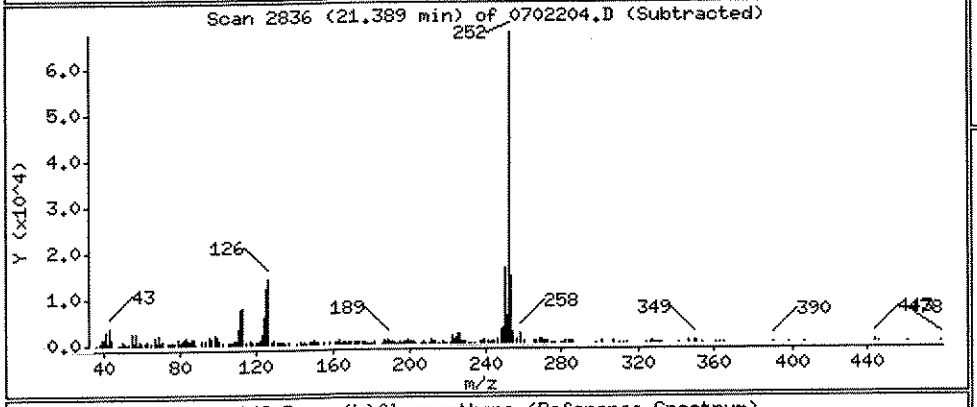
Volume Injected (uL): 0.5 Operator: SDB

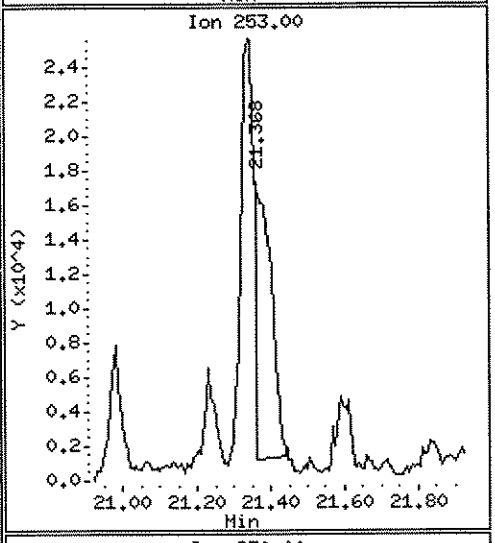
Column phase: fused silica Column diameter: 0.25

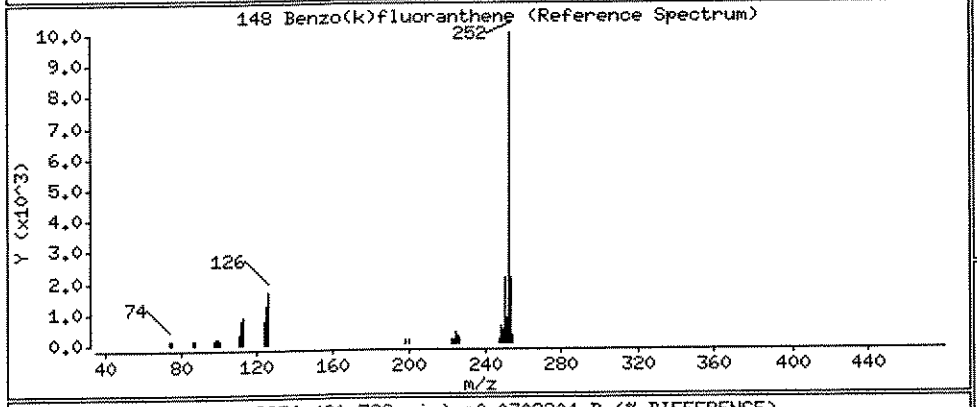
148 Benzo(k)fluoranthene Concentration: 874.3 UG/KG

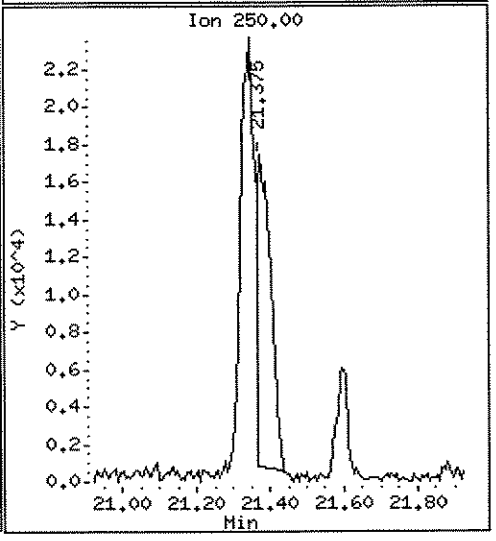


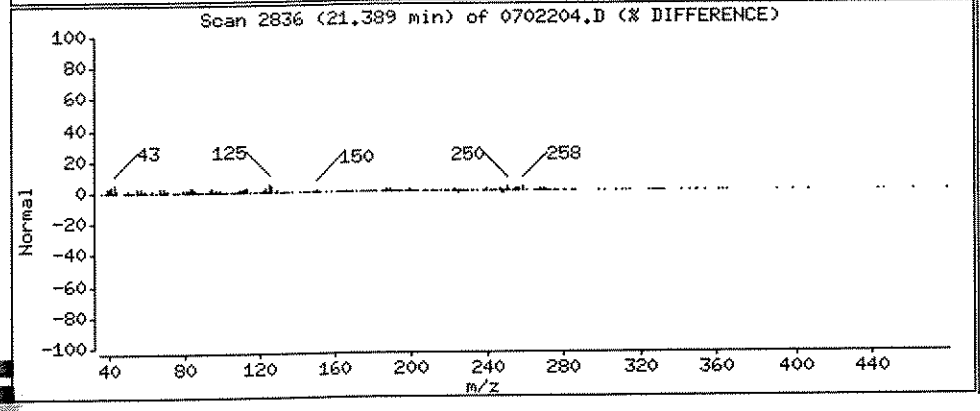












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

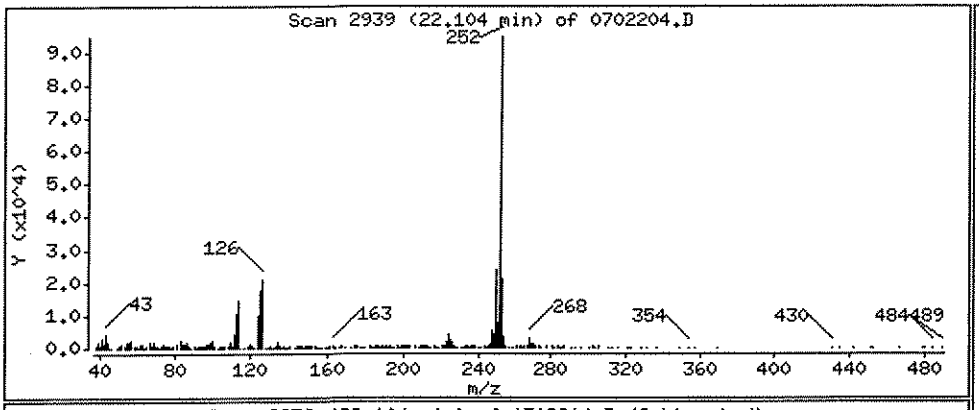
Client ID: 51CFH02S060706 Instrument: bna1.i

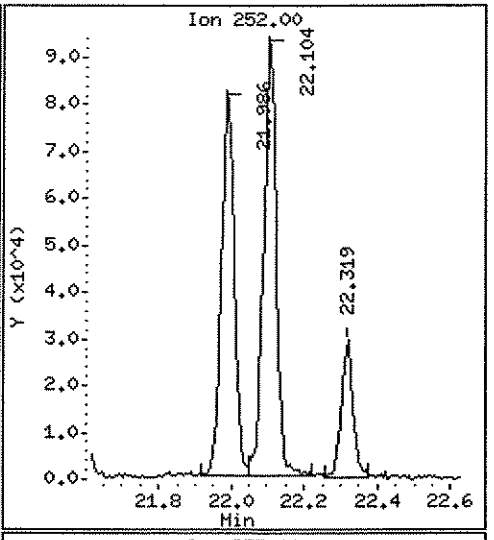
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

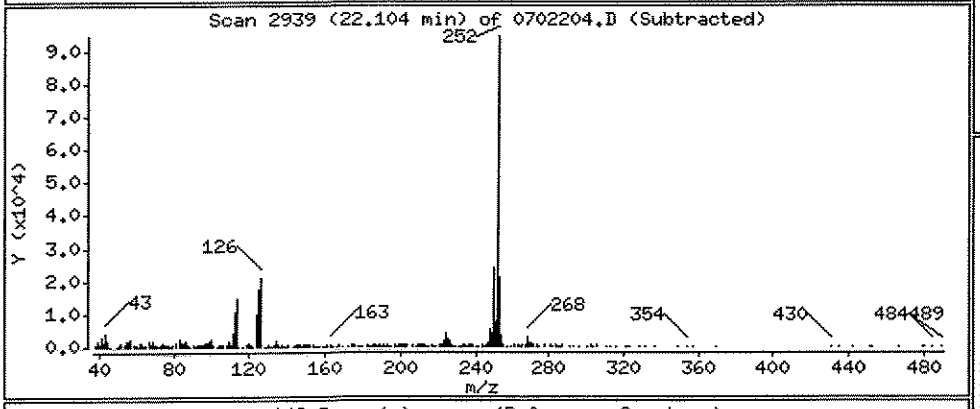
Volume Injected (uL): 0.5 Operator: SDB

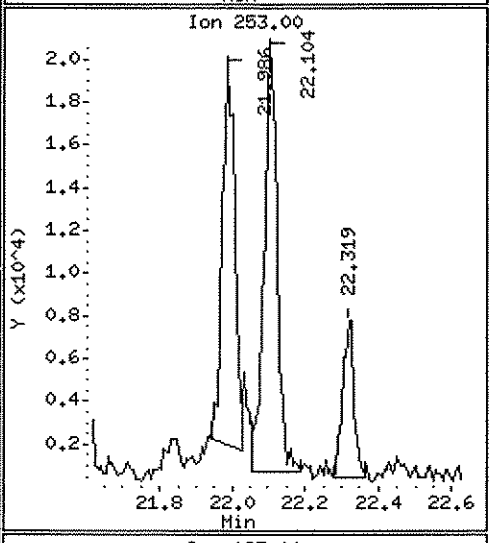
Column phase: fused silica Column diameter: 0.25

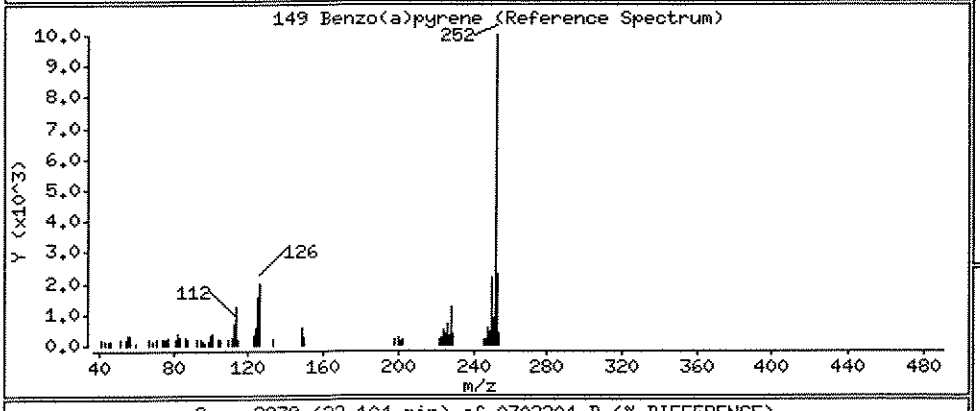
149 Benzo(a)pyrene Concentration: 1525 UG/KG

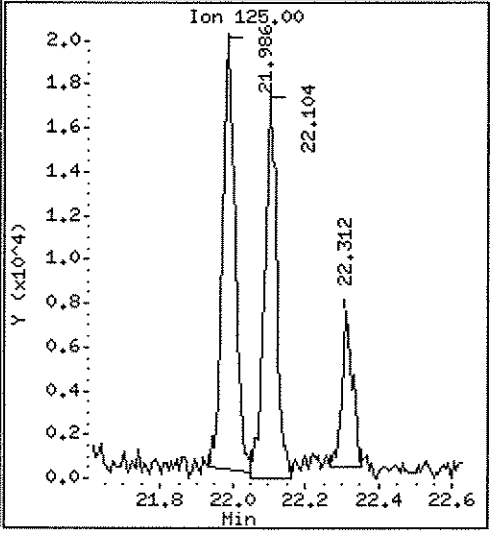


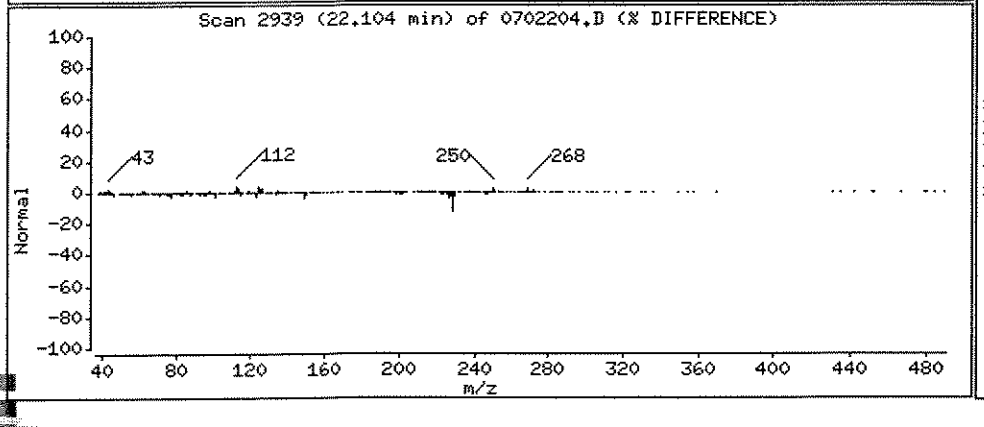












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

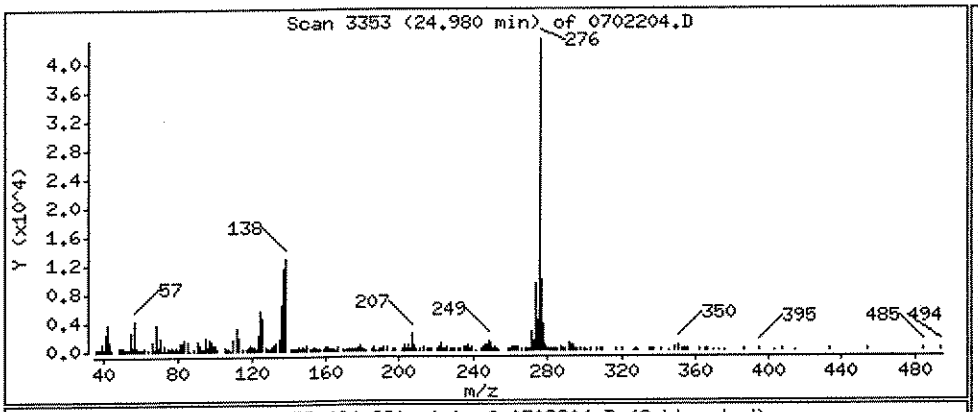
Operator: SDB

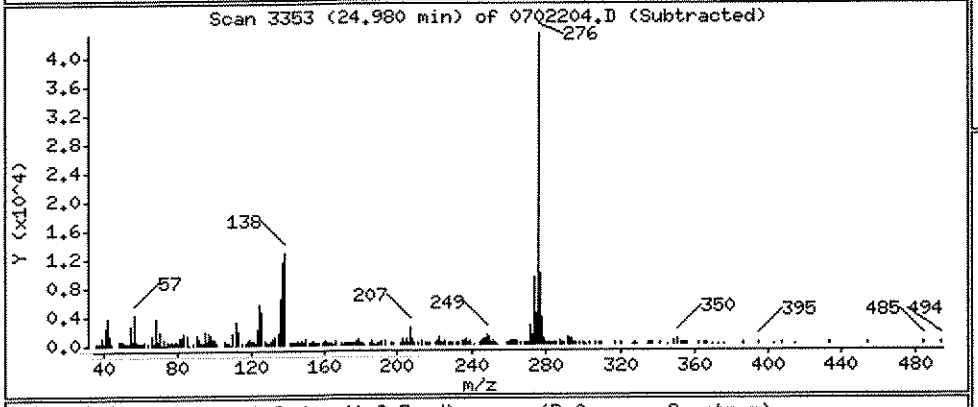
Column phase: fused silica

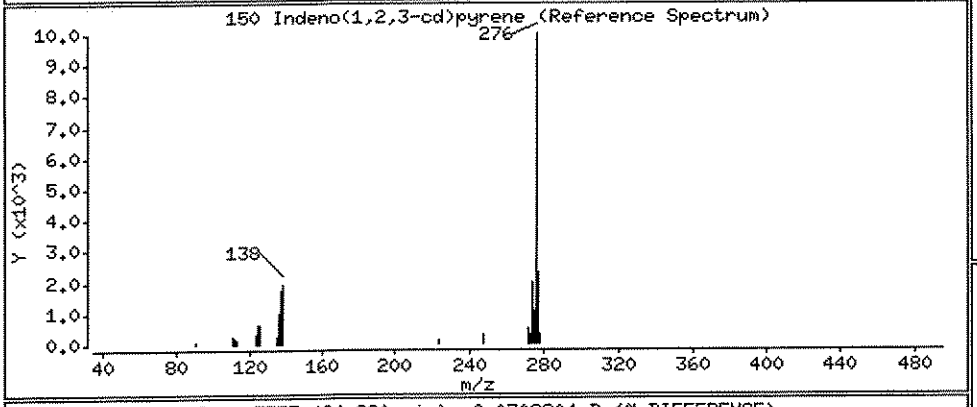
Column diameter: 0.25

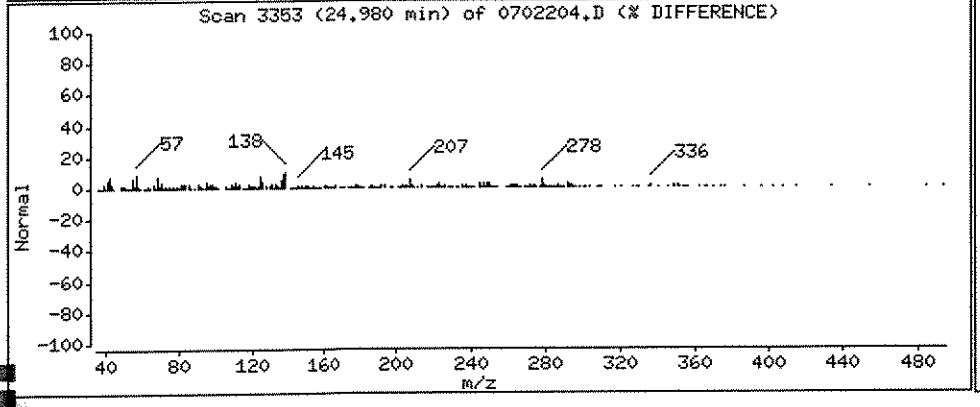
150 Indeno(1,2,3-cd)pyrene

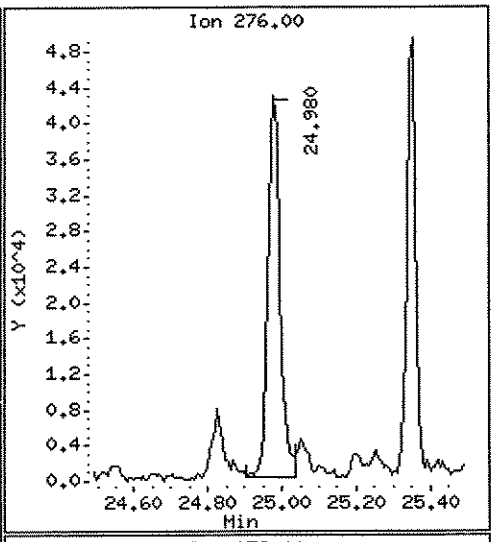
Concentration: 739.0 UG/KG

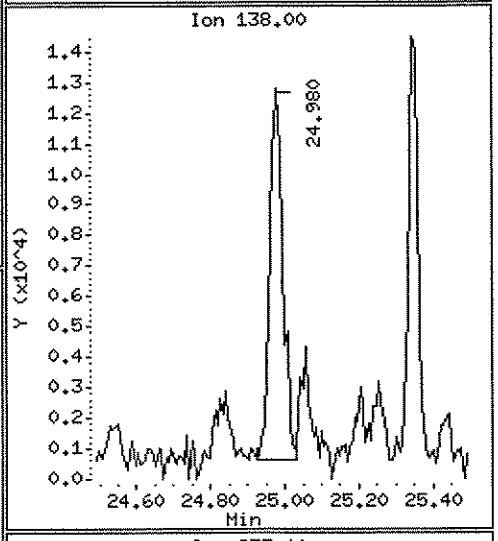


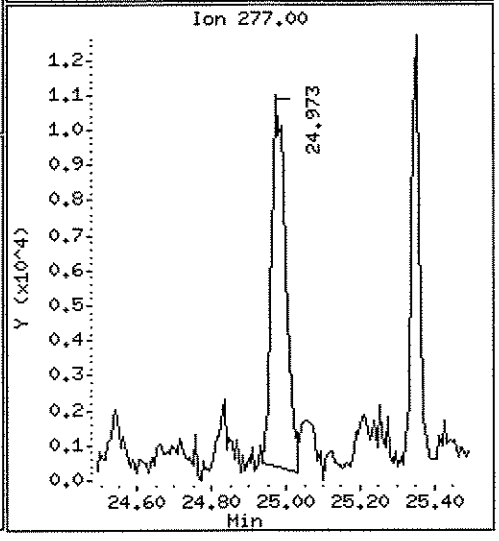












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Date : 10-JUL-2006 15:42

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

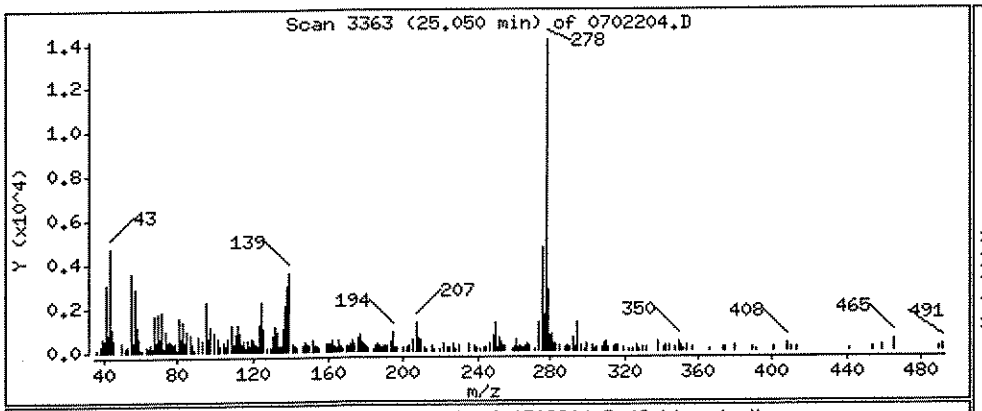
Operator: SDB

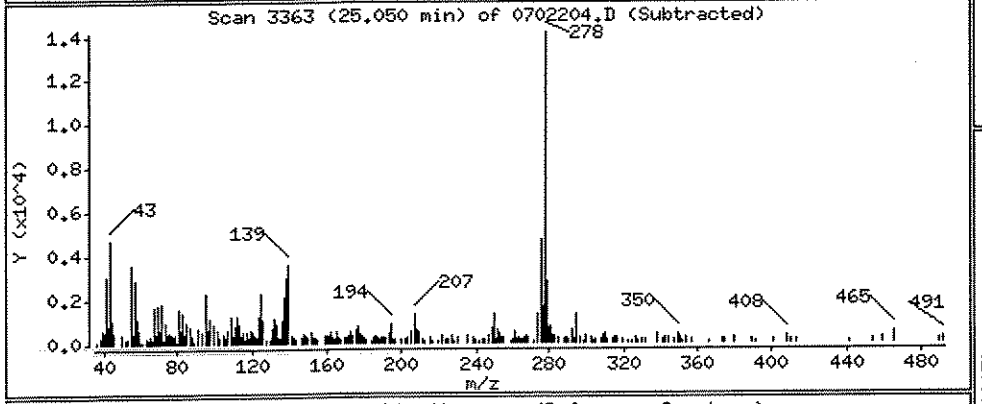
Column phase: fused silica

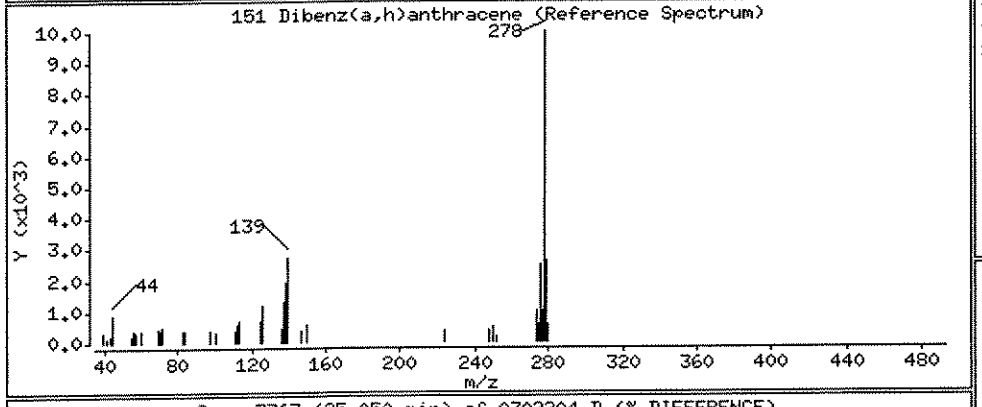
Column diameter: 0.25

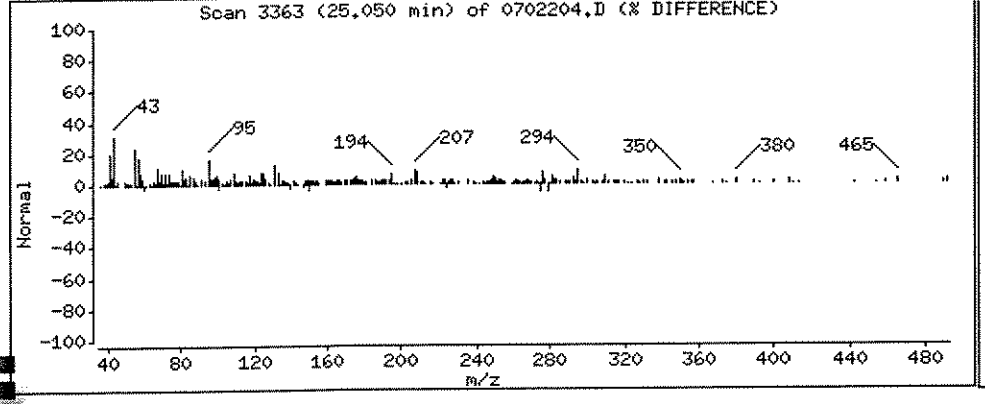
151 Dibenz(a,h)anthracene

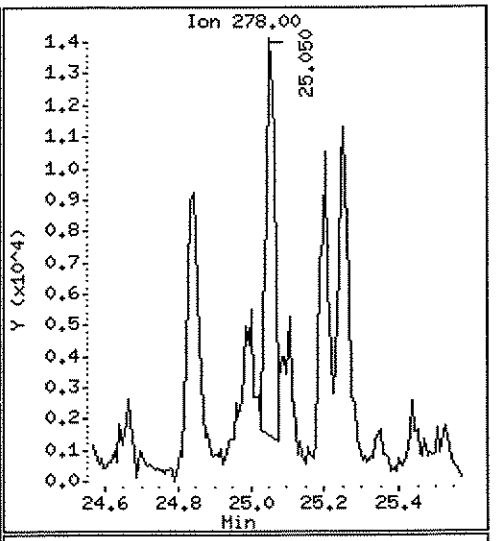
Concentration: 165.3 UG/KG

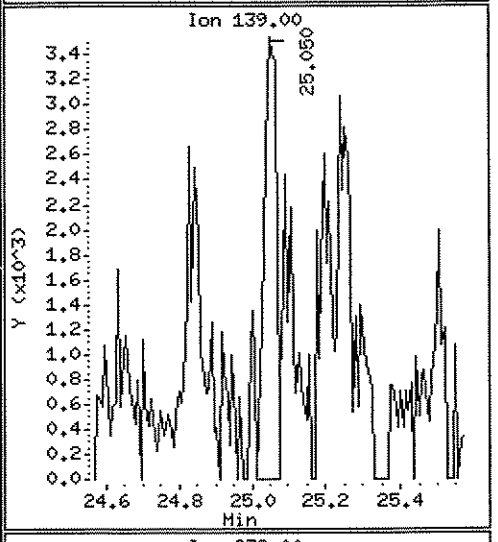


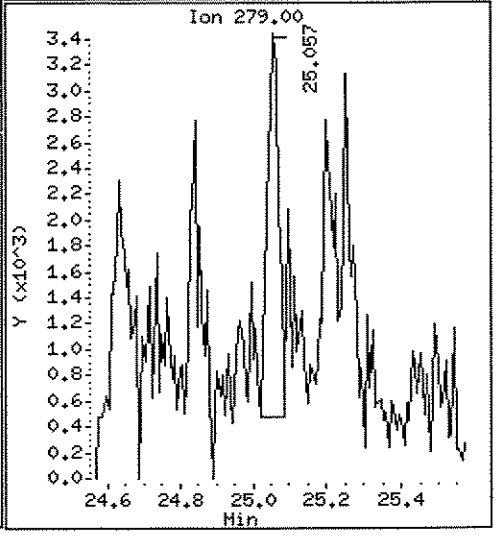












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702204.D

Date : 10-JUL-2006 15:42

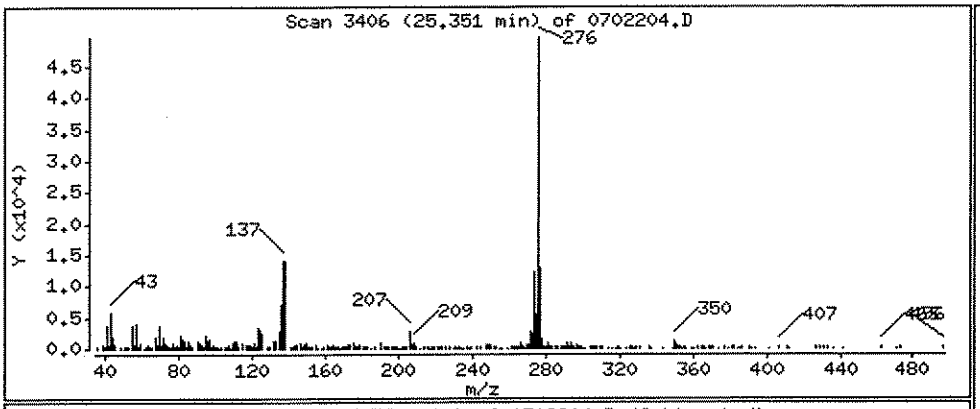
Client ID: 51CFM02S060706 Instrument: bna1.i

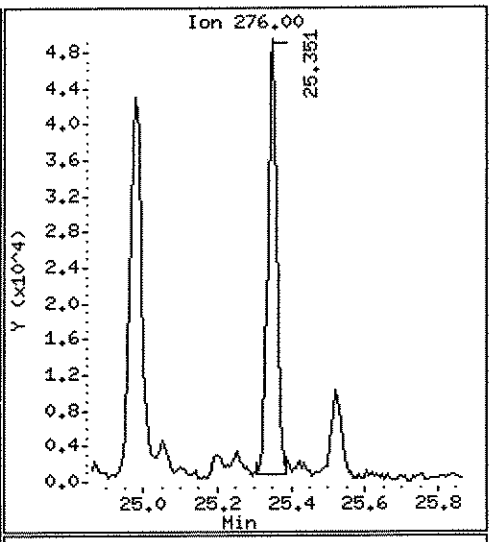
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

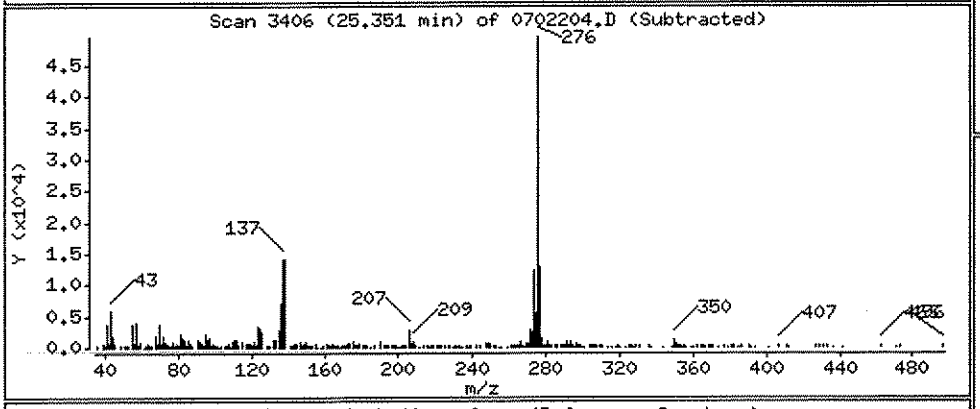
Volume Injected (uL): 0.5 Operator: SDB

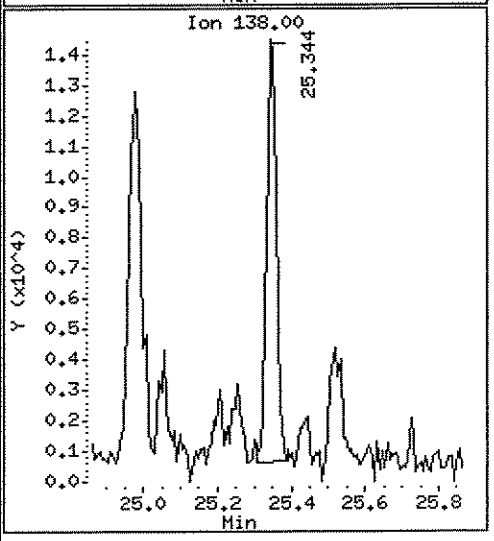
Column phase: fused silica Column diameter: 0.25

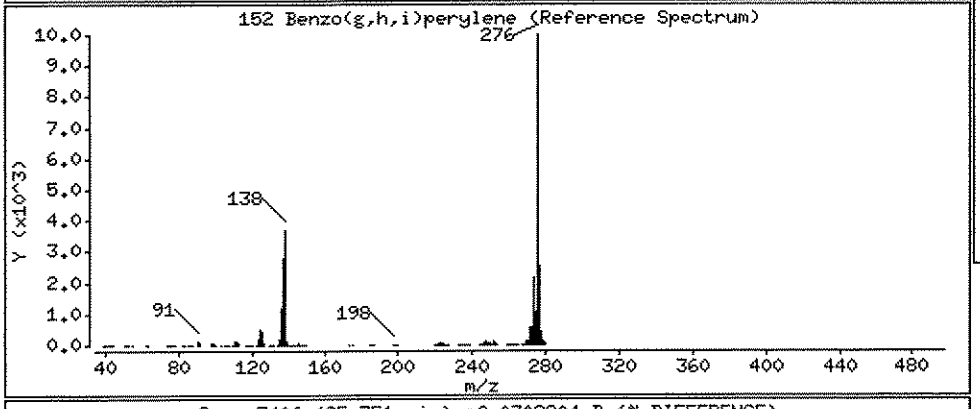
152 Benzo(g,h,i)perylene Concentration: 610.7 UG/KG

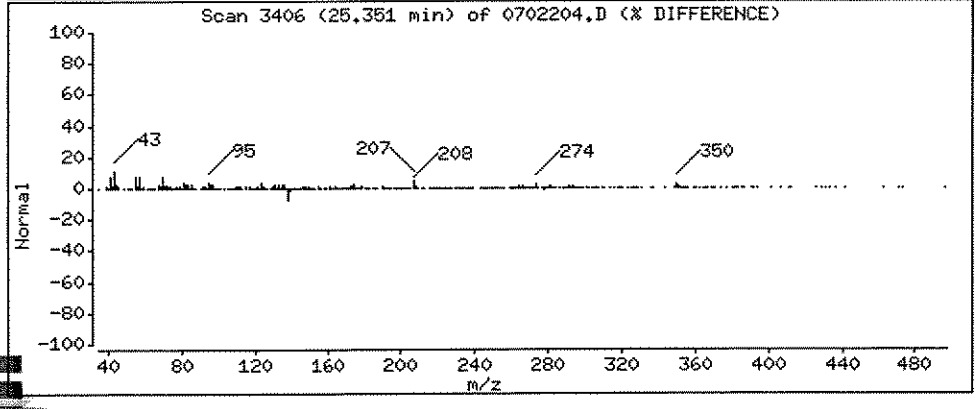












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702204D

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:16

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	860		UD
208-96-8	Acenaphthylene	100	860		UD
120-12-7	Anthracene	100	860	130	JD
56-55-3	Benzo(a)anthracene	100	860	770	JD
205-99-2	Benzo(b)fluoranthene	100	860	1200	D
207-08-9	Benzo(k)fluoranthene	100	860	740	JD
191-24-2	Benzo(g,h,i)perylene	100	860	760	JD
50-32-8	Benzo(a)pyrene	100	520	1200	D
218-01-9	Chrysene	100	860	1000	D
53-70-3	Dibenz(a,h)anthracene	100	520	200	JD
206-44-0	Fluoranthene	100	860	1400	D
86-73-7	Fluorene	100	860		UD
193-39-5	Indeno(1,2,3-cd)pyrene	100	860	780	JD
91-57-6	2-Methylnaphthalene	100	860		UD
90-12-0	1-Methylnaphthalene	260	860		UD
91-20-3	Naphthalene	100	860		UD
85-01-8	Phenanthrene	100	860	830	JD
129-00-0	Pyrene	100	860	1400	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Report Date: 12-Jul-2006 12:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Lab Smp Id: 0607022-04 Client Smp ID: 51CFM02S060706
Inj Date : 11-JUL-2006 16:16
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 13
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.000	Percent Solids

7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	495619	40.0000	
* 31 Naphthalene-d8	136	5.237	5.240	(1.000)	1785336	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.890)	227106	11.6529	2002
* 65 Acenaphthene-d10	164	7.636	7.641	(1.000)	858789	40.0000	
$ 70 2-Fluorobiphenyl	172	6.545	6.555	(0.857)	336764	12.3224	2117
* 97 Phenanthrene-d10	188	10.920	10.923	(1.000)	1091272	40.0000	
106 Phenanthrene	178	10.969	10.986	(1.004)	149917	4.81823	827.9(a)
107 Anthracene	178	11.079	11.096	(1.015)	23696	0.77140	132.5(a)
110 Fluoranthene	202	14.182	14.195	(1.299)	243023	7.88917	1356
* 124 Chrysene-d12	240	18.326	18.333	(1.000)	770234	40.0000	
126 Pyrene	202	14.759	14.770	(0.805)	244490	7.94819	1366
$ 127 Terphenyl-d14	244	15.535	15.545	(0.848)	249903	12.8489	2208
130 Benzo(a)anthracene	228	18.270	18.291	(0.997)	111514	4.49345	772.1(a)

7-12-06

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Report Date: 12-Jul-2006 12:12

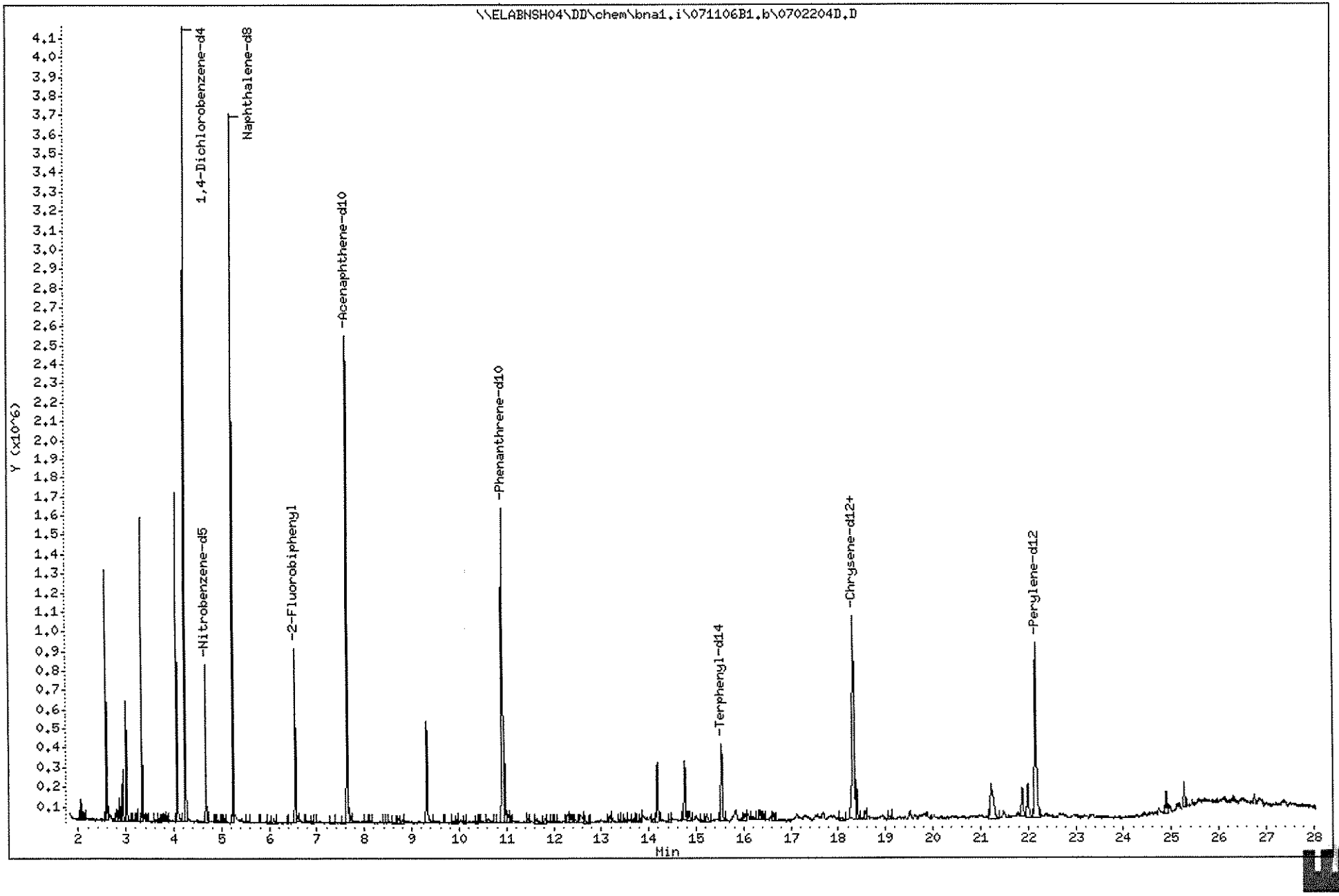
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
131 Chrysene	228	18.382	18.409	(1.003)	137371	6.06049	1041
* 145 Perylene-d12	264	22.163	22.175	(1.000)	729191	40.0000	
147 Benzo(b)fluoranthene	252	21.228	21.248	(0.958)	162381	7.22906	1242(M)
148 Benzo(k)fluoranthene	252	21.262	21.317	(0.959)	99760	4.28069	735.5(aM)
149 Benzo(a)pyrene	252	21.996	22.017	(0.992)	139641	7.20941	1239
150 Indeno(1,2,3-cd)pyrene	276	24.890	24.921	(1.123)	75574	4.57316	785.8(a)
151 Dibenz(a,h)anthracene	278	24.974	24.998	(1.127)	19648	1.18101	202.9(a)
152 Benzo(g,h,i)perylene	276	25.274	25.301	(1.140)	75886	4.42502	760.3(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D
Date : 11-JUL-2006 16:16
Client ID: 51CFM02S060706
Instrument: bna1.i
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000092



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

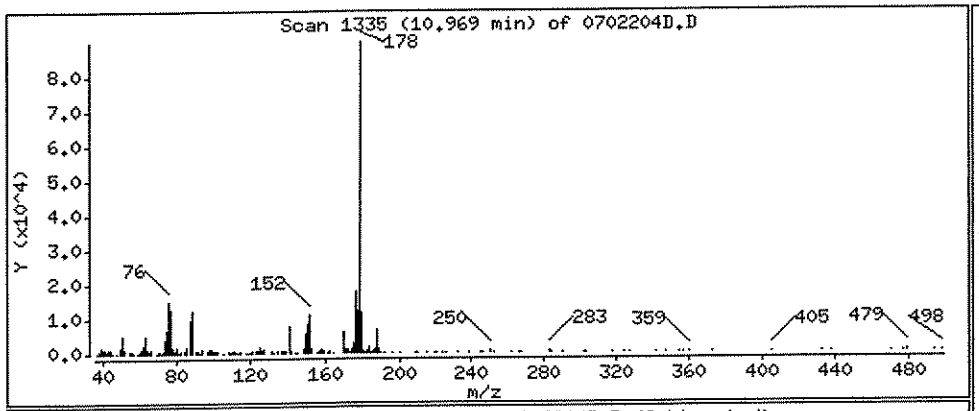
Operator: SDB

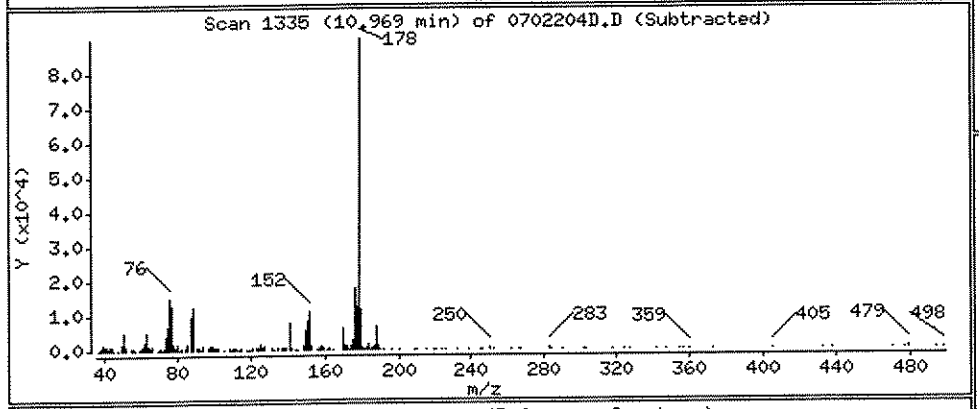
Column phase: fused silica

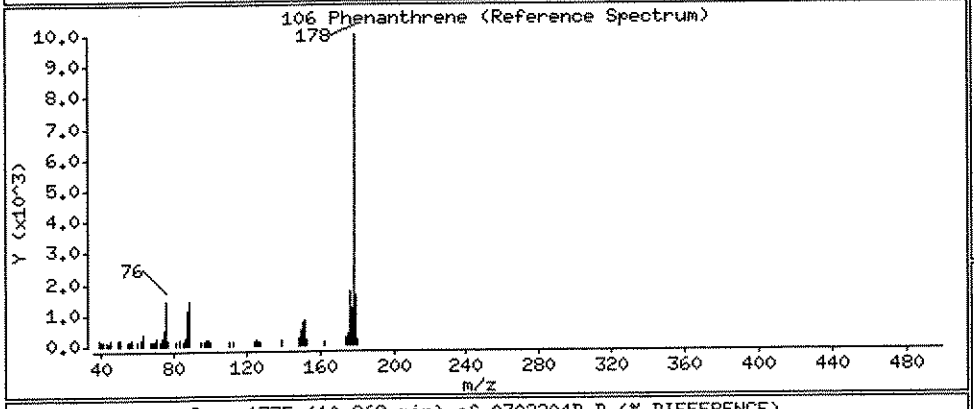
Column diameter: 0.25

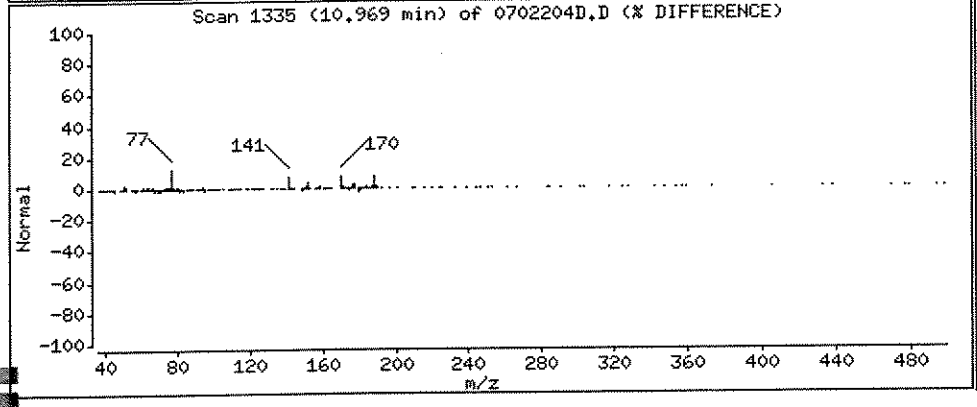
106 Phenanthrene

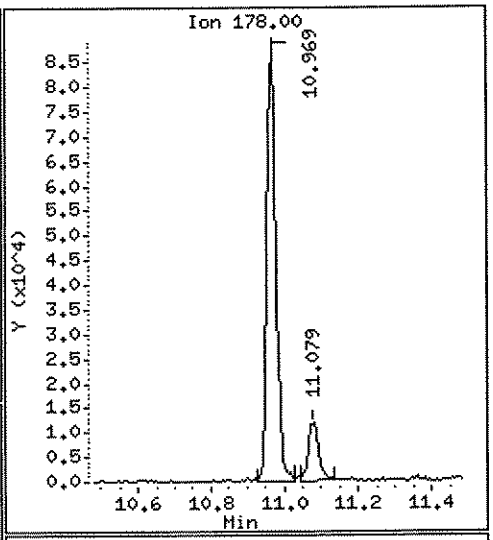
Concentration: 827.9 UG/KG

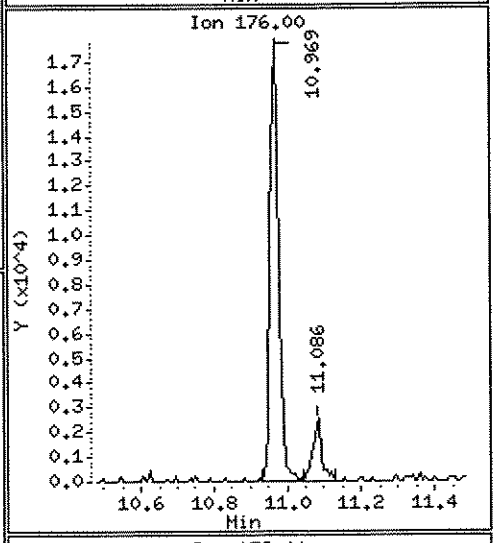


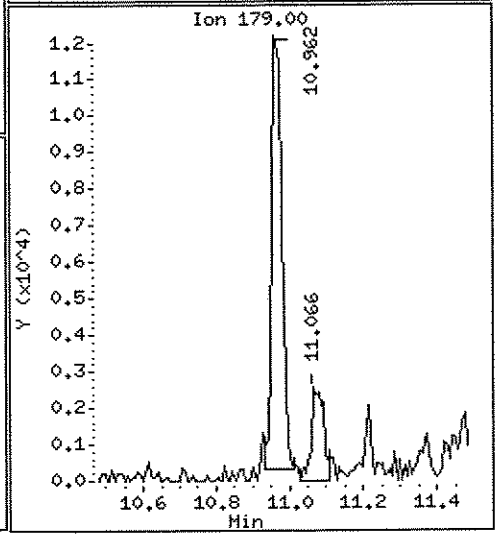












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

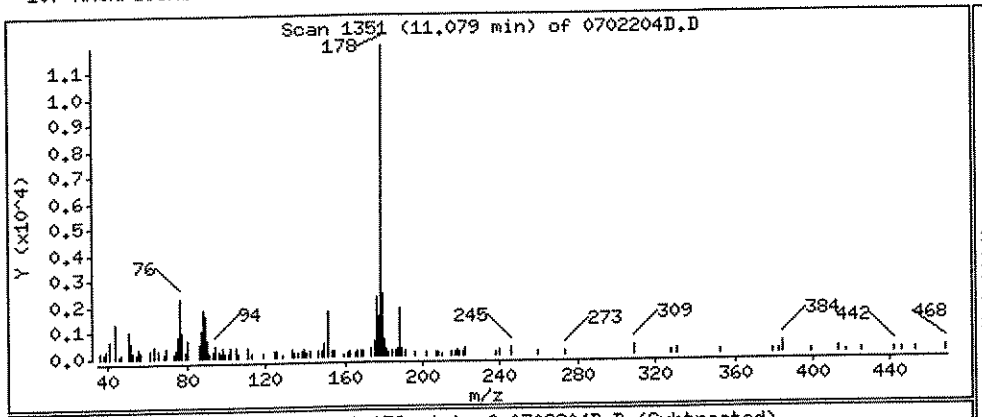
Operator: SDB

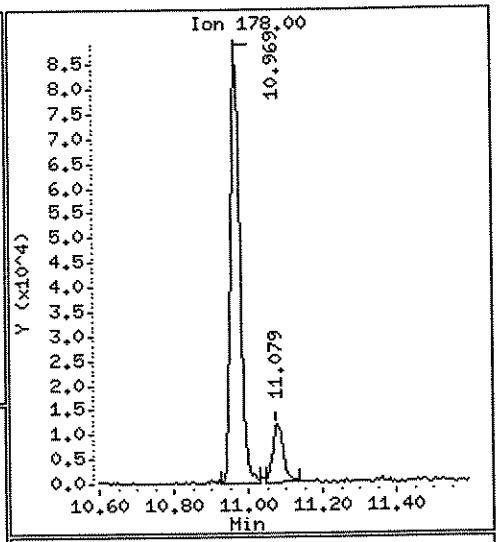
Column phase: fused silica

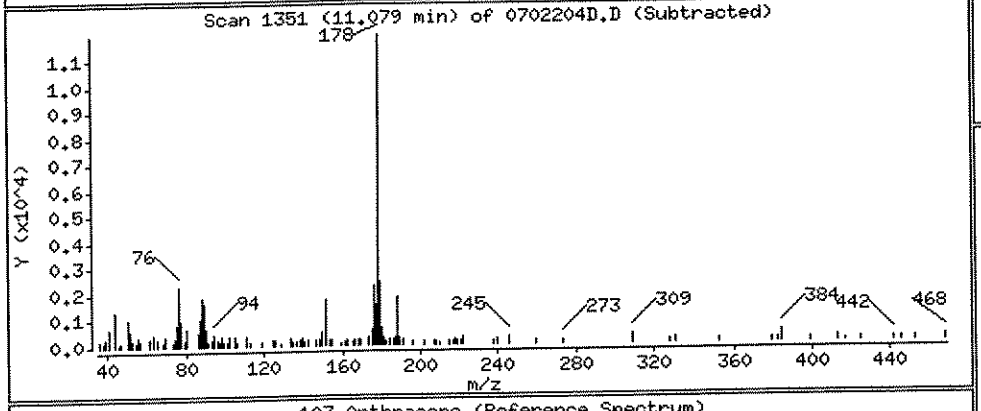
Column diameter: 0.25

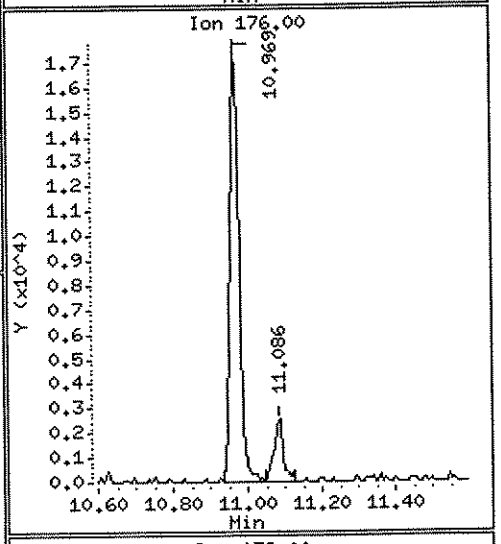
Concentration: 132.5 UG/KG

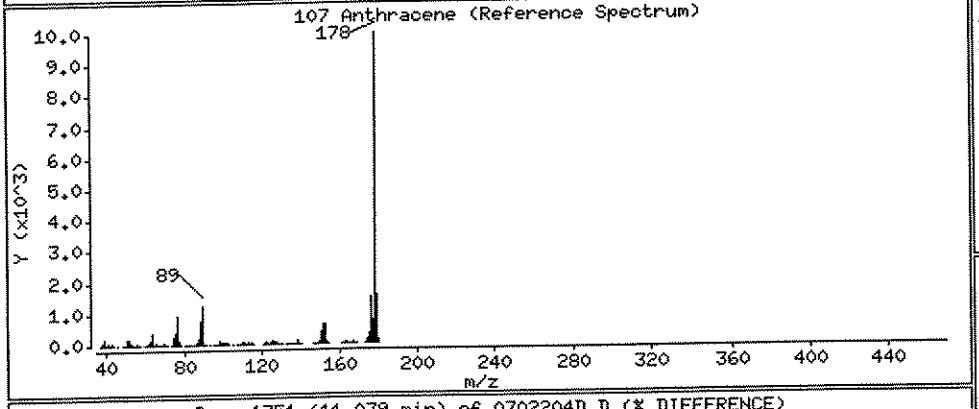
107 Anthracene

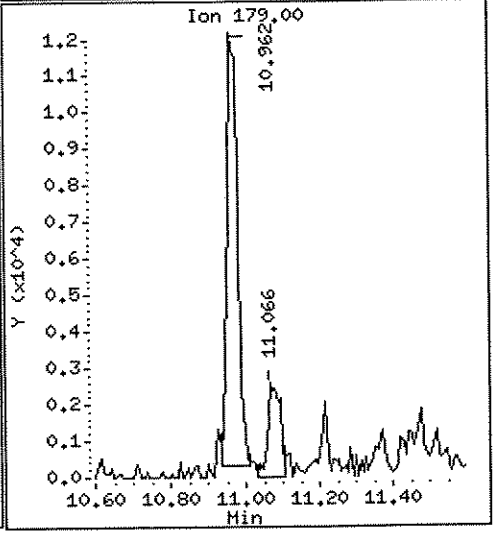


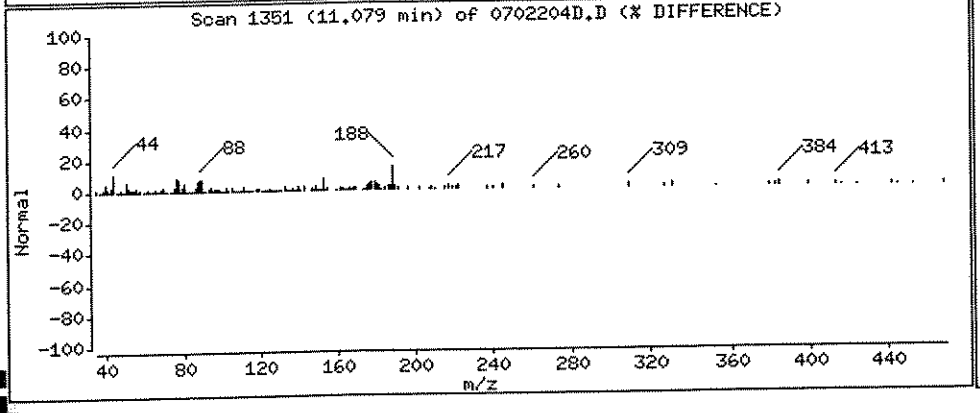












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

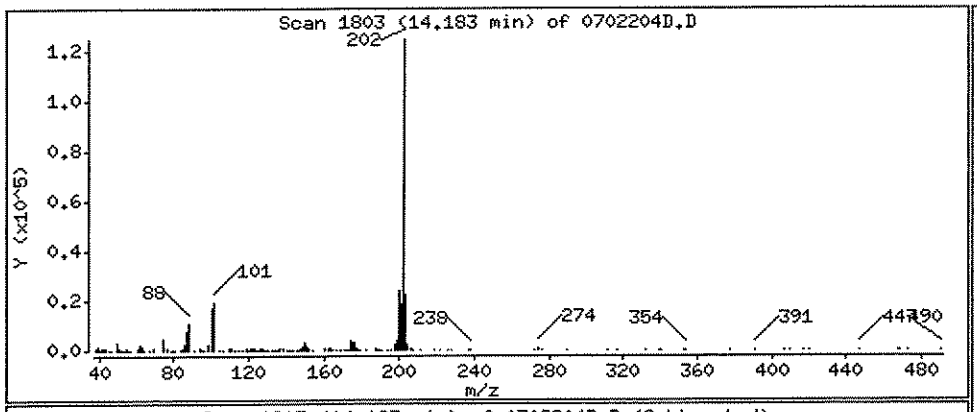
Client ID: 51CFM02S060706 Instrument: bna1.i

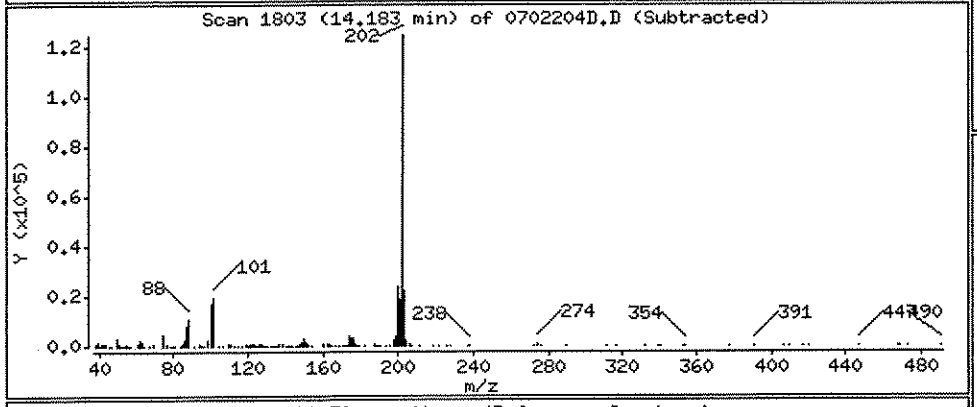
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

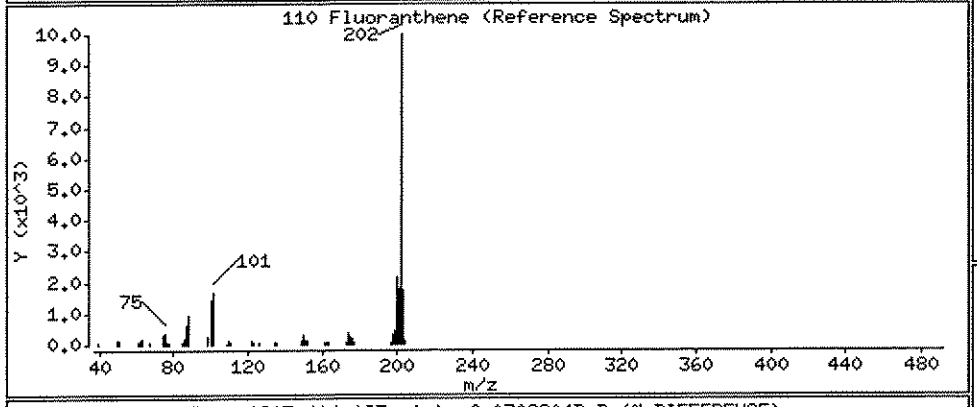
Volume Injected (uL): 0.5 Operator: SDB

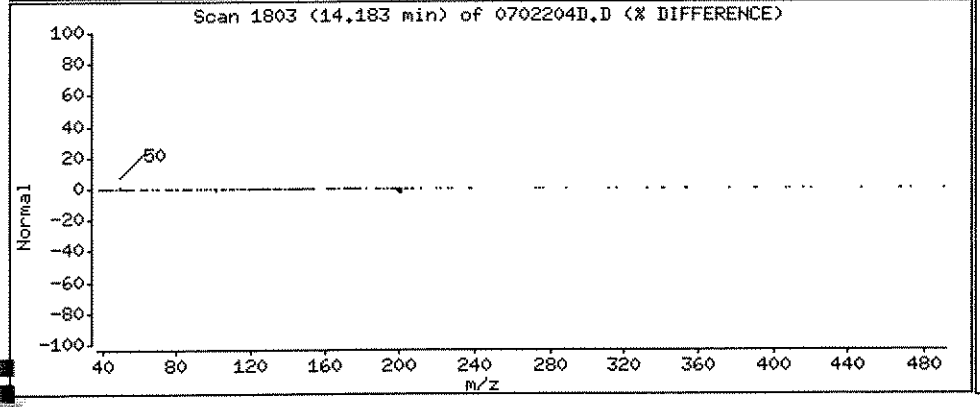
Column phase: fused silica Column diameter: 0.25

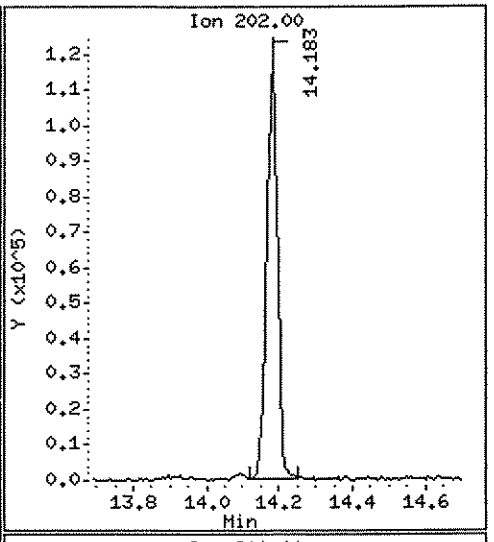
110 Fluoranthene Concentration: 1356 UG/KG

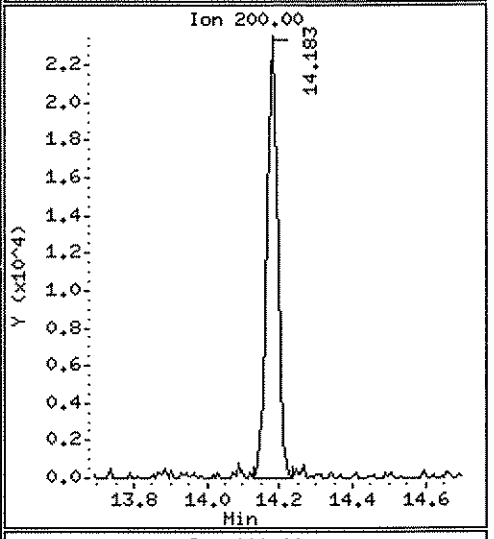


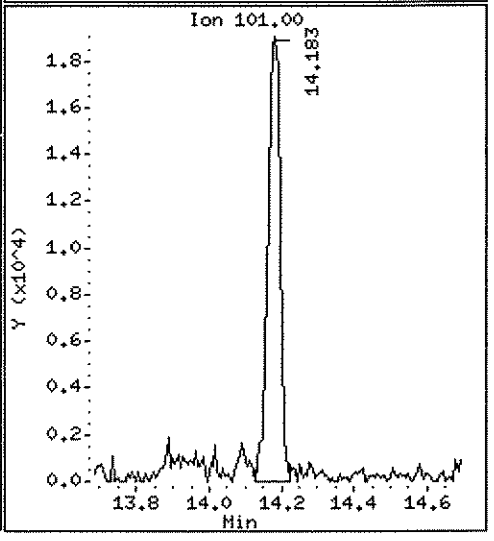












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

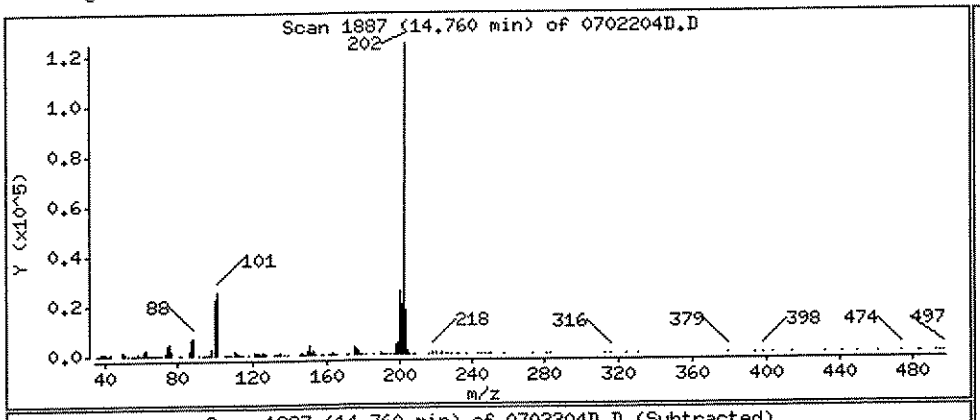
Operator: SDB

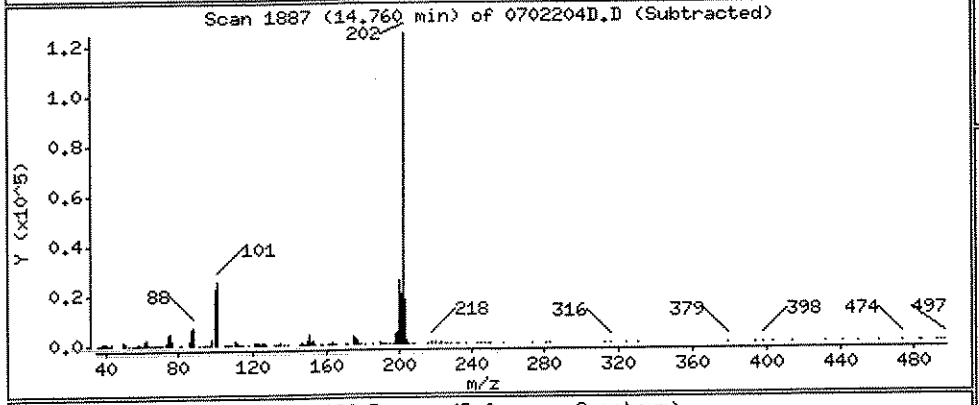
Column phase: fused silica

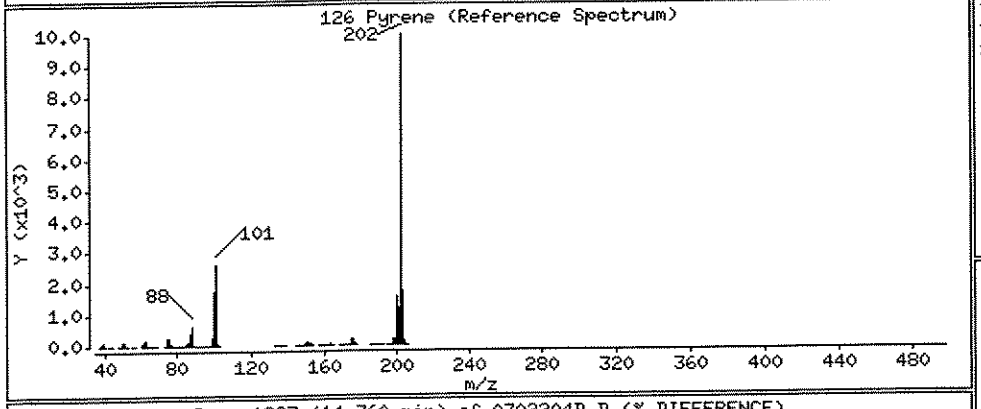
Column diameter: 0.25

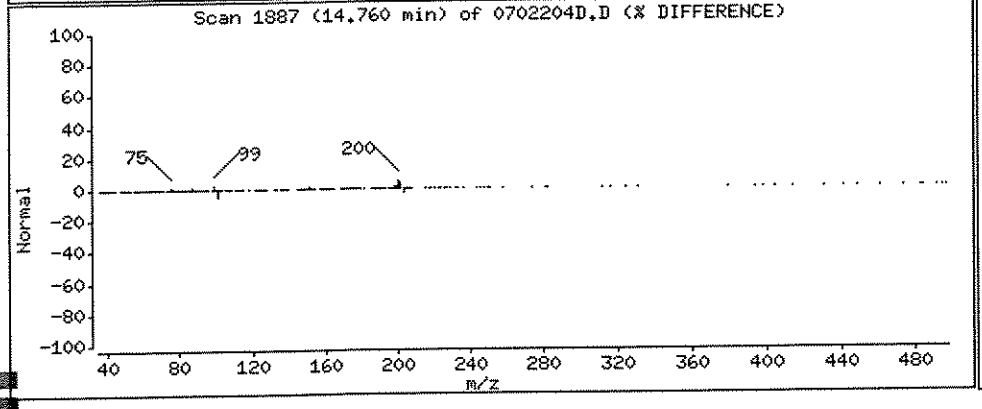
126 Pyrene

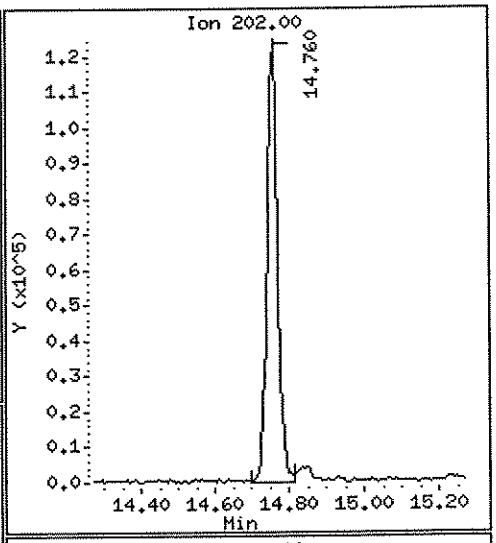
Concentration: 1366 UG/KG

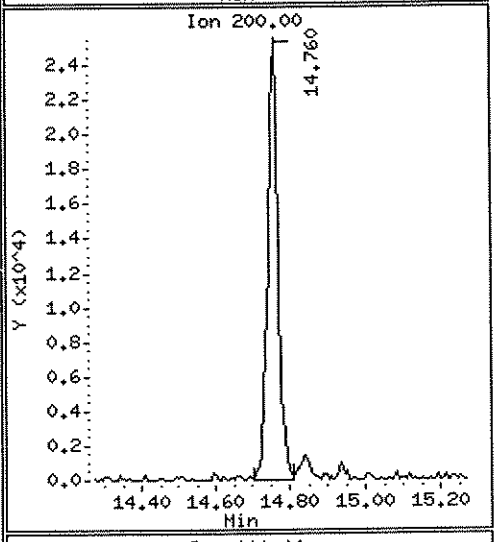


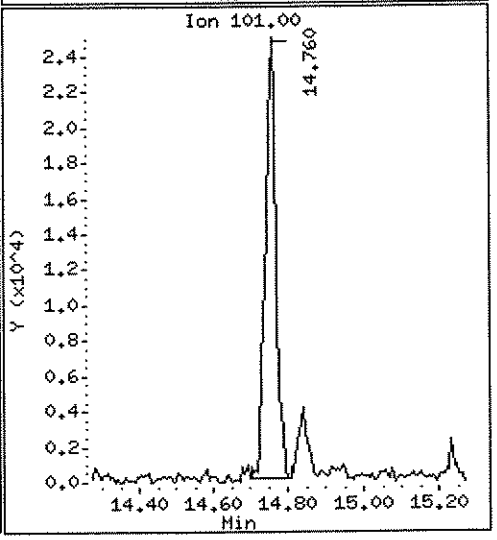












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

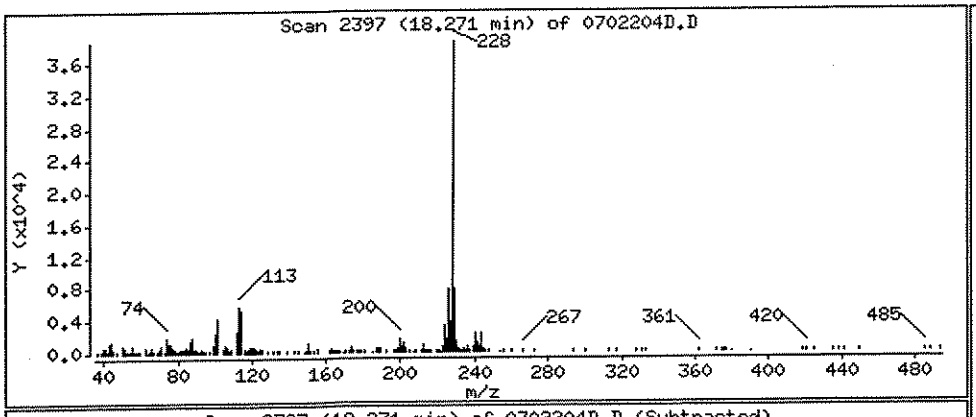
Client ID: 51CFM02S060706 Instrument: bna1.i

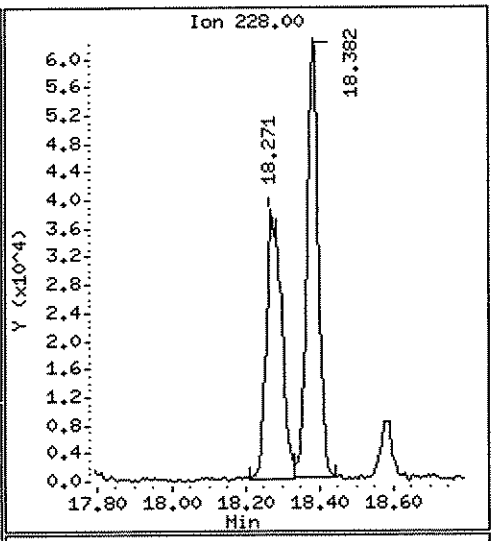
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

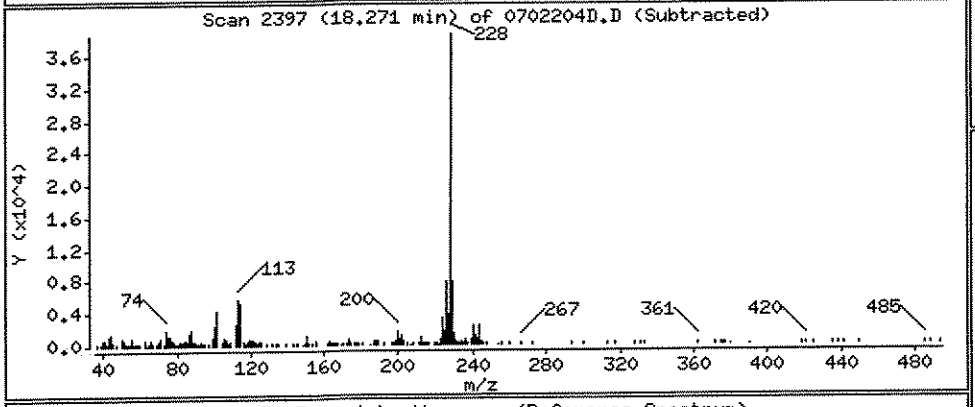
Volume Injected (uL): 0.5 Operator: SDB

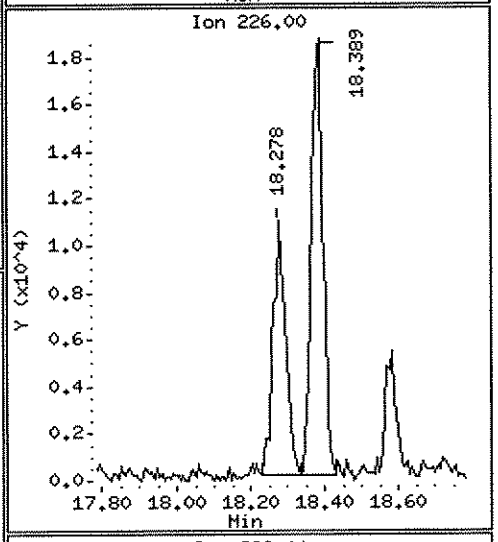
Column phase: fused silica Column diameter: 0.25

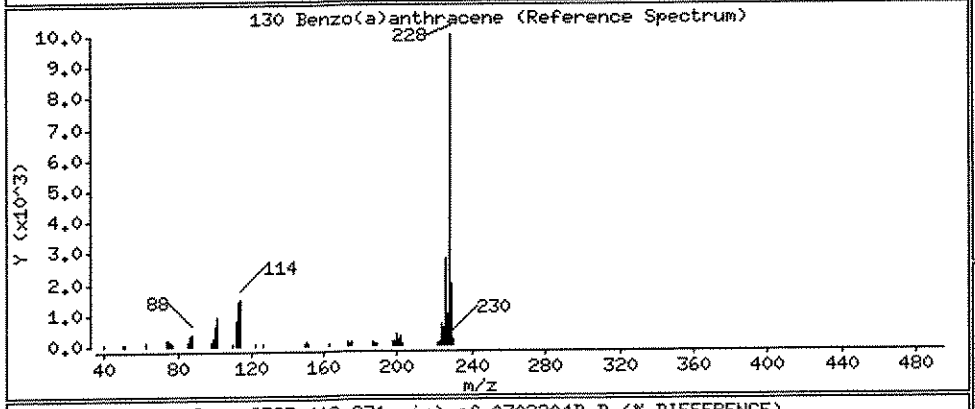
130 Benzo(a)anthracene Concentration: 772.1 UG/KG

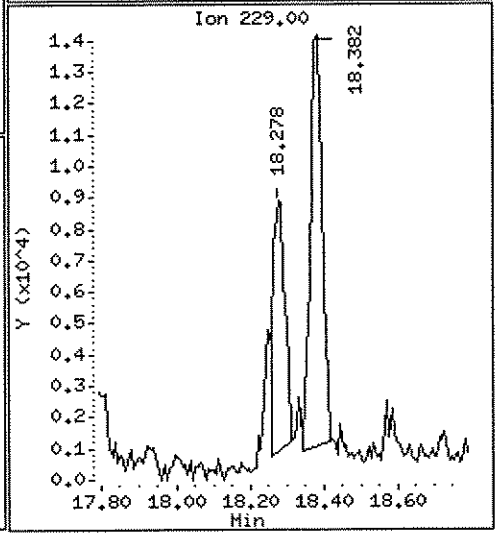


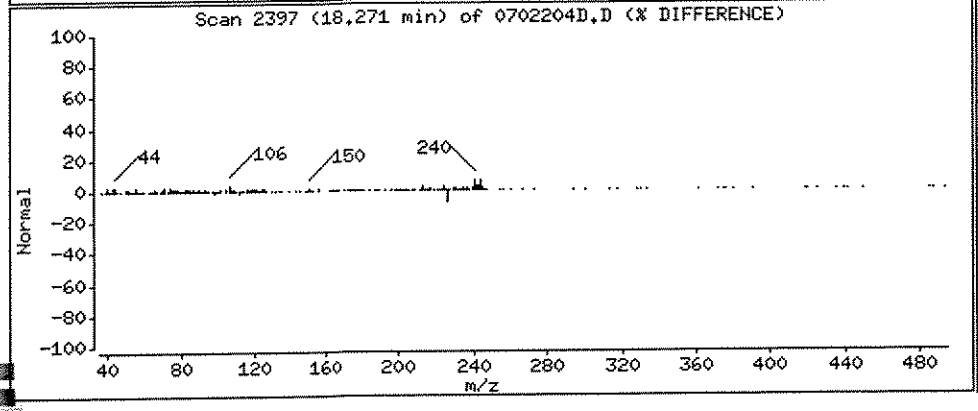












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

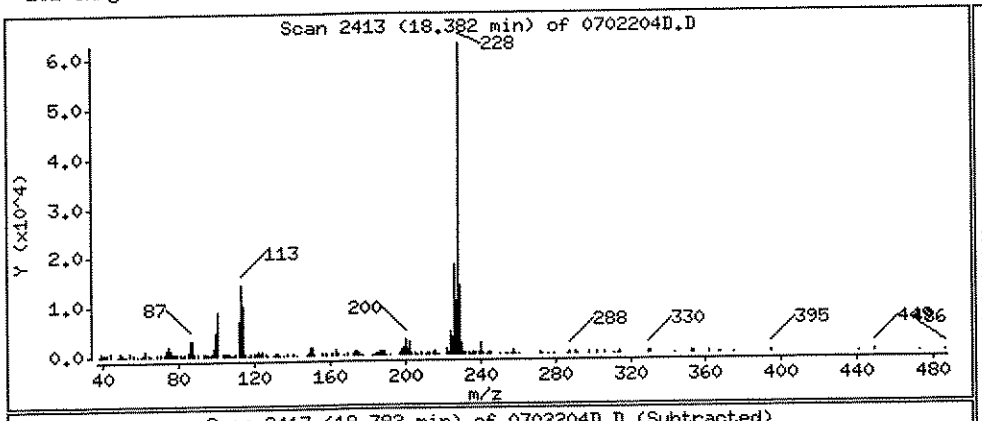
Operator: SDB

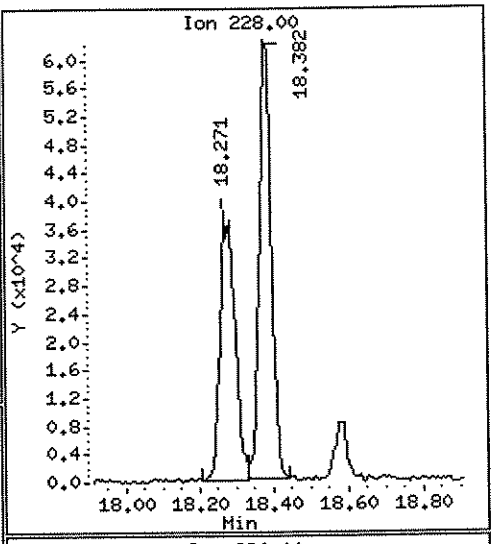
Column phase: fused silica

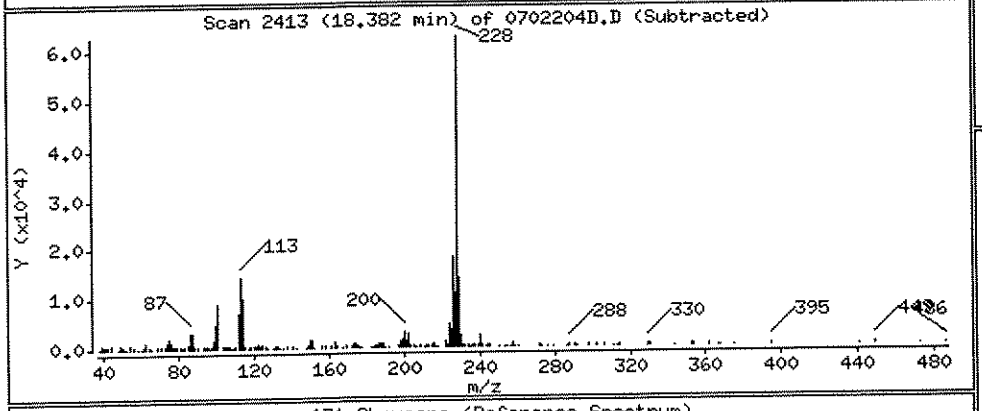
Column diameter: 0.25

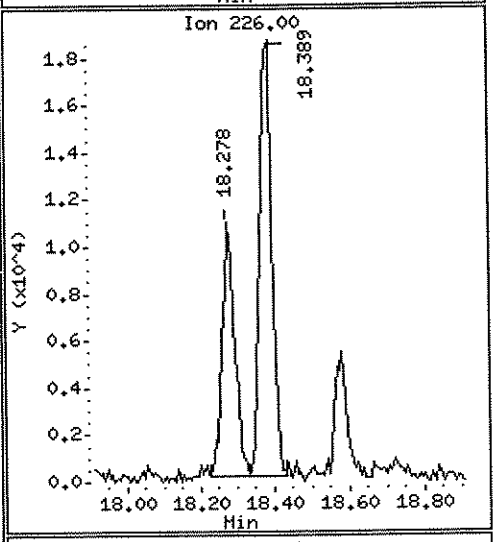
131 Chrysene

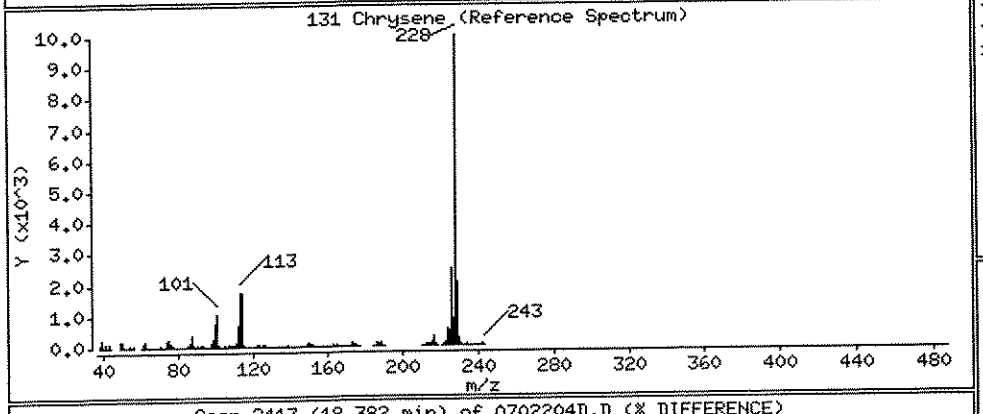
Concentration: 1041 UG/KG

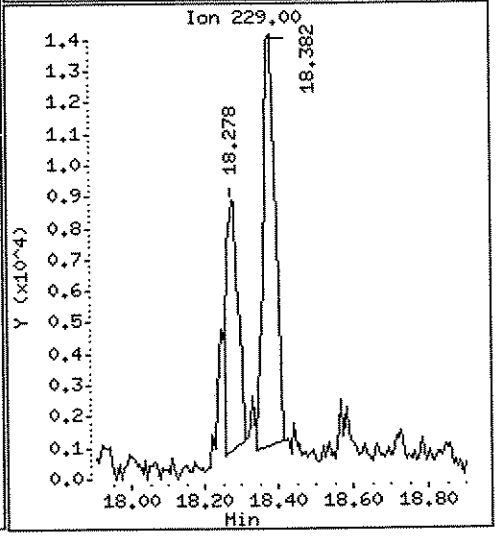


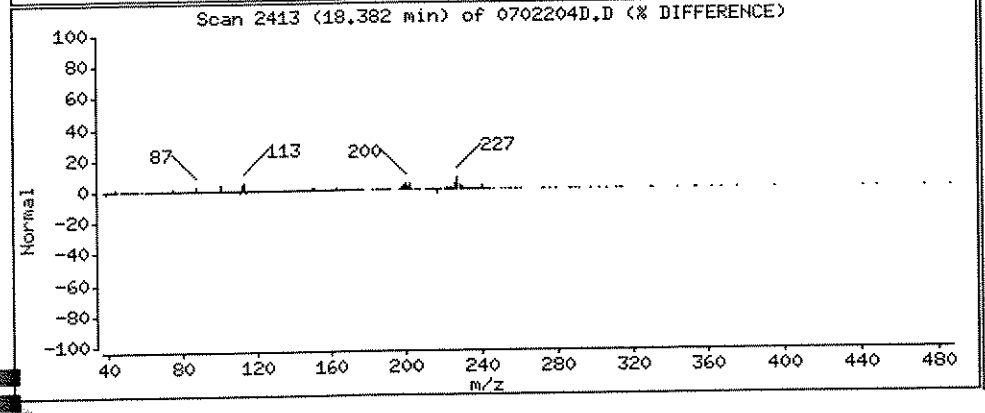












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

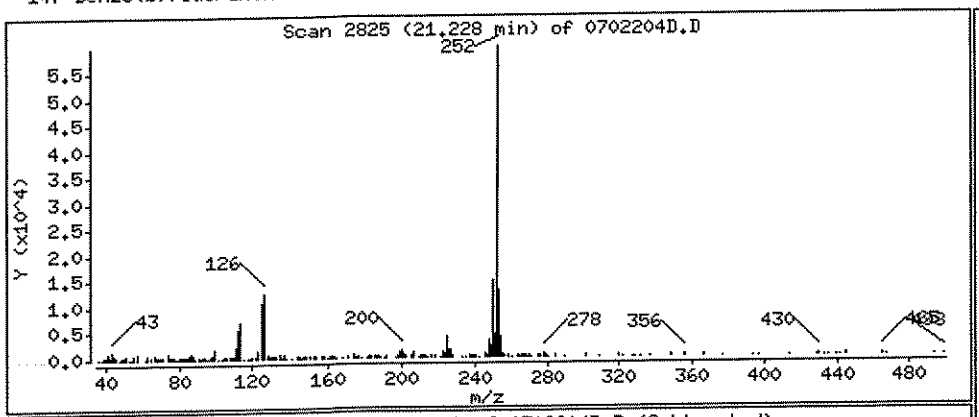
Operator: SDB

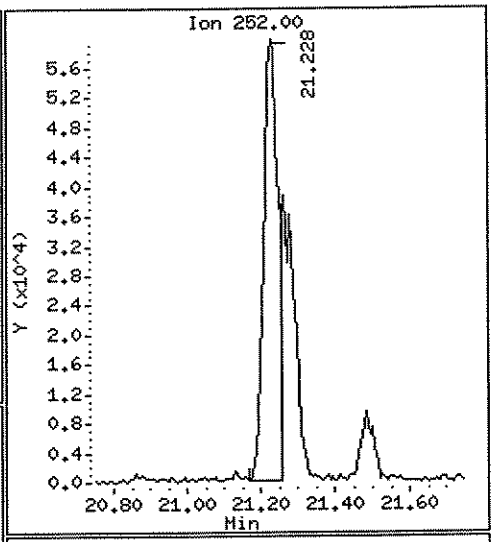
Column phase: fused silica

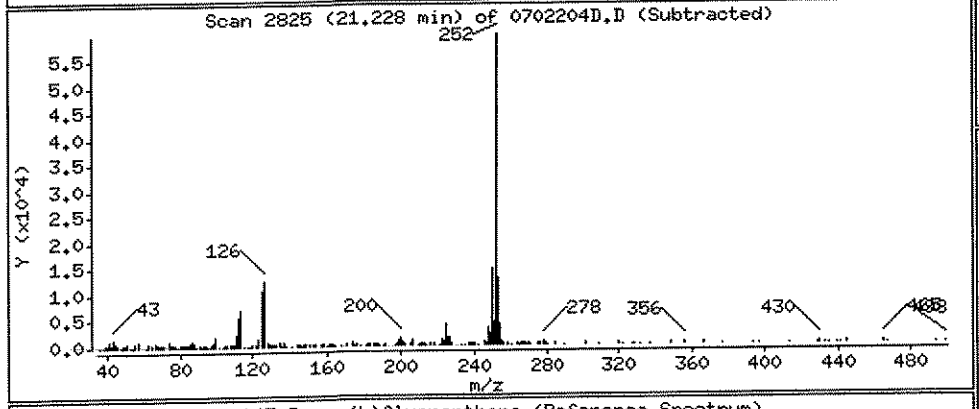
Column diameter: 0.25

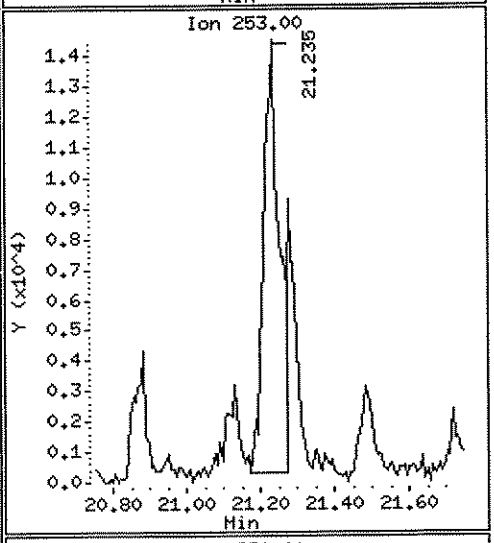
147 Benzo(b)fluoranthene

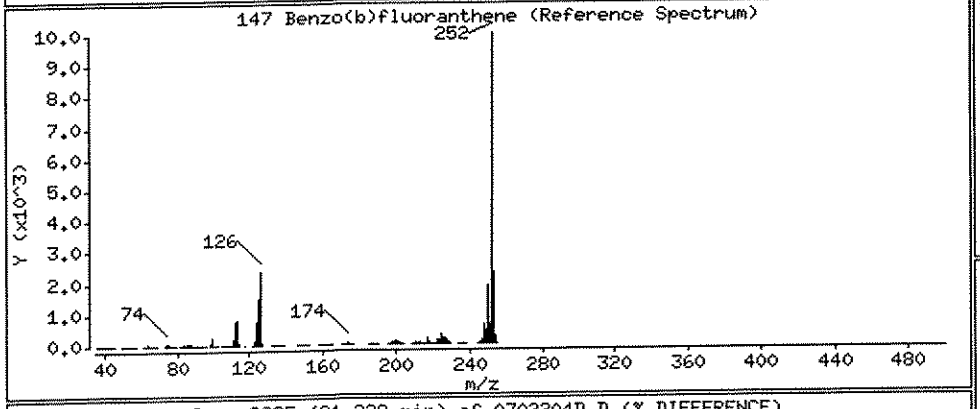
Concentration: 1242 UG/KG

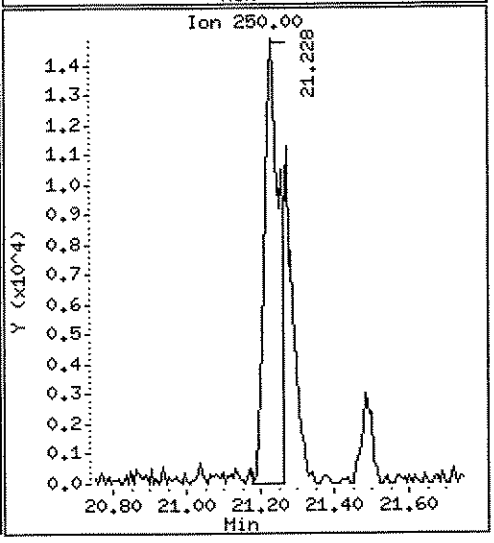


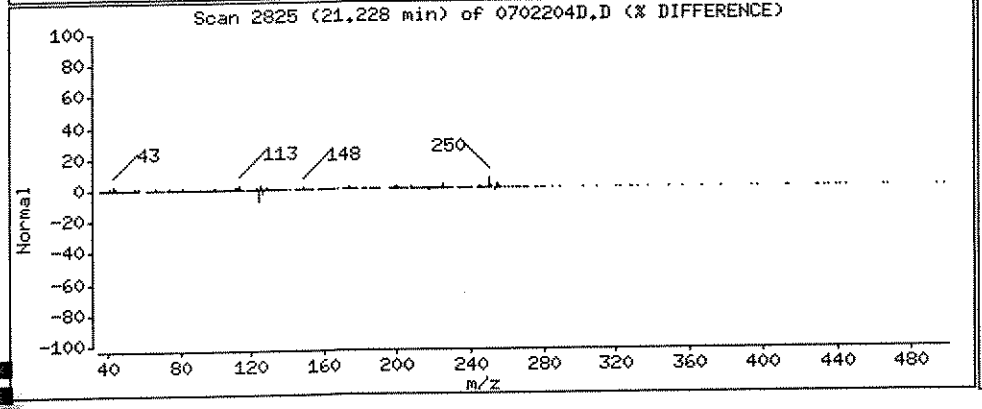












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

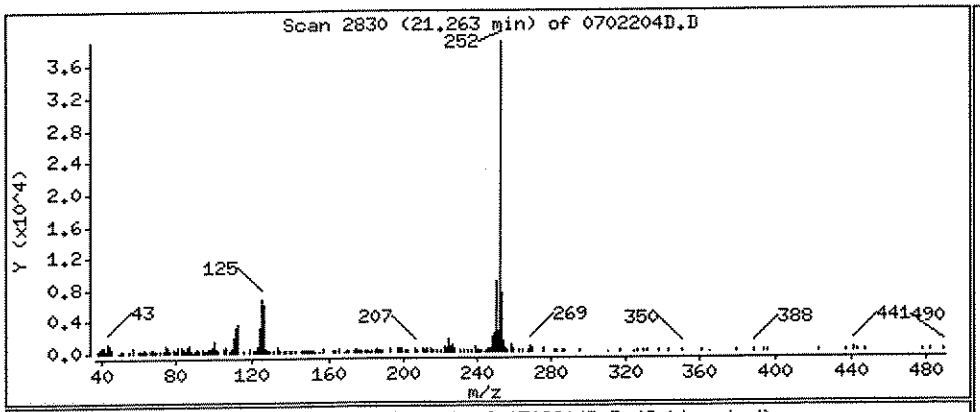
Client ID: 51CFM02S060706 Instrument: bna1.i

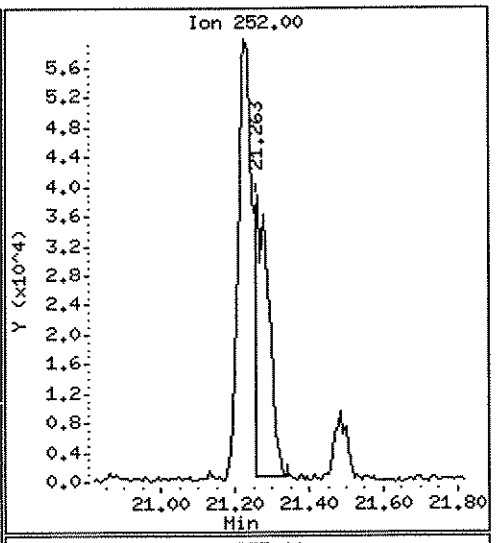
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

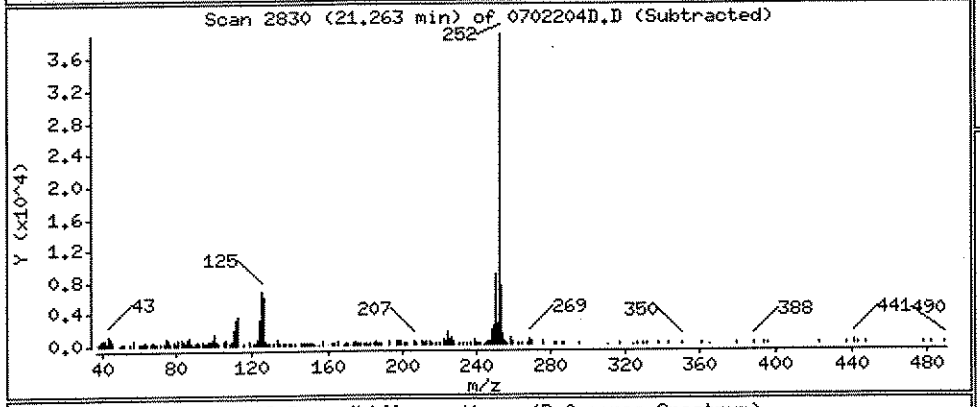
Volume Injected (uL): 0.5 Operator: SDB

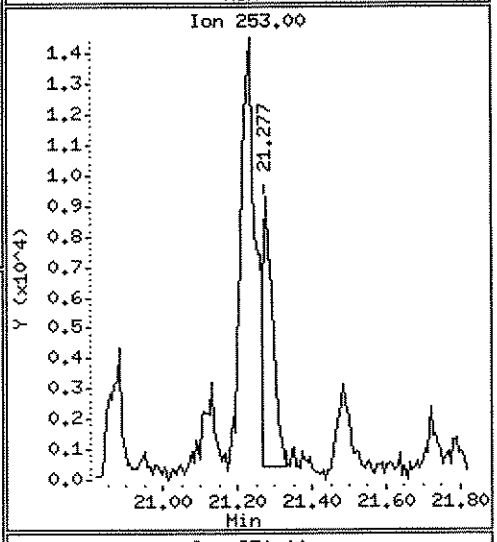
Column phase: fused silica Column diameter: 0.25

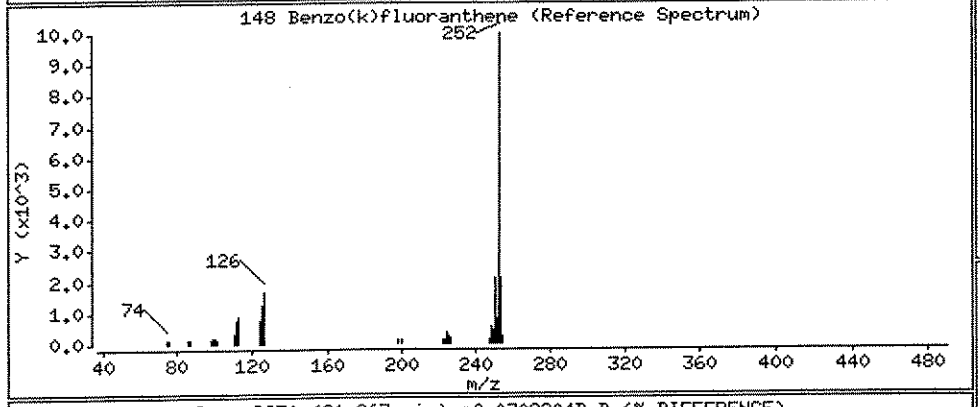
148 Benzo(k)fluoranthene Concentration: 735.5 UG/KG

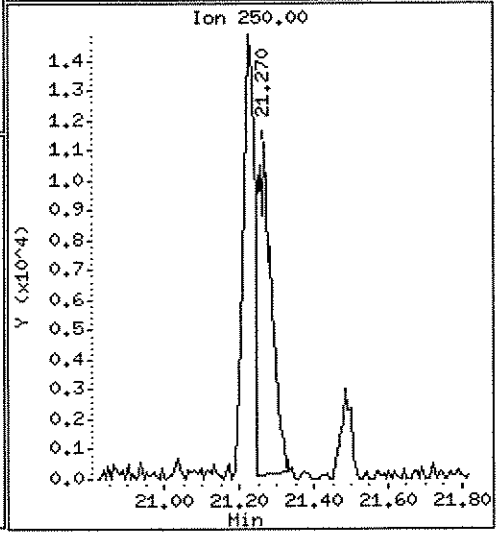


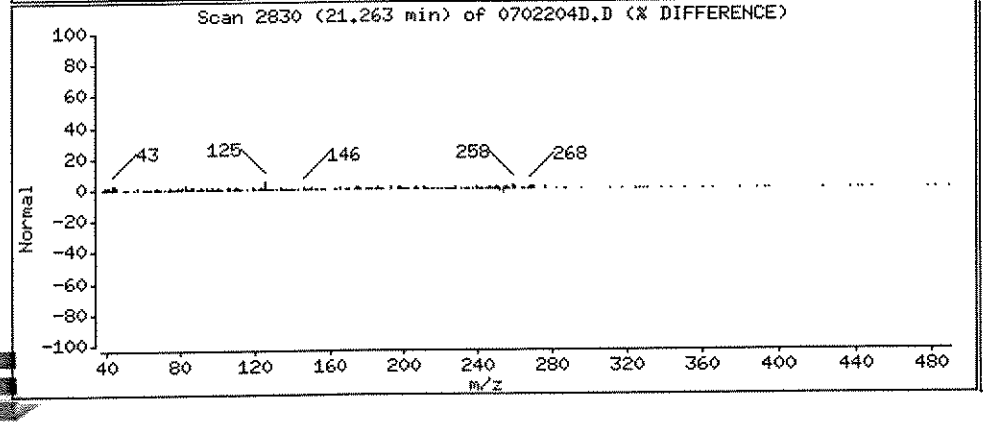












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

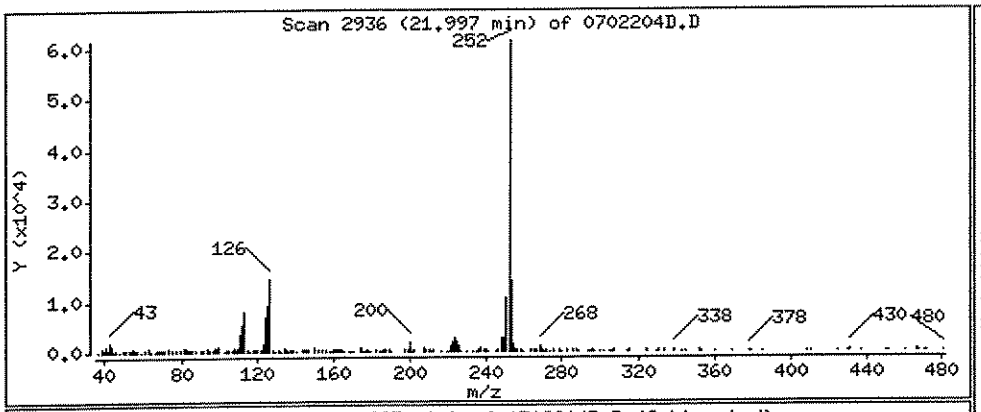
Client ID: 51CFM02S060706 Instrument: bna1.i

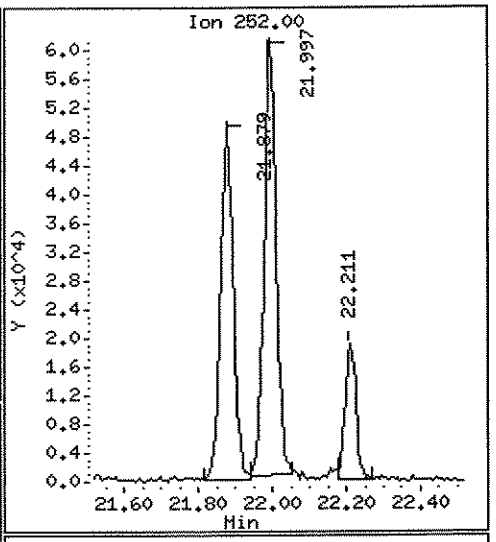
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

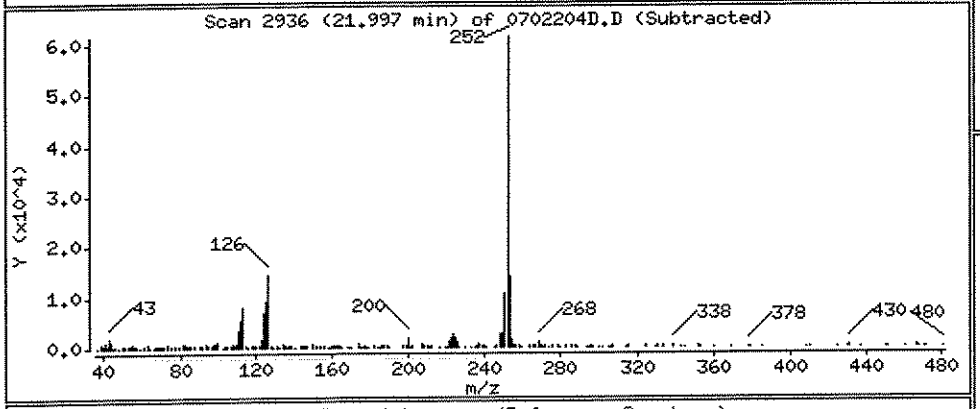
Volume Injected (uL): 0.5 Operator: SDB

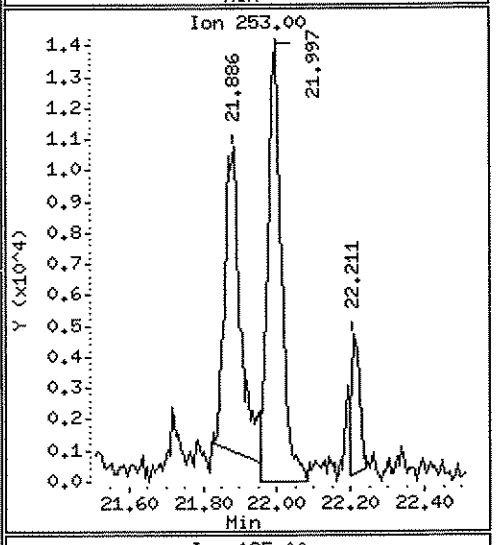
Column phase: fused silica Column diameter: 0.25

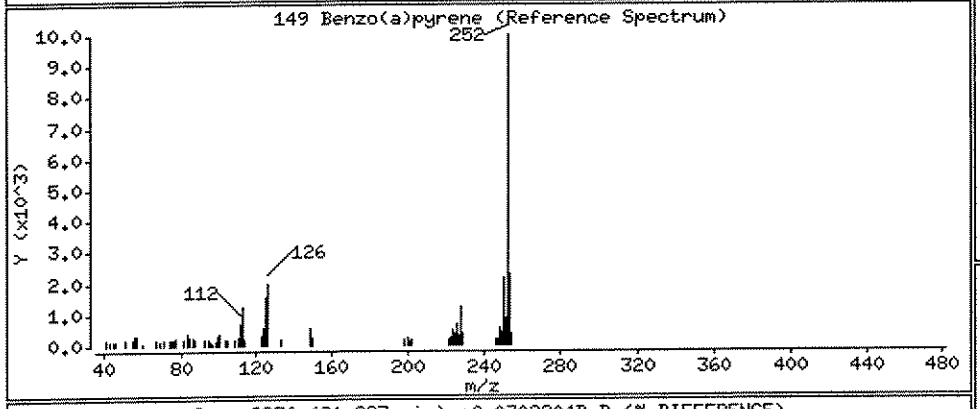
149 Benzo(a)pyrene Concentration: 1239 UG/KG

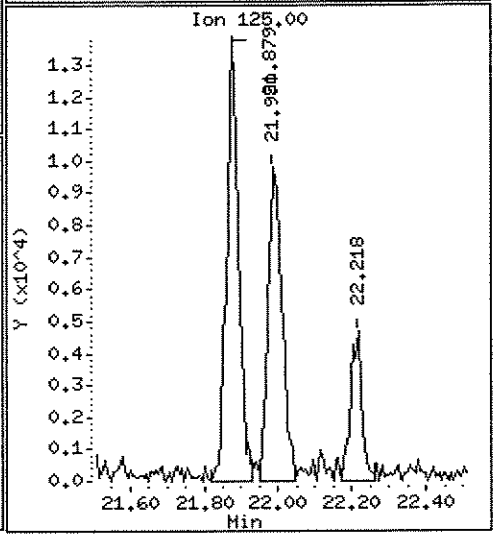


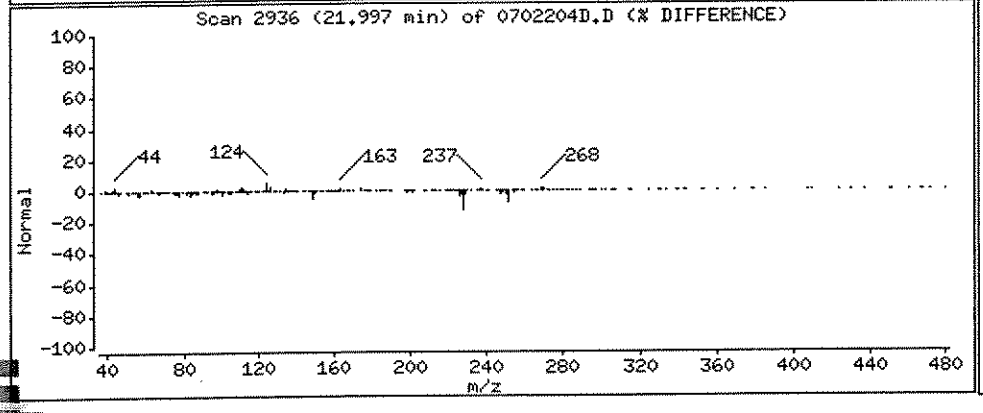












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

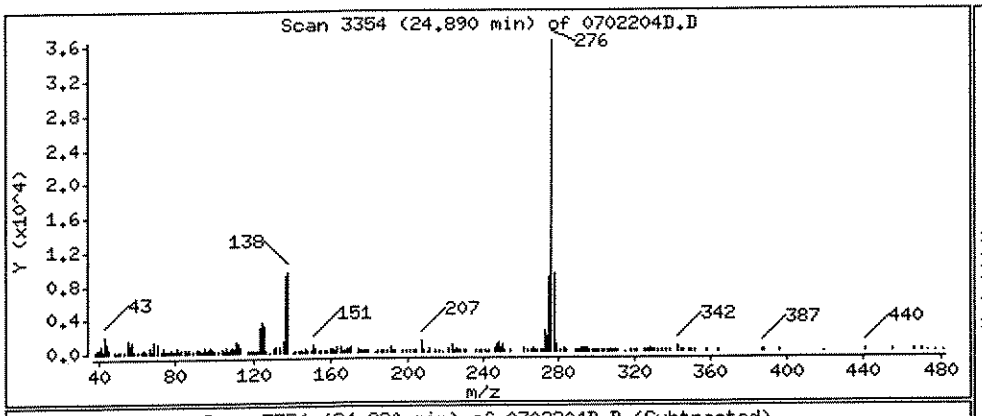
Client ID: 51CFM02S060706 Instrument: bna1.i

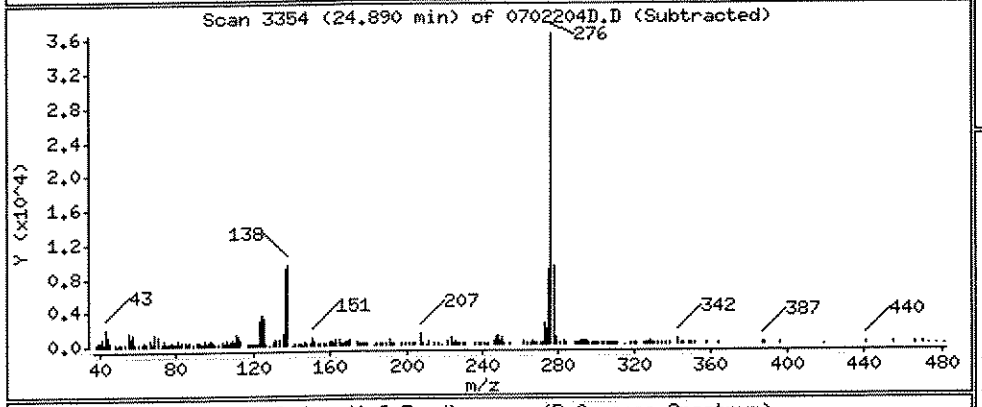
Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

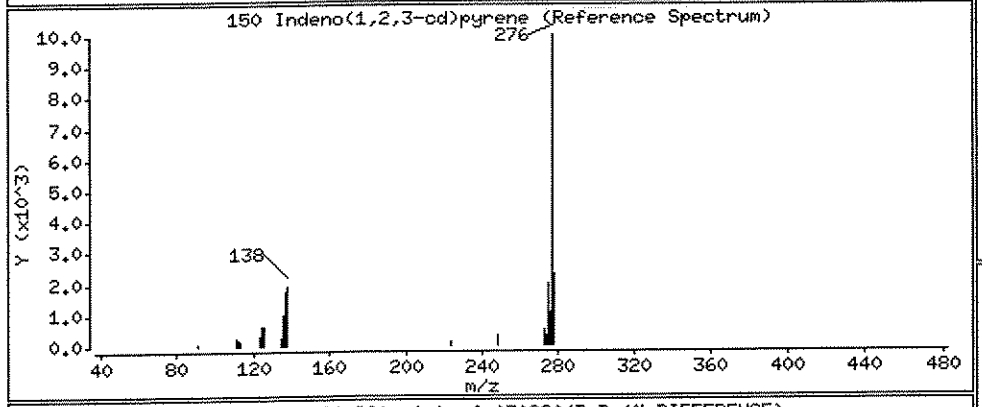
Volume Injected (uL): 0.5 Operator: SDB

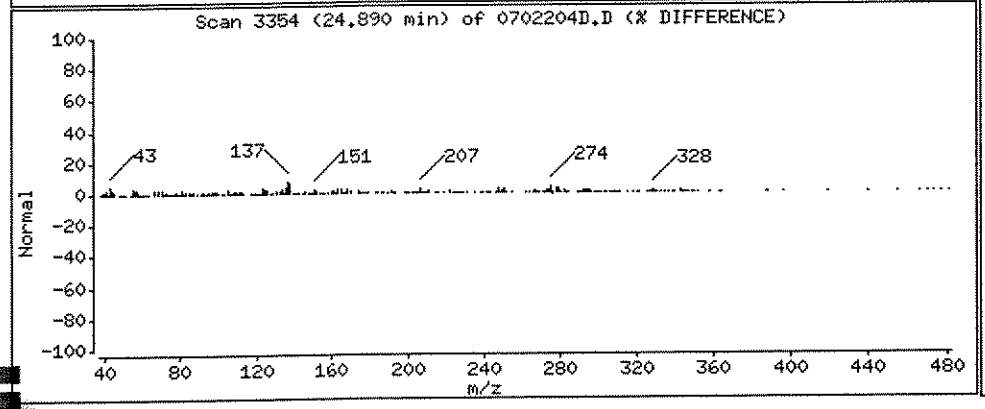
Column phase: fused silica Column diameter: 0.25

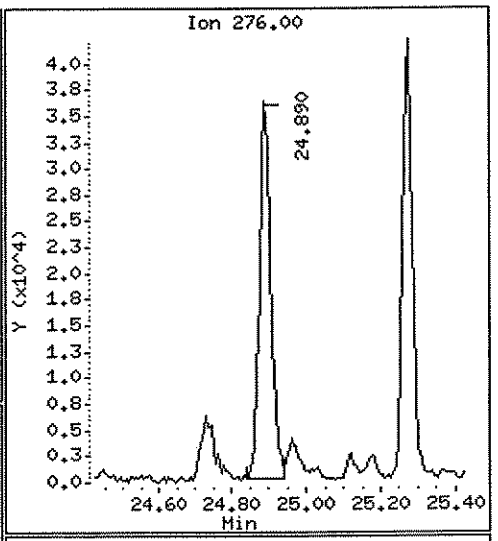
150 Indeno(1,2,3-cd)pyrene Concentration: 785.8 UG/KG

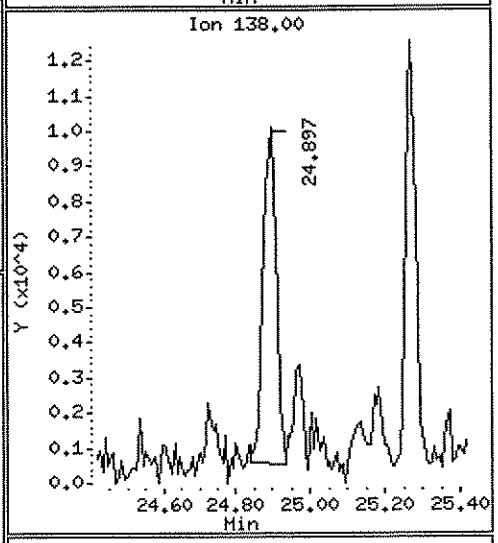


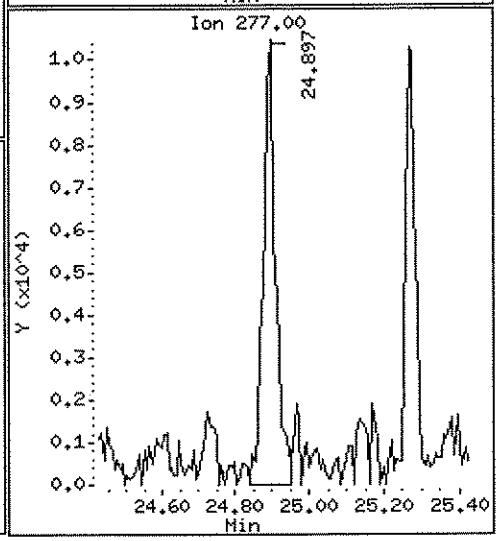












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

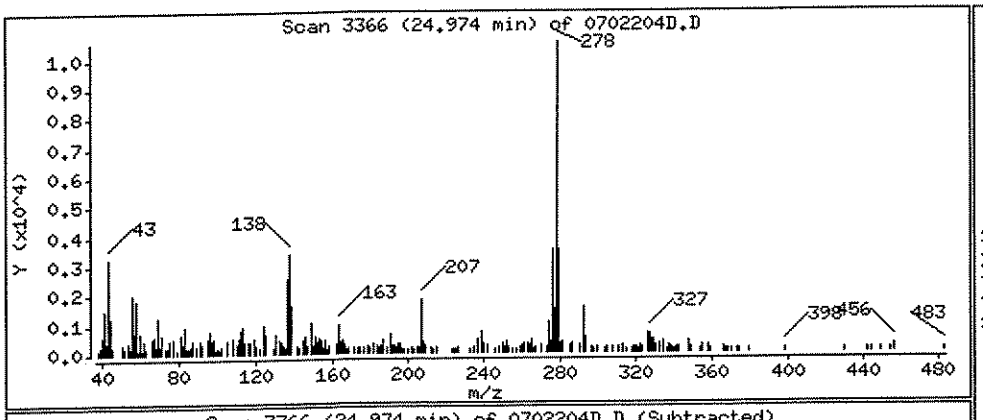
Operator: SDB

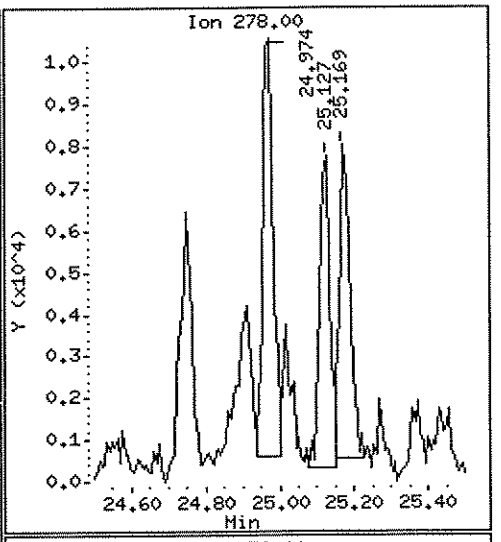
Column phase: fused silica

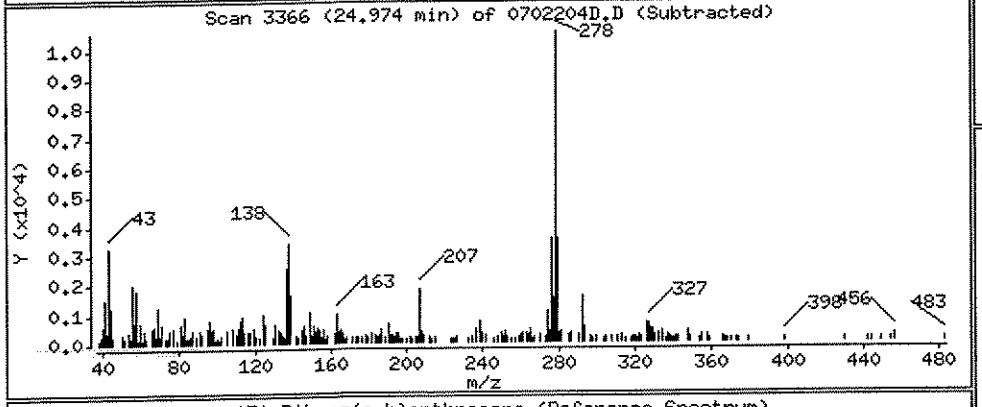
Column diameter: 0.25

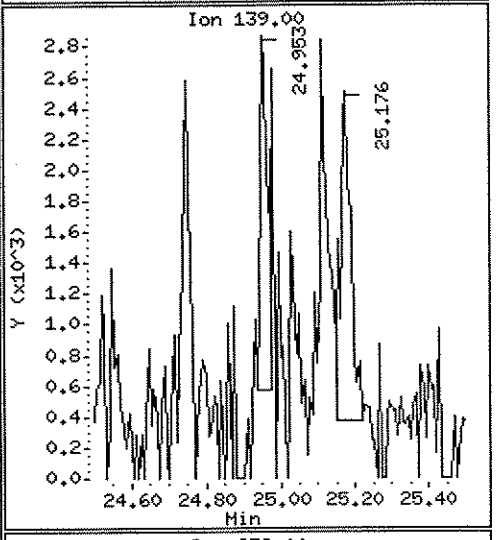
151 Dibenz(a,h)anthracene

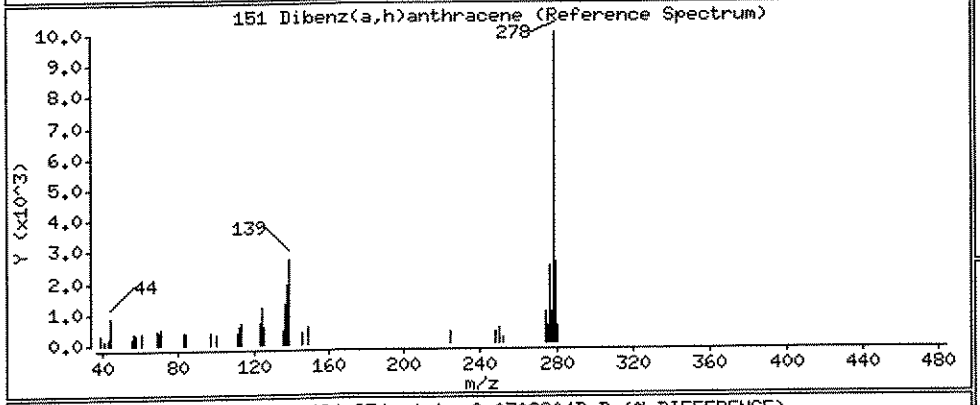
Concentration: 202.9 UG/KG

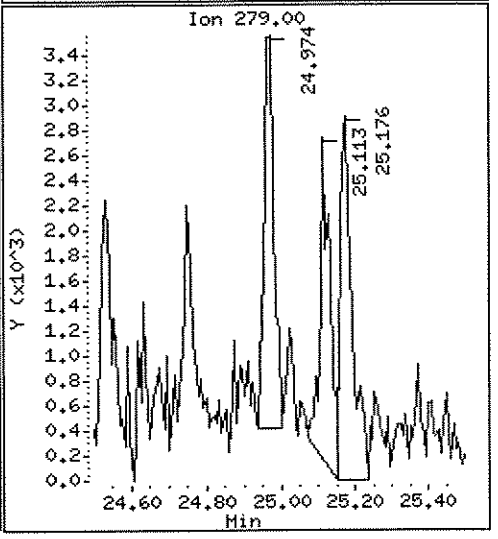


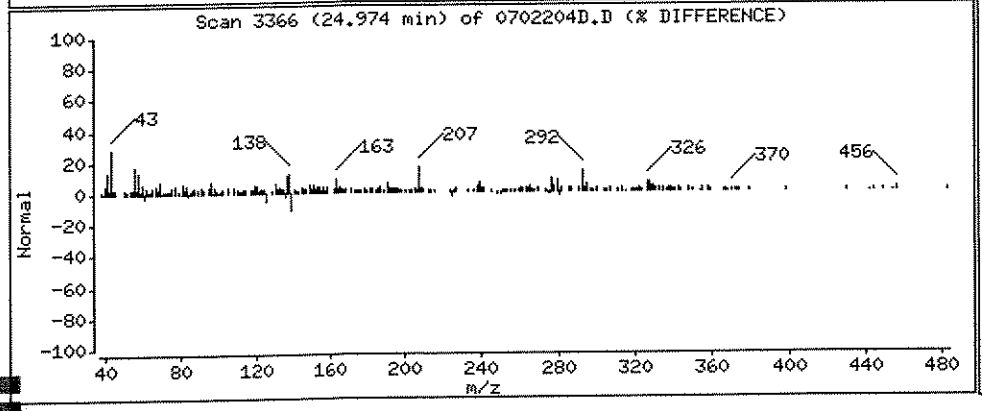












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702204D.D

Date : 11-JUL-2006 16:16

Client ID: 51CFM02S060706

Instrument: bna1.i

Sample Info: 0607022-04;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

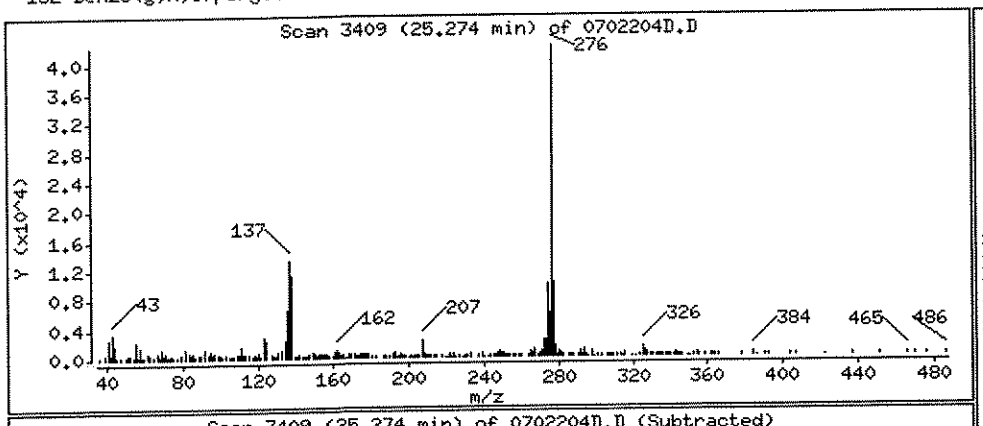
Operator: SDB

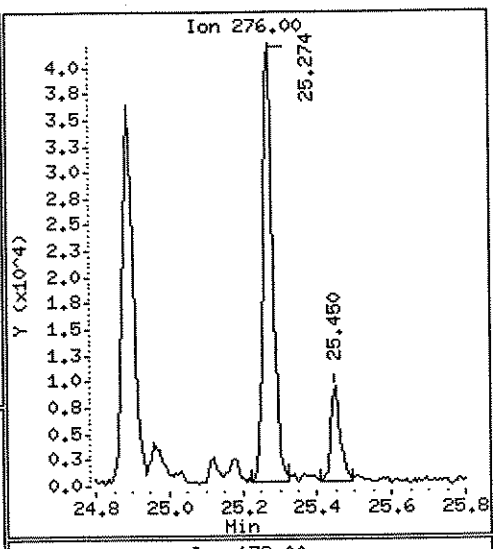
Column phase: fused silica

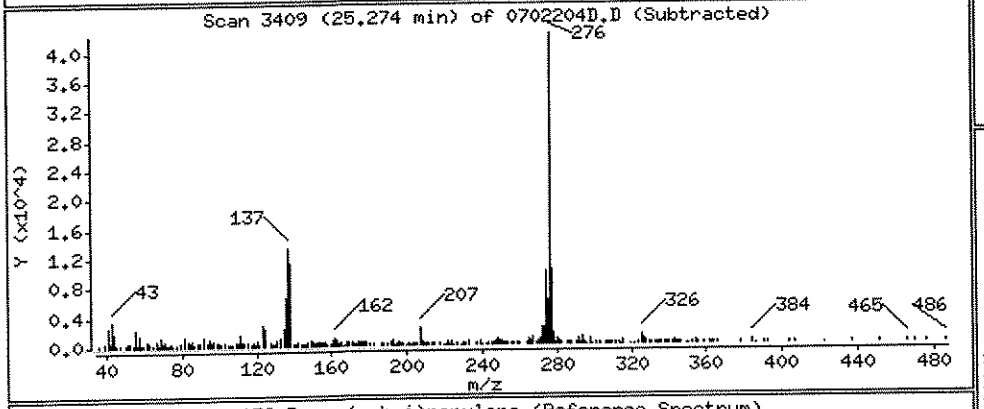
Column diameter: 0.25

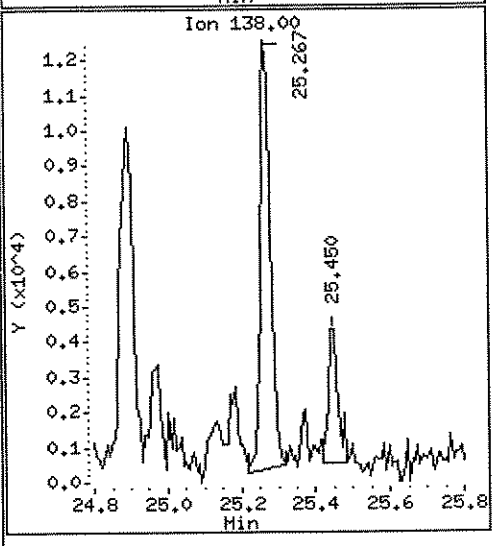
152 Benzo(g,h,i)perylene

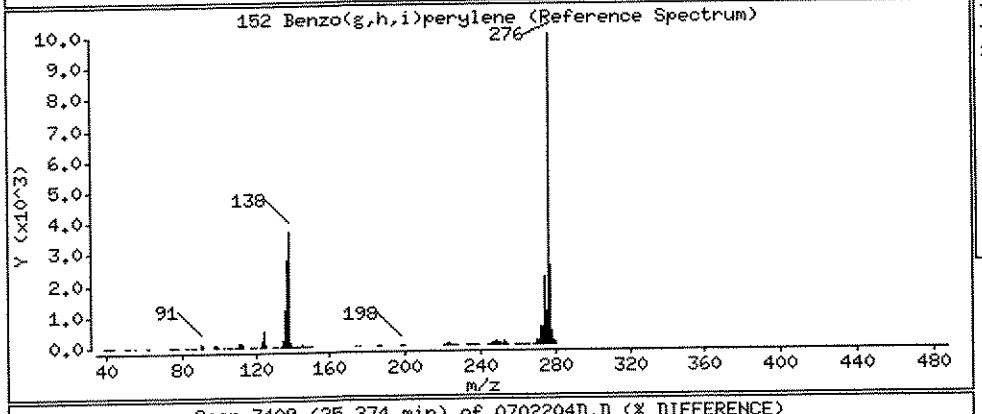
Concentration: 760.3 UG/KG

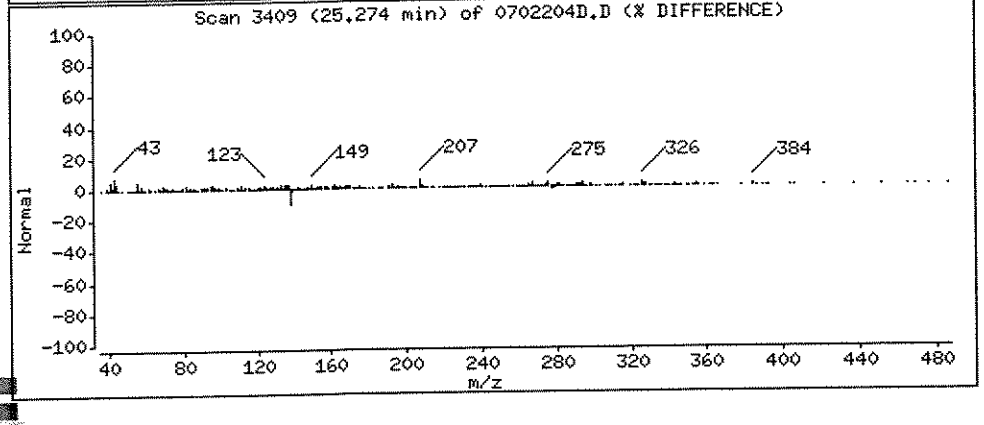












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:17

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	1800	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	2300	
56-55-3	Benzo(a)anthracene	21	170	7600	E
205-99-2	Benzo(b)fluoranthene	21	170	8800	E
207-08-9	Benzo(k)fluoranthene	21	170	5300	E
191-24-2	Benzo(g,h,i)perylene	21	170	2400	
50-32-8	Benzo(a)pyrene	21	100	7300	E
218-01-9	Chrysene	21	170	9400	E
53-70-3	Dibenz(a,h)anthracene	21	100	820	
206-44-0	Fluoranthene	21	170	13000	E
86-73-7	Fluorene	21	170	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	2800	
91-57-6	2-Methylnaphthalene	21	170	540	
90-12-0	1-Methylnaphthalene	52	170	350	
91-20-3	Naphthalene	21	170	240	
85-01-8	Phenanthrene	21	170	12000	E
129-00-0	Pyrene	21	170	18000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 10-JUL-2006 16:17
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.900	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.271	4.276	(1.000)	376135	40.0000	
* 31 Naphthalene-d8	136	5.275	5.287	(1.000)	1244549	40.0000	
$ 32 Nitrobenzene-d5	82	4.704	4.709	(0.892)	803923	59.1737	2057
47 Naphthalene	128	5.296	5.307	(1.004)	209474	6.76961	235.3
51 2-Methylnaphthalene	141	6.055	6.062	(1.148)	274550	15.4412	536.7
52 1-Methylnaphthalene	141	6.192	6.203	(1.174)	170939	10.0711	350.0
* 65 Acenaphthene-d10	164	7.711	7.719	(1.000)	622642	40.0000	
$ 70 2-Fluorobiphenyl	172	6.614	6.617	(0.858)	1097950	55.4117	1926
76 Acenaphthene	153	7.766	7.781	(1.007)	931005	51.8097	1801
84 Fluorene	166	8.809	8.814	(1.142)	907085	47.1958	1640
* 97 Phenanthrene-d10	188	11.034	11.020	(1.000)	710268	40.0000	
106 Phenanthrene	178	11.131	11.082	(1.009)	7048759	348.065	12100(A)
107 Anthracene	178	11.208	11.192	(1.016)	1313379	65.6908	2283

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Report Date: 11-Jul-2006 13:57

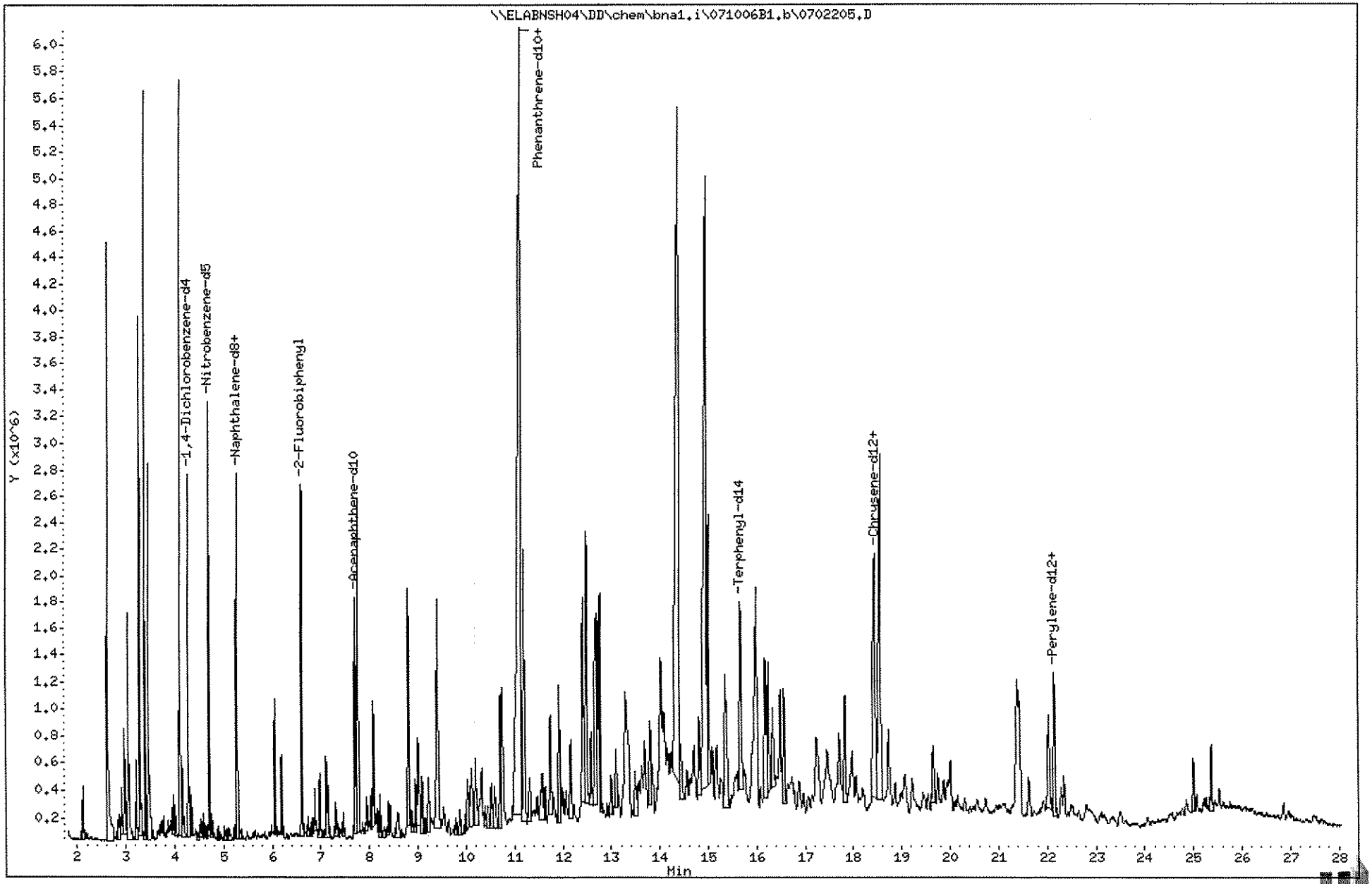
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)	
110 Fluoranthene	202	14.394	14.296	(1.305)	7606398	379.379	13190(A)	DLA
* 124 Chrysene-d12	240	18.477	18.441	(1.000)	299270	40.0000		
126 Pyrene	202	14.967	14.878	(0.810)	6328526	529.504	18400(A)	DLA
$ 127 Terphenyl-d14	244	15.670	15.647	(0.848)	719509	95.2114	3309	
130 Benzo(a)anthracene	228	18.448	18.400	(0.998)	2103881	218.188	7584(A)	DLA
131 Chrysene	228	18.567	18.510	(1.005)	2372504	269.388	9364(A)	DLA
* 145 Perylene-d12	264	22.290	22.273	(1.000)	160313	40.0000		
147 Benzo(b)fluoranthene	252	21.395	21.352	(0.960)	1243502	251.806	8752(AM)	DLA
148 Benzo(k)fluoranthene	252	21.438	21.421	(0.962)	779255	152.093	5286(AM)	DLA
149 Benzo(a)pyrene	252	22.156	22.121	(0.994)	892570	209.605	7286(A)	DLA
150 Indeno(1,2,3-cd)pyrene	276	25.005	24.990	(1.122)	288661	79.4520	2762	
151 Dibenz(a,h)anthracene	278	25.068	25.065	(1.125)	86441	23.6334	821.5	
152 Benzo(g,h,i)perylene	276	25.373	25.361	(1.138)	256558	68.0475	2365	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D
Date : 10-JUL-2006 16:17
Client ID: 51CFM03S060706
Instrument: bna1.i
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000108



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

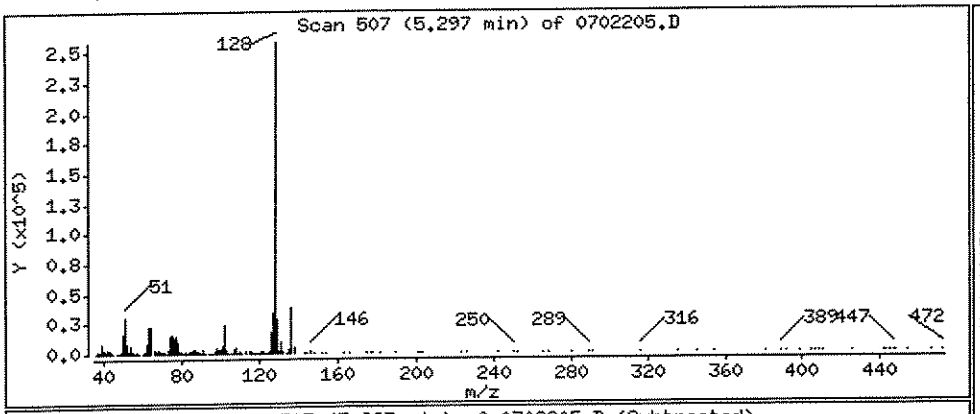
Operator: SDB

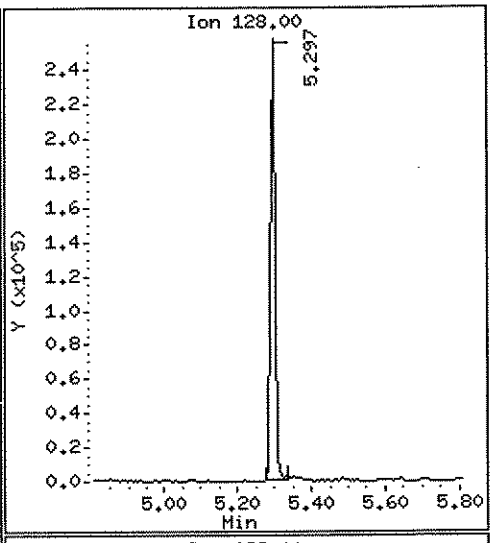
Column phase: fused silica

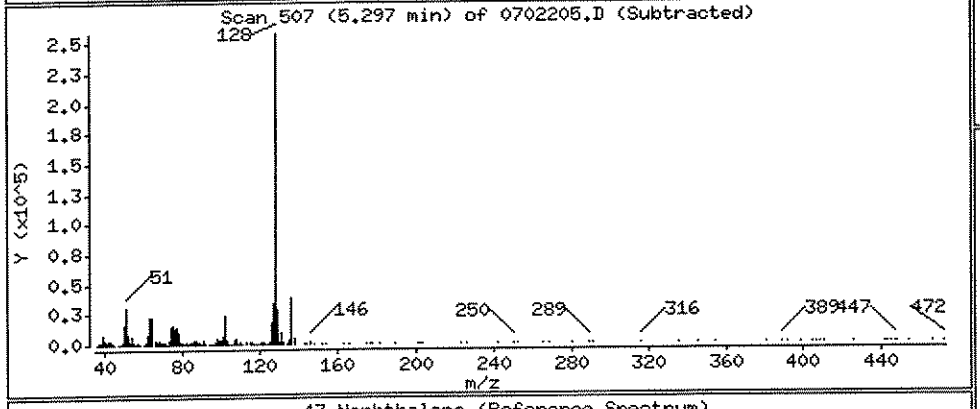
Column diameter: 0.25

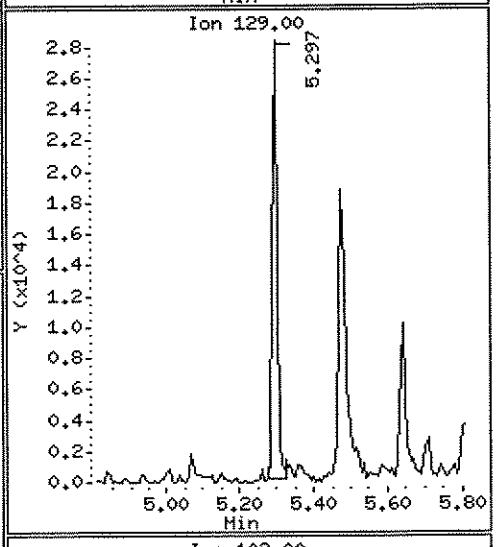
47 Naphthalene

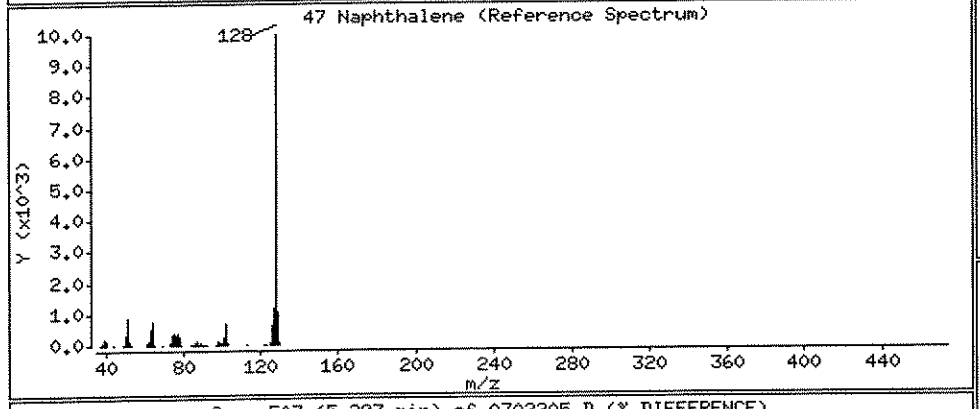
Concentration: 235.3 UG/KG

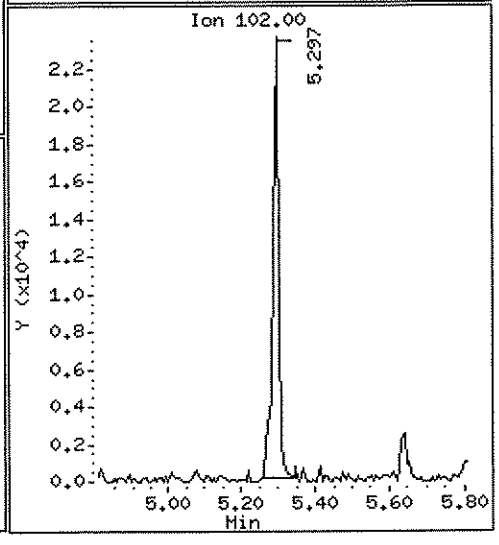


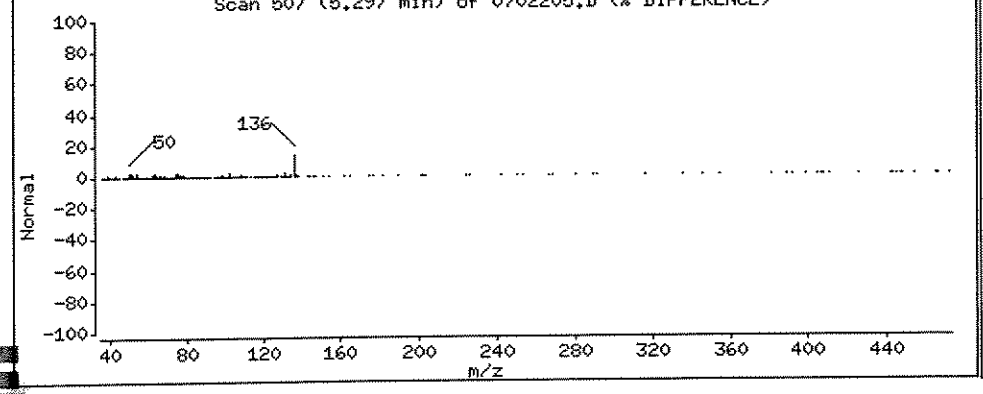












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

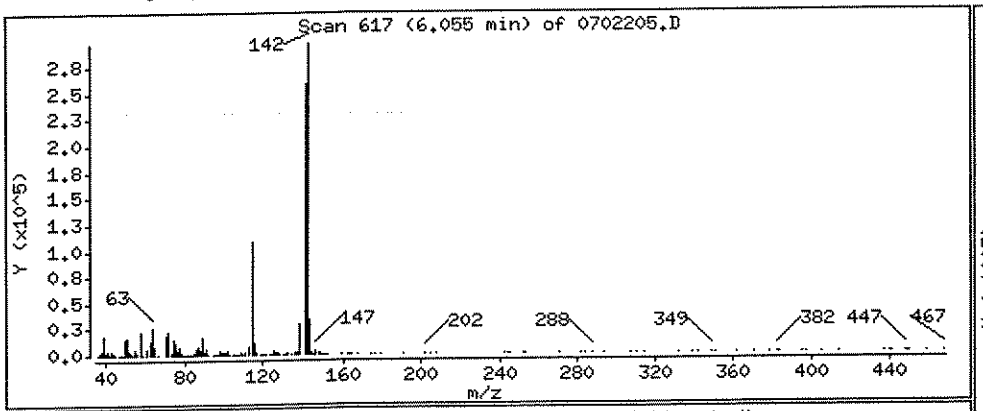
Operator: SDB

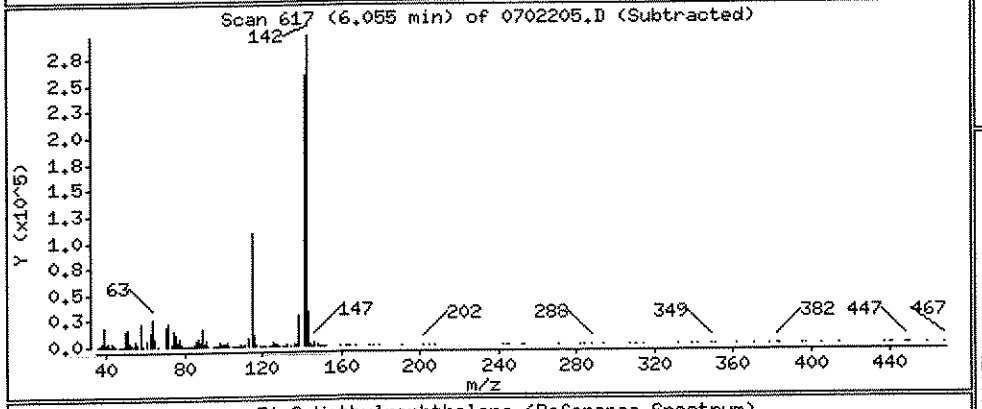
Column phase: fused silica

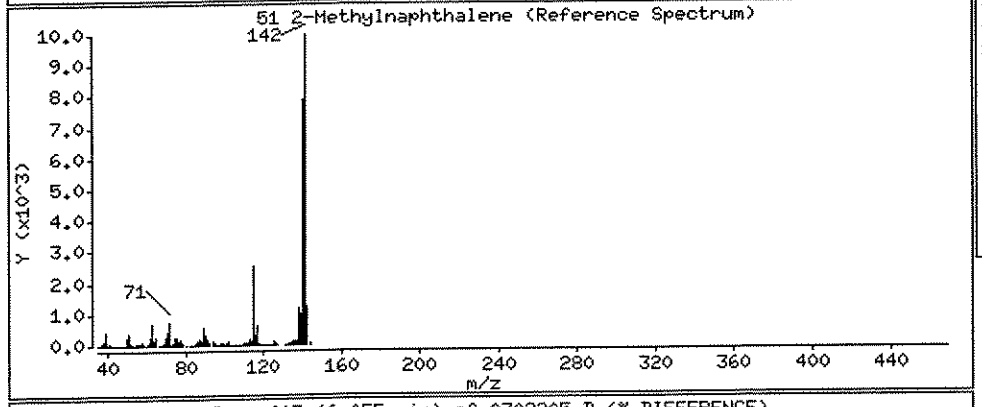
Column diameter: 0.25

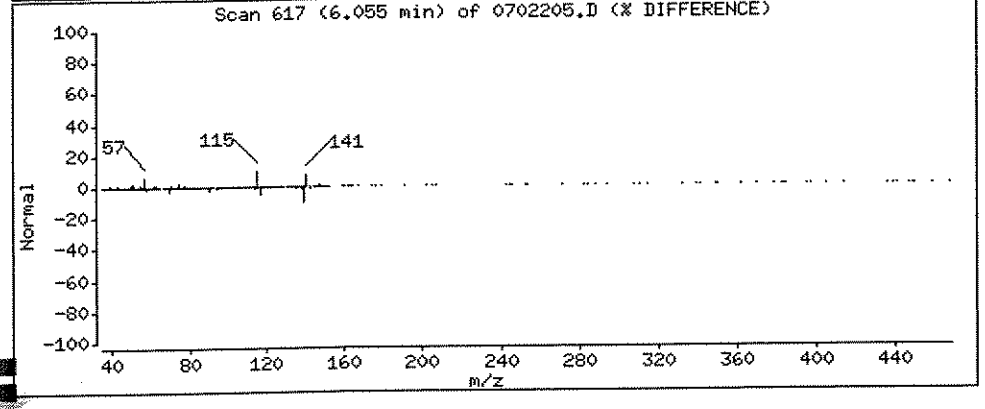
51 2-Methylnaphthalene

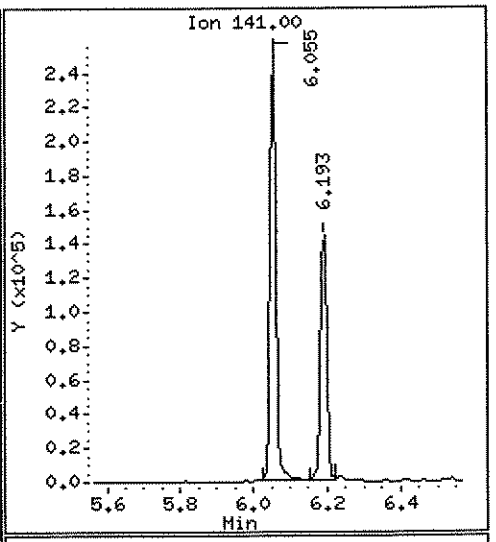
Concentration: 536.7 UG/KG

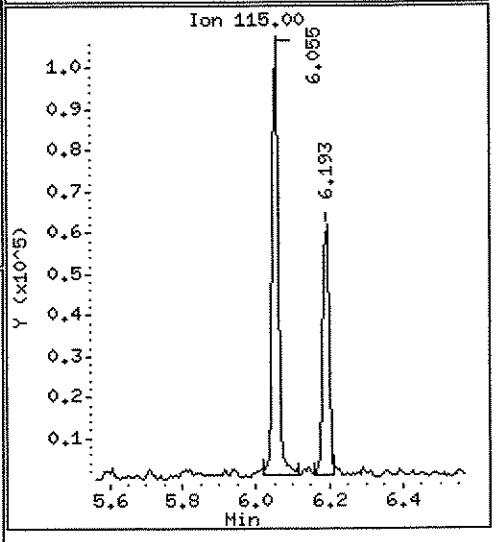












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

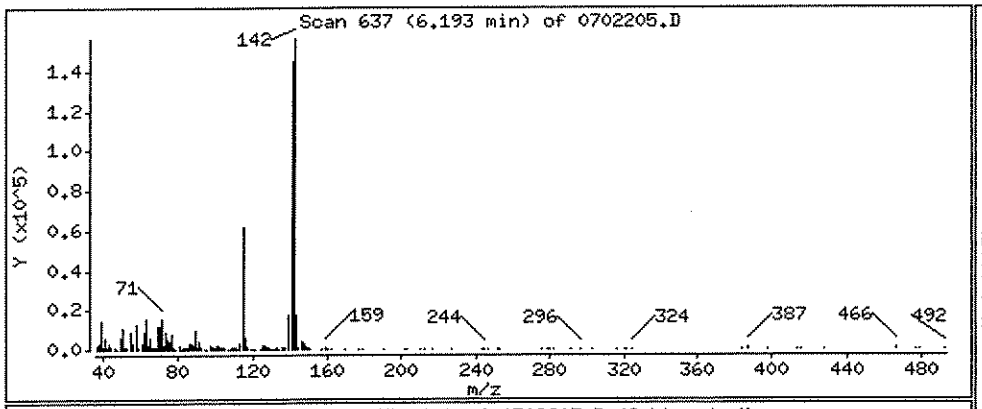
Client ID: 51CFM03S060706 Instrument: bna1.i

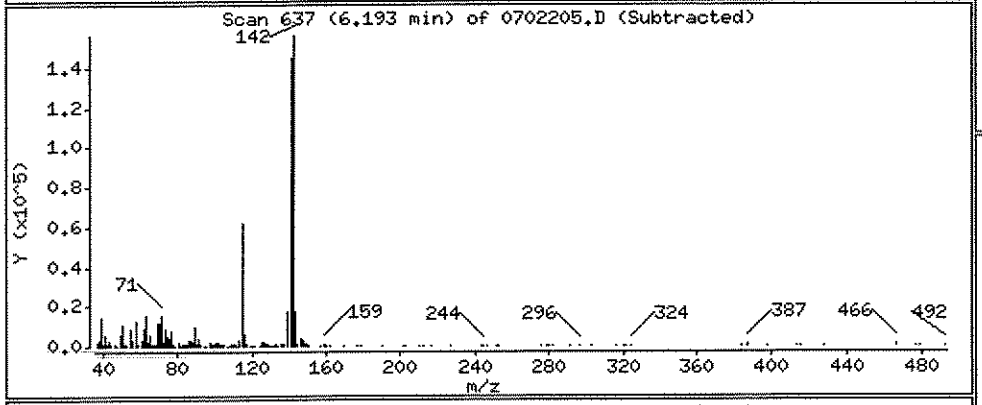
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

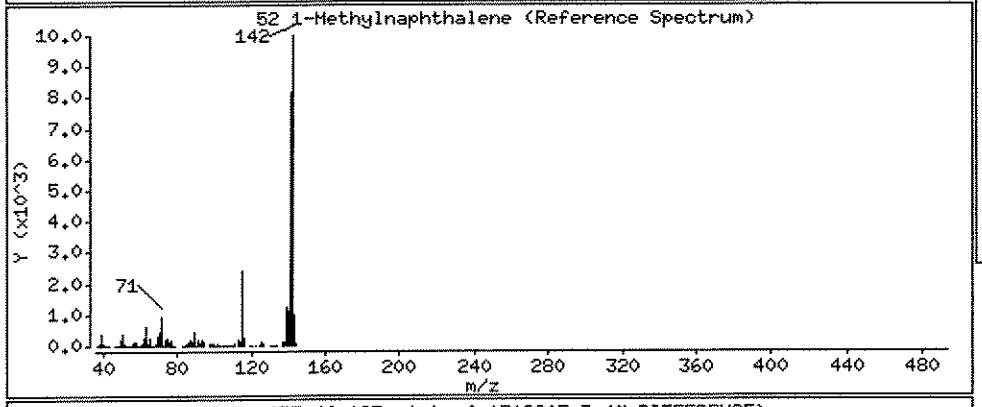
Volume Injected (uL): 0.5 Operator: SDB

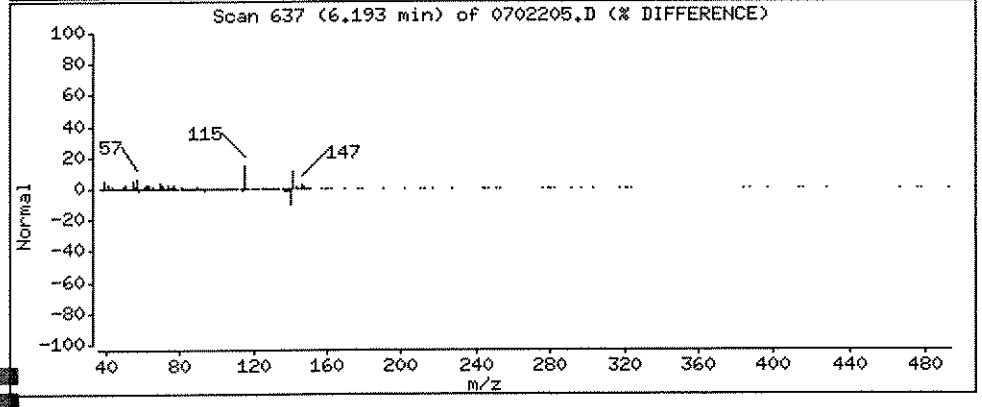
Column phase: fused silica Column diameter: 0.25

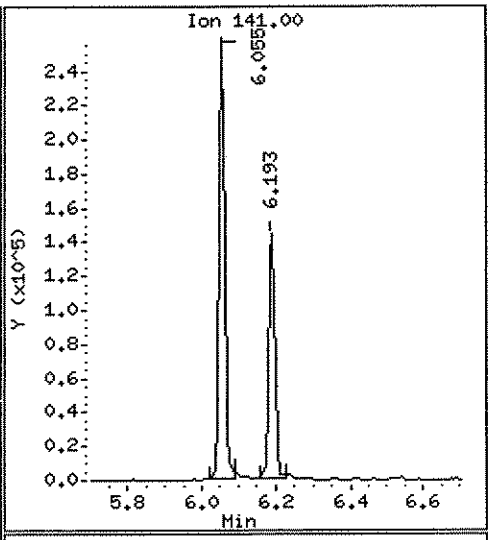
52 1-Methylnaphthalene Concentration: 350.0 UG/KG

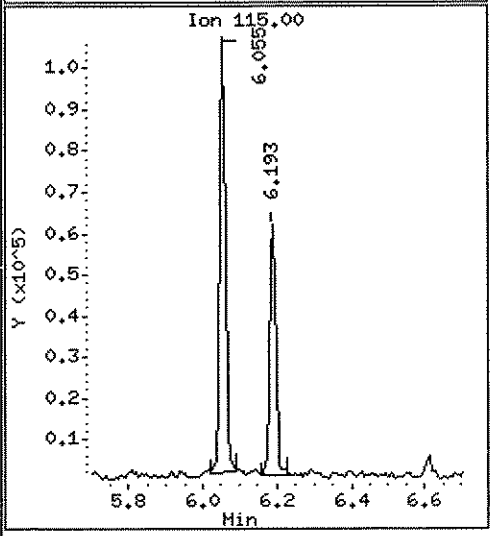












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

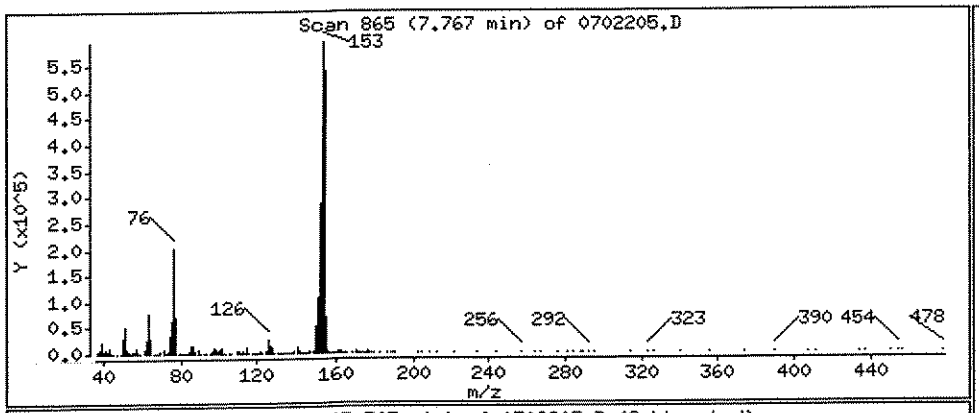
Client ID: 51CFM03S060706 Instrument: bna1.i

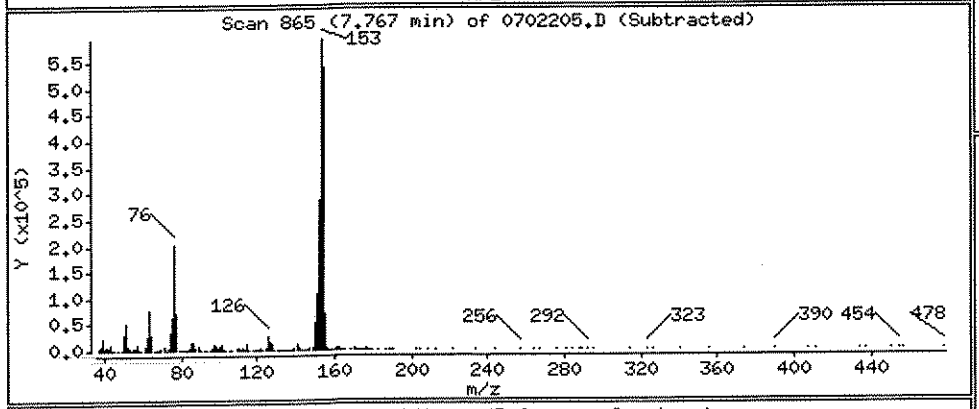
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

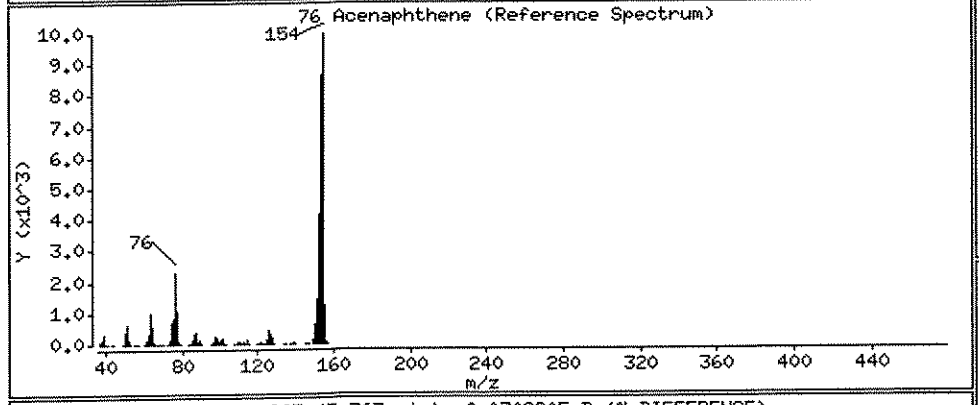
Volume Injected (uL): 0.5 Operator: SDB

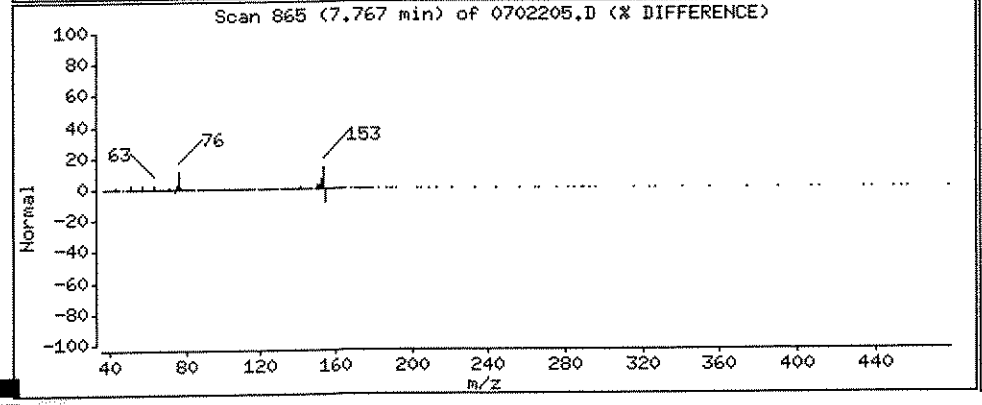
Column phase: fused silica Column diameter: 0.25

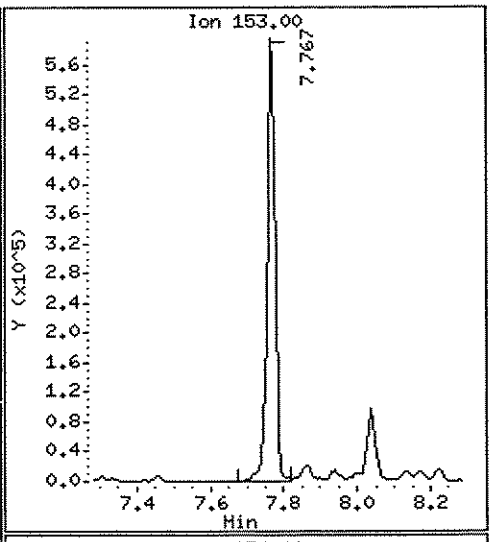
76 Acenaphthene Concentration: 1801 UG/KG

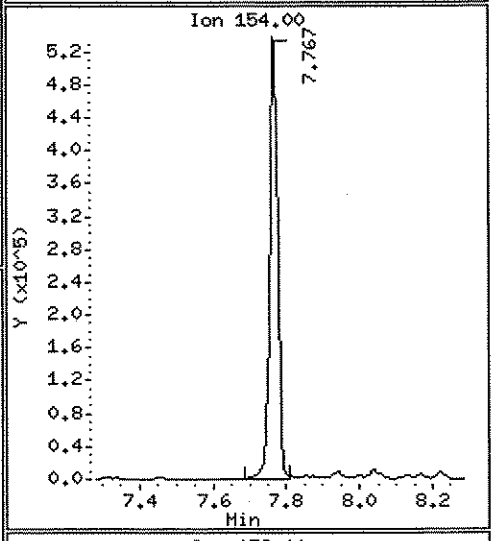


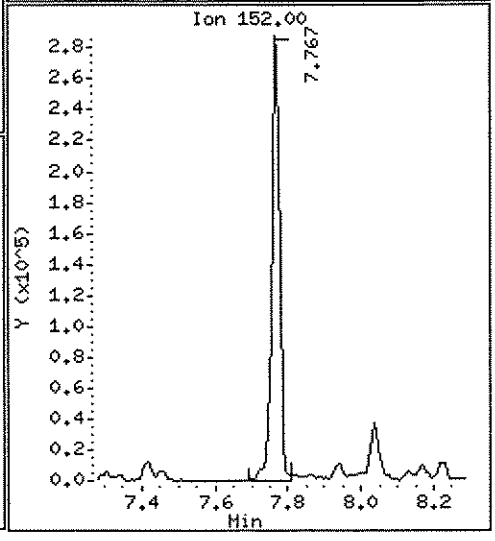












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

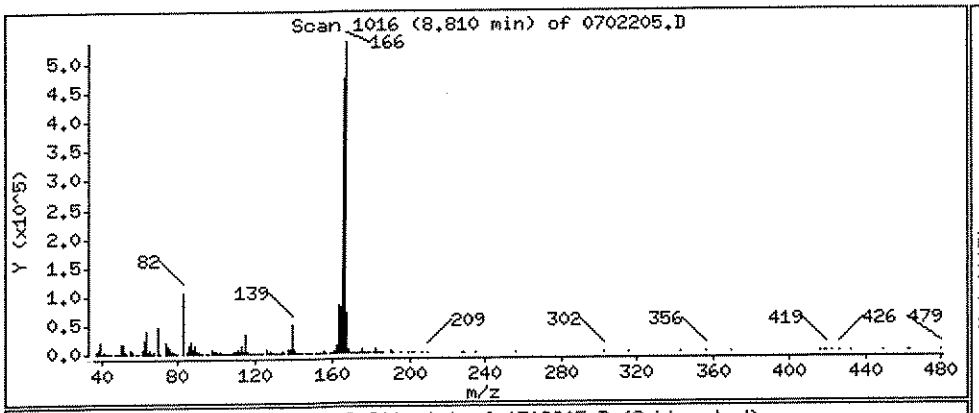
Operator: SDB

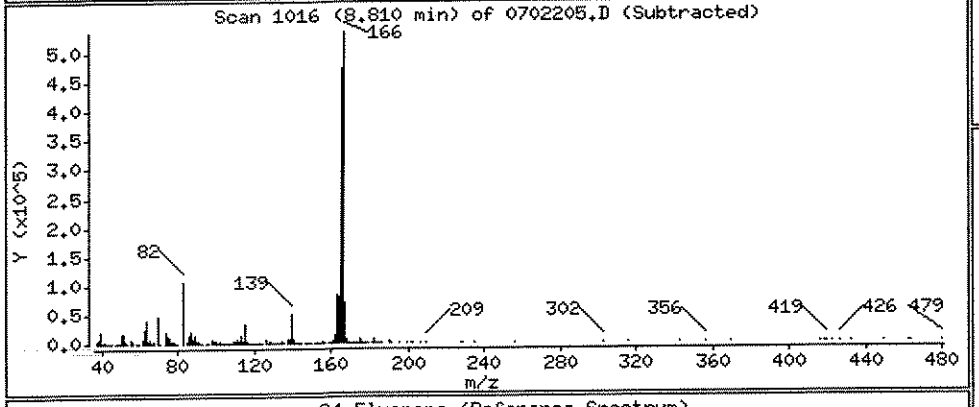
Column phase: fused silica

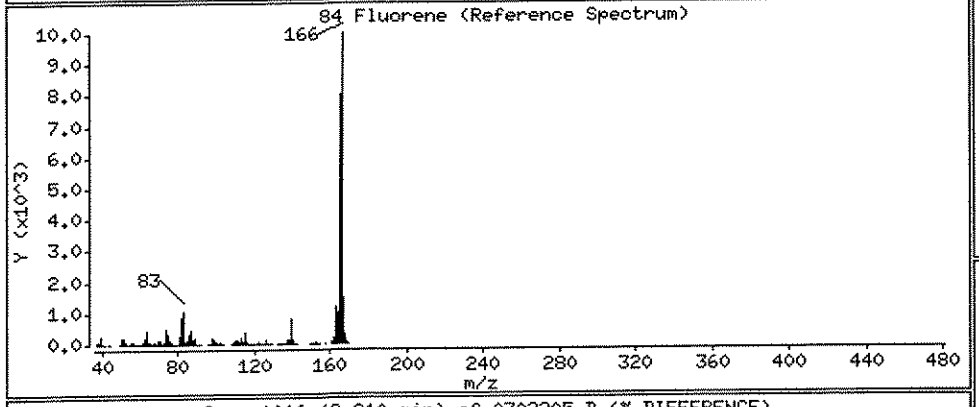
Column diameter: 0.25

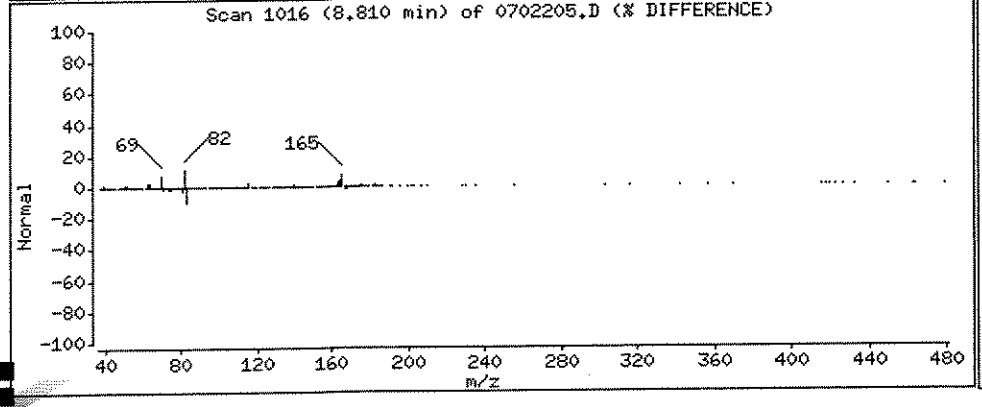
84 Fluorene

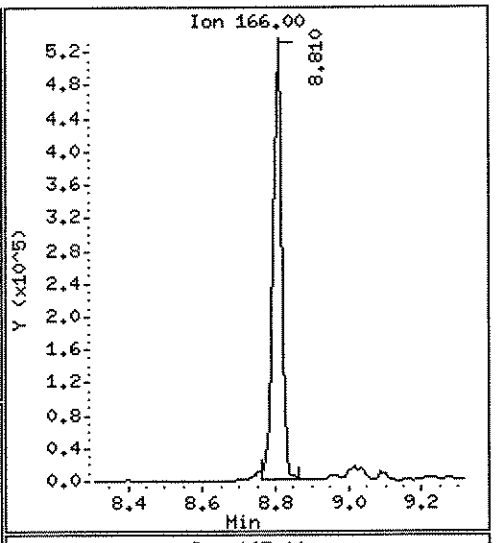
Concentration: 1640 UG/KG

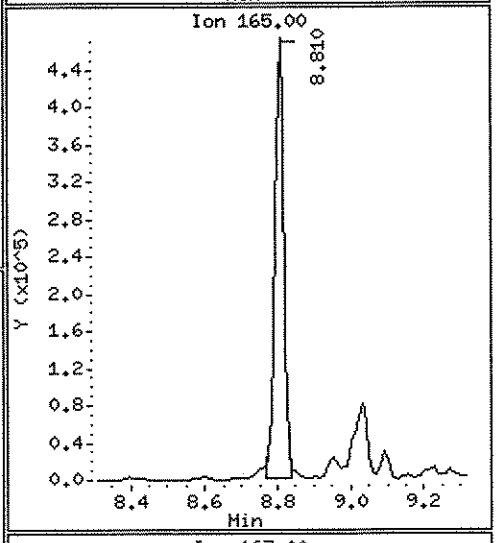


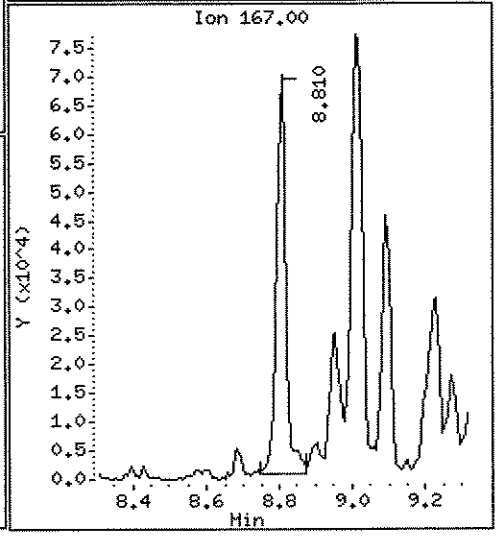












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000113

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

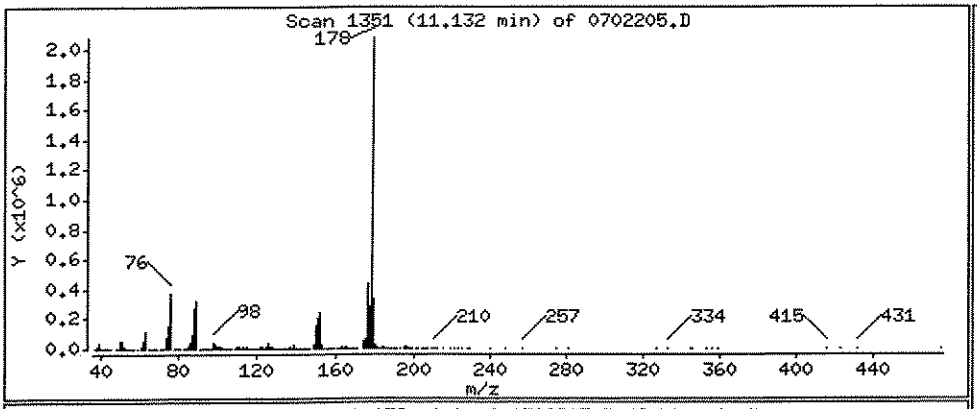
Client ID: 51CFM03S060706 Instrument: bna1.i

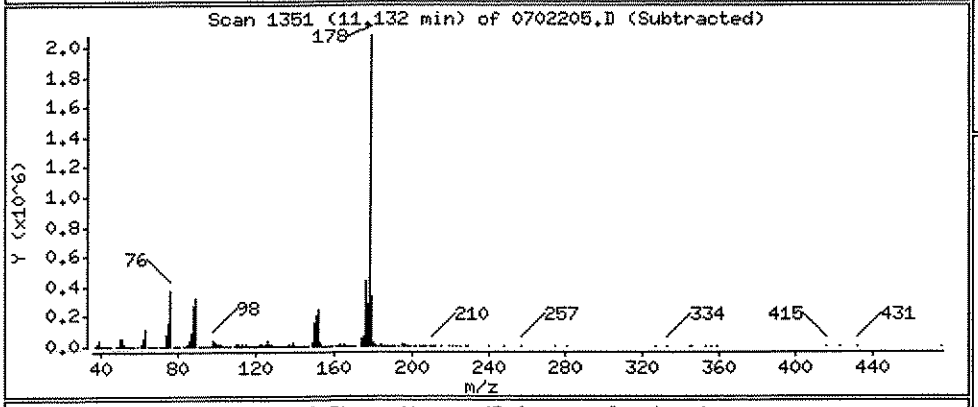
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

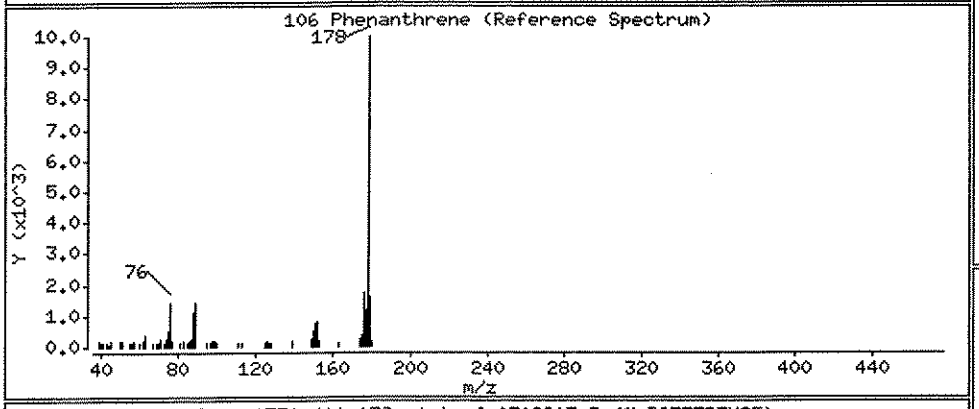
Volume Injected (uL): 0.5 Operator: SDB

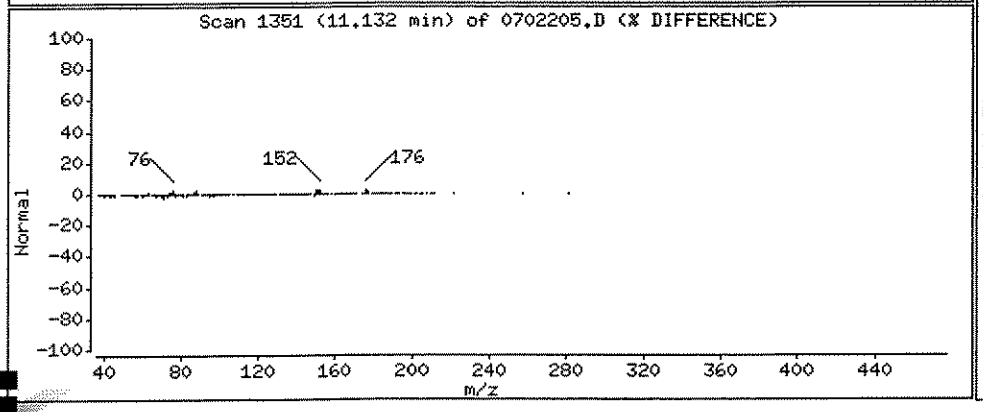
Column phase: fused silica Column diameter: 0.25

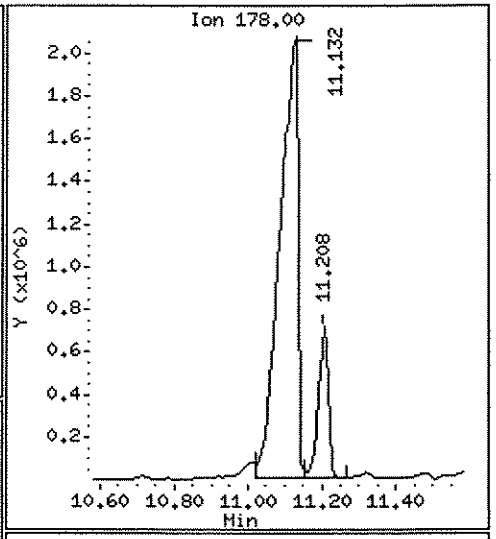
106 Phenanthrene Concentration: 12100 UG/KG

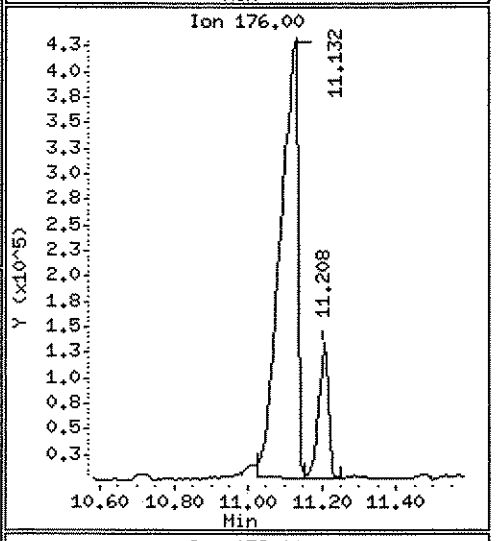


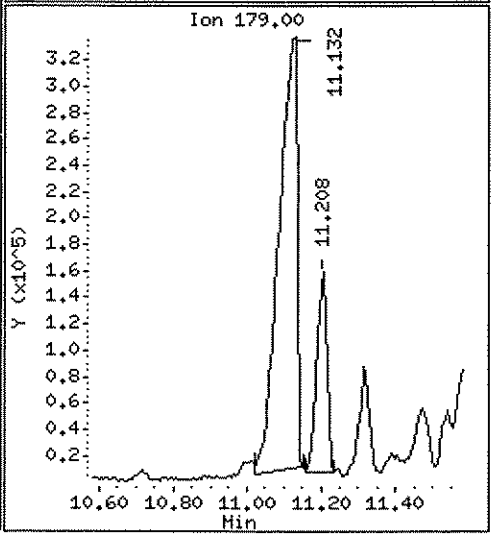












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

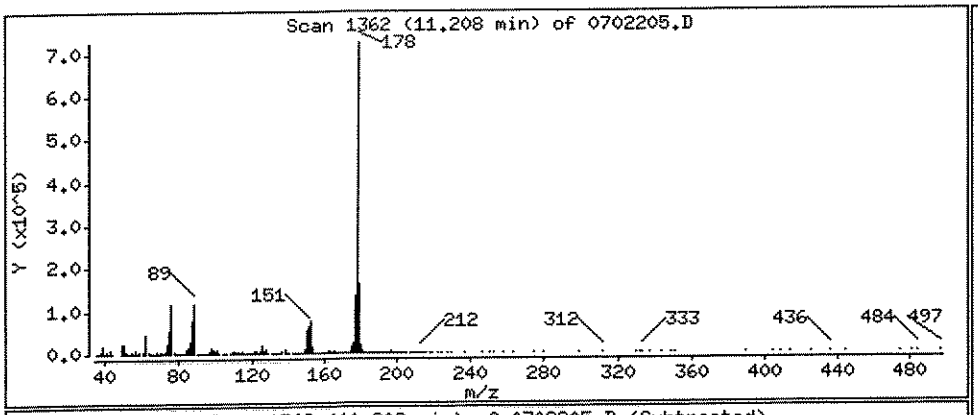
Operator: SDB

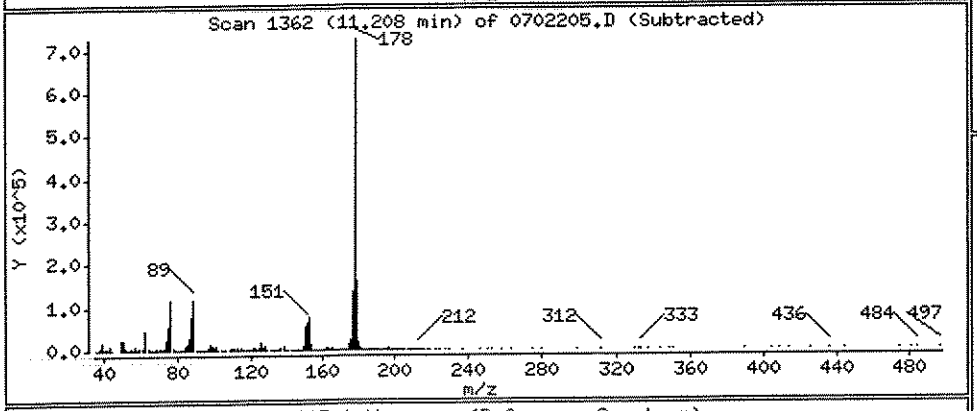
Column phase: fused silica

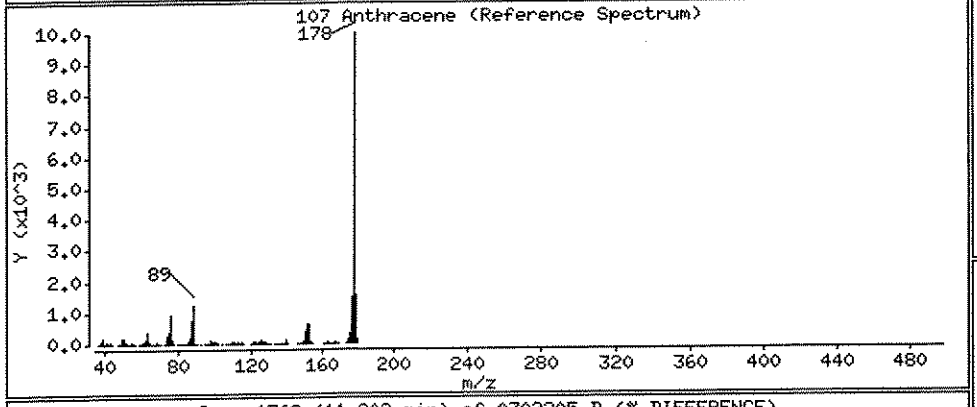
Column diameter: 0.25

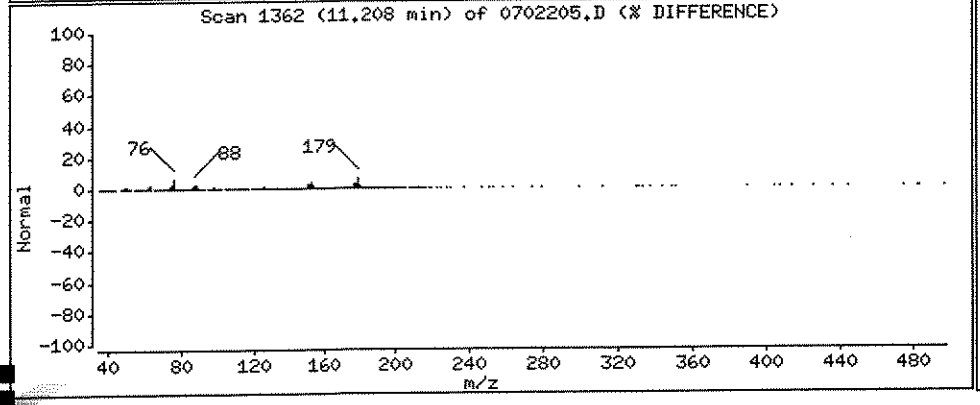
107 Anthracene

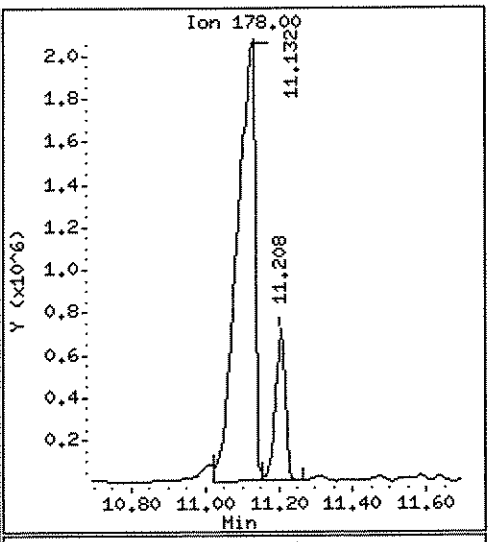
Concentration: 2283 UG/KG

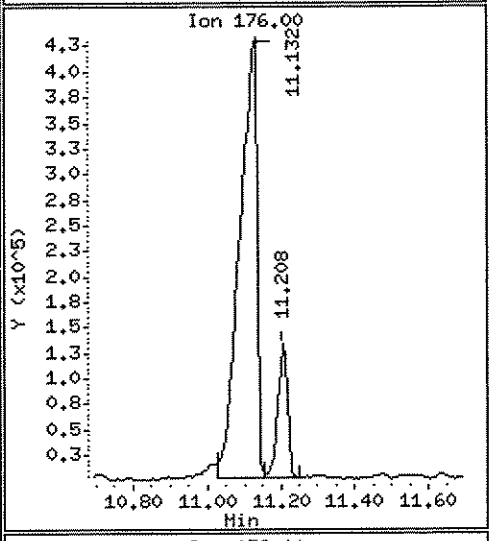


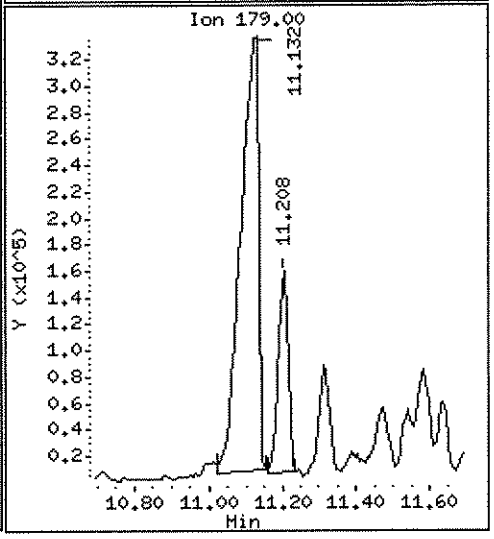












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

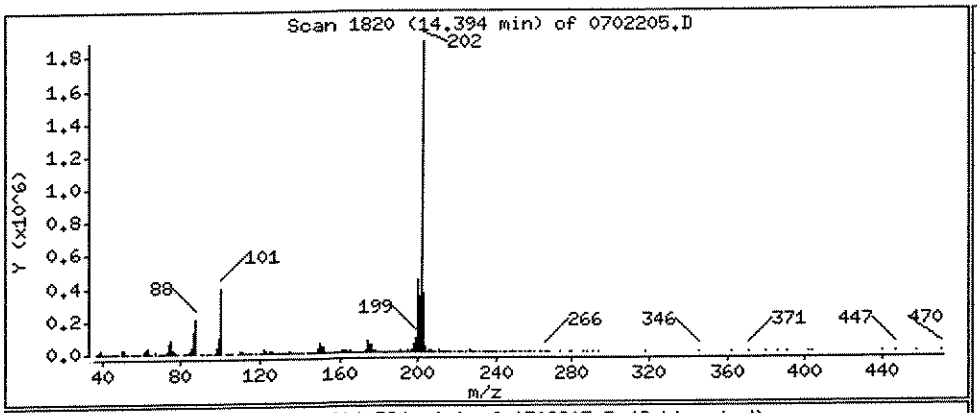
Client ID: 51CFM03S060706 Instrument: bna1.i

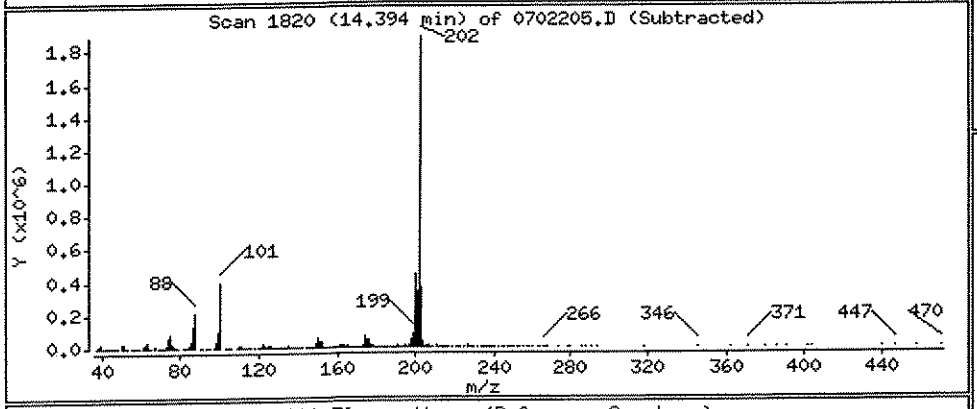
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

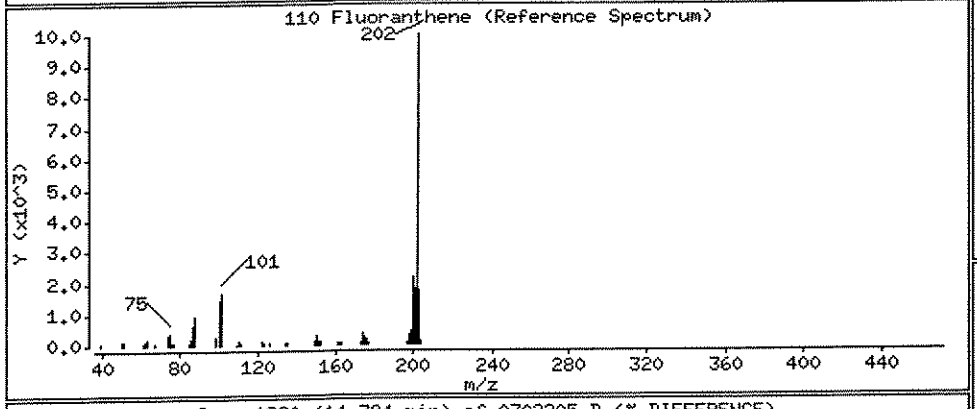
Volume Injected (uL): 0.5 Operator: SDB

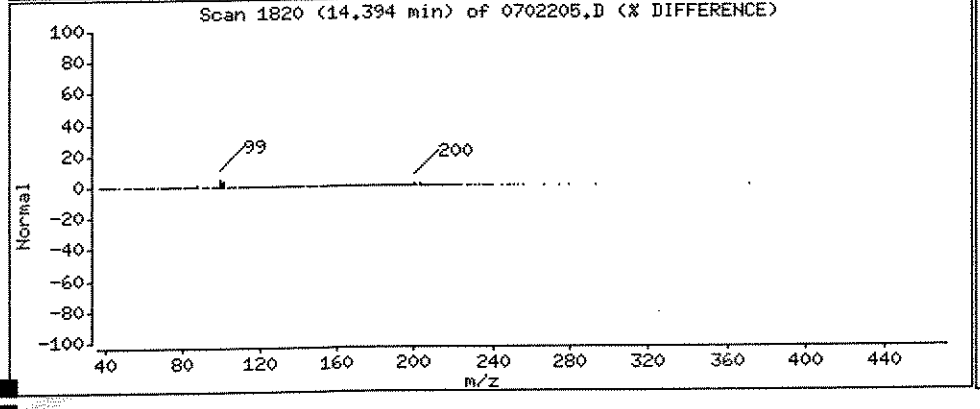
Column phase: fused silica Column diameter: 0.25

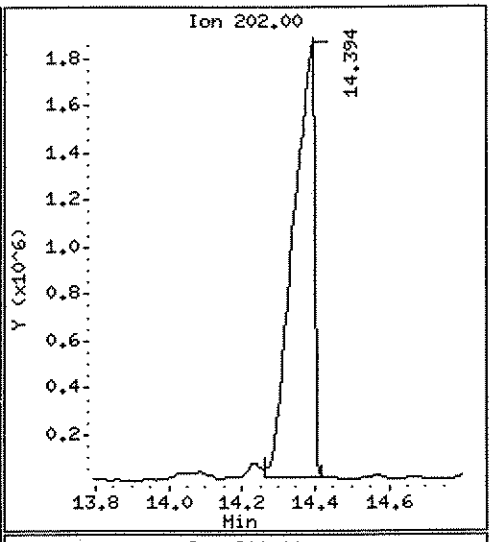
110 Fluoranthene Concentration: 13190 UG/KG

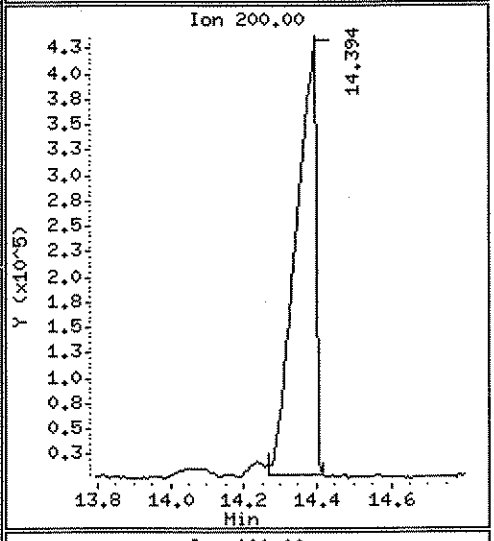


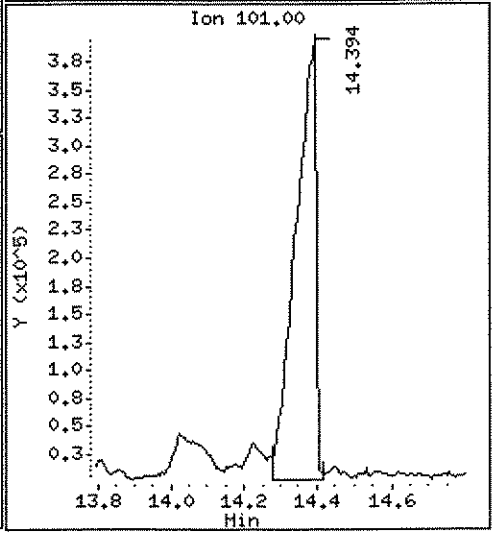












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

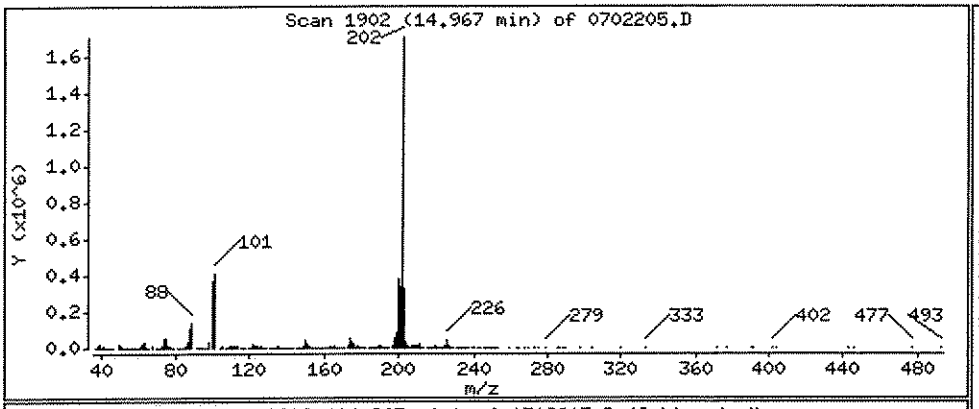
Client ID: 51CFM03S060706 Instrument: bna1.i

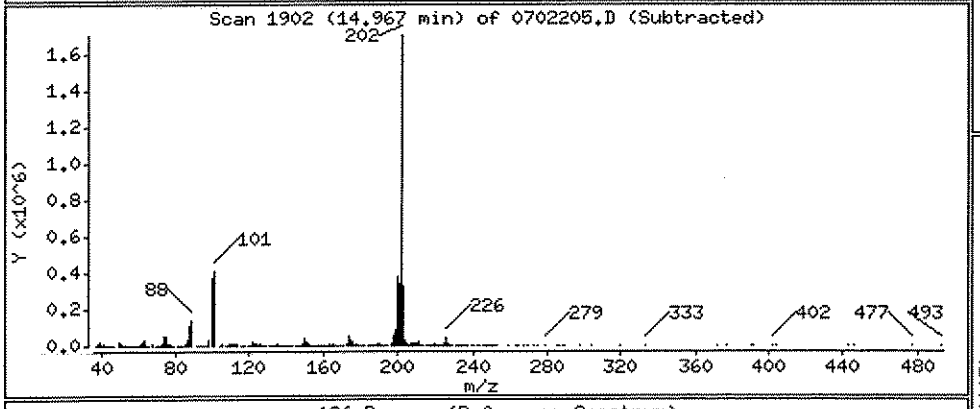
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

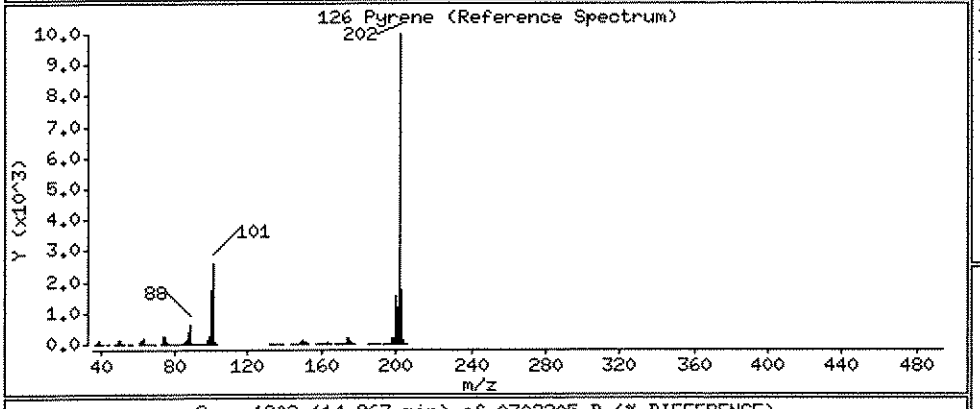
Volume Injected (uL): 0.5 Operator: SDB

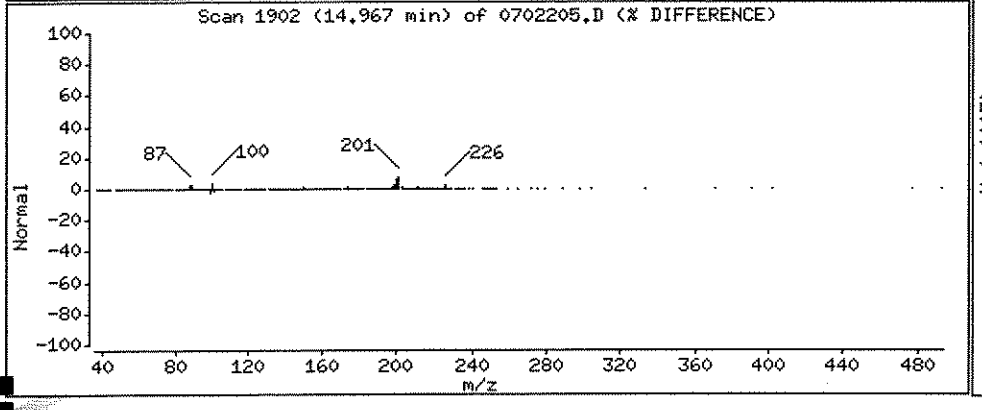
Column phase: fused silica Column diameter: 0.25

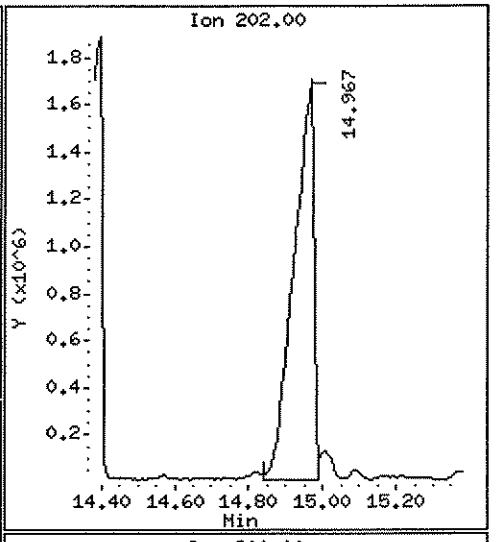
126 Pyrene Concentration: 18400 UG/KG

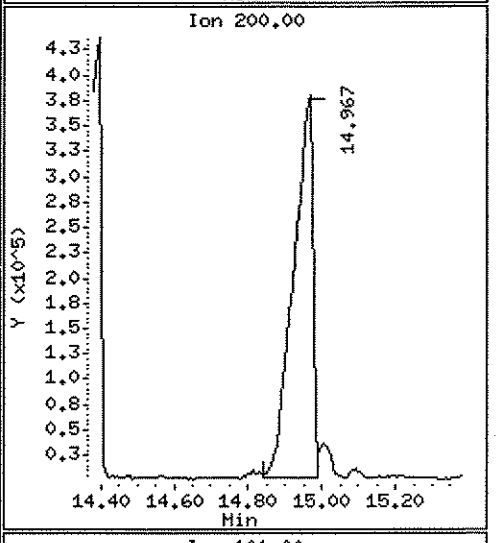


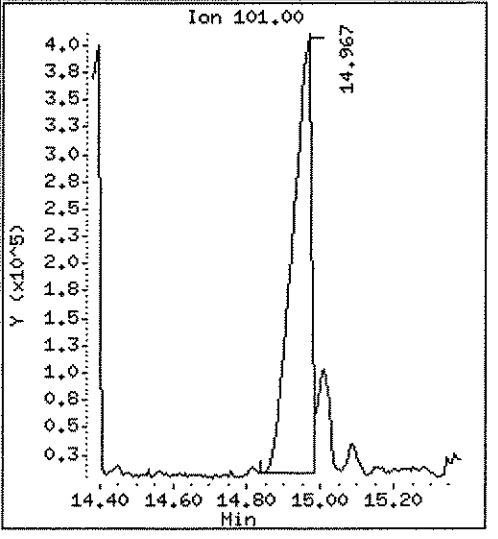












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

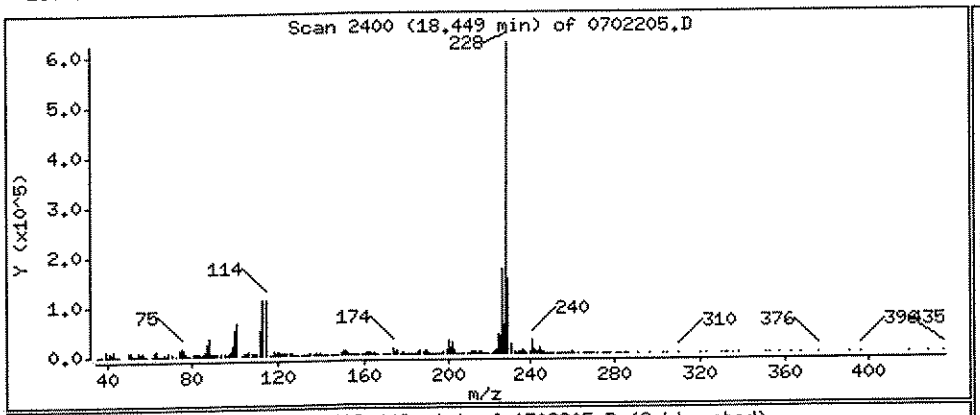
Operator: SDB

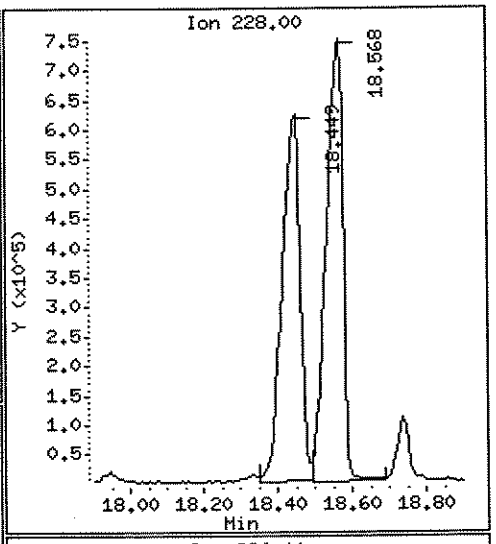
Column phase: fused silica

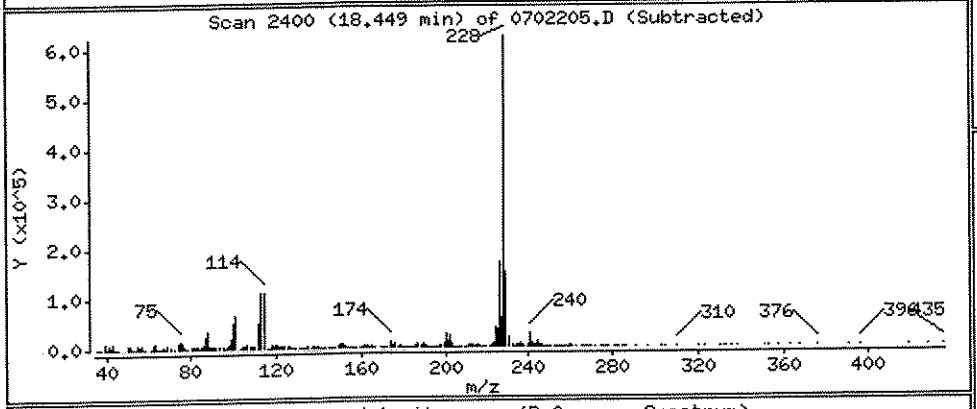
Column diameter: 0.25

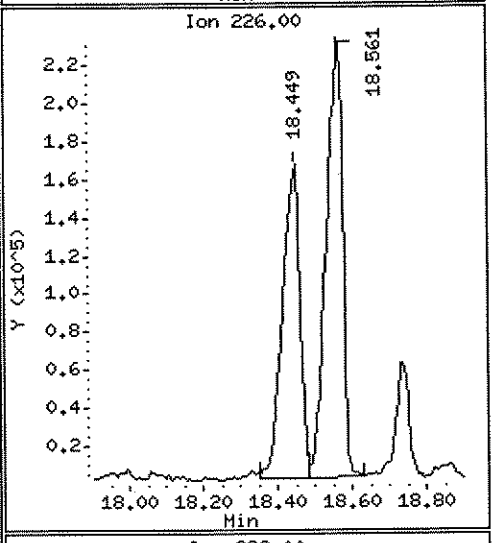
130 Benzo(a)anthracene

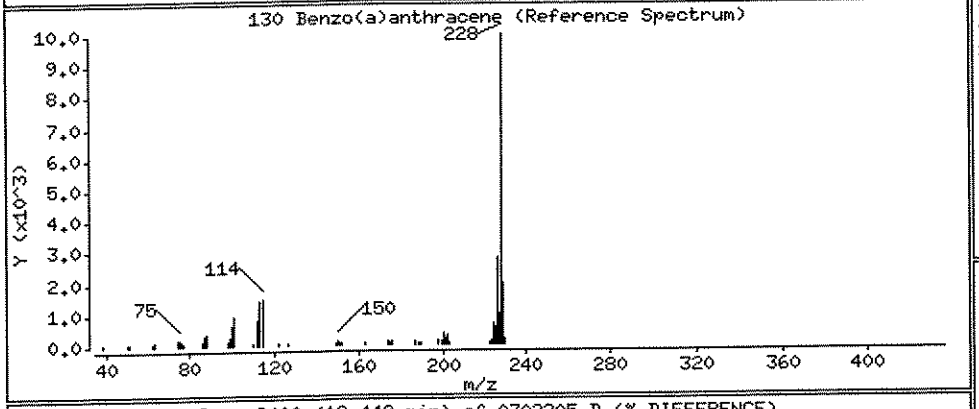
Concentration: 7584 UG/KG

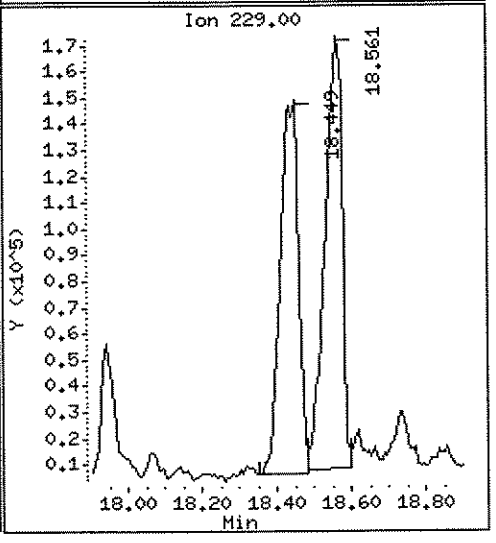


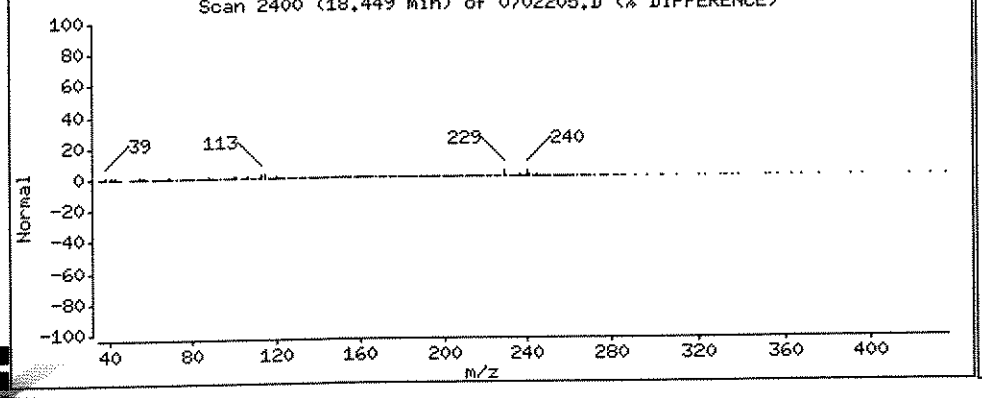












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

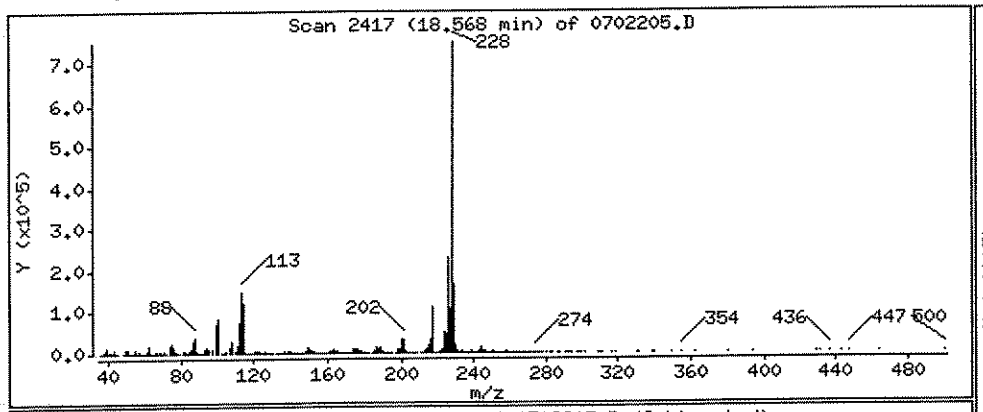
Client ID: 51CFM03S060706 Instrument: bna1.i

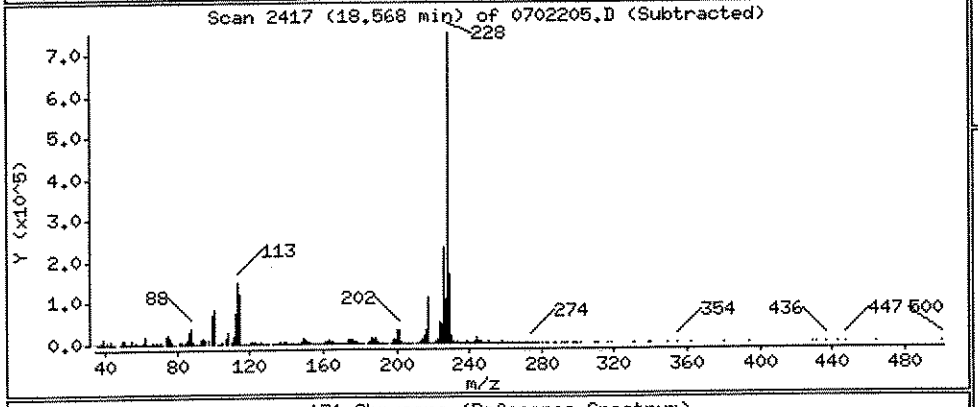
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

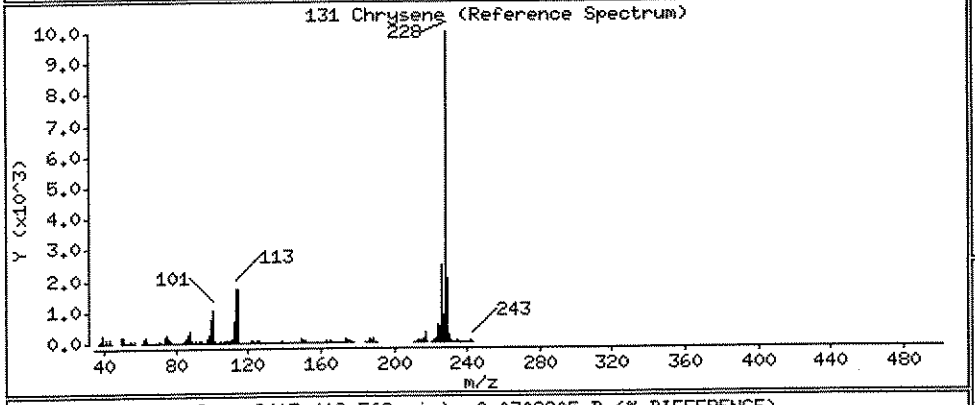
Volume Injected (uL): 0.5 Operator: SDB

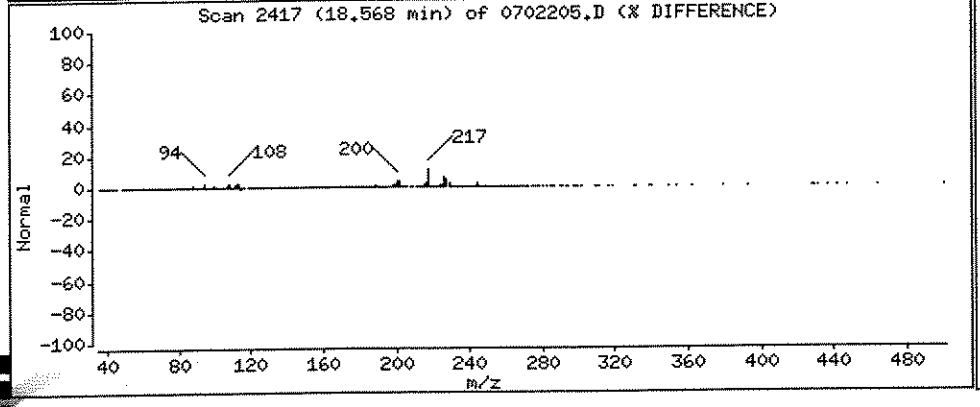
Column phase: fused silica Column diameter: 0.25

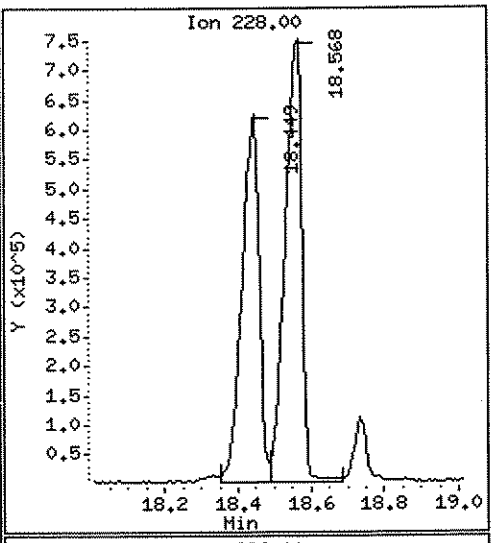
131 Chrysene Concentration: 9364 UG/KG

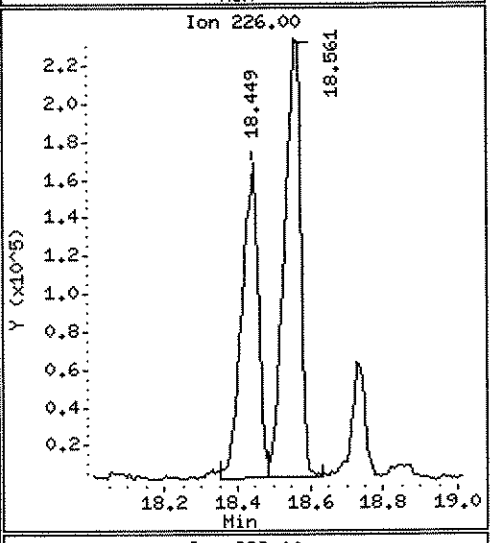


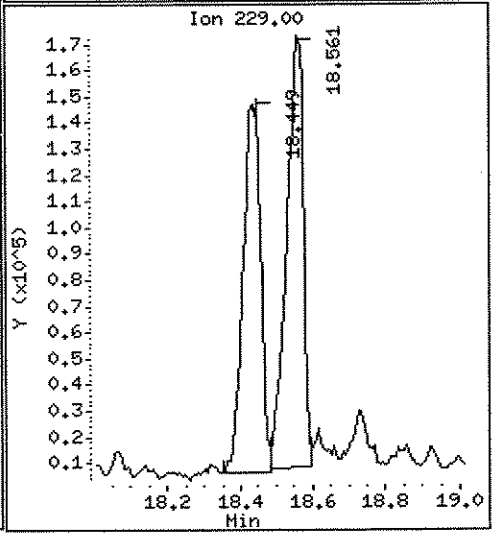












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

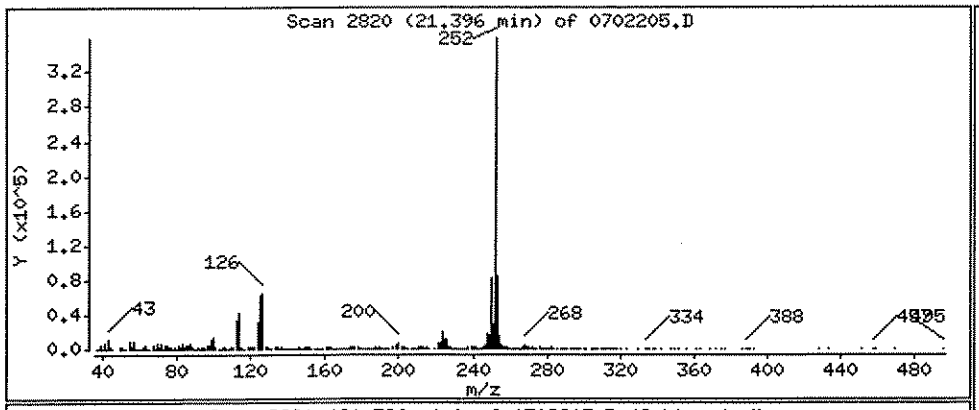
Client ID: 51CFM03S060706 Instrument: bna1.i

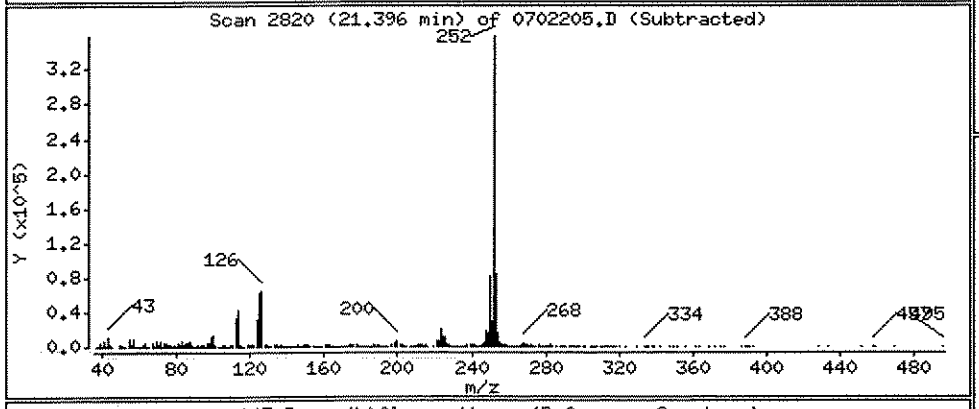
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

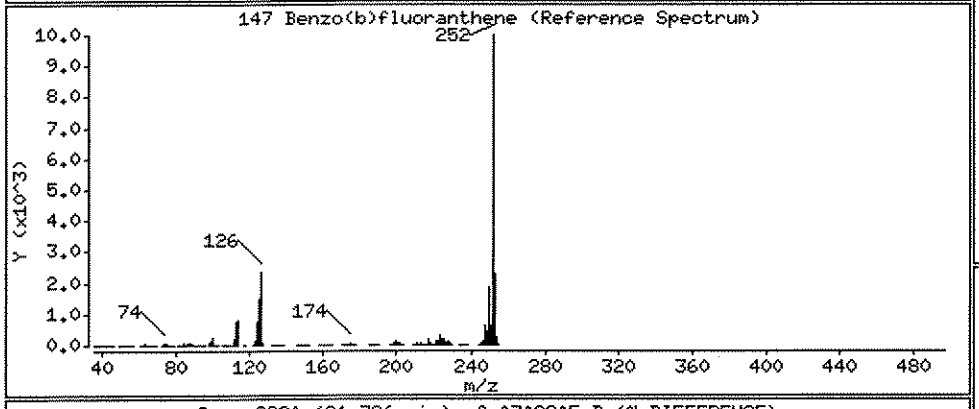
Volume Injected (uL): 0.5 Operator: SDB

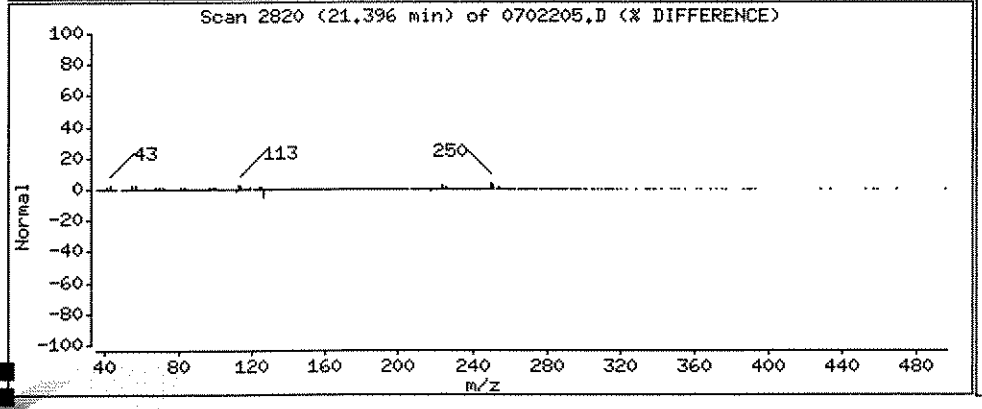
Column phase: fused silica Column diameter: 0.25

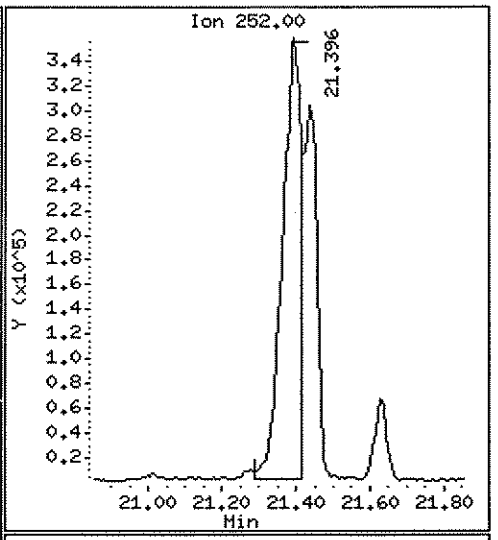
147 Benzo(b)fluoranthene Concentration: 8752 UG/KG

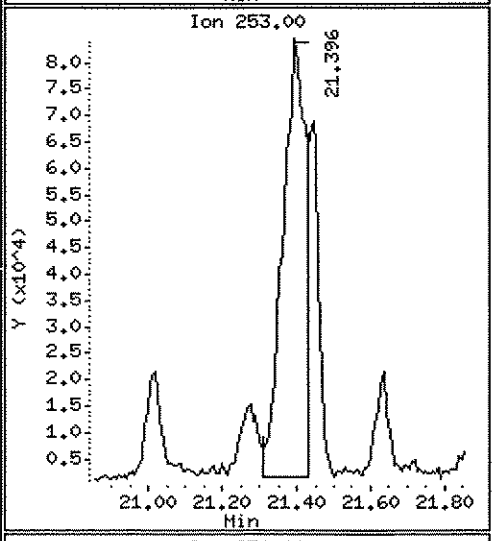


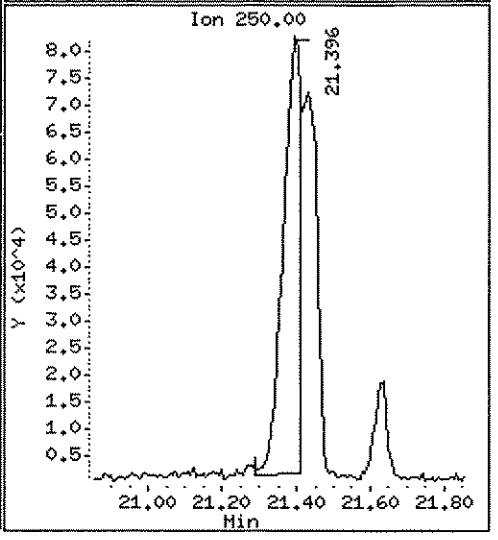












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

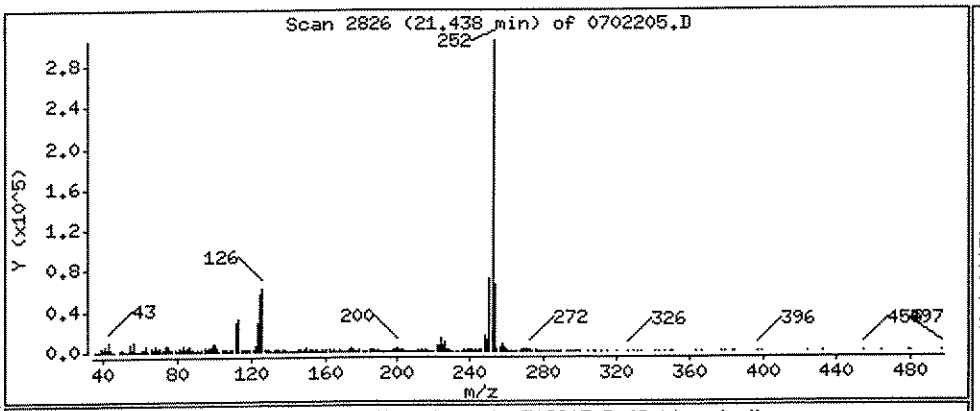
Client ID: 51CFM03S060706 Instrument: bna1.i

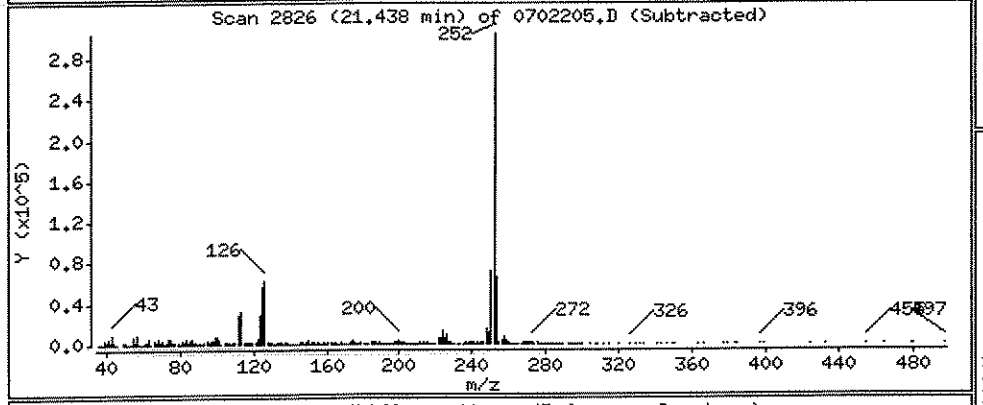
Sample Info: 0607022-05:15.0:500:1:UG/KG:10-JUL-2006

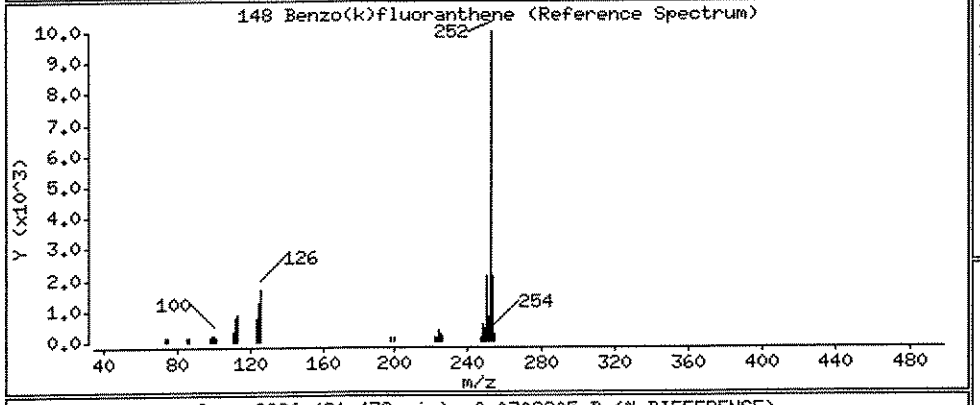
Volume Injected (uL): 0.5 Operator: SDB

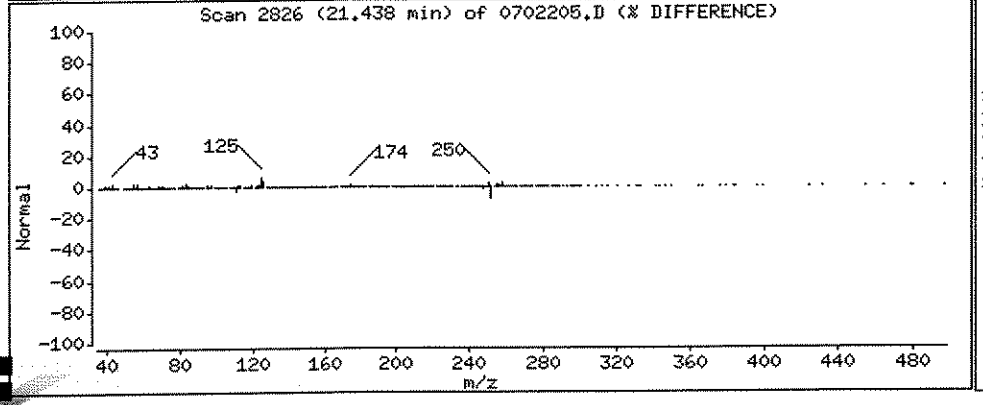
Column phase: fused silica Column diameter: 0.25

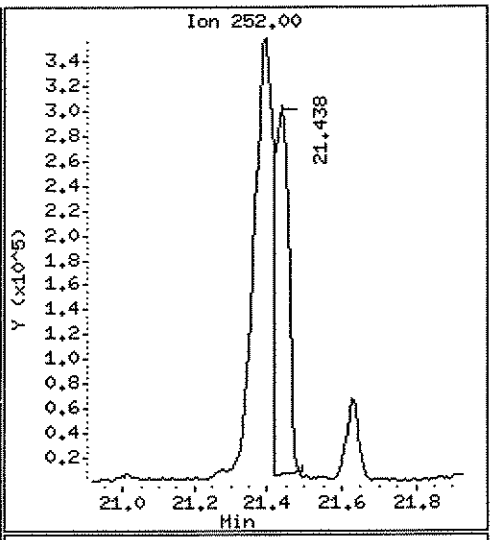
148 Benzo(k)fluoranthene Concentration: 5286 UG/KG

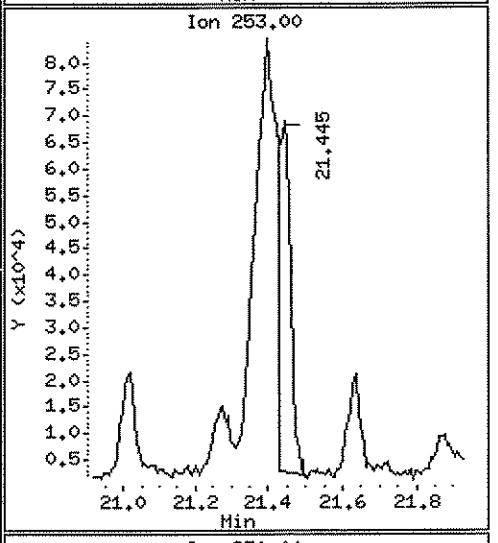


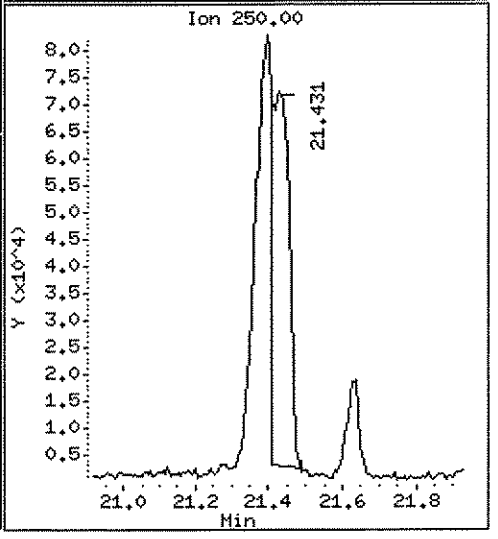












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

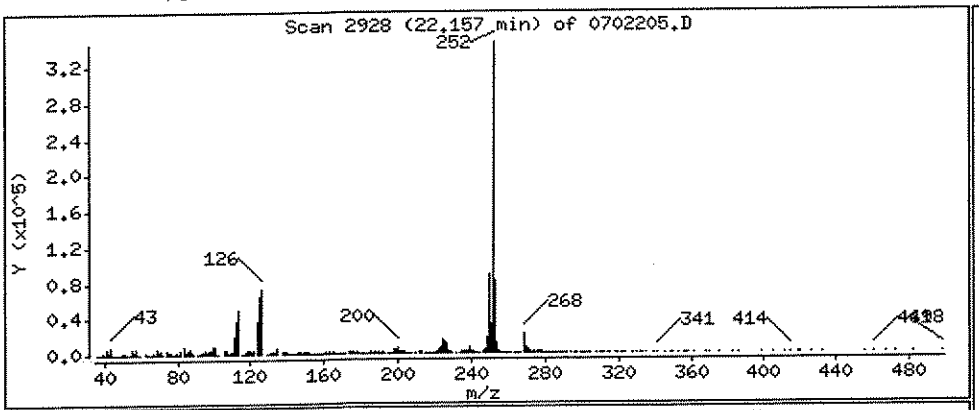
Operator: SDB

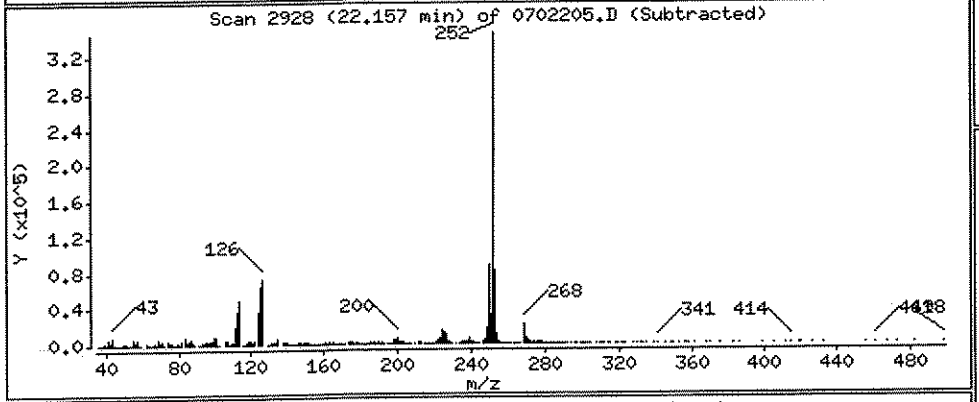
Column phase: fused silica

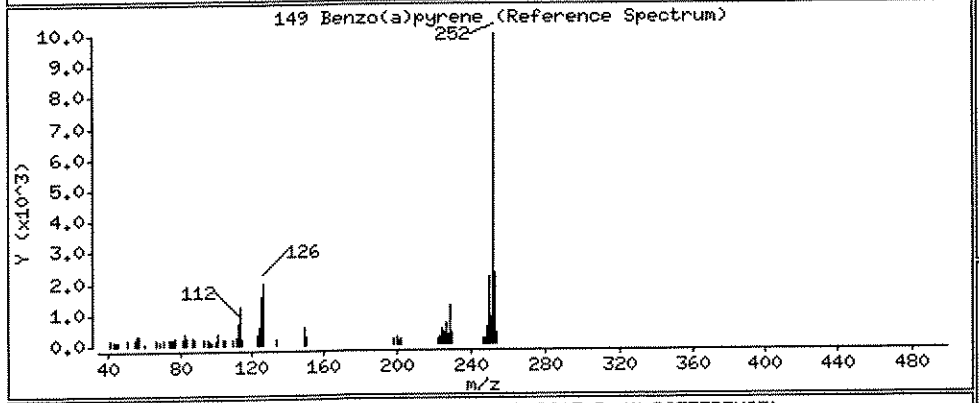
Column diameter: 0.25

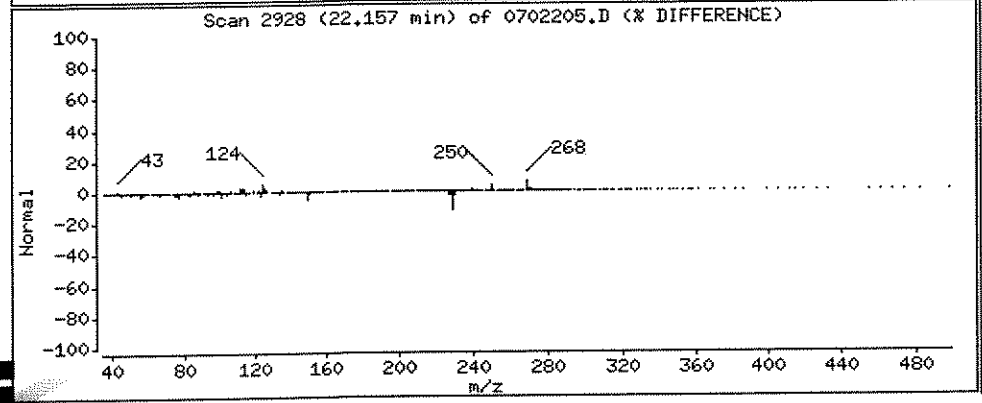
149 Benzo(a)pyrene

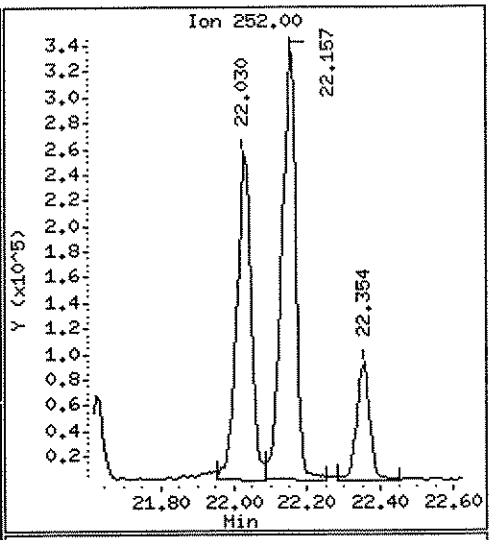
Concentration: 7286 UG/KG

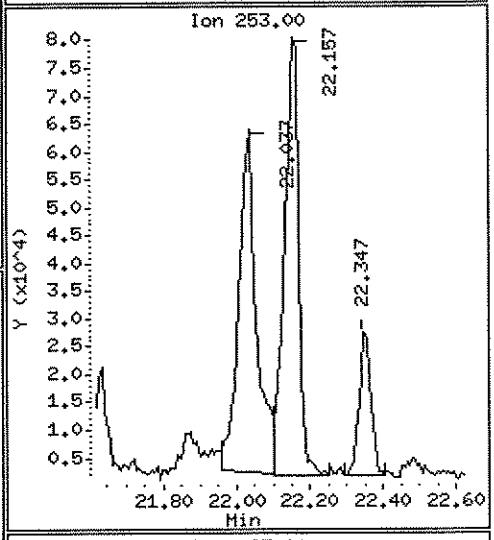


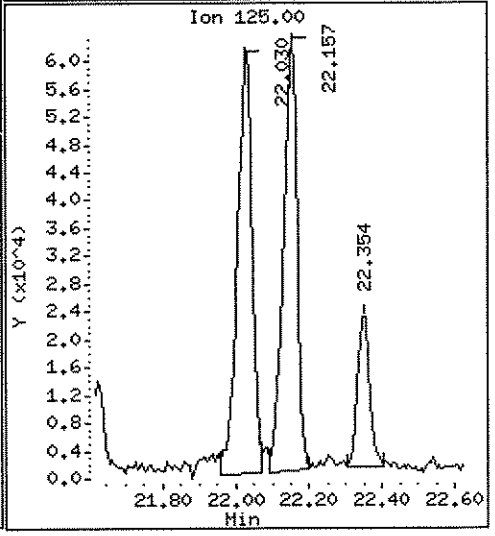












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

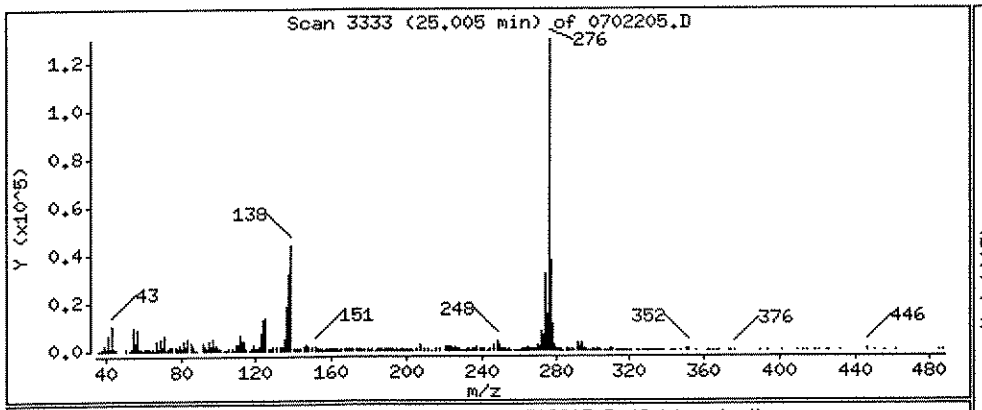
Client ID: 51CFM03S060706 Instrument: bna1.i

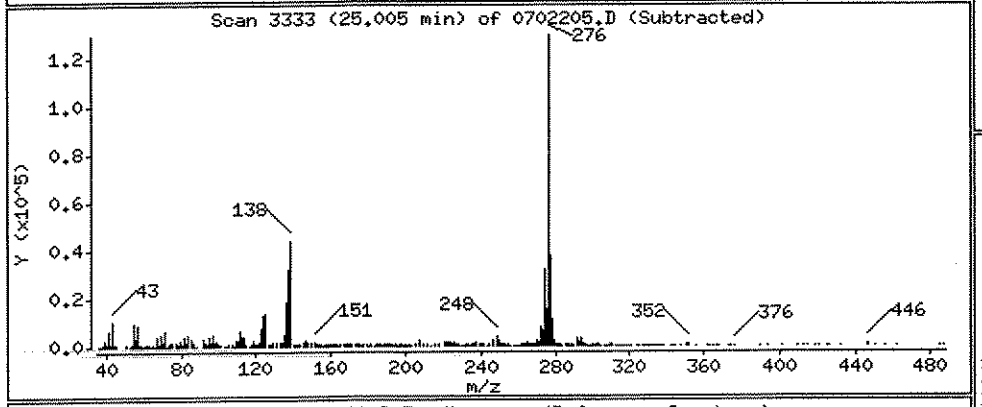
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

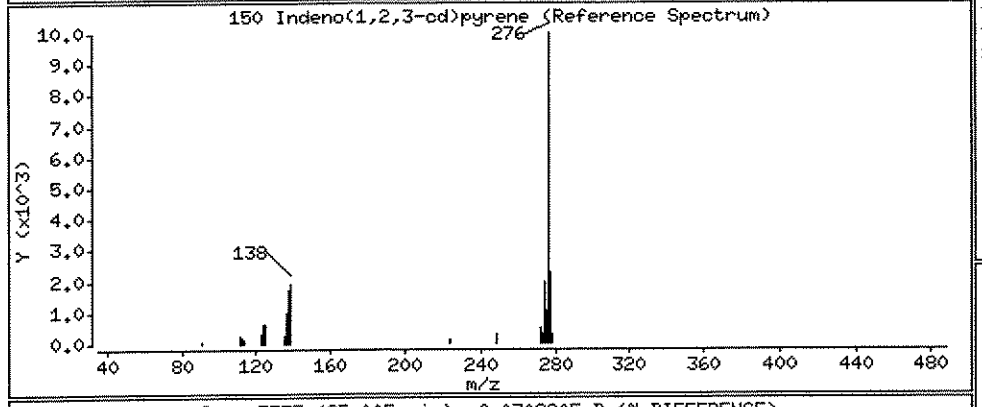
Volume Injected (uL): 0.5 Operator: SDB

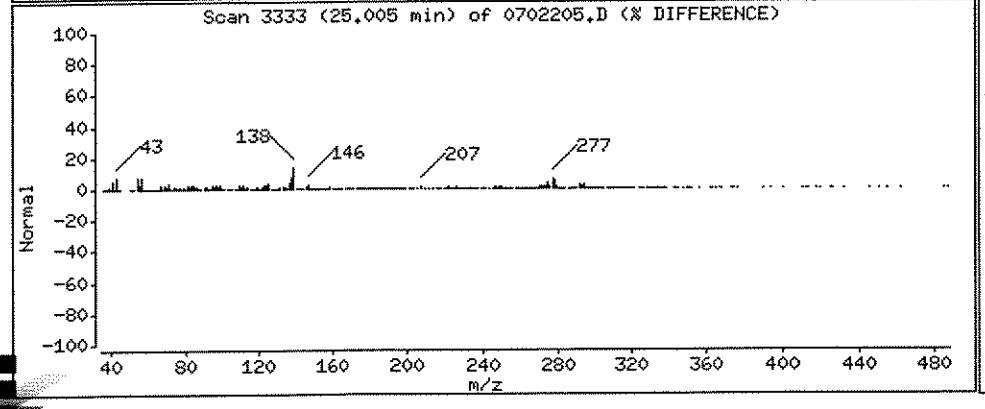
Column phase: fused silica Column diameter: 0.25

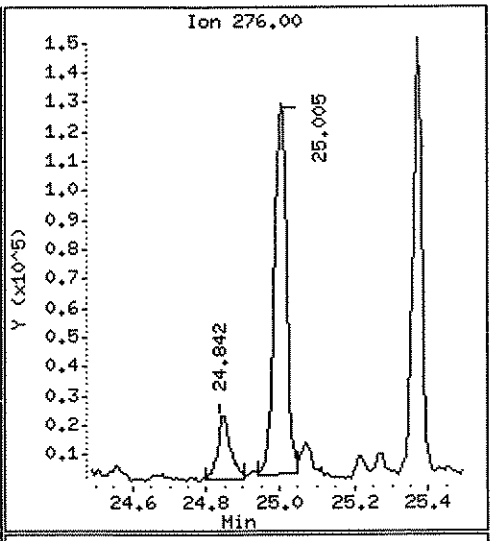
150 Indeno(1,2,3-cd)pyrene Concentration: 2762 UG/KG

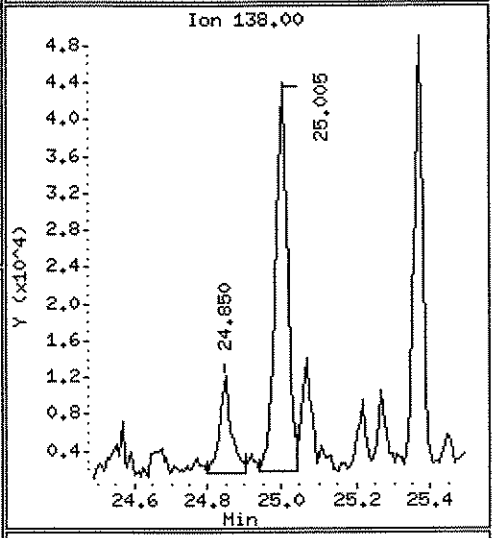


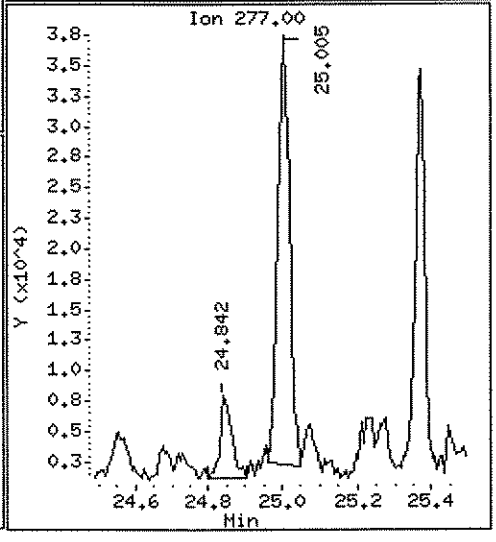












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

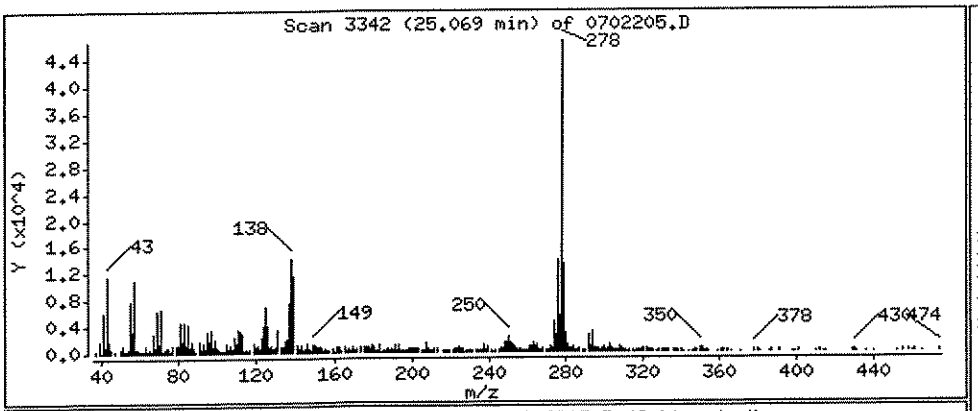
Client ID: 51CFM03S060706 Instrument: bna1.i

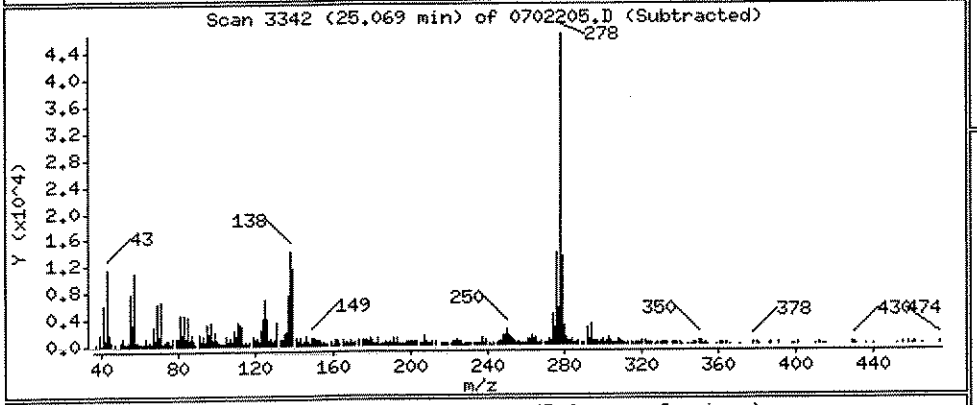
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

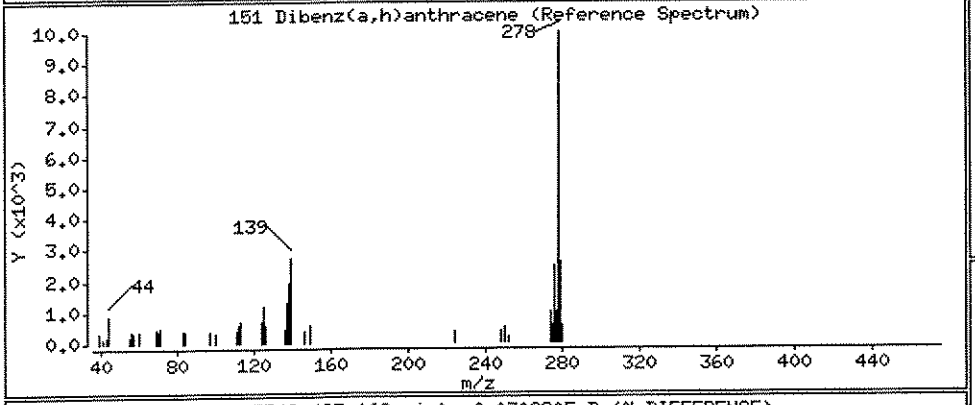
Volume Injected (uL): 0.5 Operator: SDB

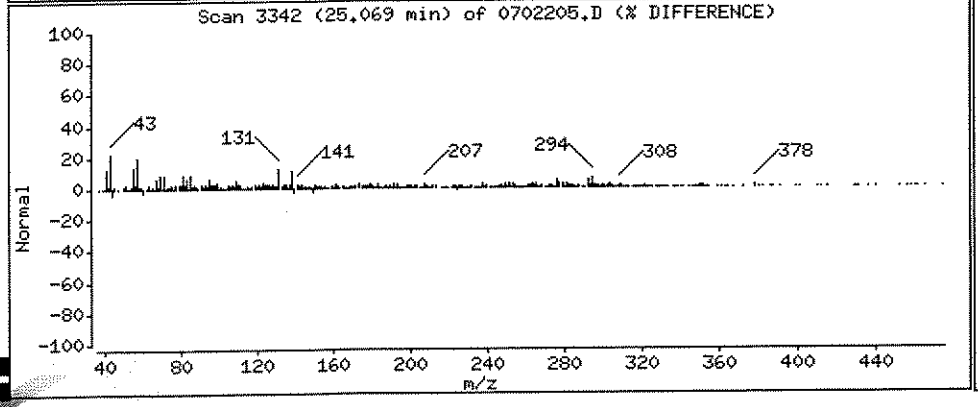
Column phase: fused silica Column diameter: 0.25

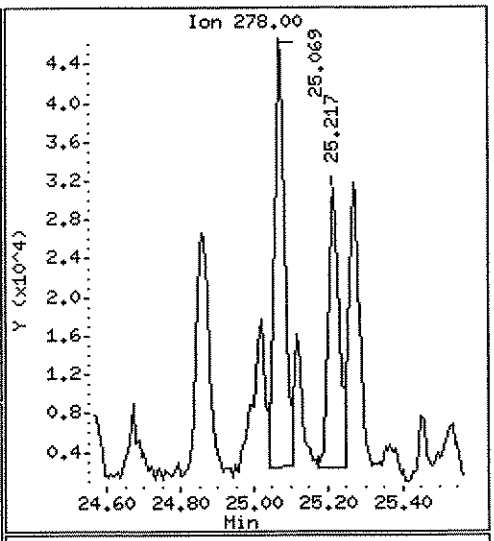
151 Dibenz(a,h)anthracene Concentration: 821.5 UG/KG

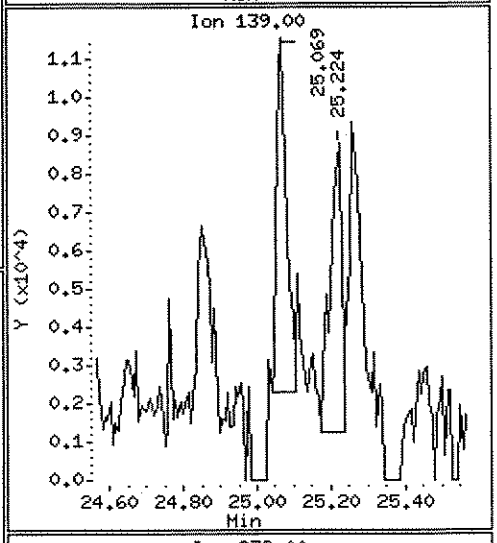


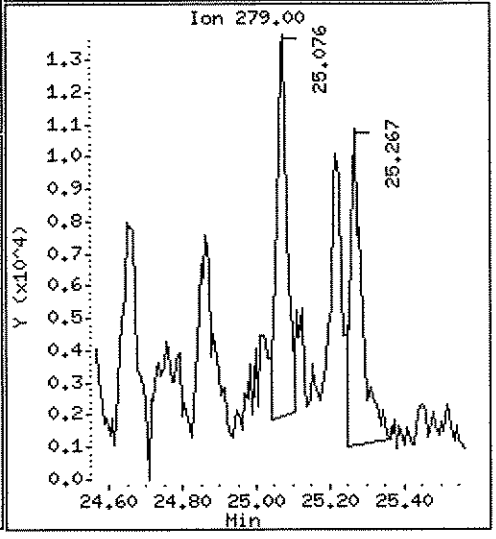












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702205.D

Date : 10-JUL-2006 16:17

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

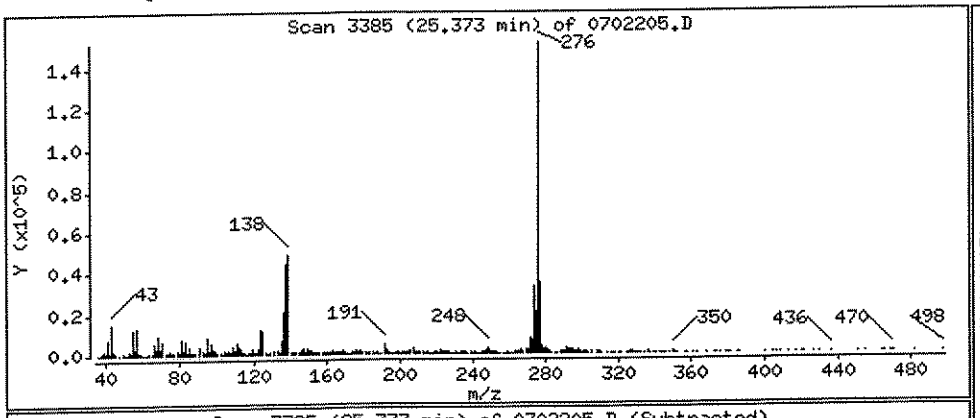
Operator: SDB

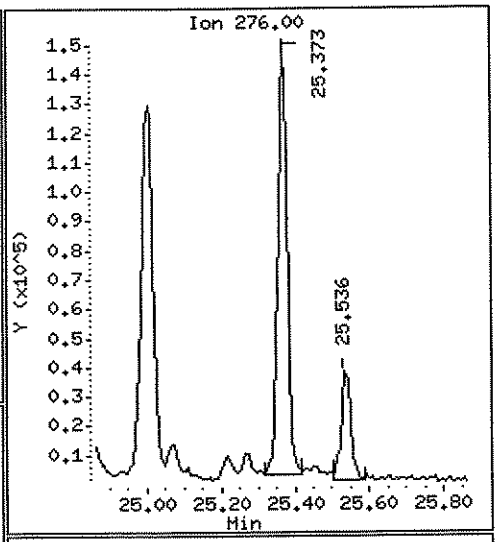
Column phase: fused silica

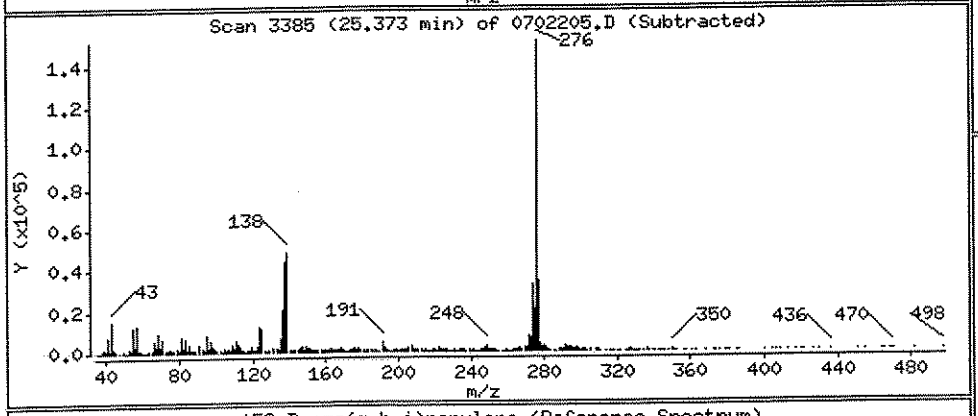
Column diameter: 0.25

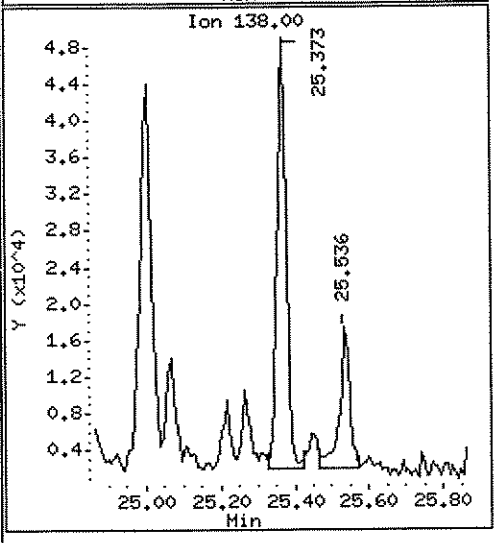
152 Benzo(g,h,i)perylene

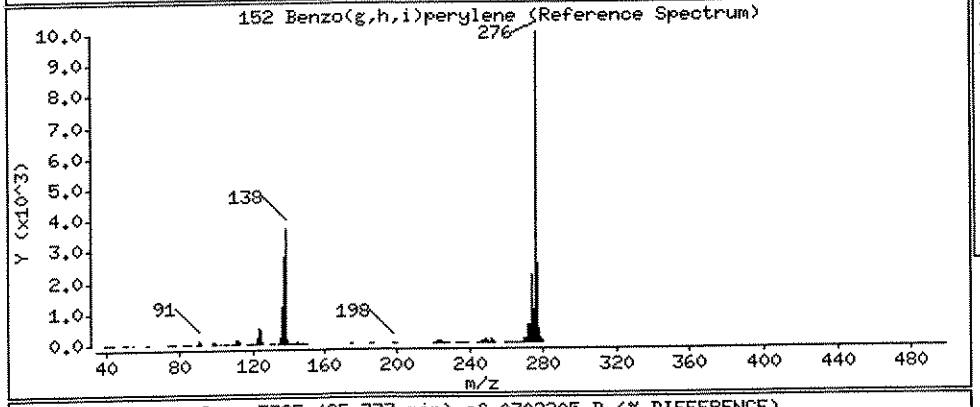
Concentration: 2365 UG/KG

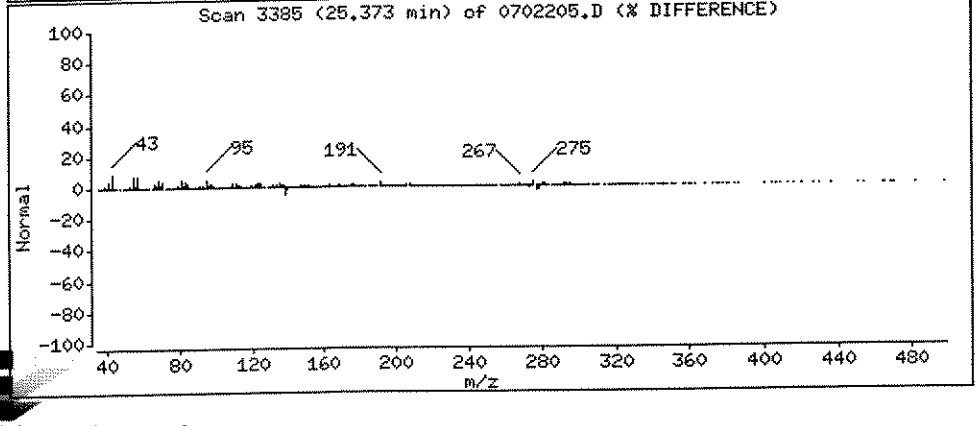












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702205D

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 14:29

Injection Volume: 0.5(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	420	3500	1500	JD
208-96-8	Acenaphthylene	420	3500		UD
120-12-7	Anthracene	420	3500	1900	JD
56-55-3	Benzo(a)anthracene	420	3500	5900	D
205-99-2	Benzo(b)fluoranthene	420	3500	6100	D
207-08-9	Benzo(k)fluoranthene	420	3500	3900	D
191-24-2	Benzo(g,h,i)perylene	420	3500	3000	JD
50-32-8	Benzo(a)pyrene	420	2100	5700	D
218-01-9	Chrysene	420	3500	7400	D
53-70-3	Dibenz(a,h)anthracene	420	2100	860	JD
206-44-0	Fluoranthene	420	3500	14000	D
86-73-7	Fluorene	420	3500	1600	JD
193-39-5	Indeno(1,2,3-cd)pyrene	420	3500	3200	JD
91-57-6	2-Methylnaphthalene	420	3500	430	JD
90-12-0	1-Methylnaphthalene	1000	3500		UD
91-20-3	Naphthalene	420	3500		UD
85-01-8	Phenanthrene	420	3500	12000	D
129-00-0	Pyrene	420	3500	10000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 11-JUL-2006 14:29
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.900	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.236	4.235	(1.000)	566806	40.0000	
*	31 Naphthalene-d8	136	5.237	5.240	(1.000)	1945729	40.0000	
$	32 Nitrobenzene-d5	82	4.668	4.668	(0.891)	55833	2.62866	1827(a)
	51 2-Methylnaphthalene	141	5.997	6.004	(1.145)	17287	0.62188	432.3(a)
*	65 Acenaphthene-d10	164	7.642	7.641	(1.000)	977628	40.0000	
$	70 2-Fluorobiphenyl	172	6.544	6.555	(0.856)	79971	2.57049	1787(a)
	76 Acenaphthene	153	7.690	7.703	(1.006)	62730	2.22330	1546(a)
	84 Fluorene	166	8.718	8.727	(1.141)	67707	2.24364	1560(a)
*	97 Phenanthrene-d10	188	10.923	10.923	(1.000)	1321612	40.0000	
	106 Phenanthrene	178	10.971	10.986	(1.004)	642273	17.0446	11850
	107 Anthracene	178	11.082	11.096	(1.015)	99838	2.68367	1866(a)
	110 Fluoranthene	202	14.189	14.195	(1.299)	757499	20.3046	14120
*	124 Chrysene-d12	240	18.330	18.333	(1.000)	1068214	40.0000	

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Report Date: 12-Jul-2006 12:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.762	14.770	(0.805)	644758	15.1136	10510
$ 127 Terphenyl-d14	244	15.533	15.545	(0.847)	65158	2.41560	1679(aR)
130 Benzo(a)anthracene	228	18.288	18.291	(0.998)	291890	8.48075	5896
131 Chrysene	228	18.393	18.409	(1.003)	333282	10.6020	7370
* 145 Perylene-d12	264	22.181	22.175	(1.000)	1098925	40.0000	
147 Benzo(b)fluoranthene	252	21.226	21.248	(0.957)	296436	8.75691	6088(M)
148 Benzo(k)fluoranthene	252	21.281	21.317	(0.959)	197809	5.63217	3915(M)
149 Benzo(a)pyrene	252	22.000	22.017	(0.992)	237829	8.14751	5664
150 Indeno(1,2,3-cd)pyrene	276	24.896	24.921	(1.122)	114401	4.59354	3193(a)
151 Dibenz(a,h)anthracene	278	24.973	24.998	(1.126)	31002	1.23651	859.6(a)
152 Benzo(g,h,i)perylene	276	25.278	25.301	(1.140)	112898	4.36831	3037(a)

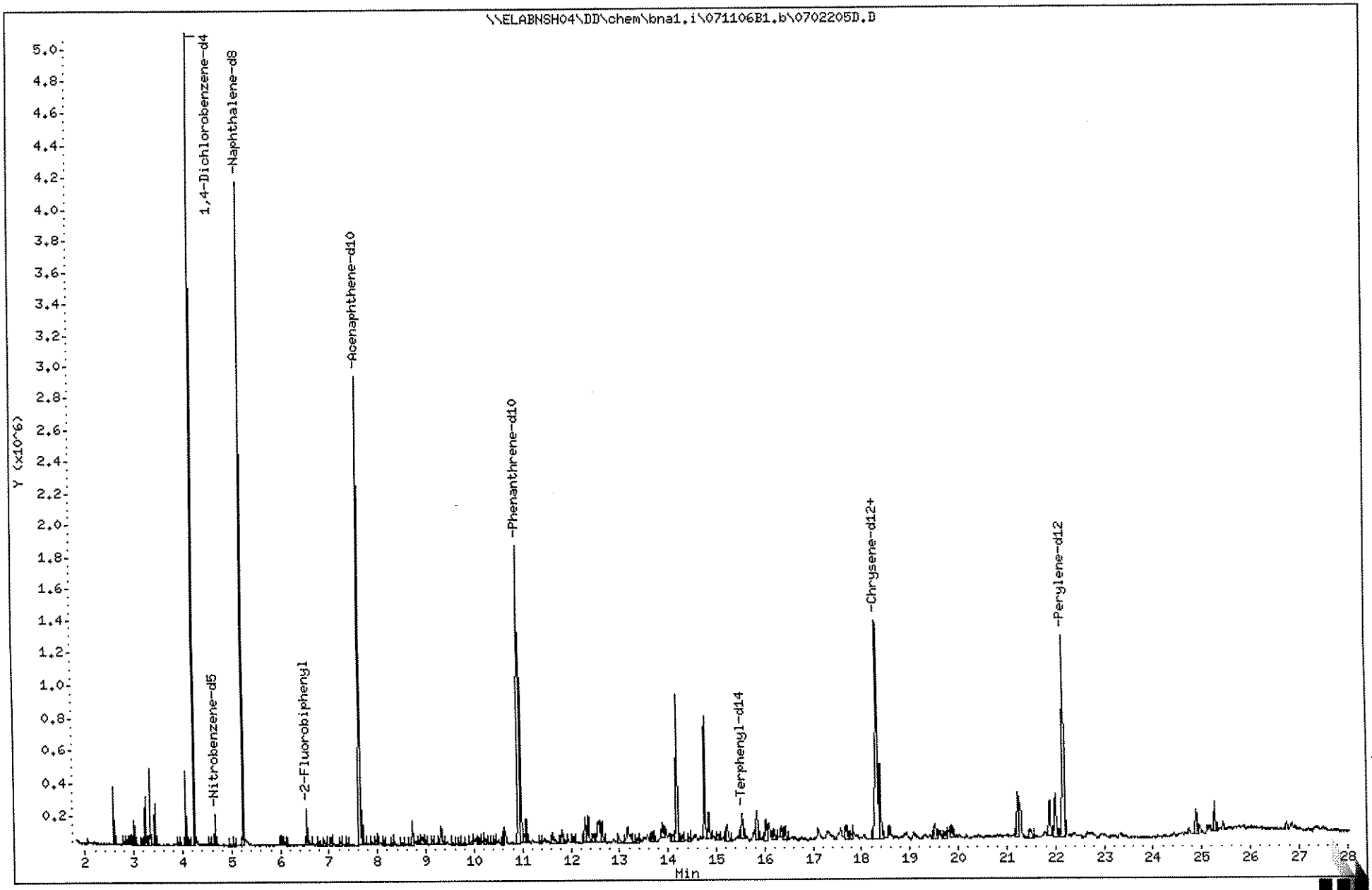
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D
Date : 11-JUL-2006 14:29
Client ID: 51CFM03S060706
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000129



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

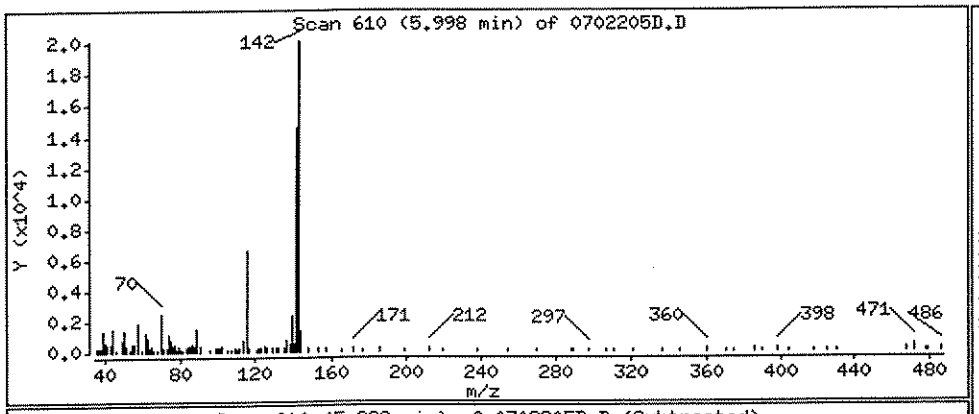
Client ID: 51CFM03S060706 Instrument: bna1.i

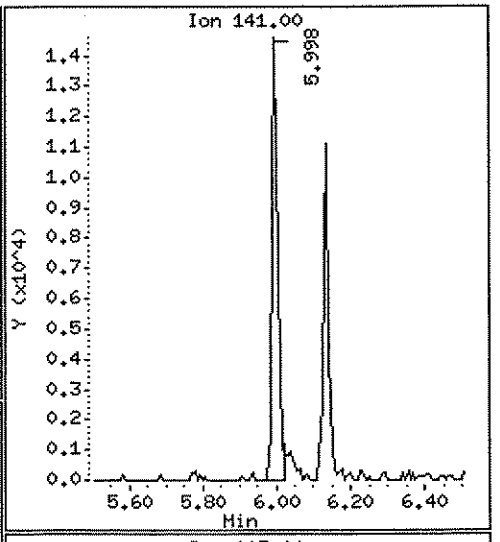
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

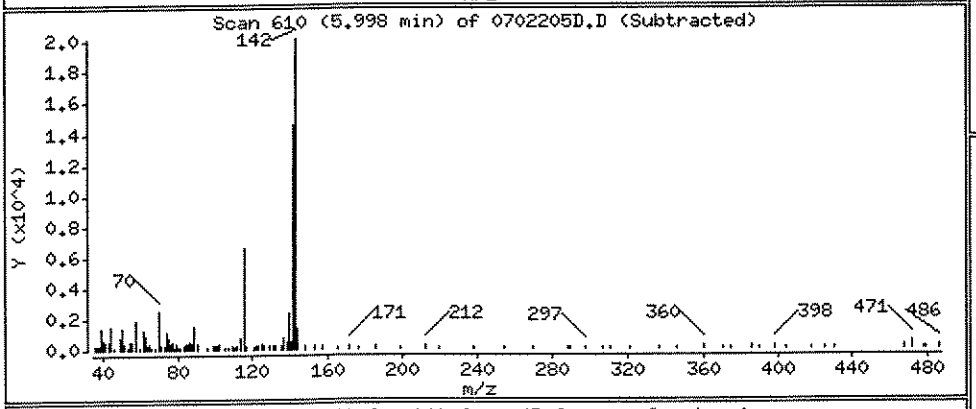
Volume Injected (uL): 0.5 Operator: SDB

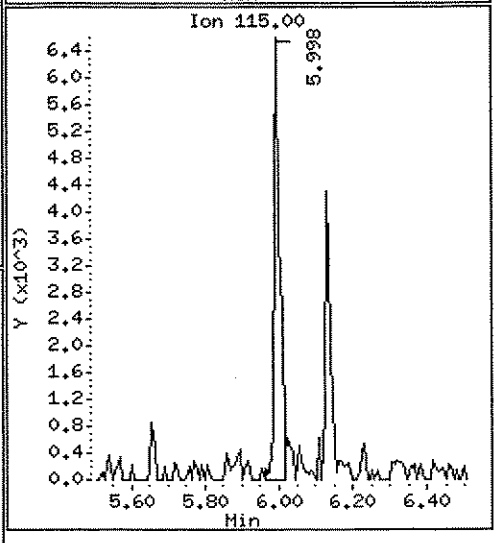
Column phase: fused silica Column diameter: 0.25

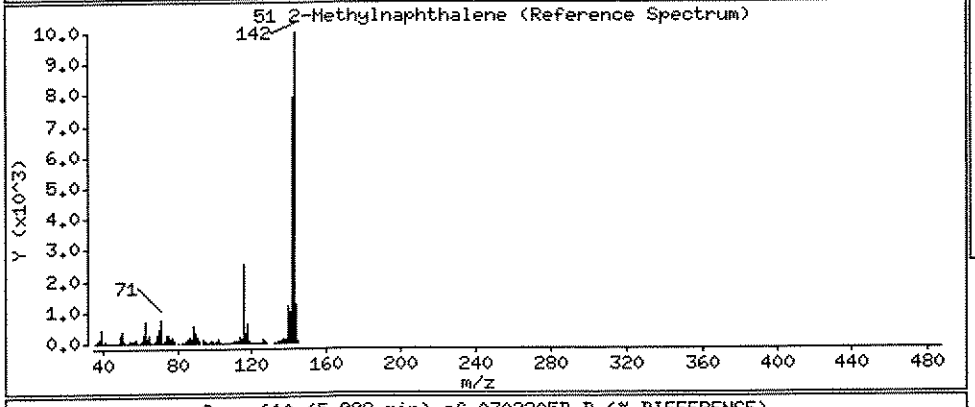
51 2-Methylnaphthalene Concentration: 432.3 UG/KG

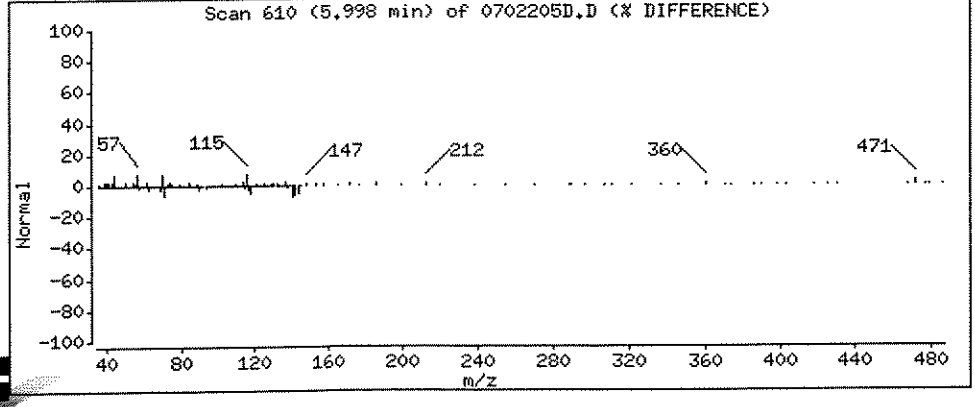












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

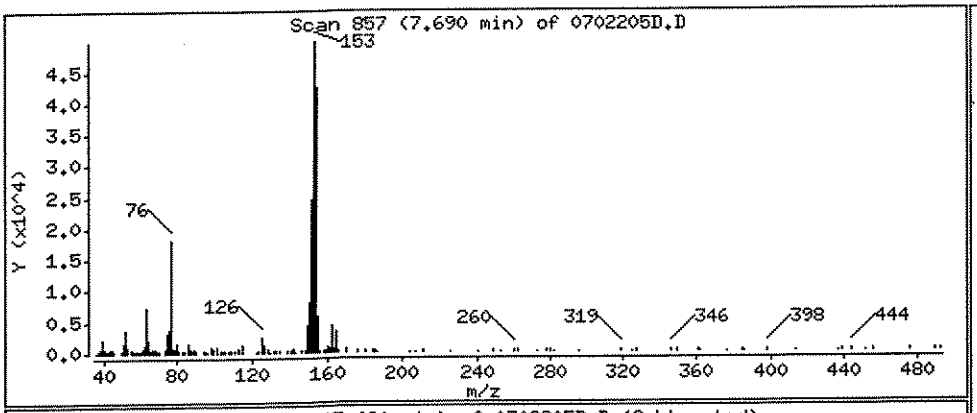
Client ID: 51CFM03S060706 Instrument: bna1.i

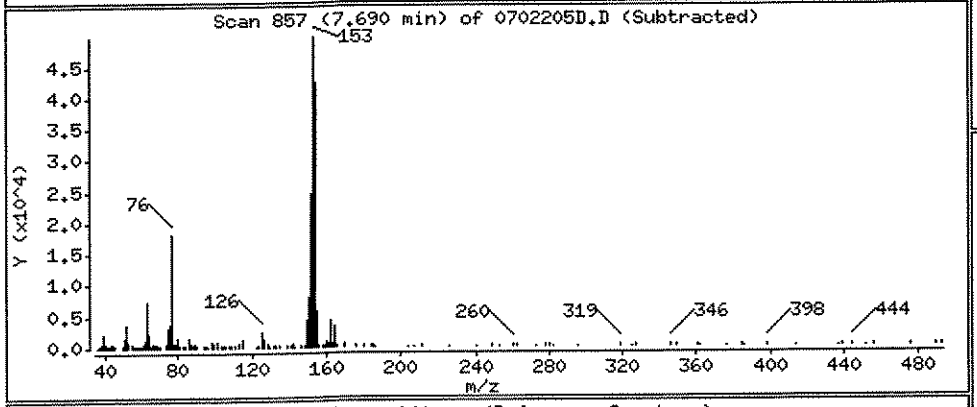
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

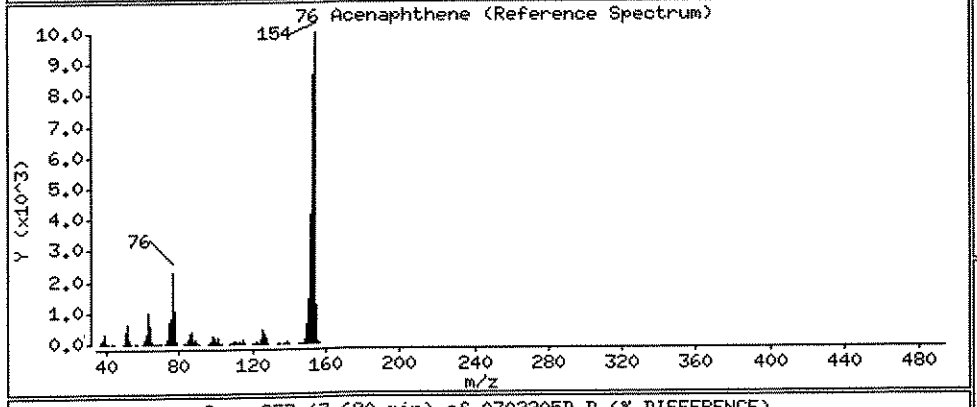
Volume Injected (uL): 0.5 Operator: SDB

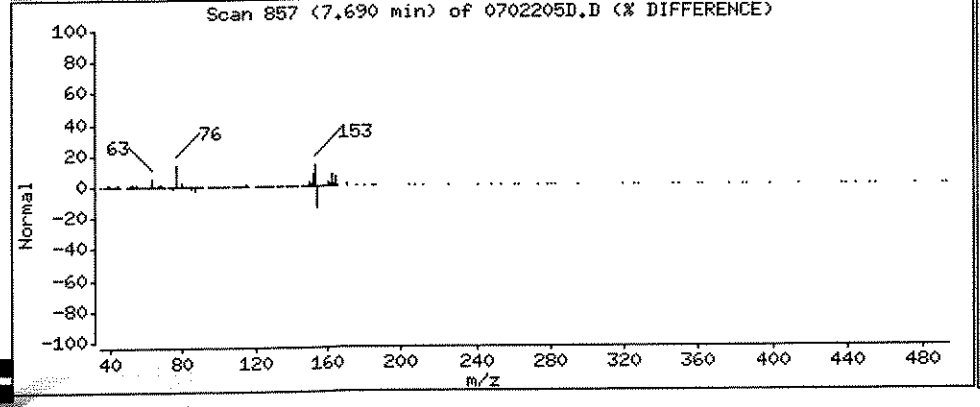
Column phase: fused silica Column diameter: 0.25

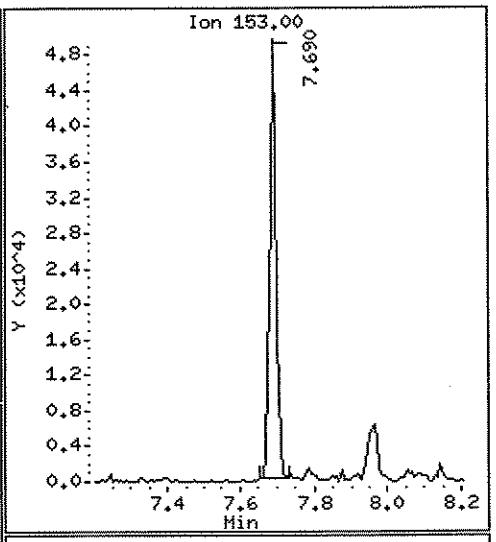
76 Acenaphthene Concentration: 1546 UG/KG

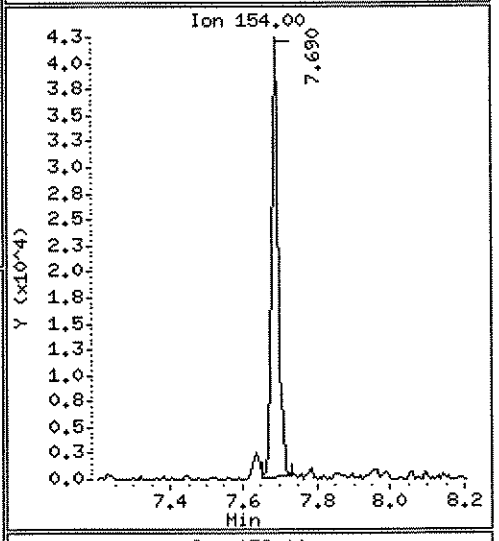


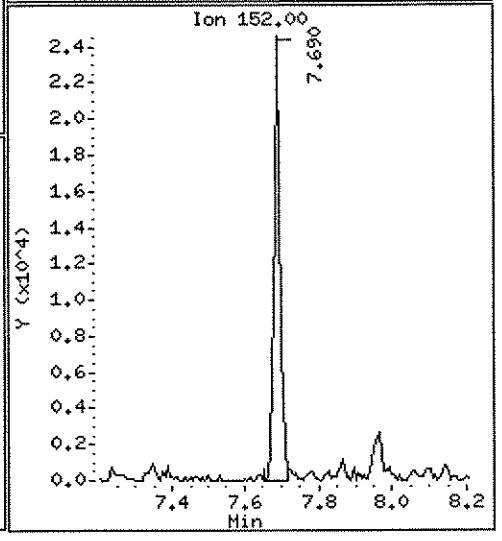












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000131

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

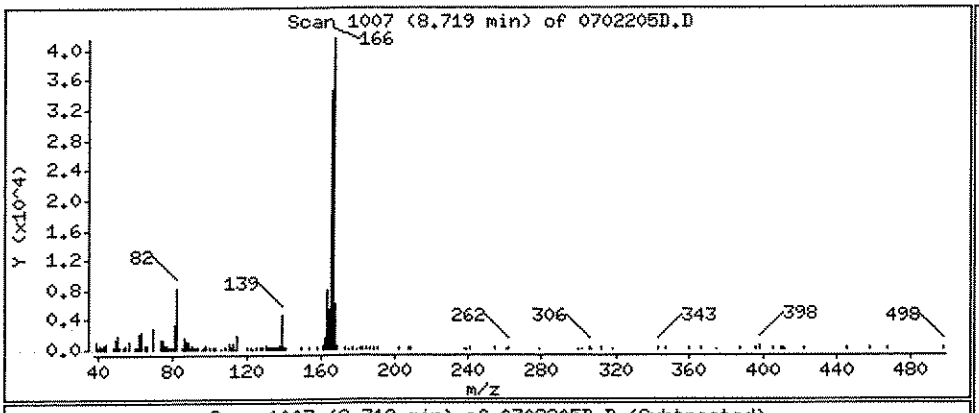
Client ID: 51CFM03S060706 Instrument: bna1.i

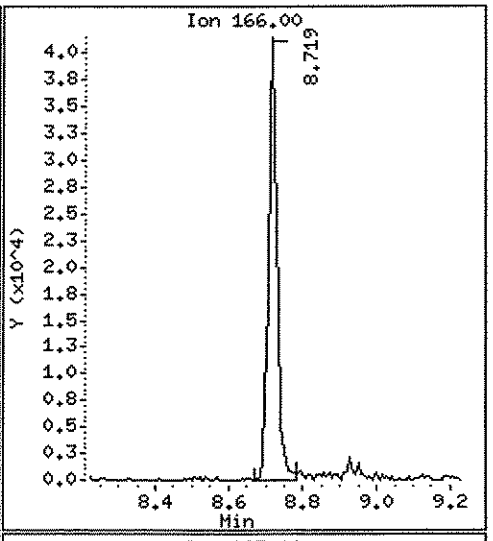
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

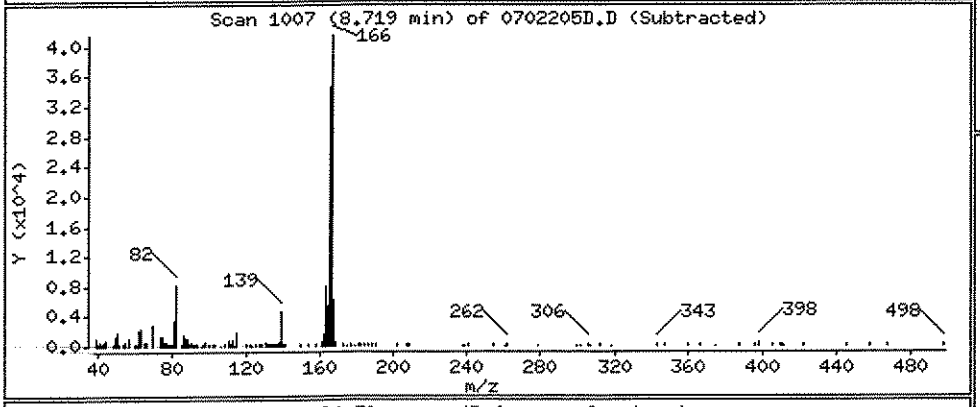
Volume Injected (uL): 0.5 Operator: SDB

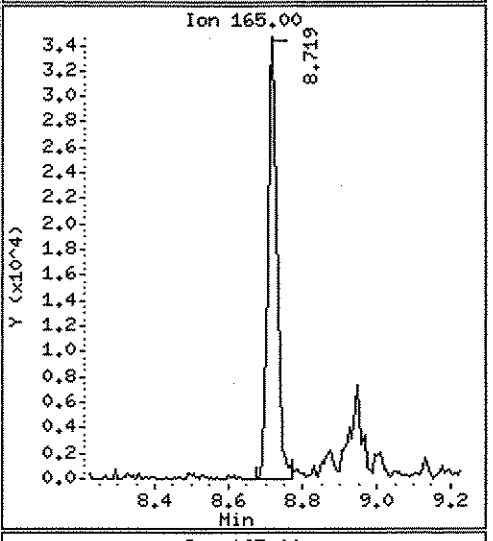
Column phase: fused silica Column diameter: 0.25

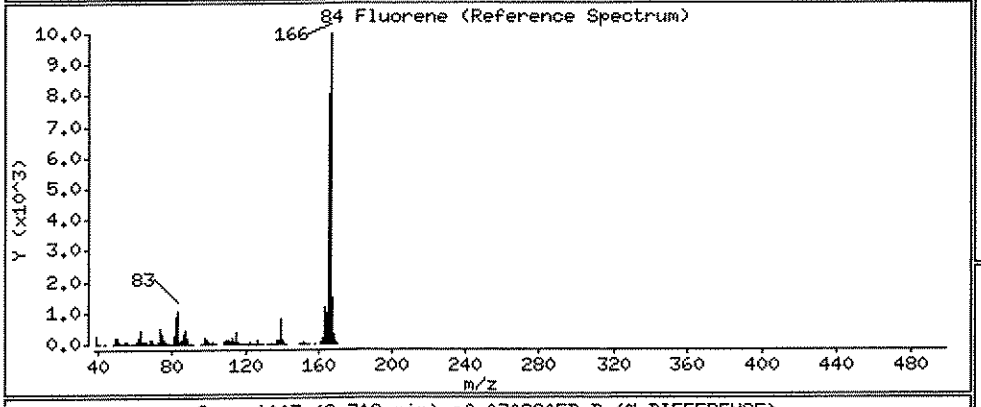
84 Fluorene Concentration: 1560 UG/KG

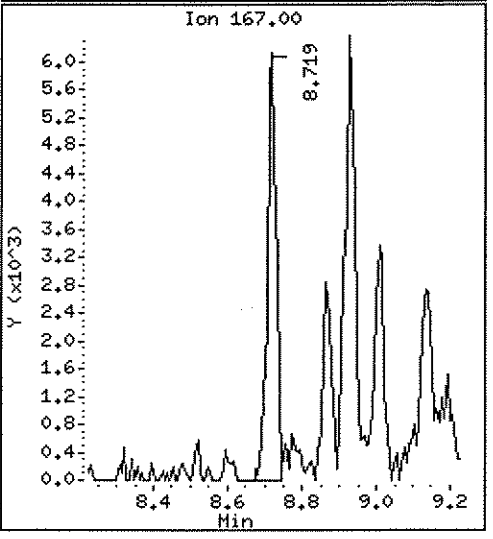


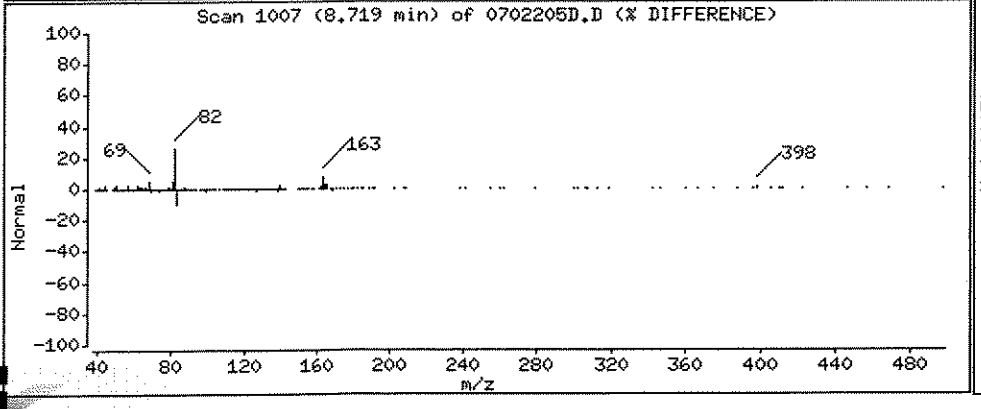












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

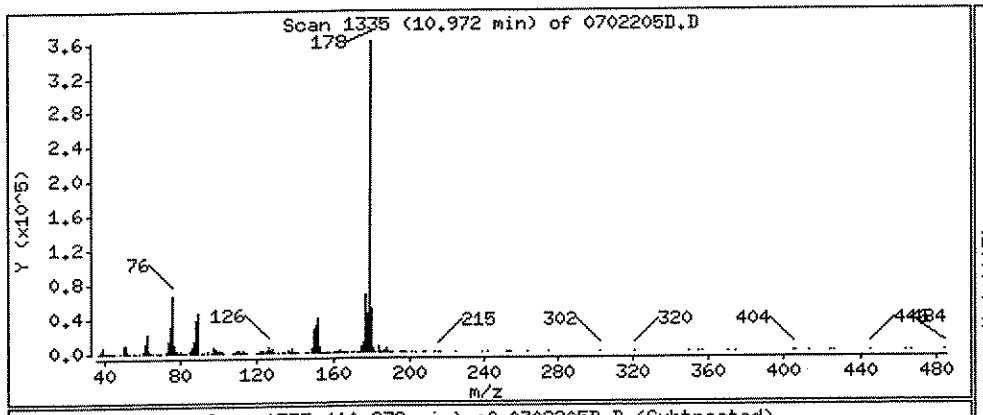
Client ID: 51CFH03S060706 Instrument: bna1.i

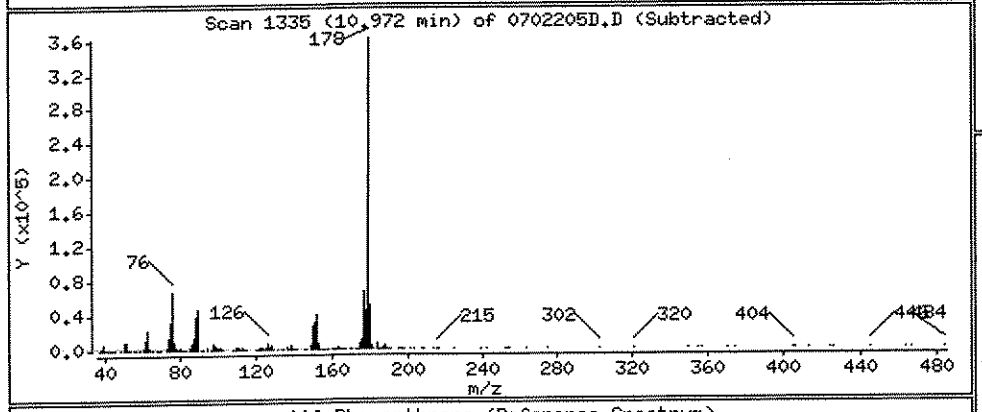
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

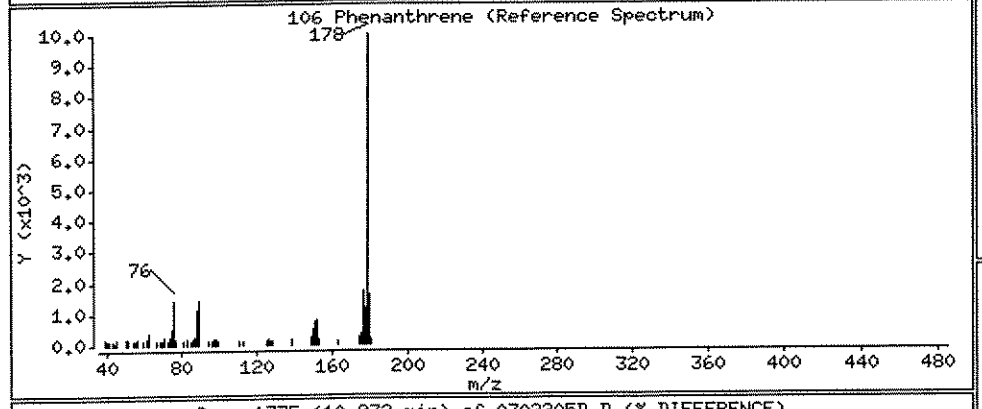
Volume Injected (uL): 0.5 Operator: SDB

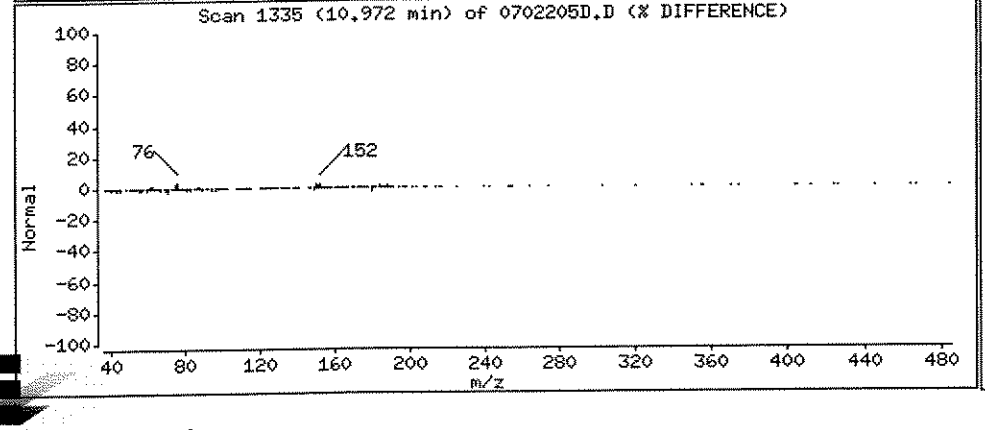
Column phase: fused silica Column diameter: 0.25

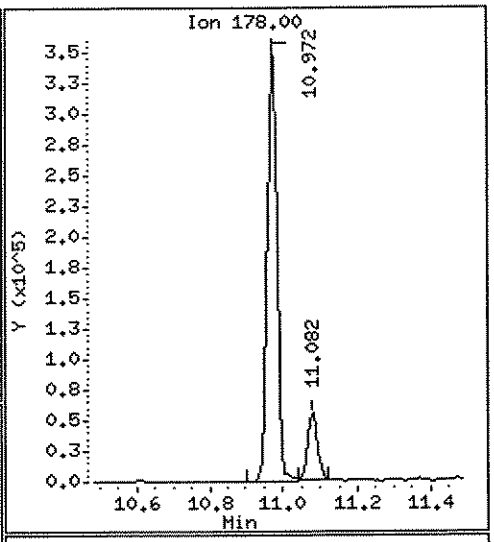
106 Phenanthrene Concentration: 11850 UG/KG

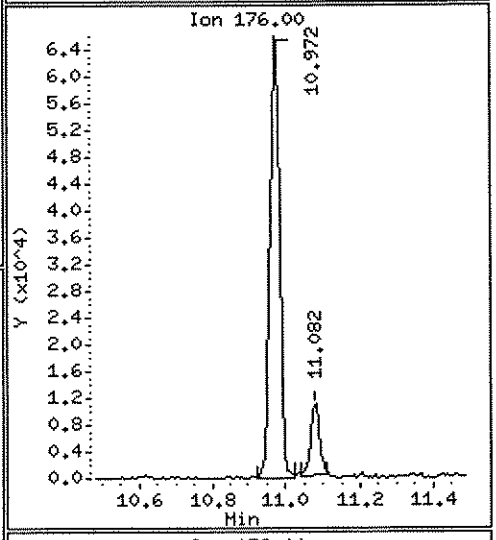


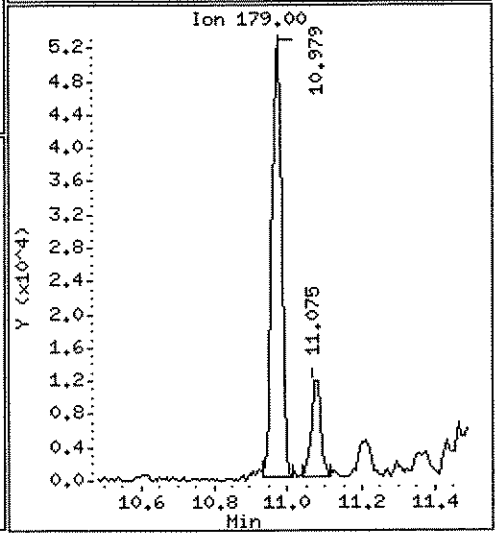












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

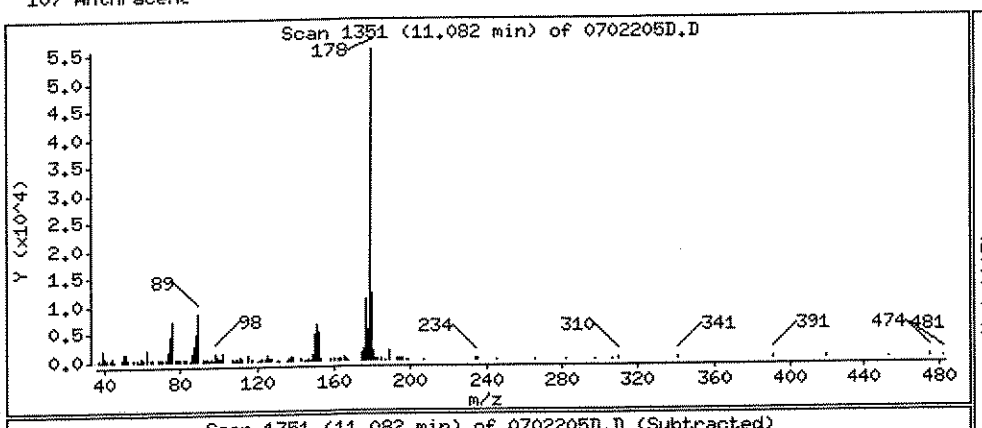
Operator: SDB

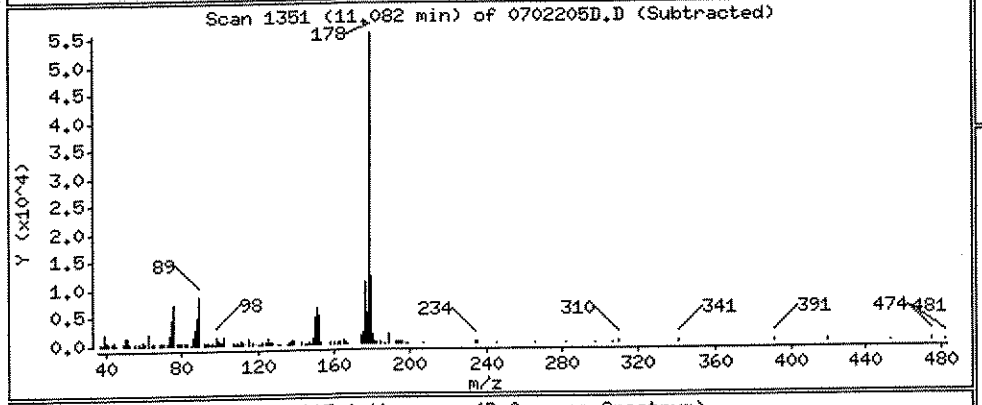
Column phase: fused silica

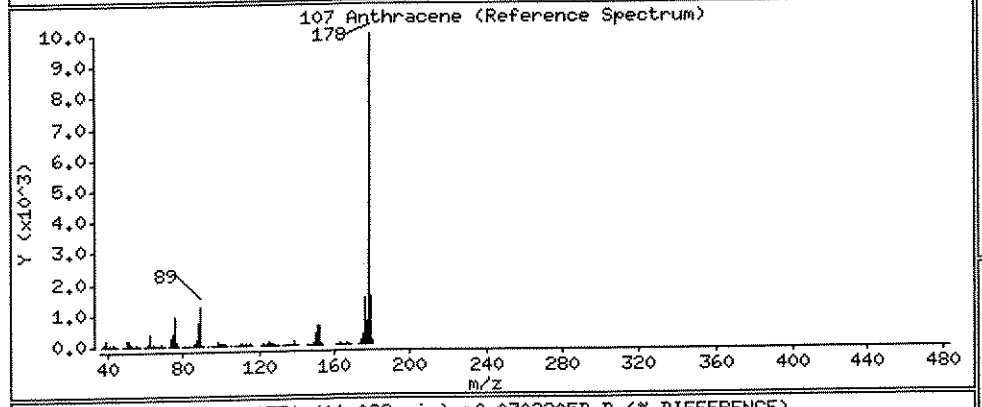
Column diameter: 0.25

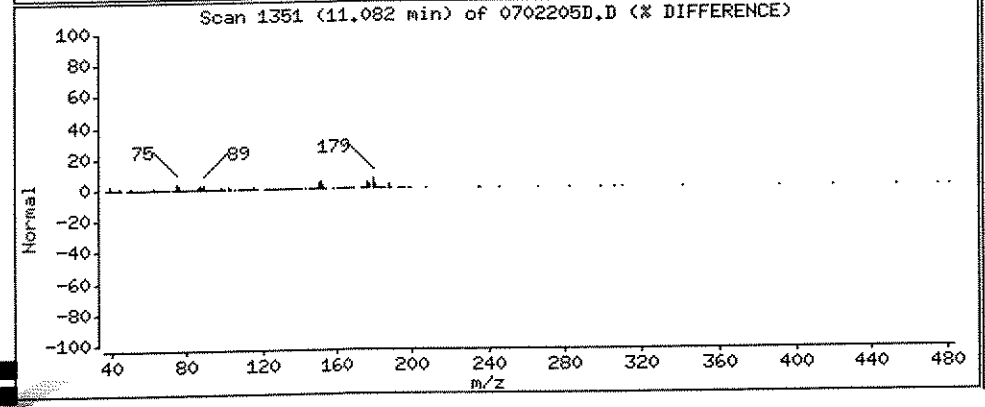
107 Anthracene

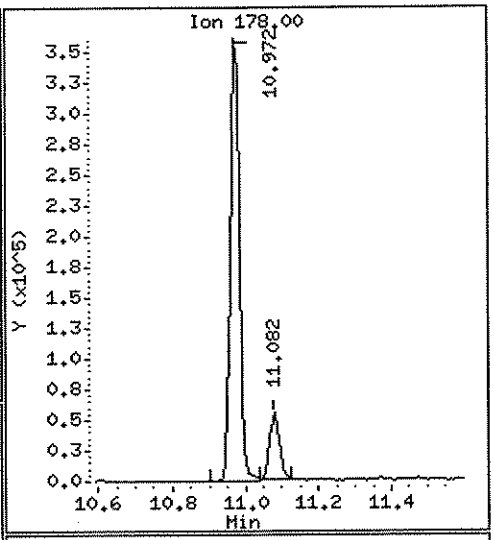
Concentration: 1866 UG/KG

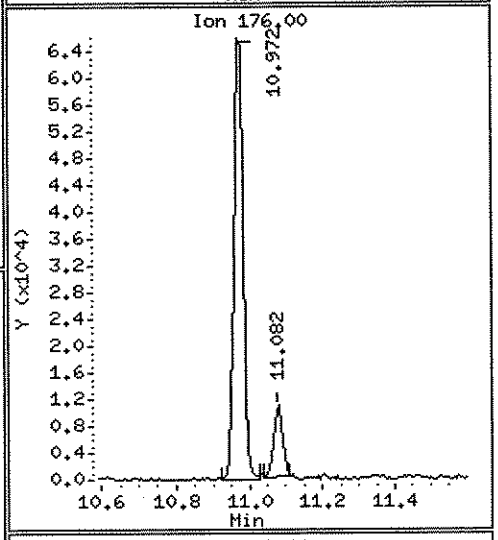


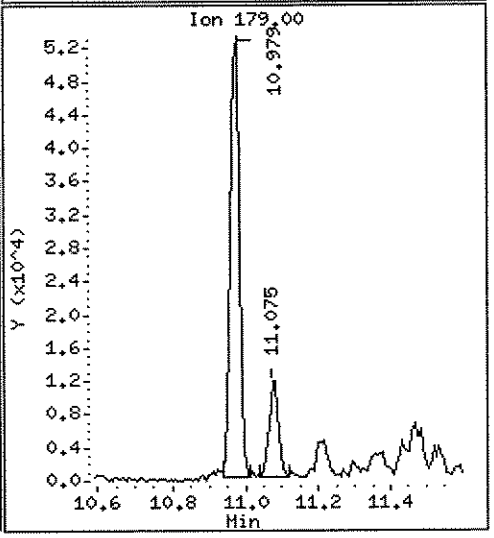












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

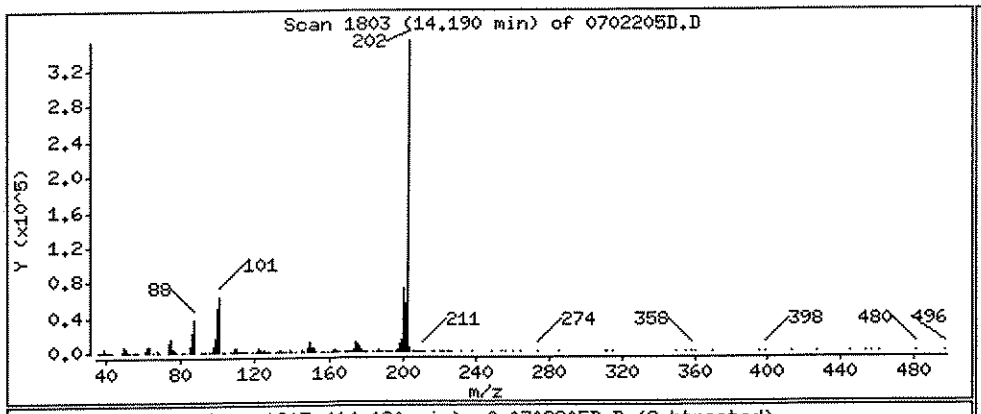
Client ID: 51CFM03S060706 Instrument: bna1.i

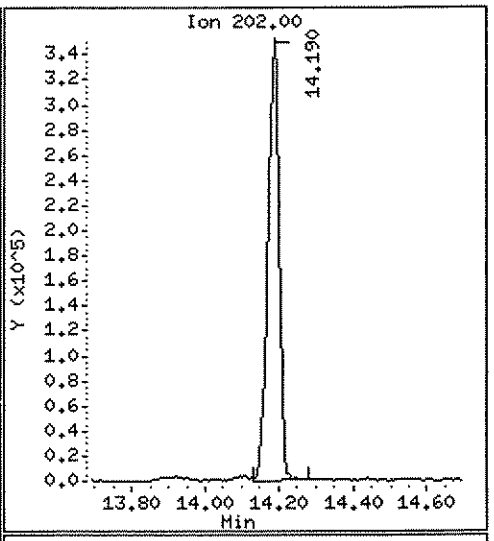
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

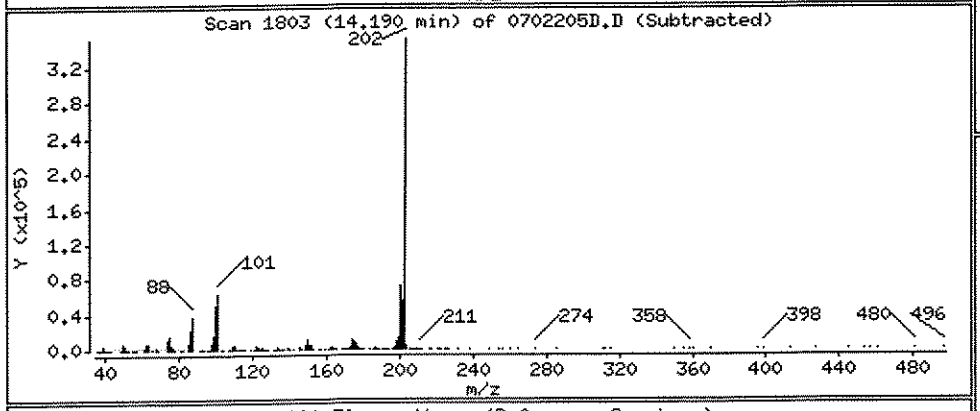
Volume Injected (uL): 0.5 Operator: SDB

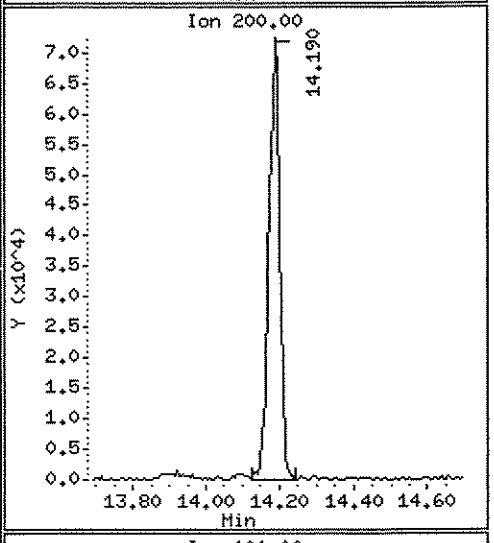
Column phase: fused silica Column diameter: 0.25

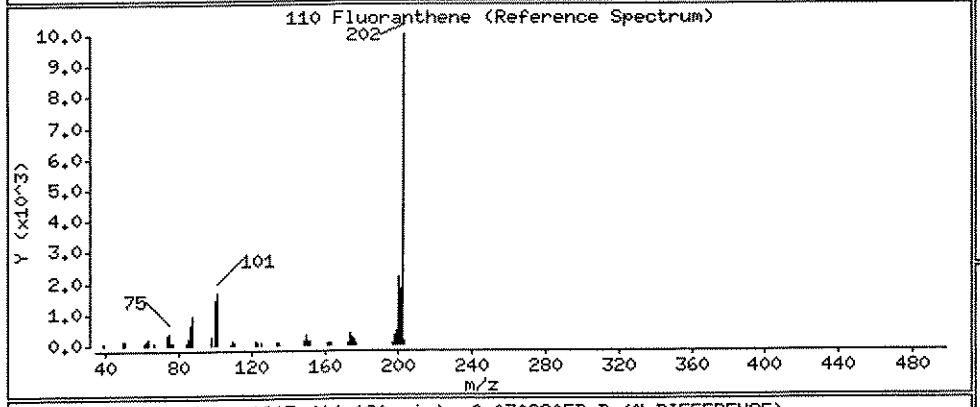
110 Fluoranthene Concentration: 14120 UG/KG

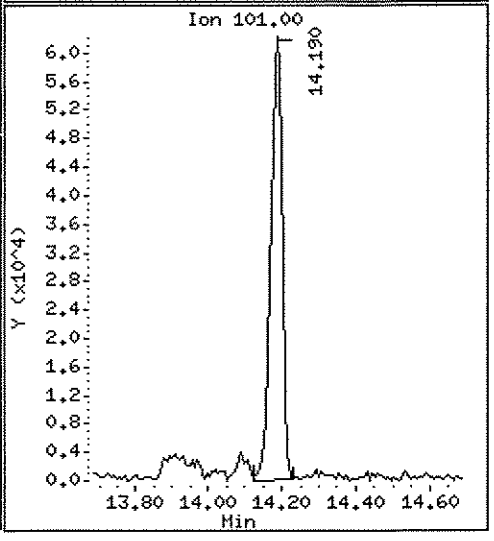


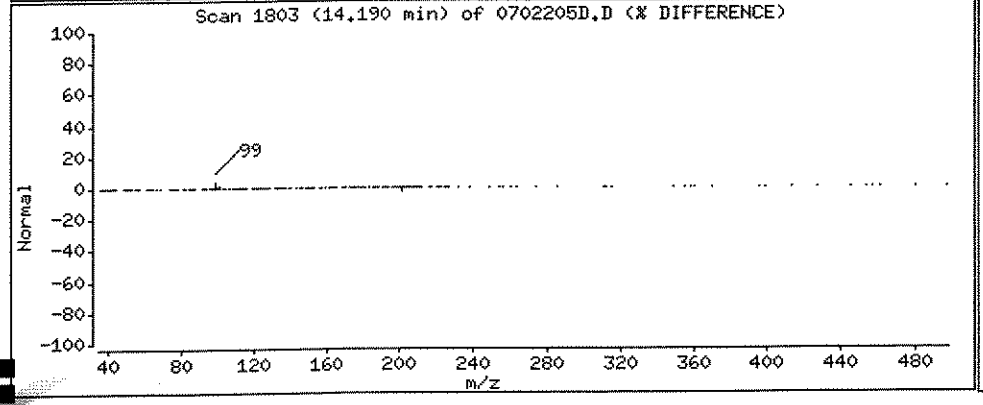












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

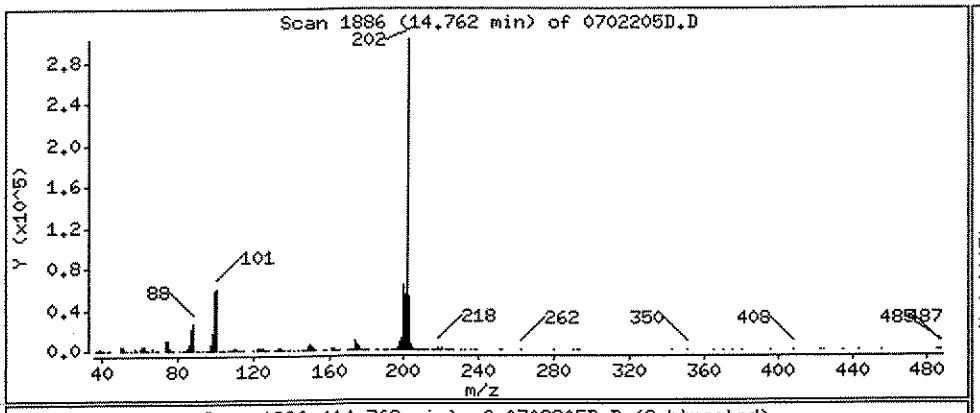
Client ID: 51CFM03S060706 Instrument: bna1.i

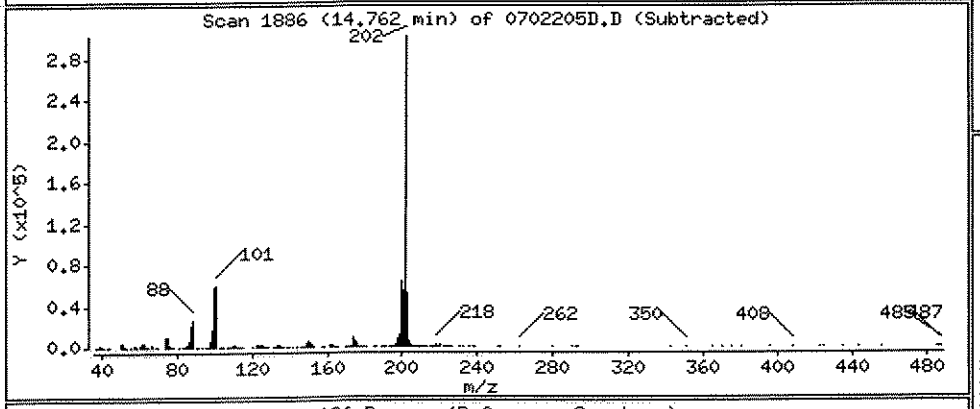
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

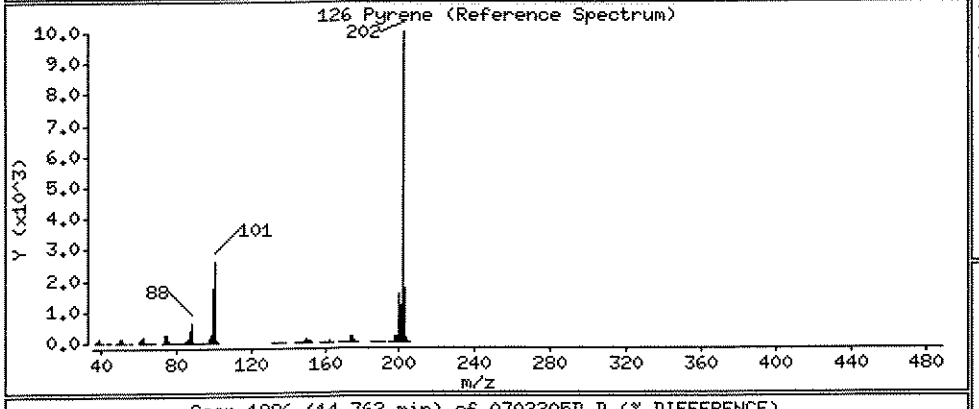
Volume Injected (uL): 0.5 Operator: SDB

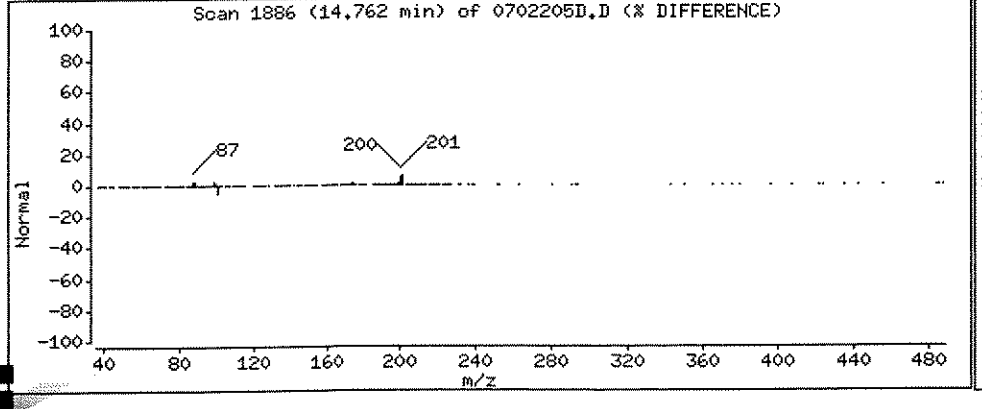
Column phase: fused silica Column diameter: 0.25

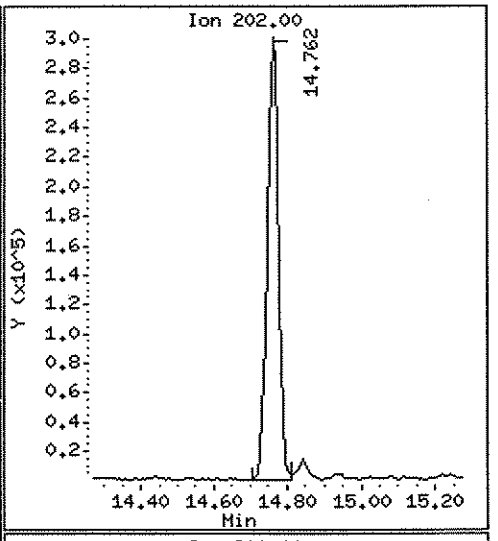
126 Pyrene Concentration: 10510 UG/KG

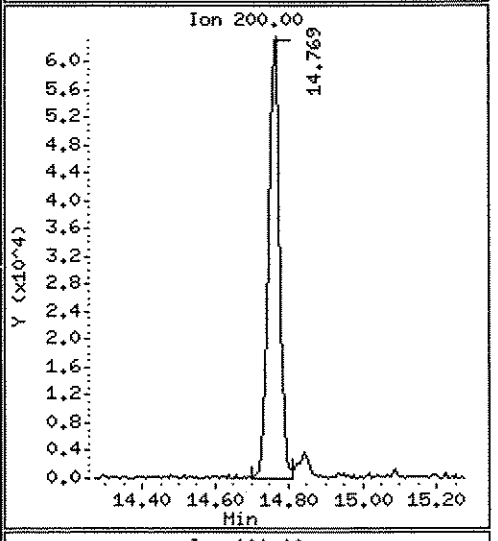


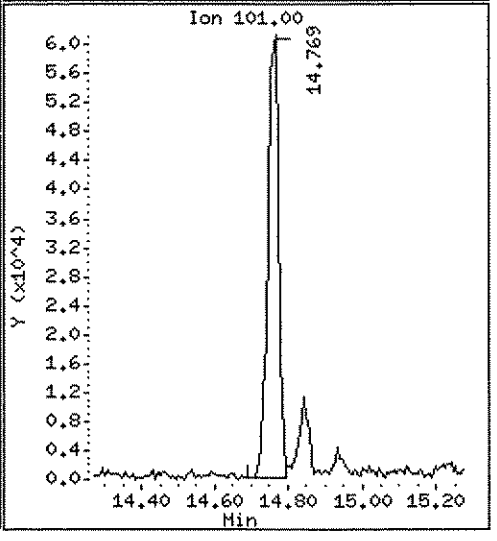












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

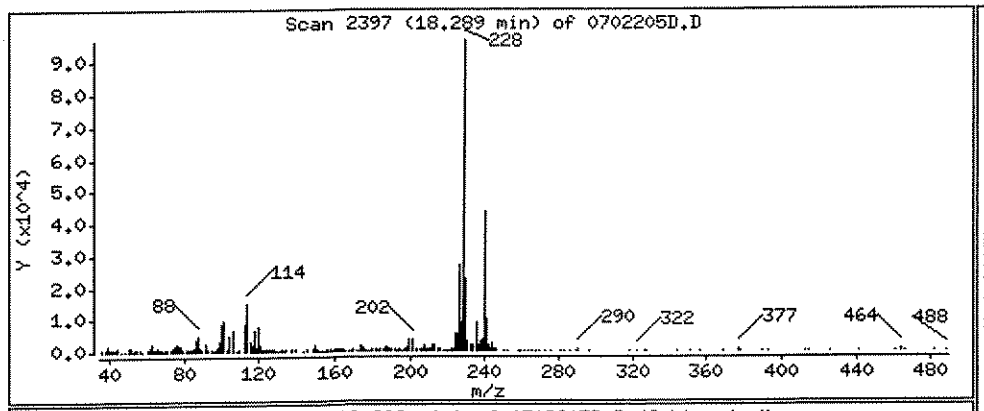
Client ID: 51CFM03S060706 Instrument: bna1.i

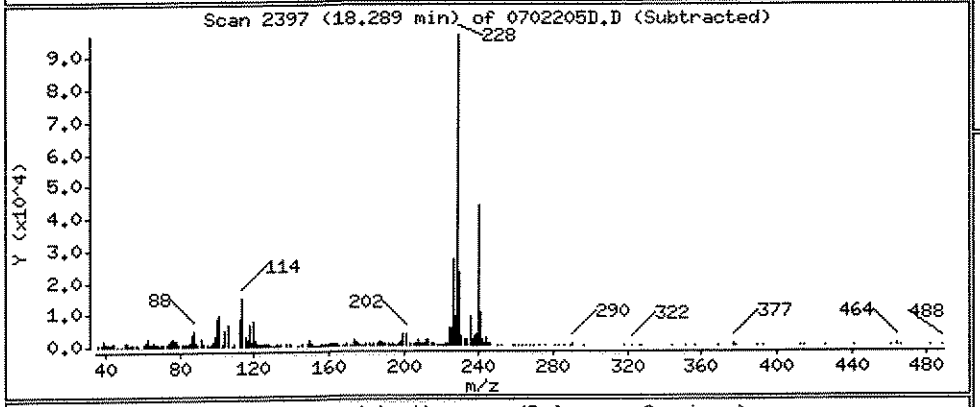
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

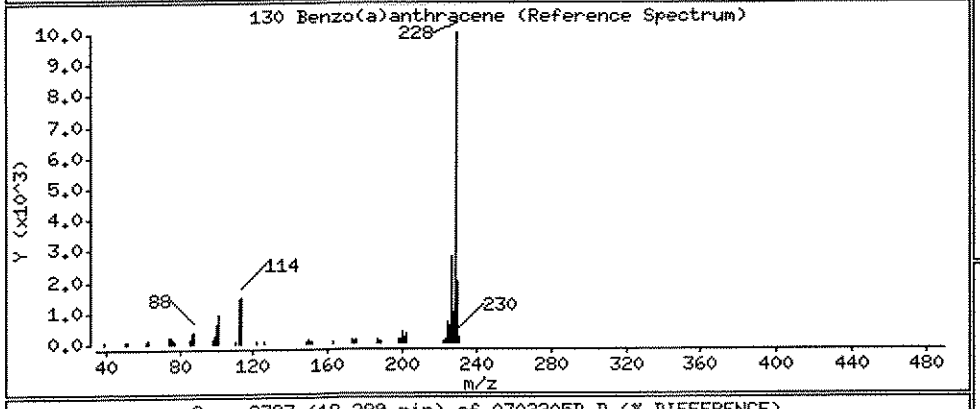
Volume Injected (uL): 0.5 Operator: SDB

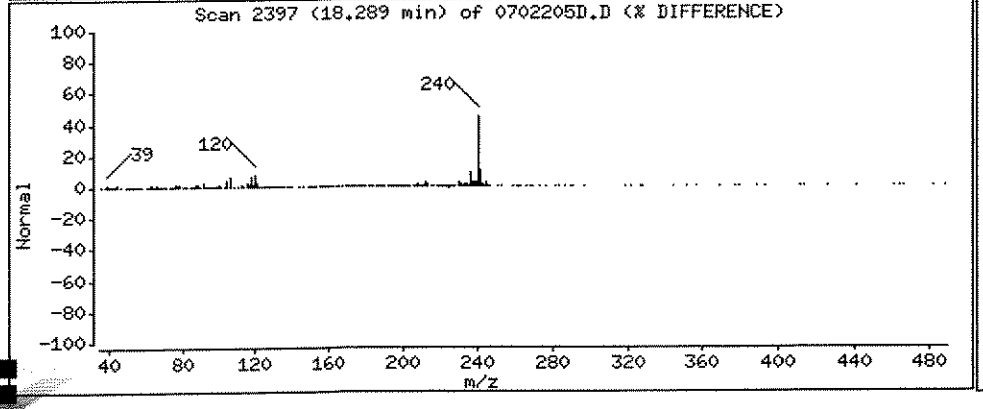
Column phase: fused silica Column diameter: 0.25

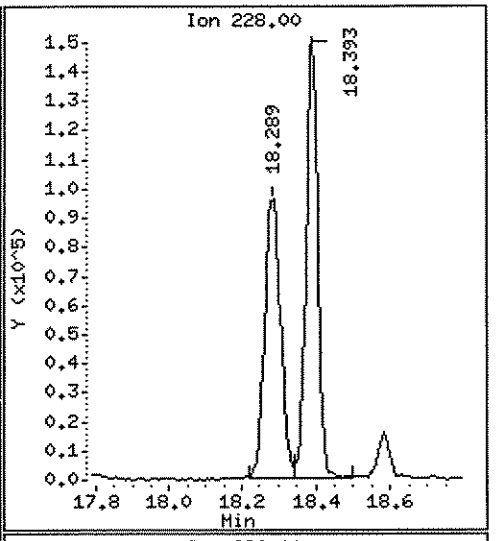
130 Benzo(a)anthracene Concentration: 5896 UG/KG

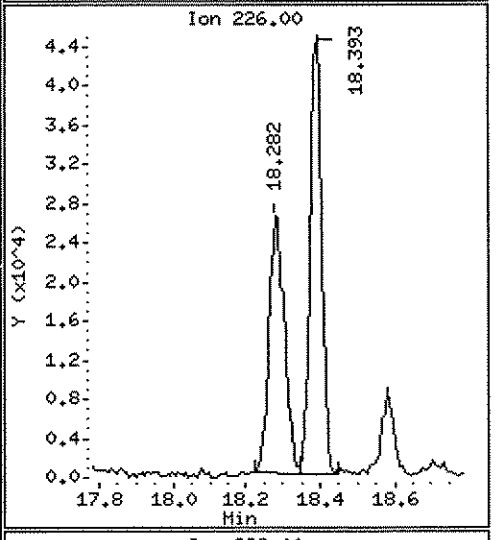


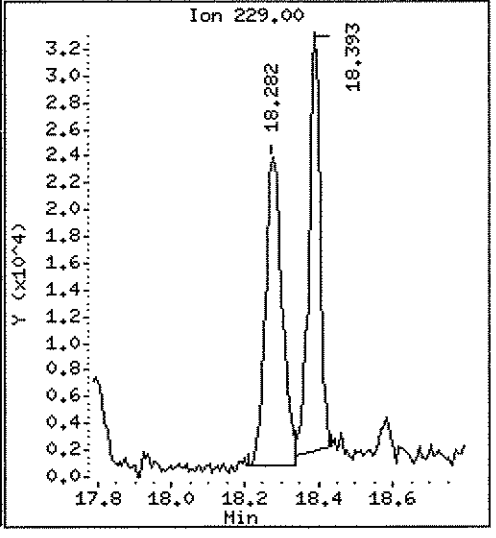












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

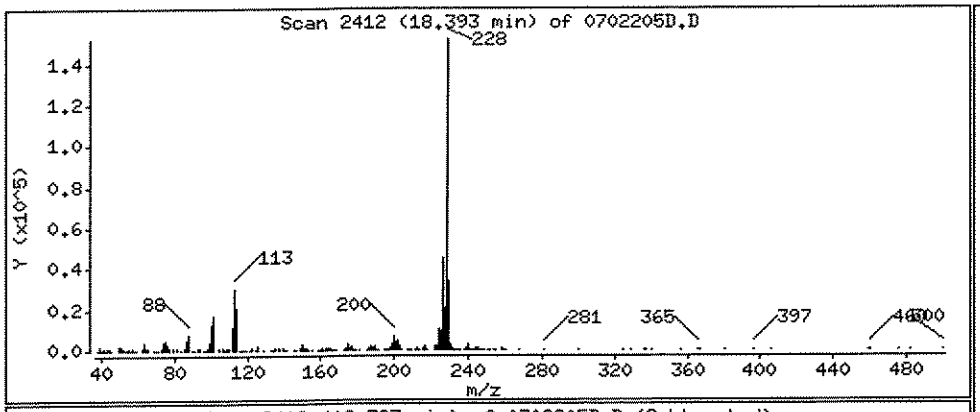
Client ID: 51CFM03S060706 Instrument: bna1.i

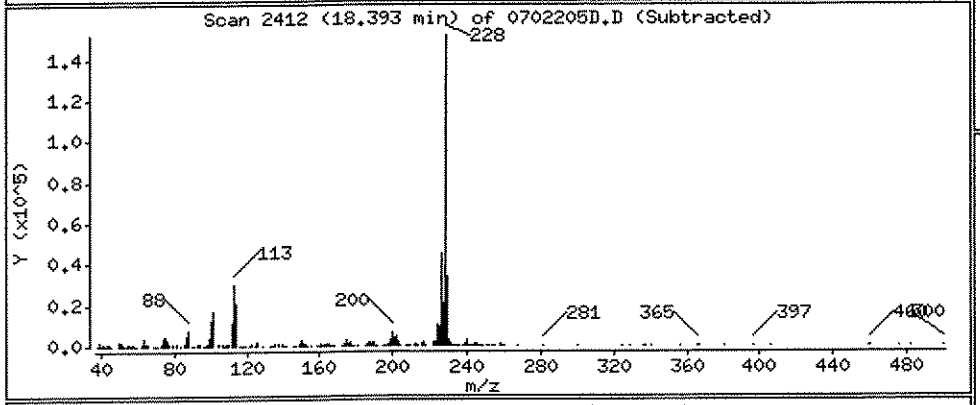
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

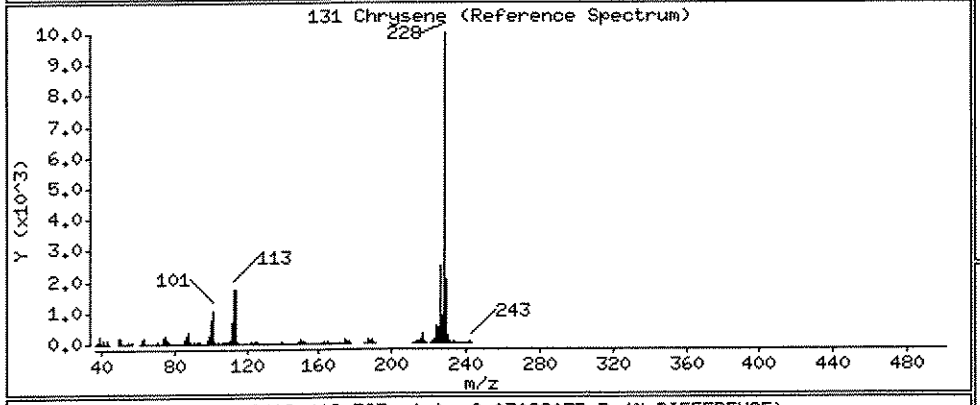
Volume Injected (uL): 0.5 Operator: SDB

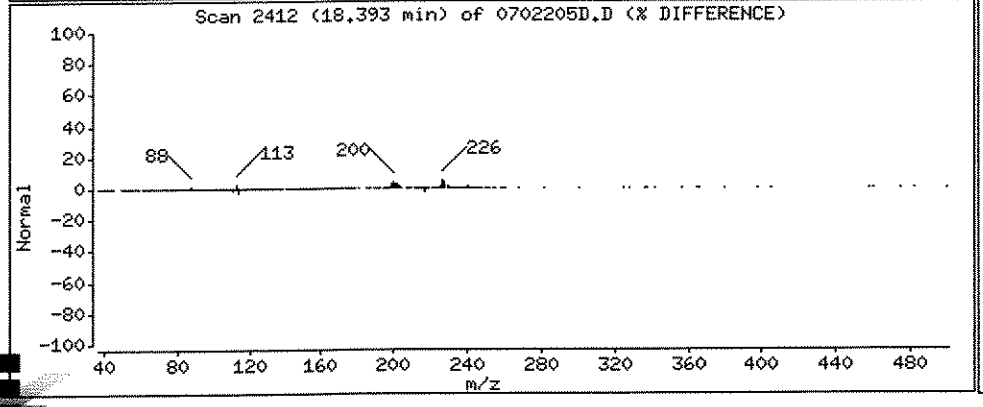
Column phase: fused silica Column diameter: 0.25

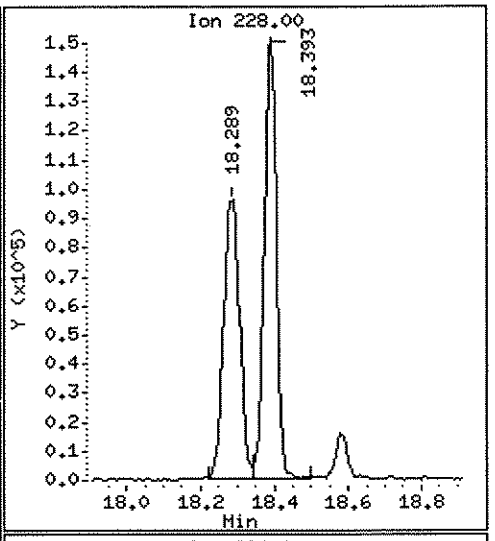
131 Chrysene Concentration: 7370 UG/KG

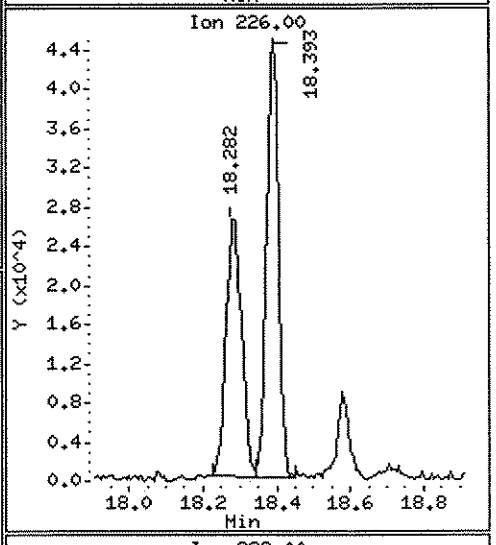


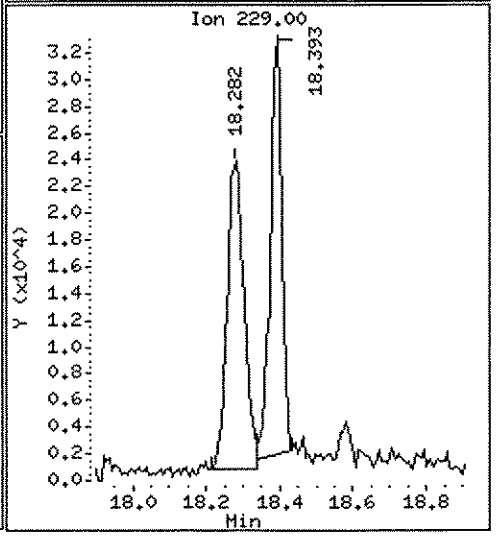












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

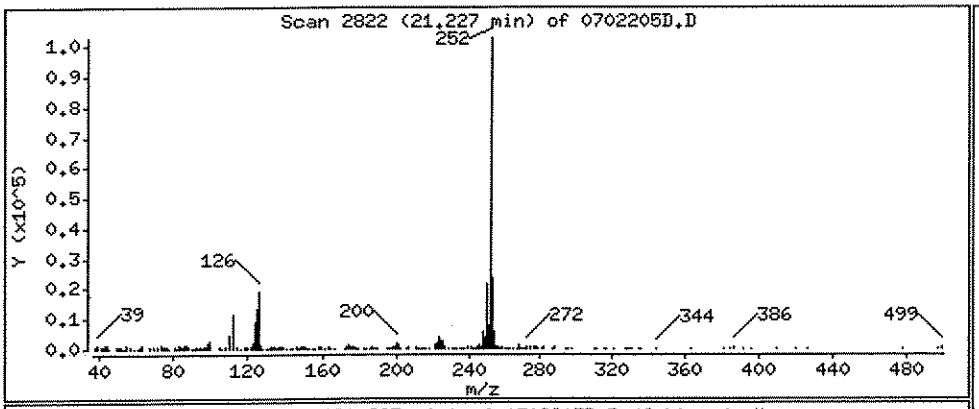
Client ID: 51CFM03S060706 Instrument: bna1.i

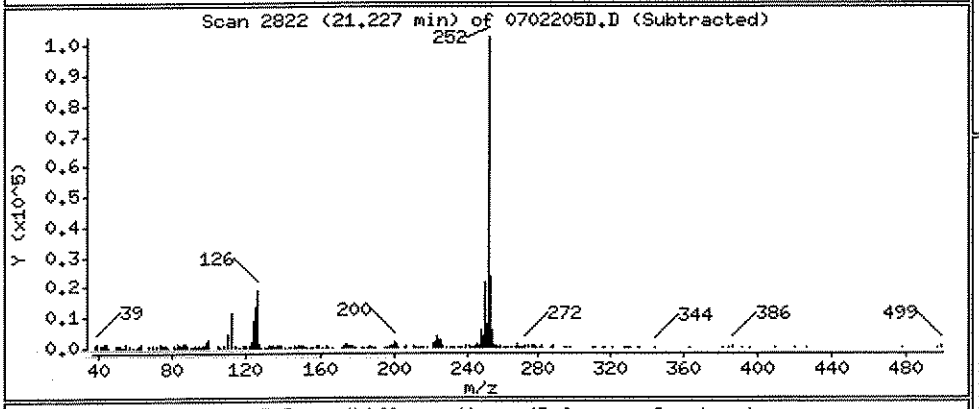
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

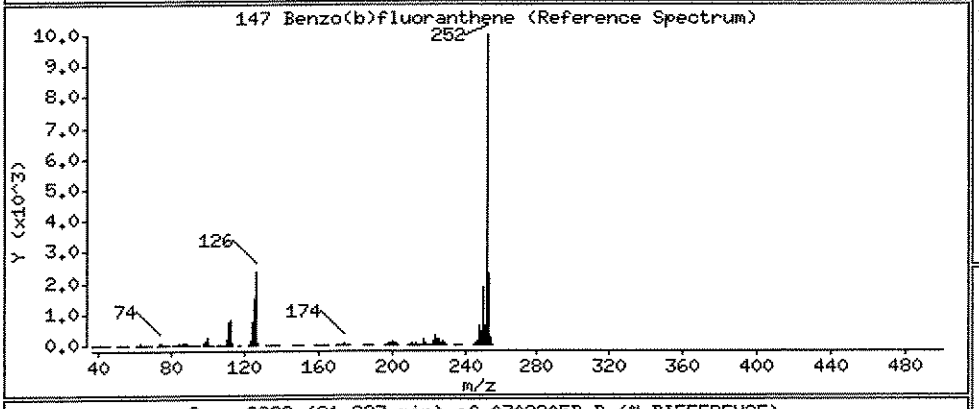
Volume Injected (uL): 0.5 Operator: SDB

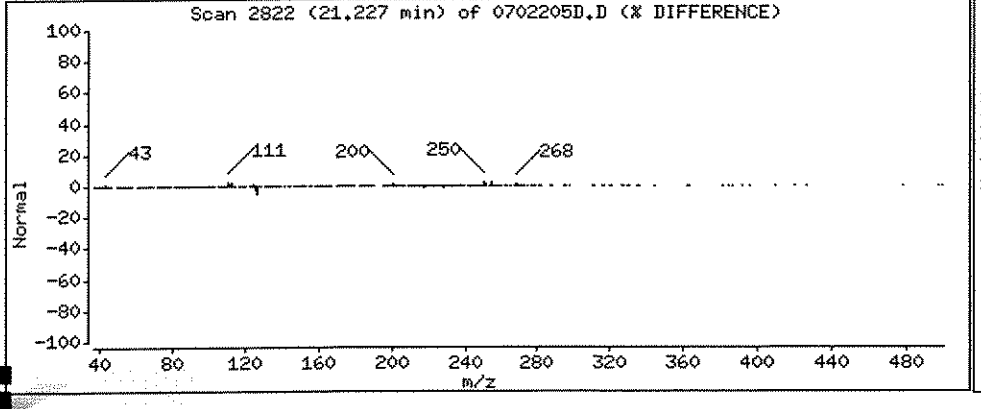
Column phase: fused silica Column diameter: 0.25

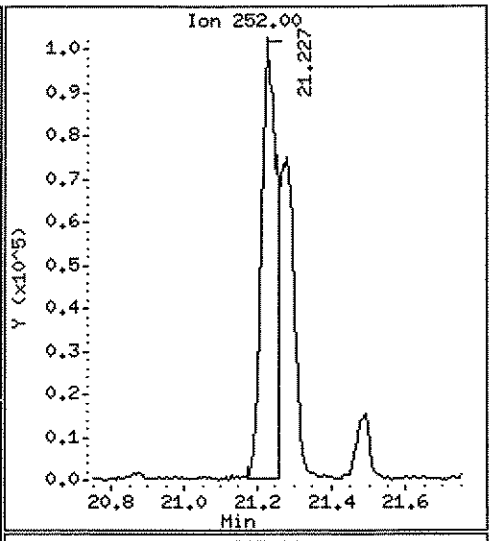
147 Benzo(b)fluoranthene Concentration: 6088 UG/KG

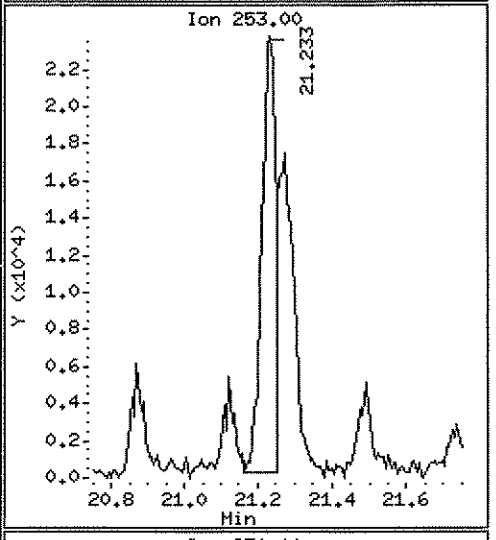


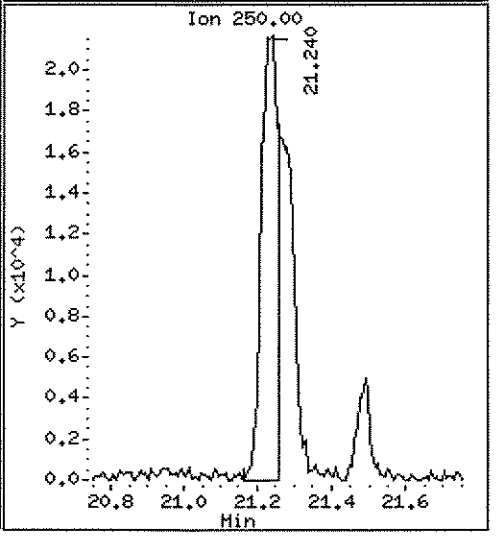












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702205D.D

Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

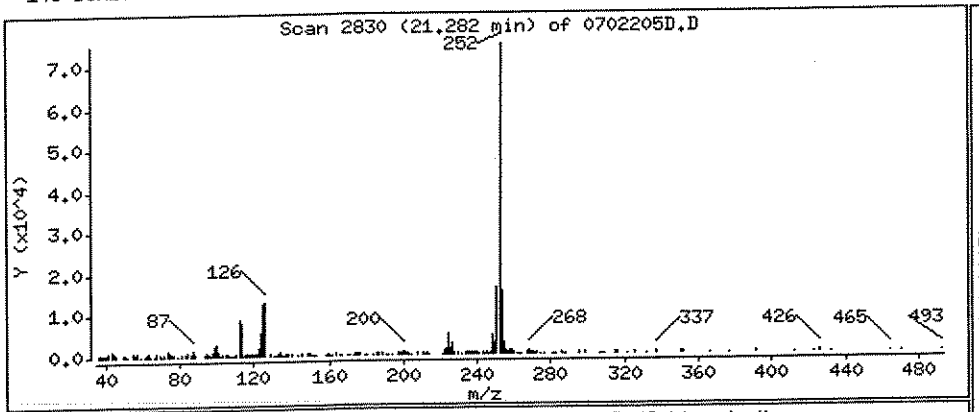
Operator: SDB

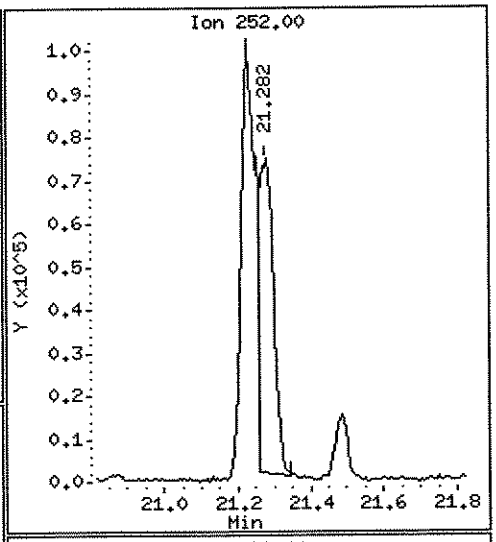
Column phase: fused silica

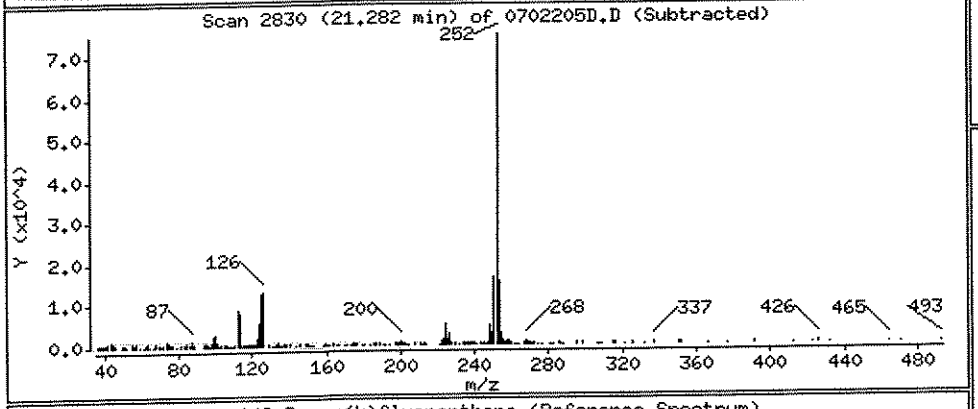
Column diameter: 0.25

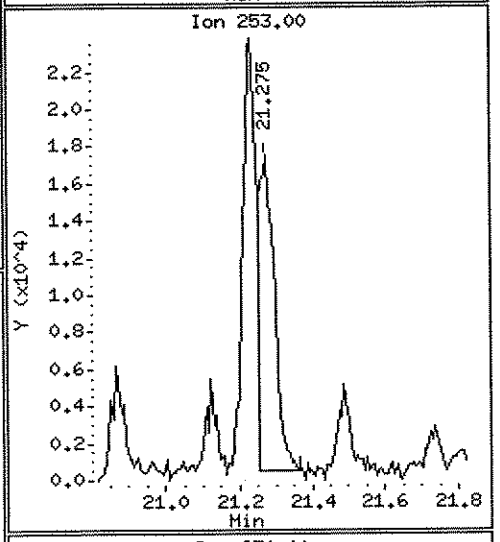
148 Benzo(k)fluoranthene

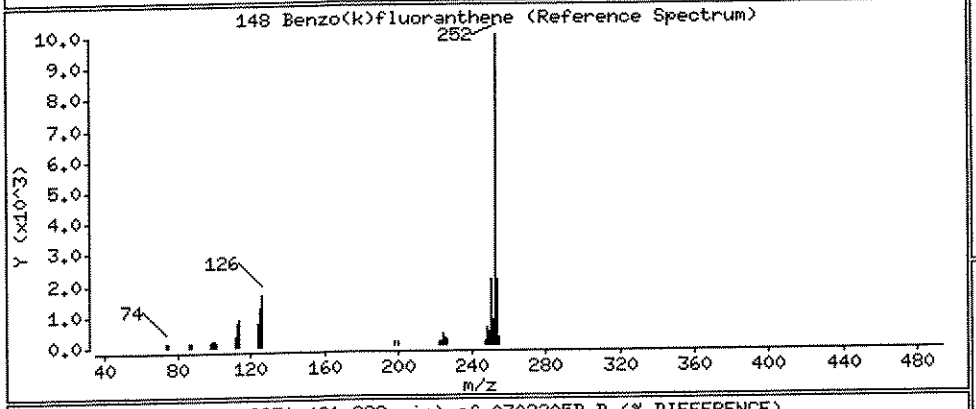
Concentration: 3915 UG/KG

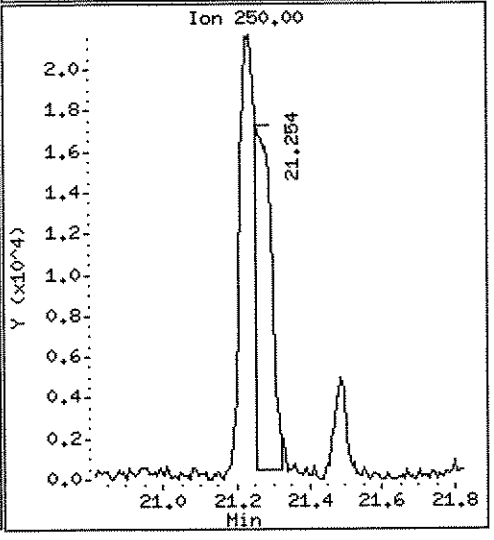


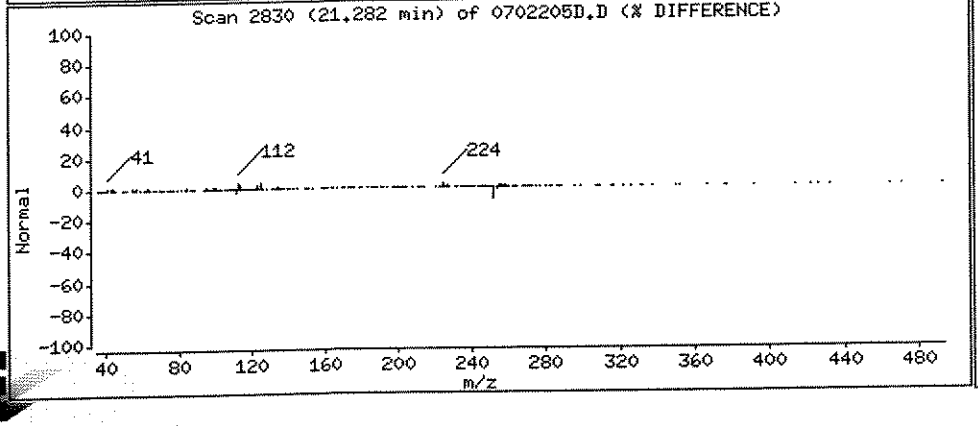












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

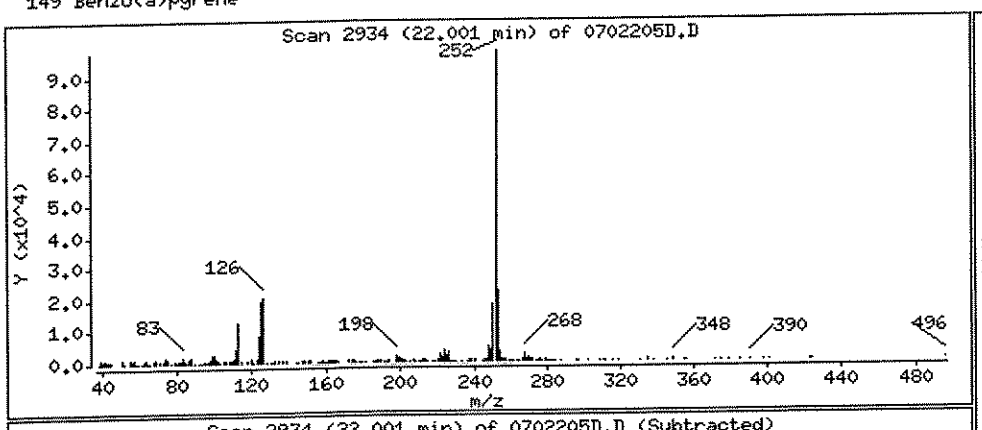
Operator: SDB

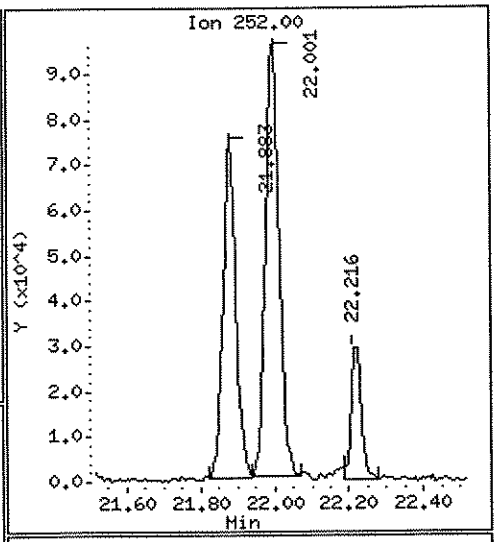
Column phase: fused silica

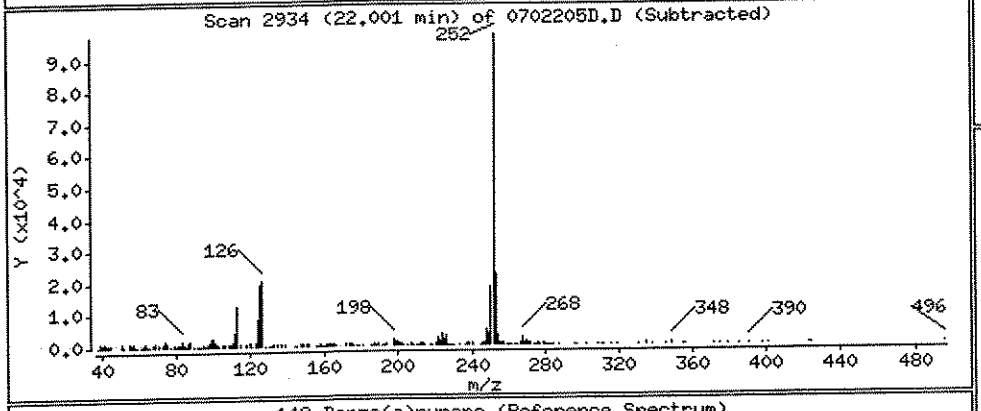
Column diameter: 0.25

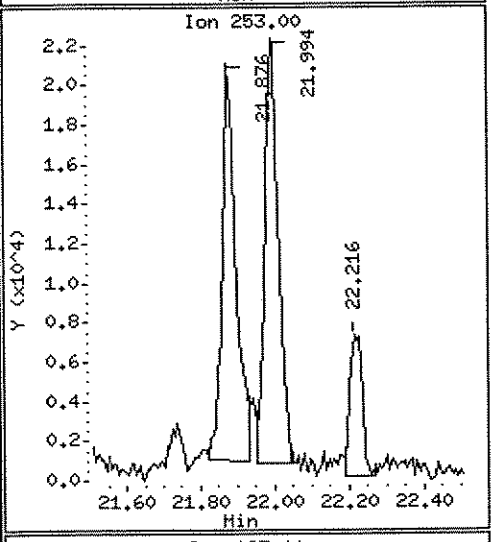
149 Benzo(a)pyrene

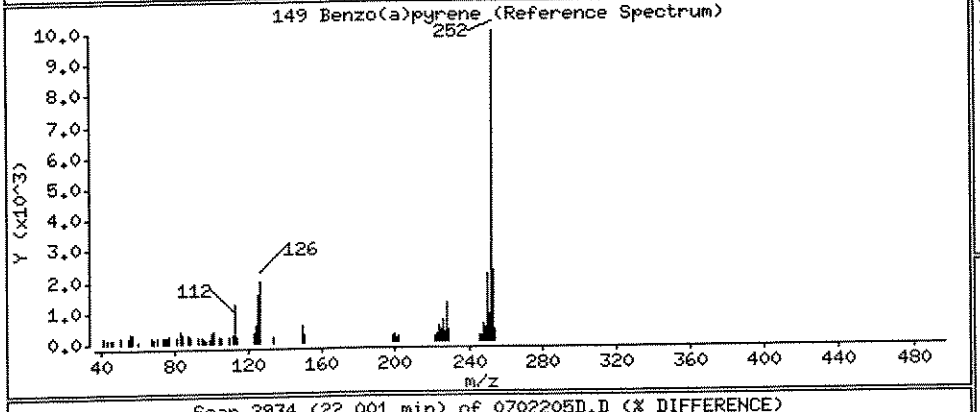
Concentration: 5664 UG/KG

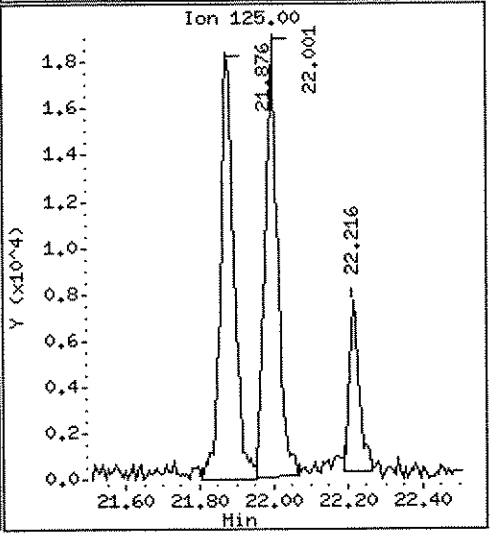


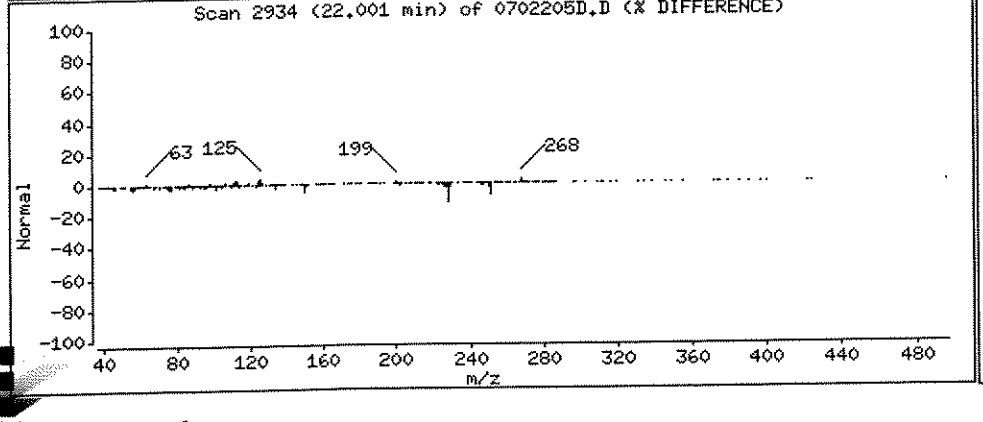












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Date : 11-JUL-2006 14:29

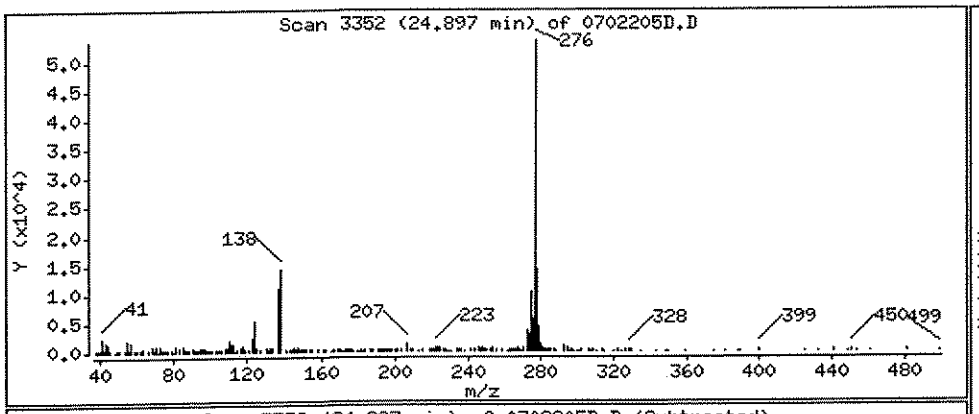
Client ID: 51CFM03S060706 Instrument: bna1.i

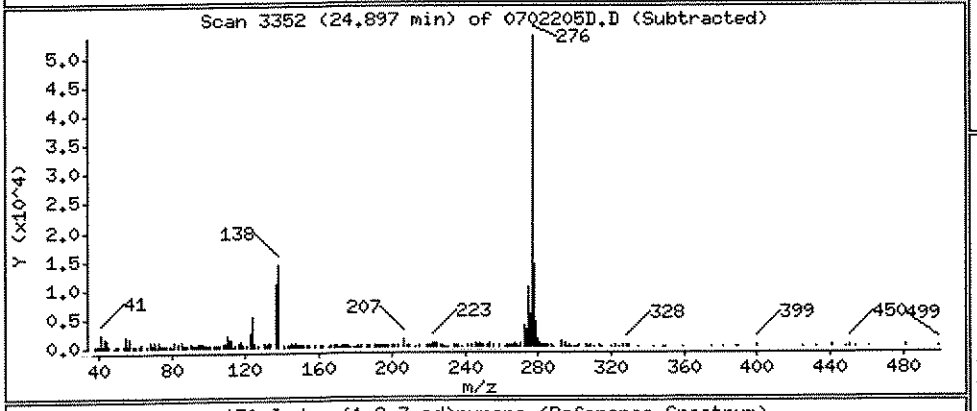
Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

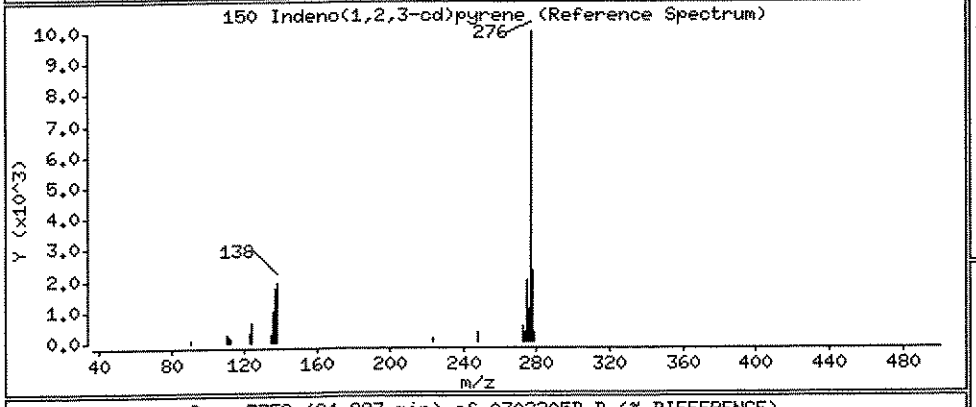
Volume Injected (uL): 0.5 Operator: SDB

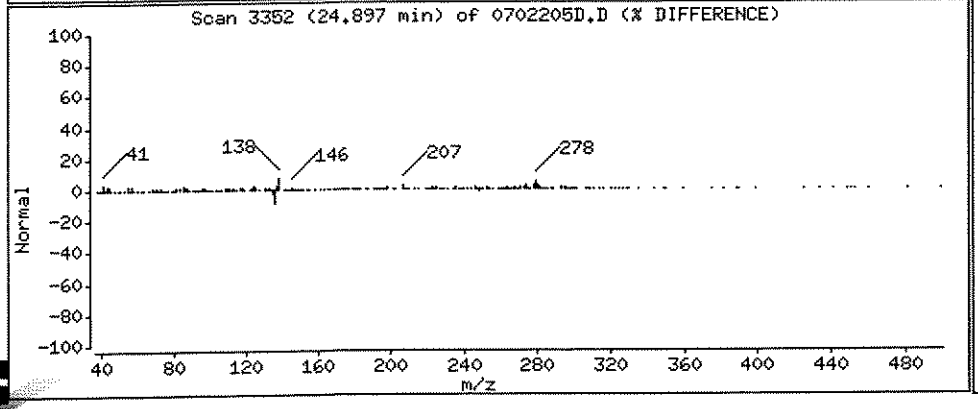
Column phase: fused silica Column diameter: 0.25

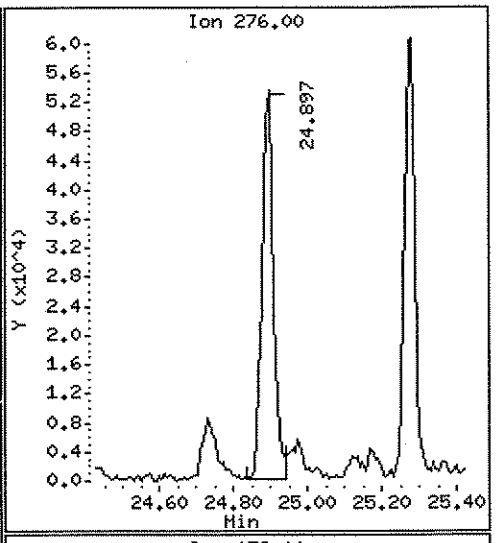
150 Indeno(1,2,3-cd)pyrene Concentration: 3193 UG/KG

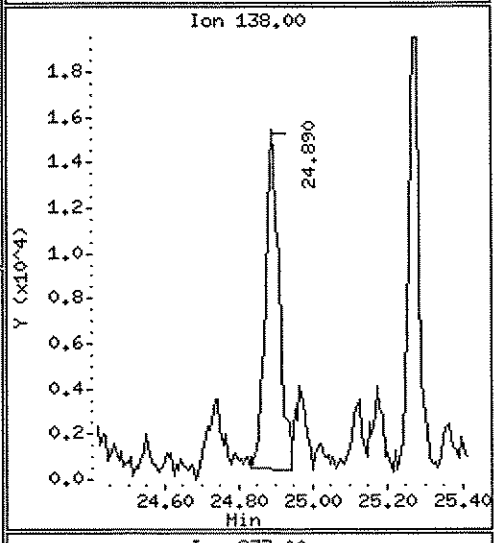


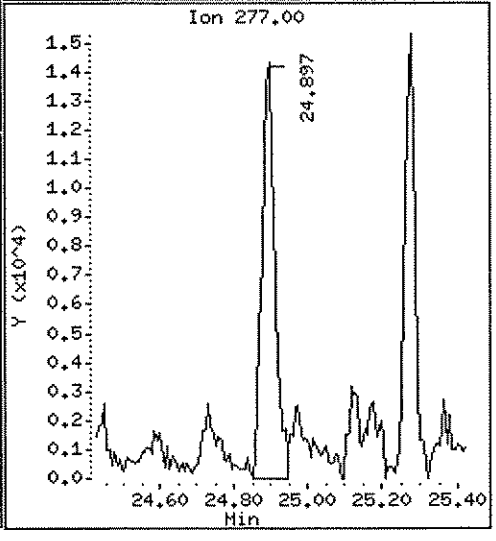












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

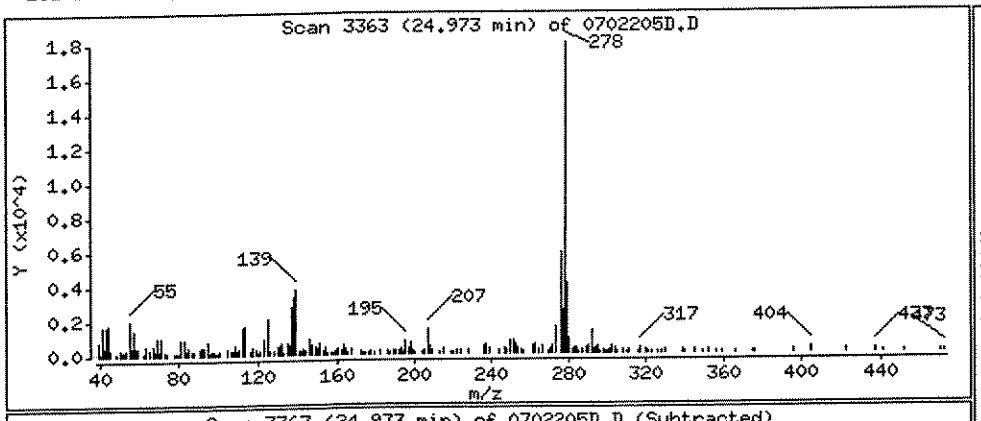
Operator: SDB

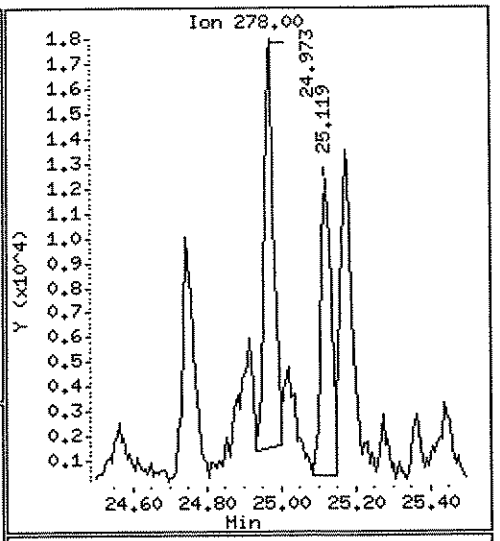
Column phase: fused silica

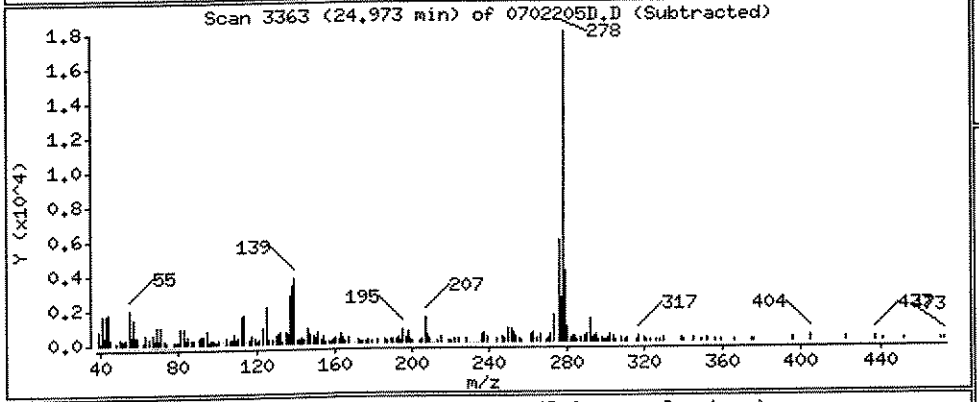
Column diameter: 0.25

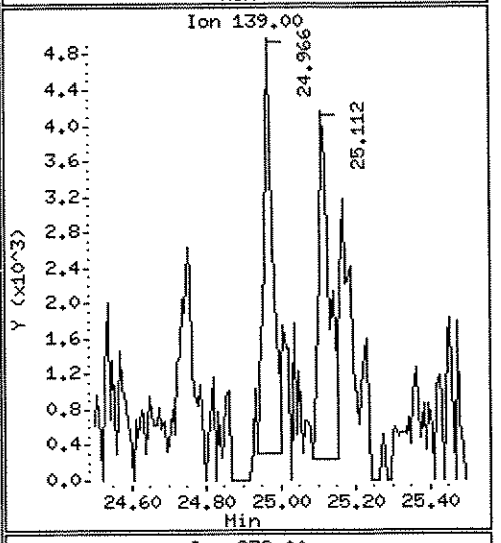
151 Dibenz(a,h)anthracene

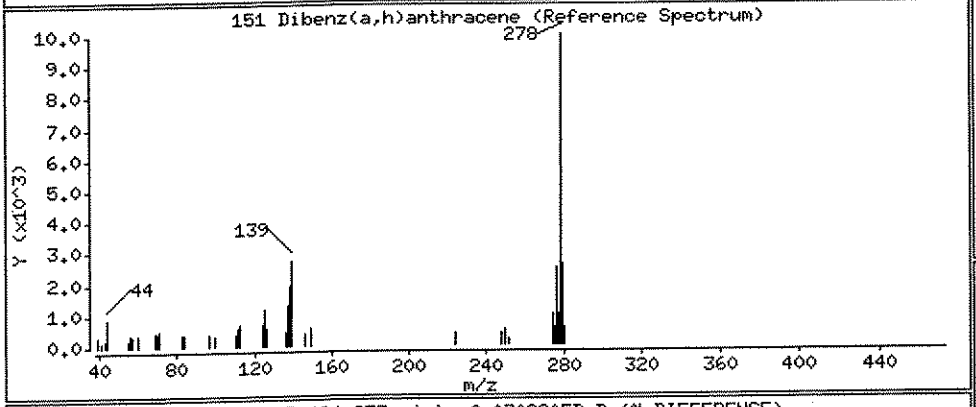
Concentration: 859.6 UG/KG

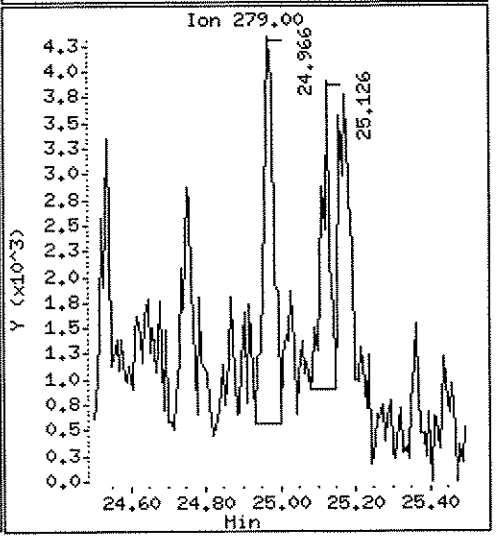


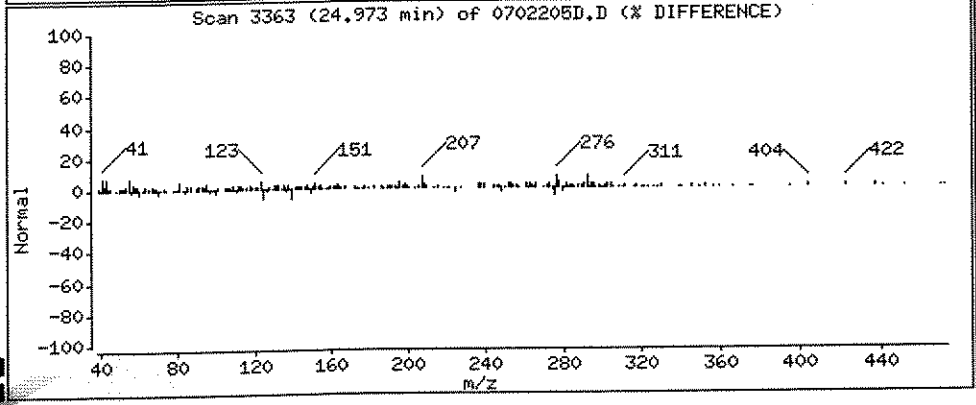












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Date : 11-JUL-2006 14:29

Client ID: 51CFM03S060706

Instrument: bna1.i

Sample Info: 0607022-05;15.0;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

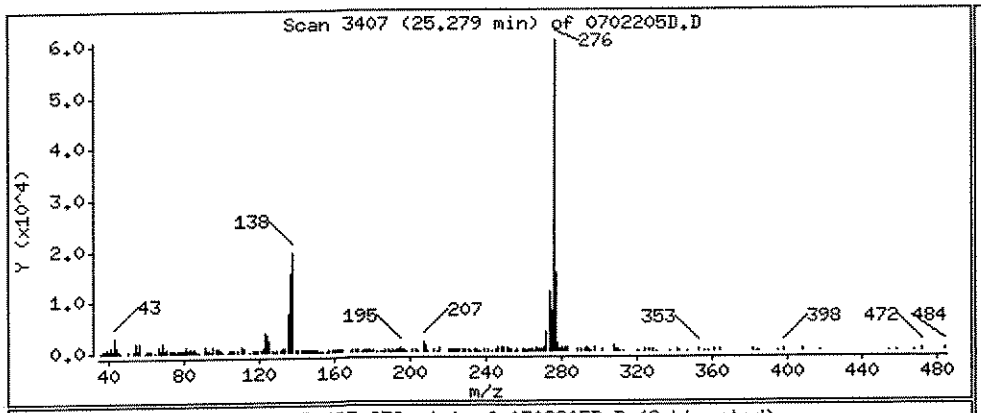
Operator: SDB

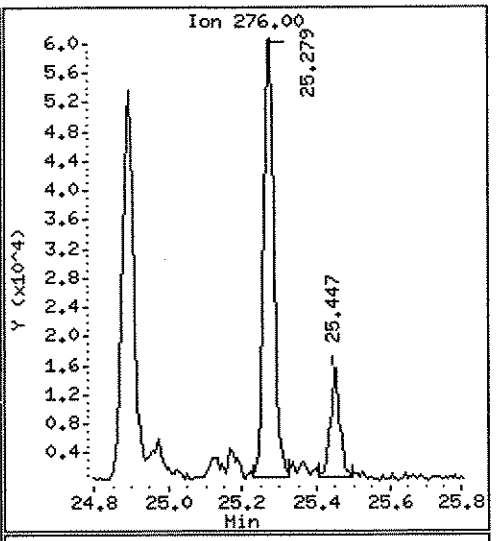
Column phase: fused silica

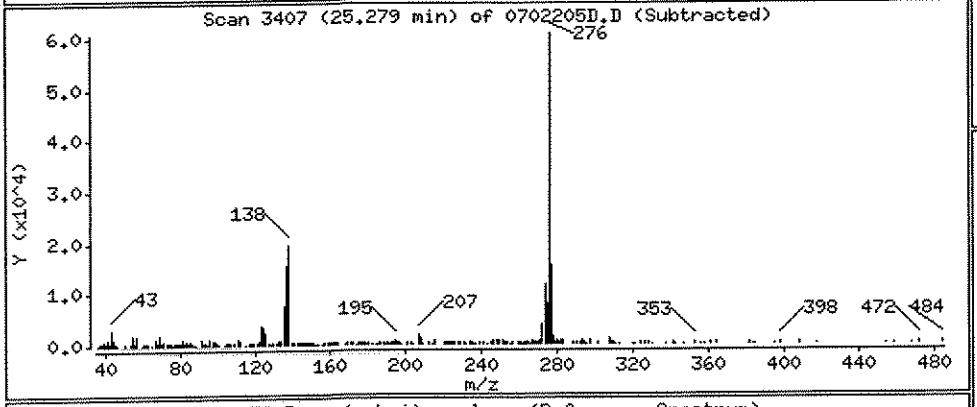
Column diameter: 0.25

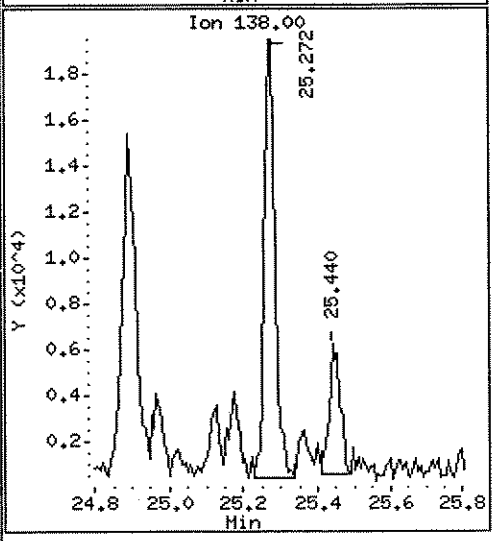
152 Benzo(g,h,i)perylene

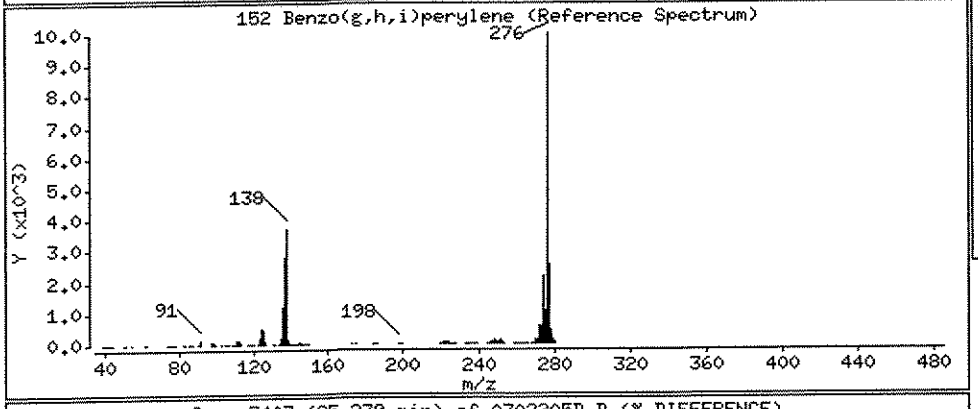
Concentration: 3037 UG/KG

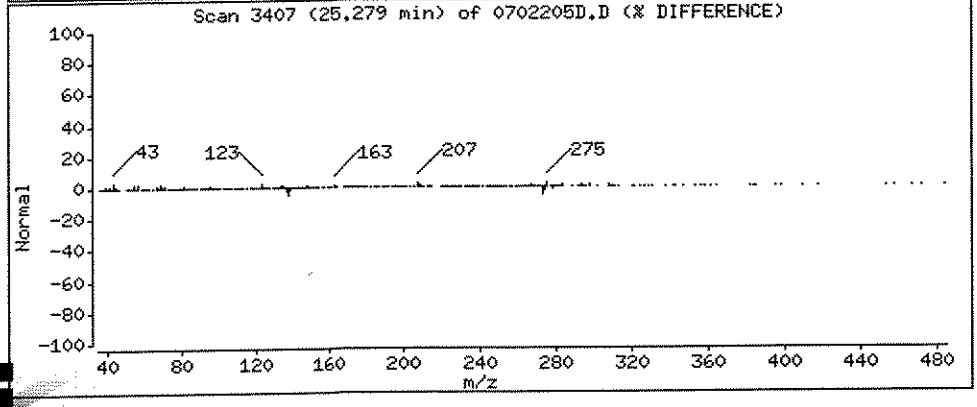












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 16:52

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	6000	E
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	8500	E
56-55-3	Benzo(a)anthracene	21	170	25000	E
205-99-2	Benzo(b)fluoranthene	21	170	32000	E
207-08-9	Benzo(k)fluoranthene	21	170	12000	E
191-24-2	Benzo(g,h,i)perylene	21	170	7400	E
50-32-8	Benzo(a)pyrene	21	100	22000	E
218-01-9	Chrysene	21	170	28000	E
53-70-3	Dibenz(a,h)anthracene	21	100	2500	
206-44-0	Fluoranthene	21	170	31000	E
86-73-7	Fluorene	21	170	6300	E
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	8000	E
91-57-6	2-Methylnaphthalene	21	170	2000	
90-12-0	1-Methylnaphthalene	52	170	1300	
91-20-3	Naphthalene	21	170	1000	
85-01-8	Phenanthrene	21	170	42000	E
129-00-0	Pyrene	21	170	66000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 10-JUL-2006 16:52
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.278	4.276	(1.000)	579739	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	2005483	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.892)	1258841	57.5013	1998
47 Naphthalene	128	5.300	5.307	(1.004)	1446103	29.0019	1008
51 2-Methylnaphthalene	141	6.066	6.062	(1.149)	1646817	57.4776	1997
52 1-Methylnaphthalene	141	6.197	6.203	(1.174)	1006203	36.7885	1278
* 65 Acenaphthene-d10	164	7.718	7.719	(1.000)	937164	40.0000	
$ 70 2-Fluorobiphenyl	172	6.619	6.617	(0.858)	1906118	63.9133	2221
76 Acenaphthene	153	7.808	7.781	(1.012)	4675492	172.866	6006(A)
84 Fluorene	166	8.856	8.814	(1.147)	5239382	181.117	6293(A)
* 97 Phenanthrene-d10	188	11.115	11.020	(1.000)	821642	40.0000	(M)
106 Phenanthrene	178	11.268	11.082	(1.018)	28053711	1197.51	41610(A)
107 Anthracene	178	11.338	11.192	(1.025)	5636537	243.706	8468(AH)

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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Report Date: 11-Jul-2006 13:57

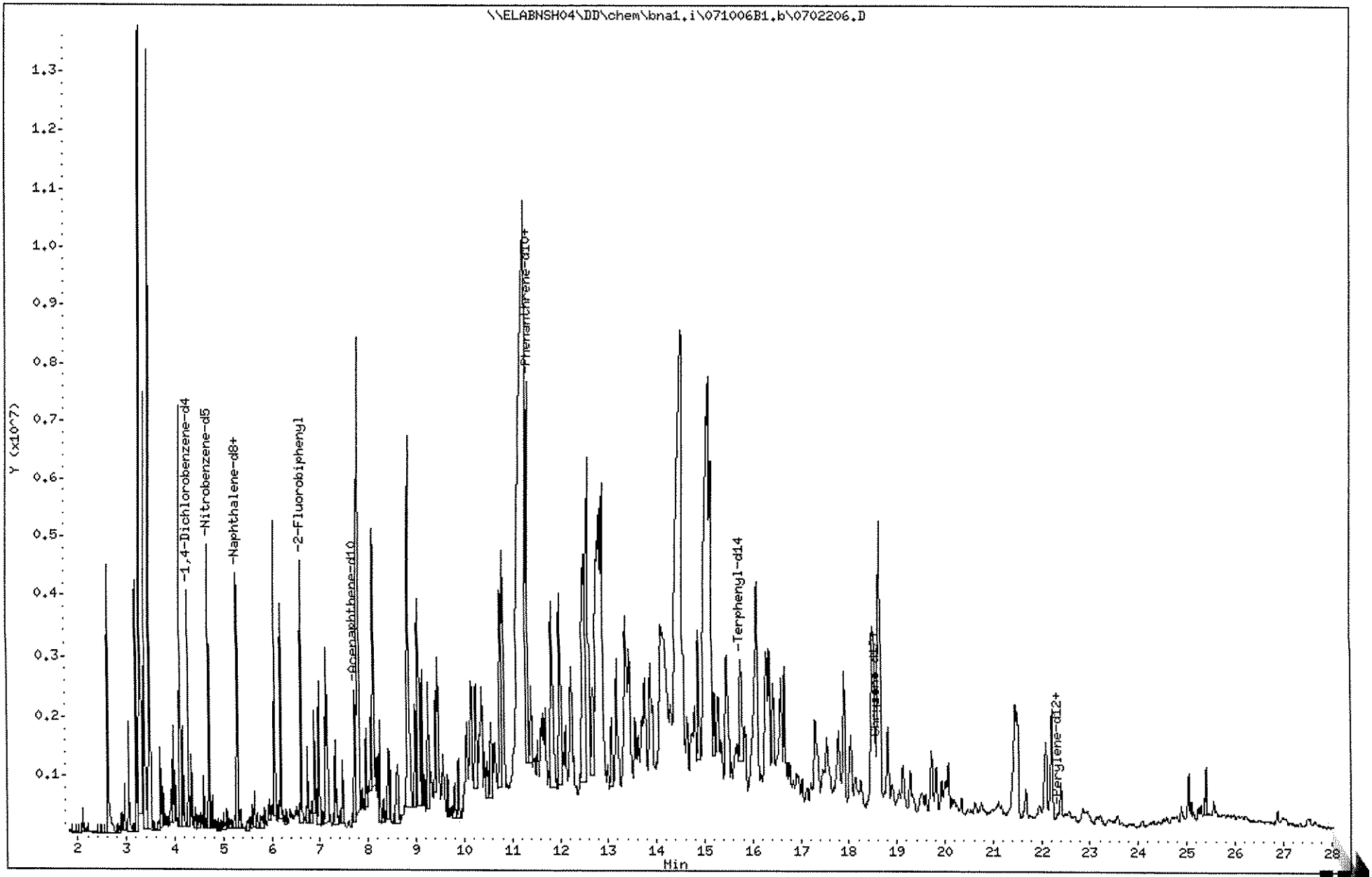
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)	
110 Fluoranthene	202	14.530	14.296	(1.313)	20504768	884.075	30720(A)	OLW
* 124 Chrysene-d12	240	18.561	18.441	(1.000)	223360	40.0000		
126 Pyrene	202	15.089	14.878	(0.813)	16998020	1905.56	66210(A)	OLW
$ 127 Terphenyl-d14	244	15.747	15.647	(0.848)	846167	150.026	5213(AR)	
130 Benzo(a)anthracene	228	18.519	18.400	(0.998)	5142502	714.566	24830(A)	OLW
131 Chrysene	228	18.652	18.510	(1.005)	5349407	813.833	28280(AH)	OLW
* 145 Perylene-d12	264	22.333	22.273	(1.000)	114069	40.0000		
147 Benzo(b)fluoranthene	252	21.466	21.352	(0.961)	3188150	907.317	31520(AM)	OLW
148 Benzo(k)fluoranthene	252	21.515	21.421	(0.963)	1273320	349.275	12140(AM)	OLW
149 Benzo(a)pyrene	252	22.227	22.121	(0.995)	1933555	638.141	22170(AH)	OLW
150 Indeno(1,2,3-cd)pyrene	276	25.044	24.990	(1.121)	593029	229.400	7971(A)	OLW
151 Dibenz(a,h)anthracene	278	25.093	25.065	(1.124)	187069	71.8803	2498	
152 Benzo(g,h,i)perylene	276	25.406	25.361	(1.138)	570644	212.712	7391(A)	OLW

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D
Date : 10-JUL-2006 16:52
Client ID: 51CFM04S060706
Instrument: bna1.i
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000148



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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

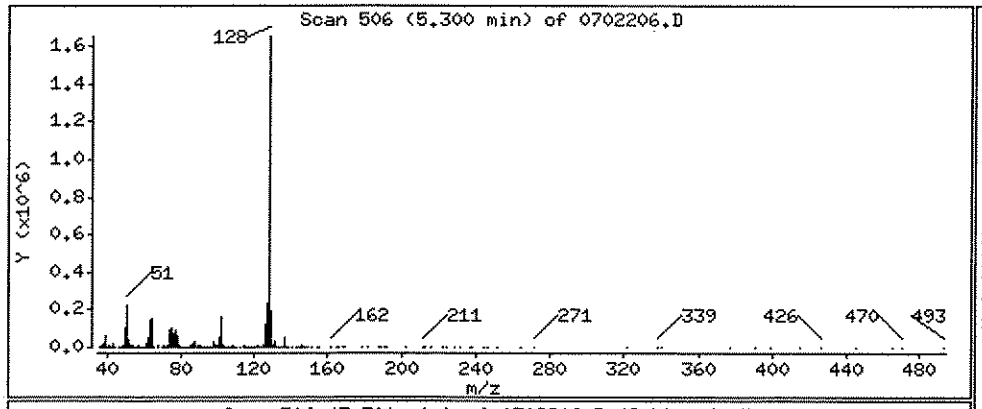
Client ID: 51CFM04S060706 Instrument: bna1.i

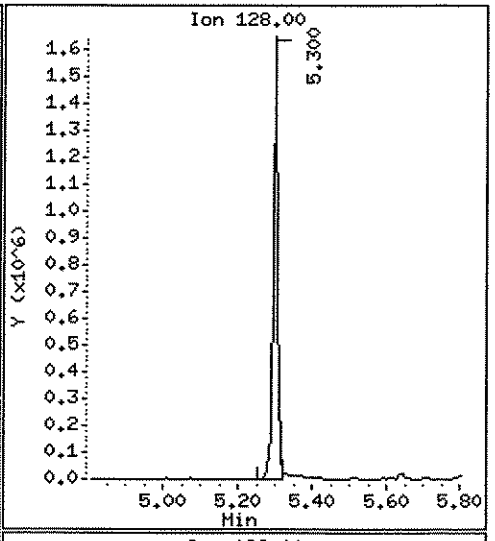
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

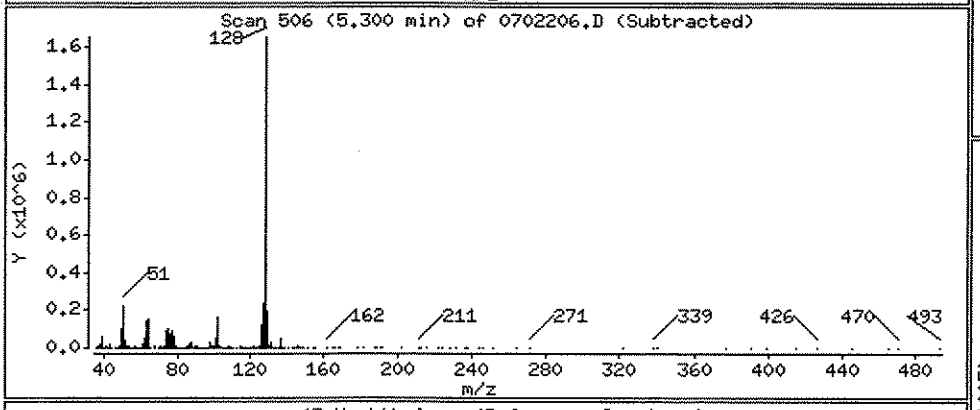
Volume Injected (uL): 0.5 Operator: SDB

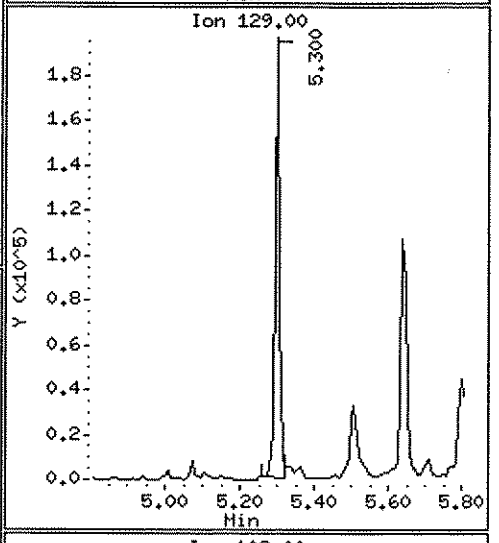
Column phase: fused silica Column diameter: 0.25

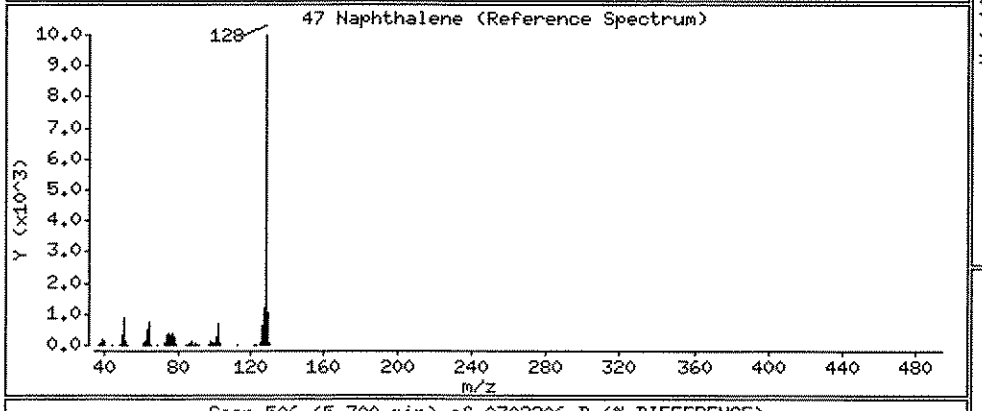
47 Naphthalene Concentration: 1008 UG/KG

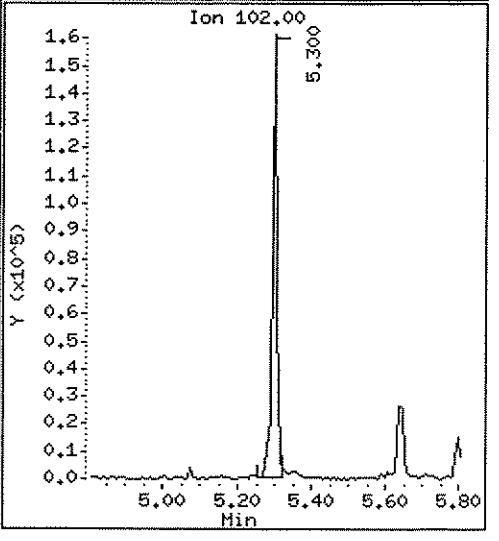


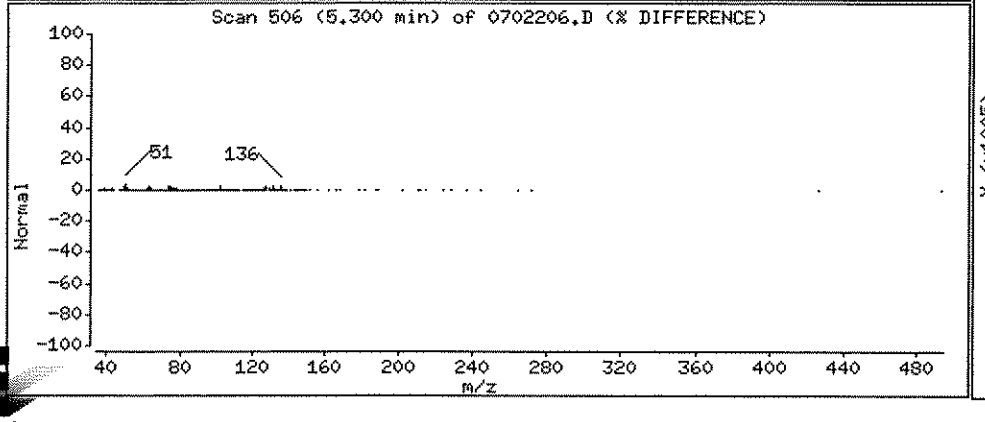












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Date : 10-JUL-2006 16:52

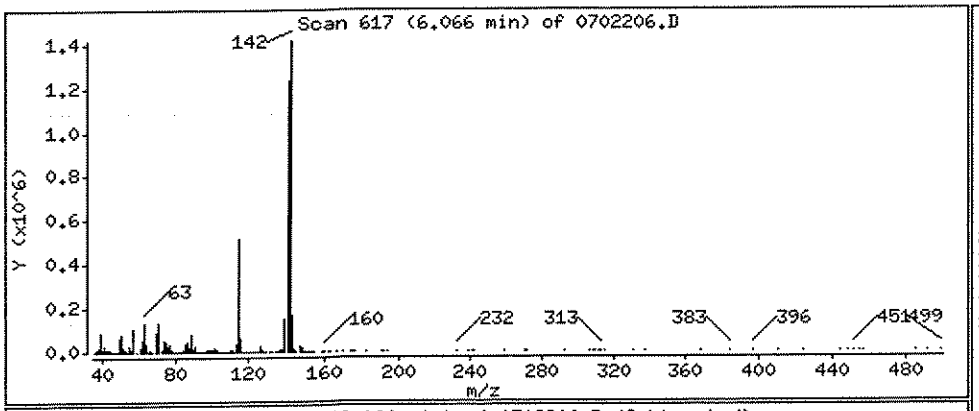
Client ID: 51CFM04S060706 Instrument: bna1.i

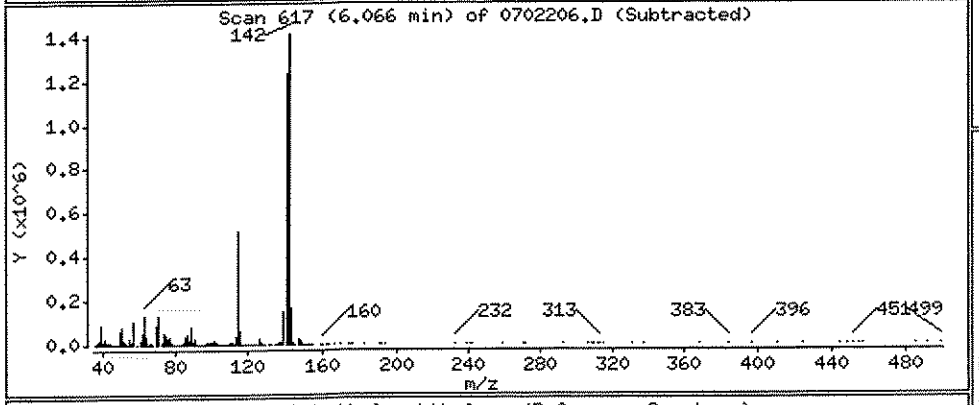
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

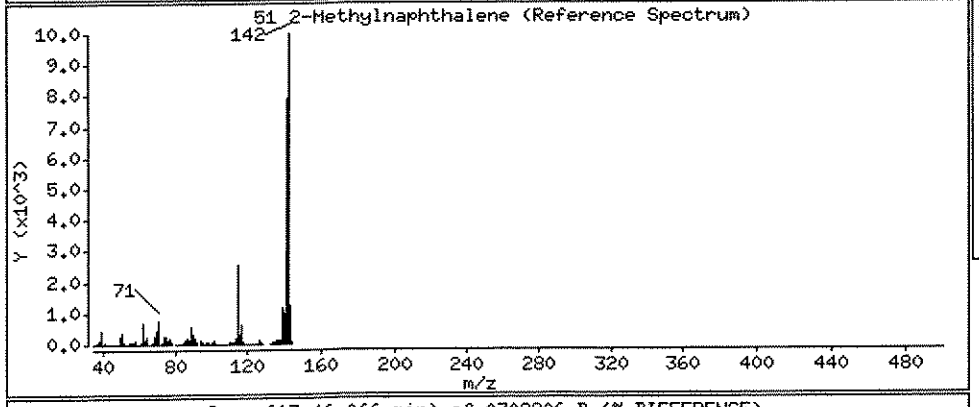
Volume Injected (uL): 0.5 Operator: SDB

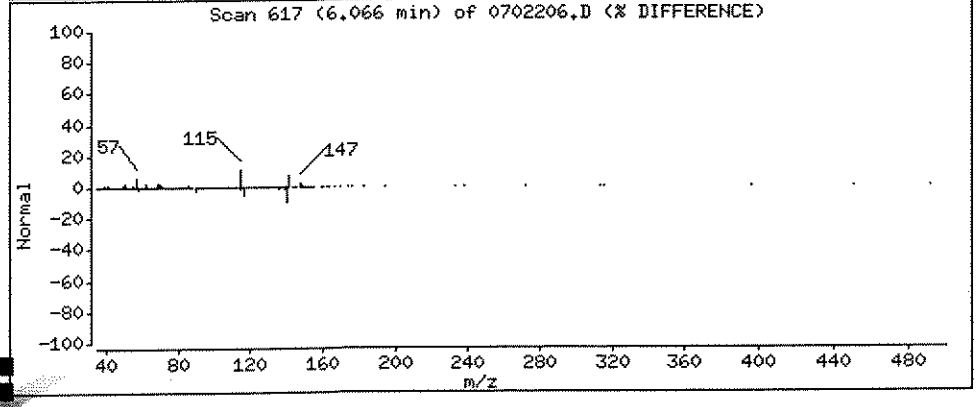
Column phase: fused silica Column diameter: 0.25

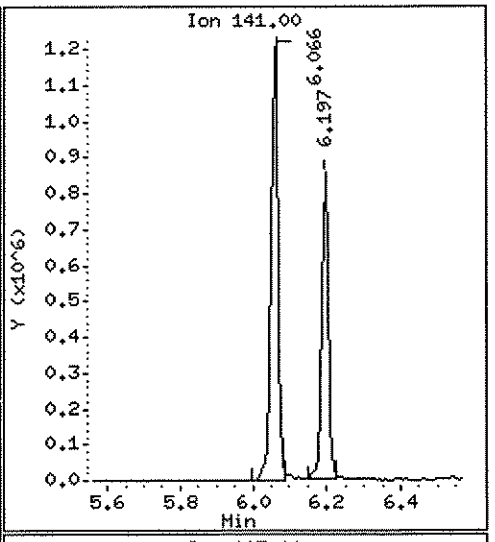
51 2-Methylnaphthalene Concentration: 1997 UG/KG

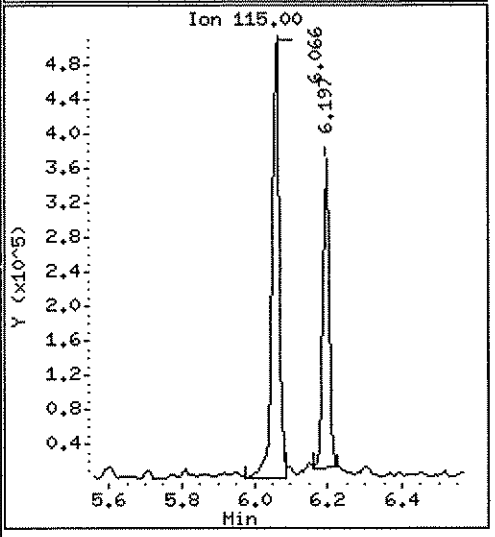












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

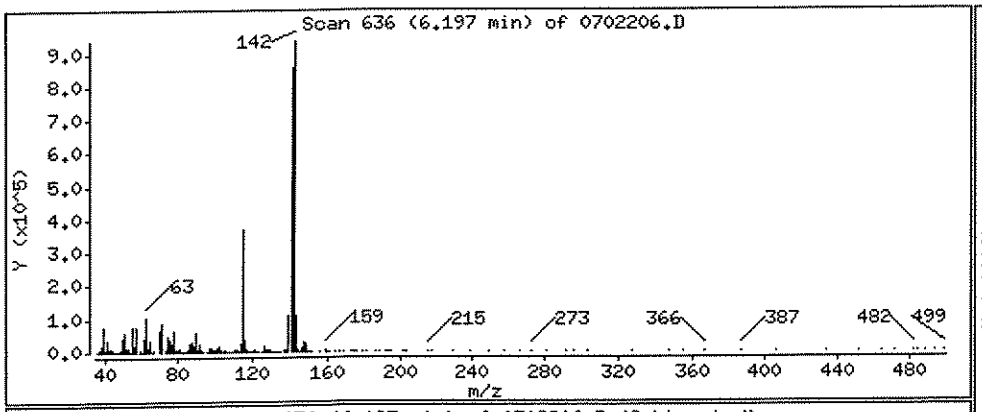
Client ID: 51CFM04S060706 Instrument: bna1.i

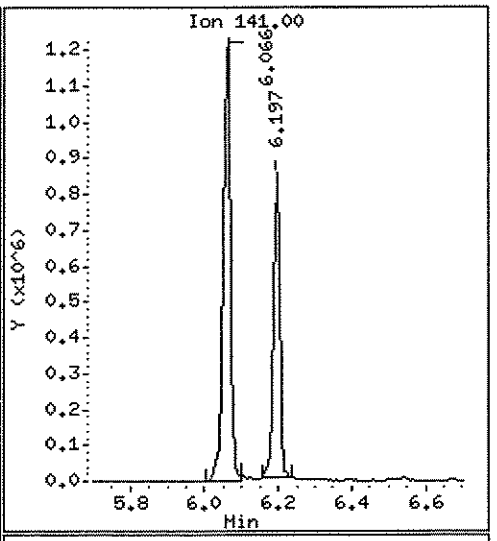
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

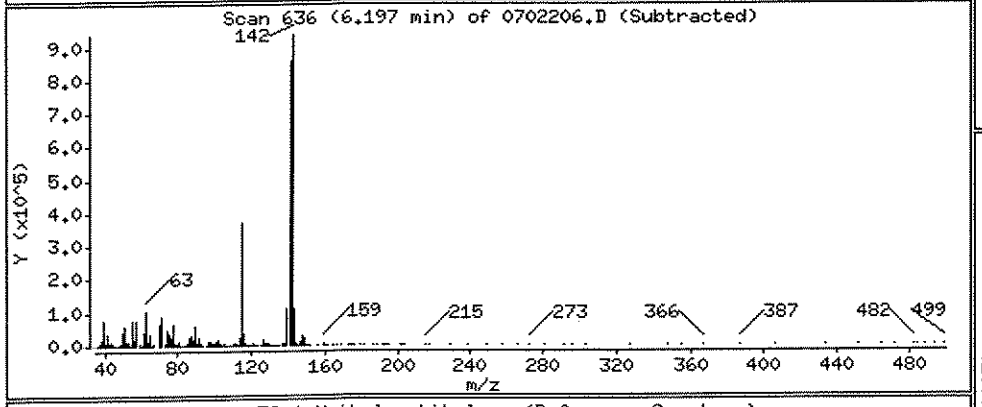
Volume Injected (uL): 0.5 Operator: SDB

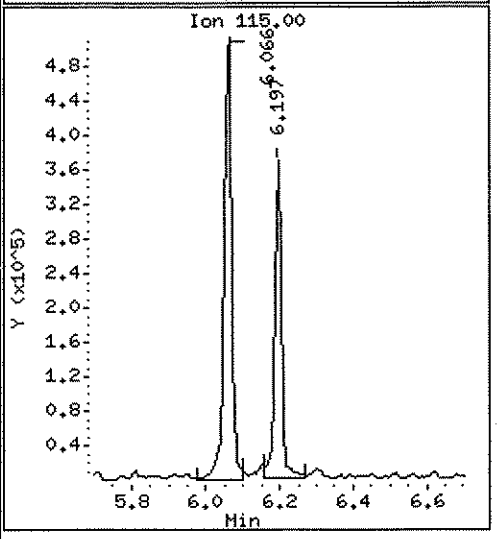
Column phase: fused silica Column diameter: 0.25

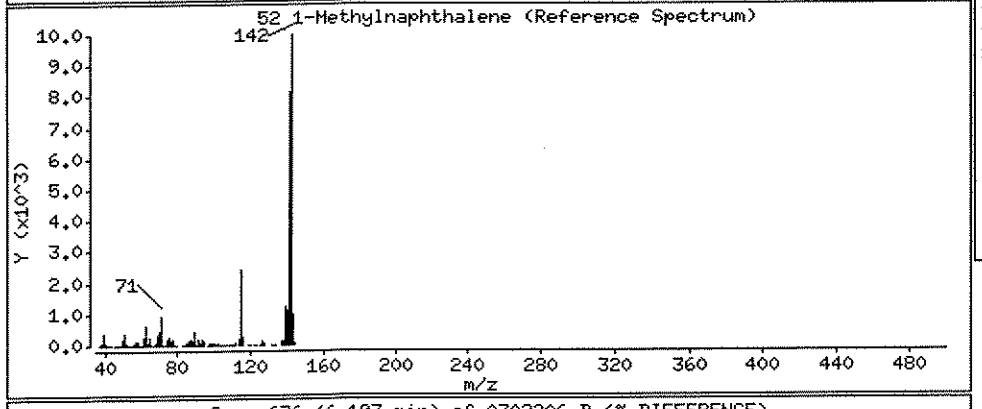
52 1-Methylnaphthalene Concentration: 1278 UG/KG

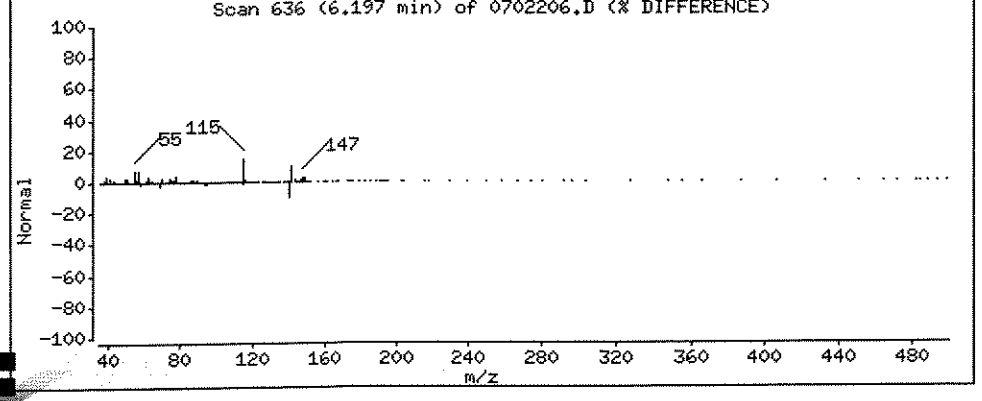












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

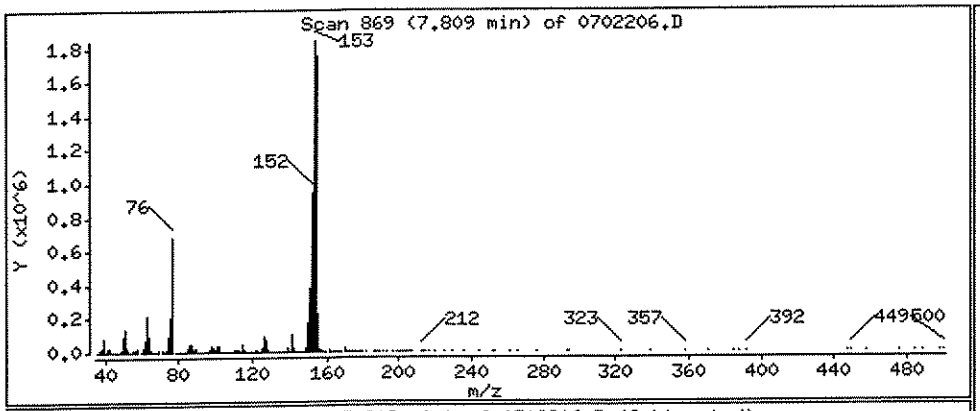
Client ID: 51CFM04S060706 Instrument: bna1.i

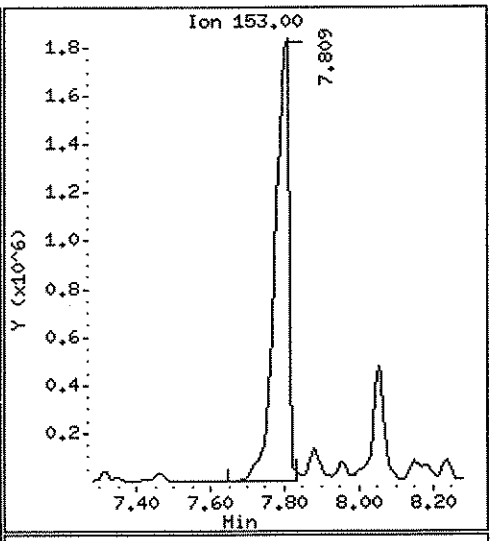
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

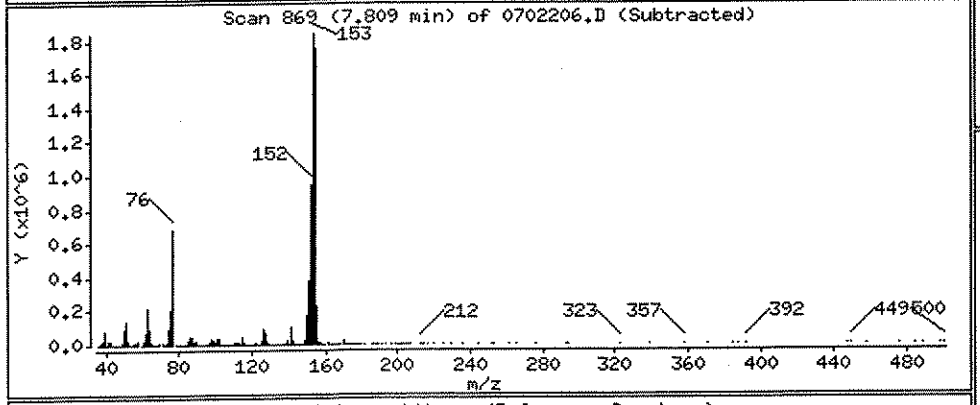
Volume Injected (uL): 0.5 Operator: SDB

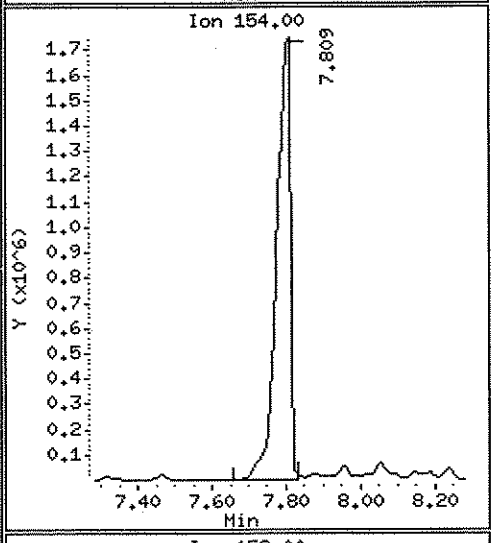
Column phase: fused silica Column diameter: 0.25

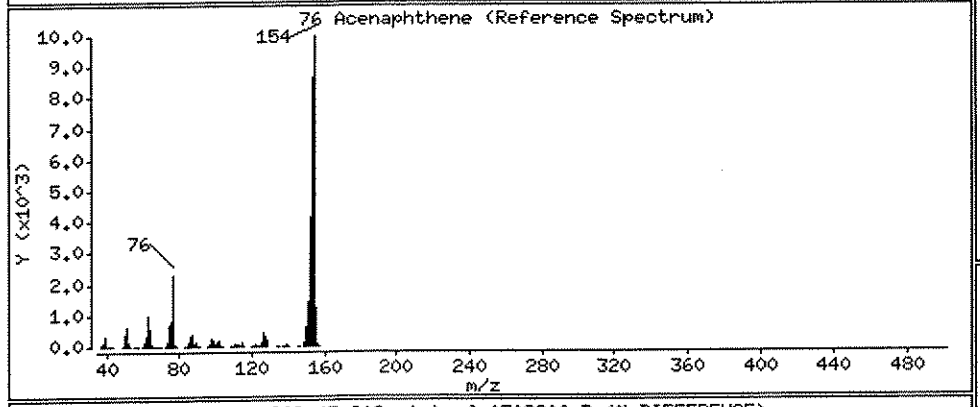
76 Acenaphthene Concentration: 6006 UG/KG

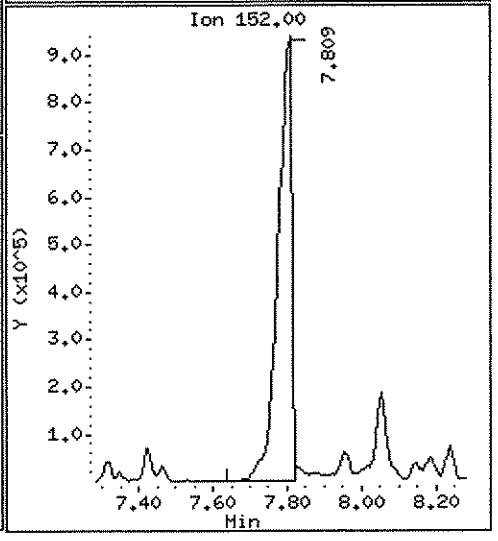


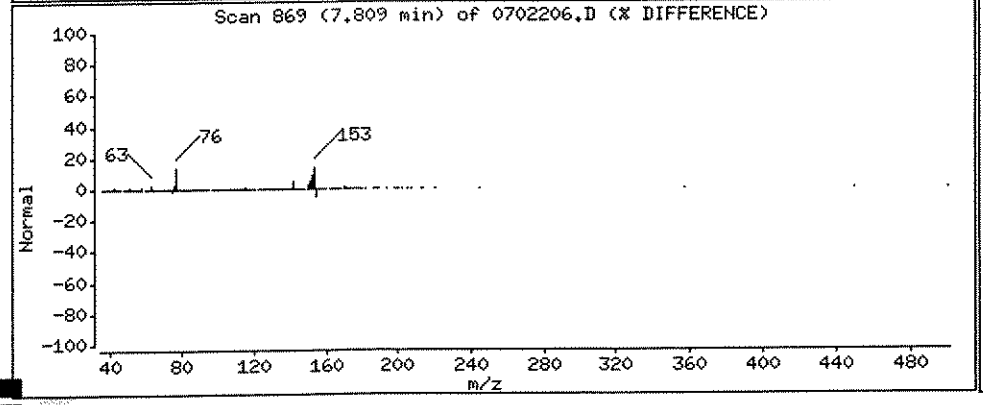












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

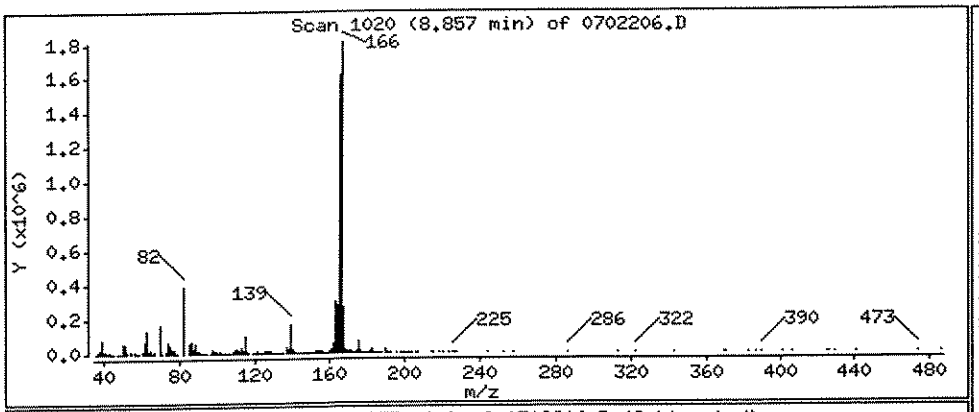
Operator: SDB

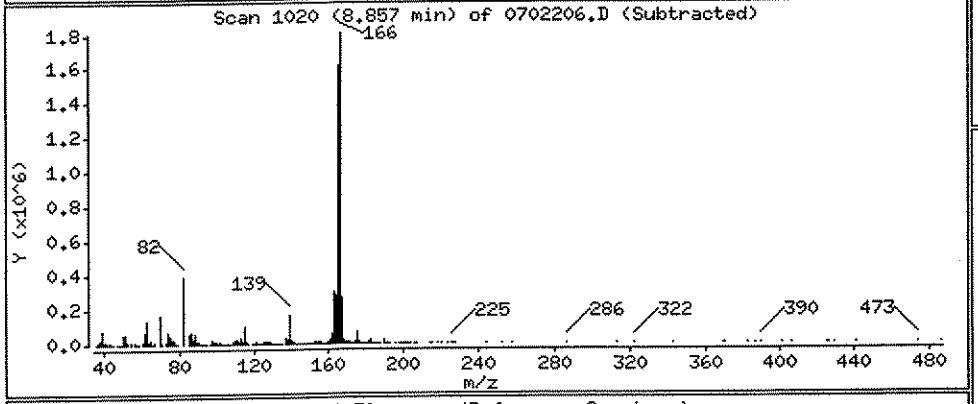
Column phase: fused silica

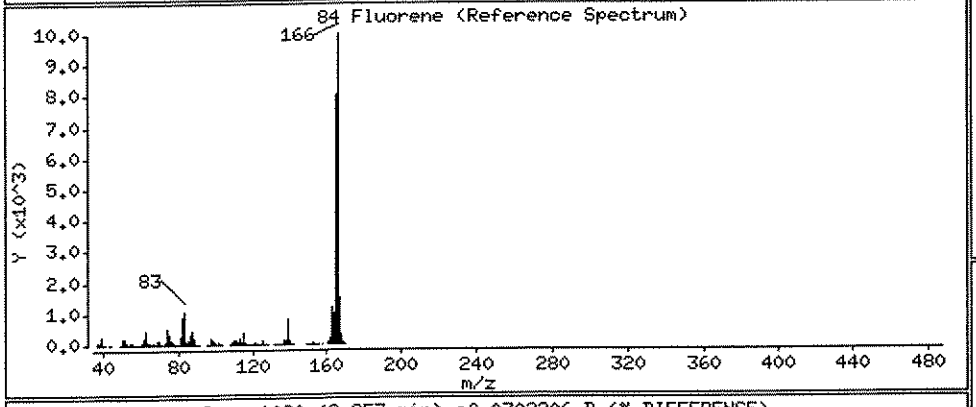
Column diameter: 0.25

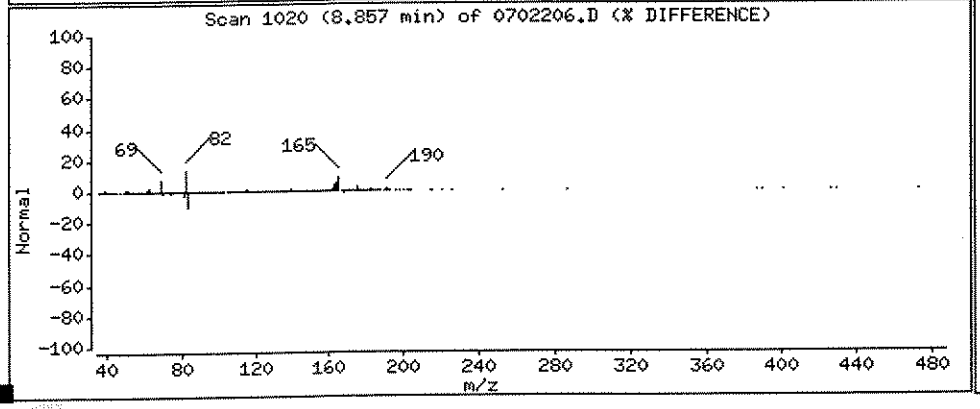
84 Fluorene

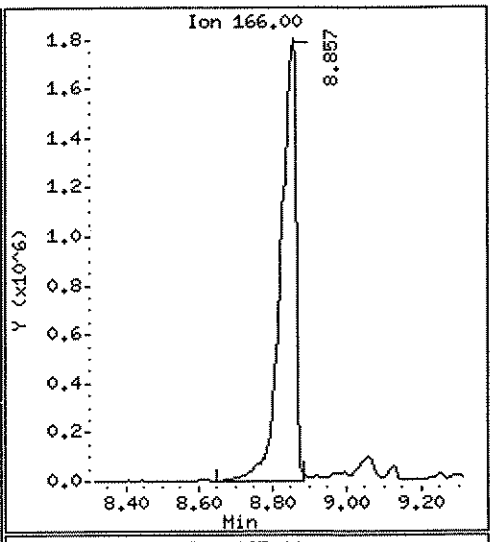
Concentration: 6293 UG/KG

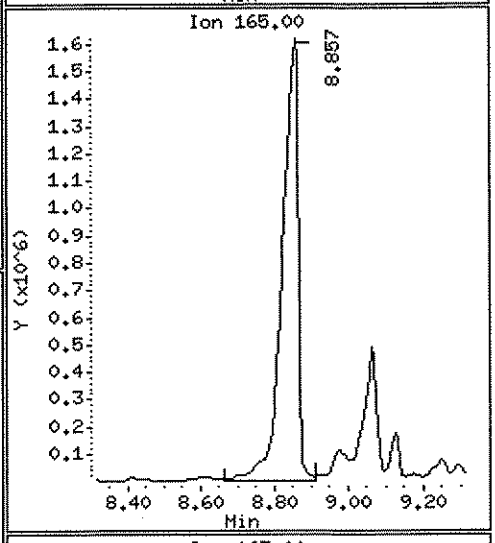


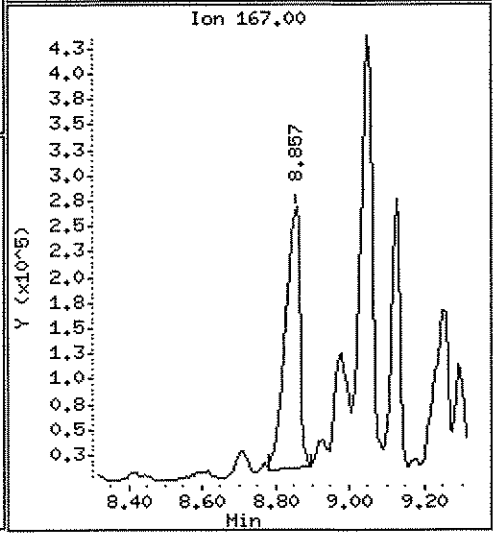












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

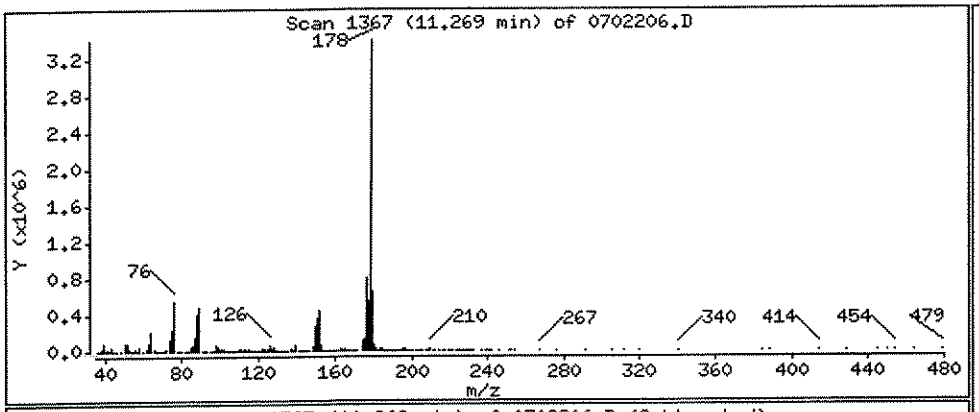
Client ID: 51CFM04S060706 Instrument: bna1.i

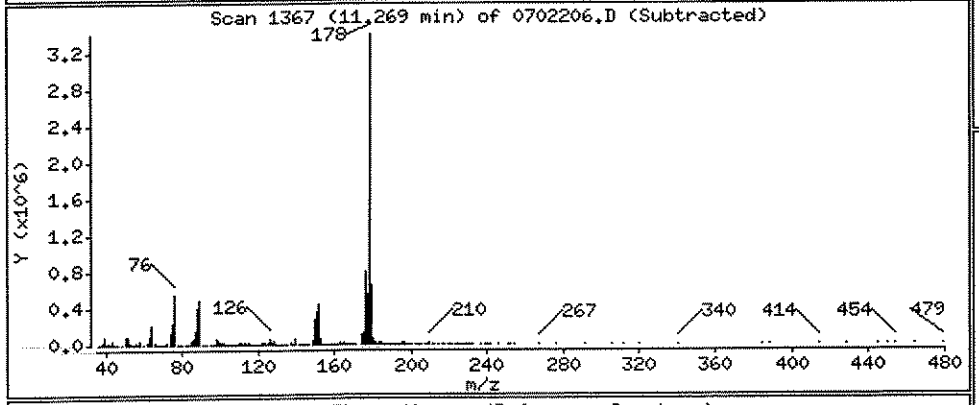
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

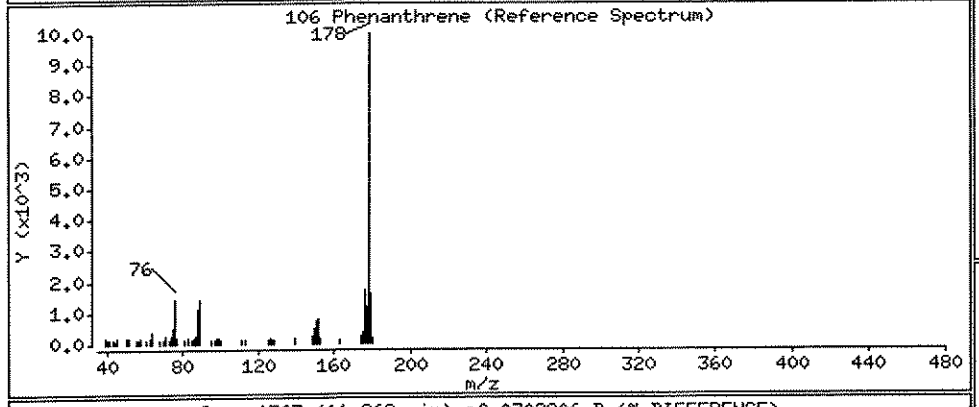
Volume Injected (uL): 0.5 Operator: SDB

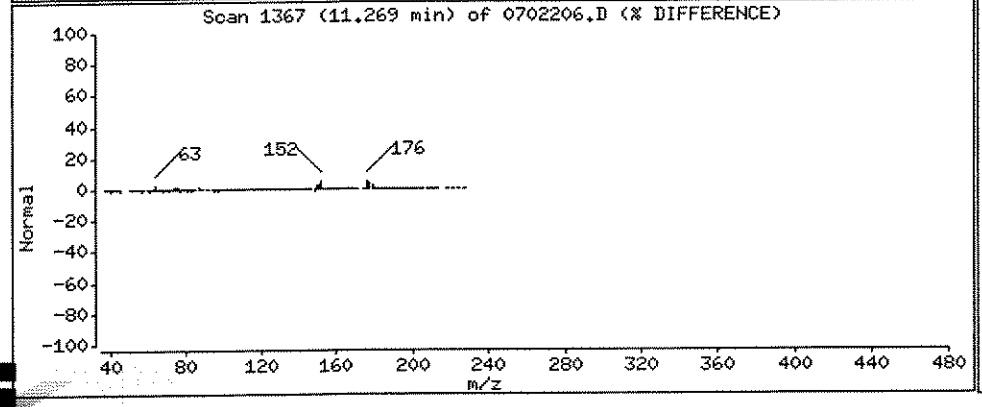
Column phase: fused silica Column diameter: 0.25

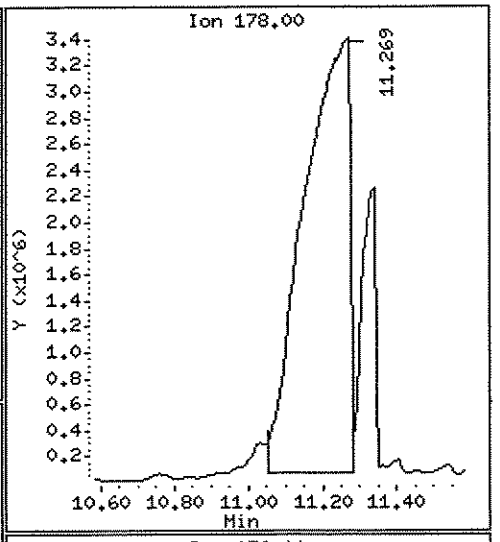
106 Phenanthrene Concentration: 41610 UG/KG

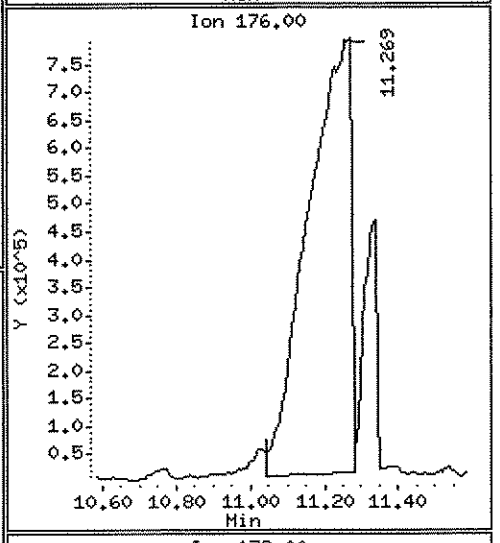


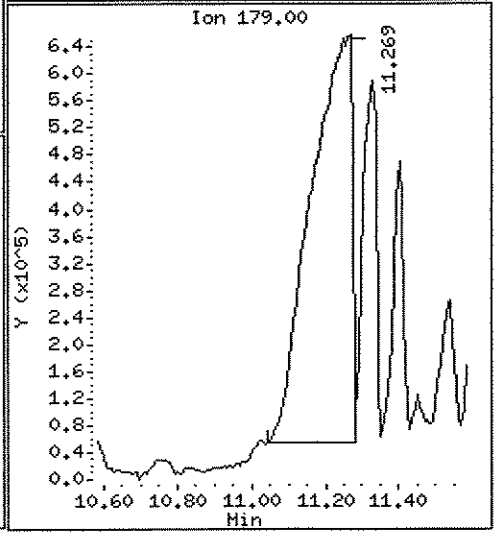












Empirical Laboratories

000154

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

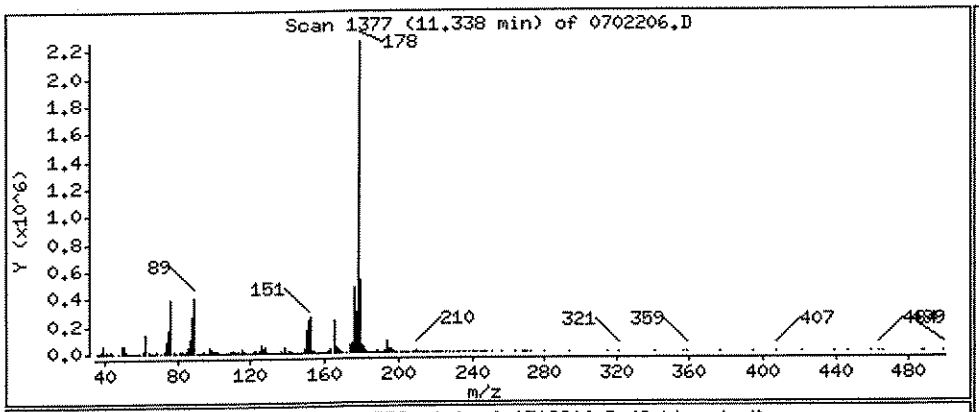
Operator: SDB

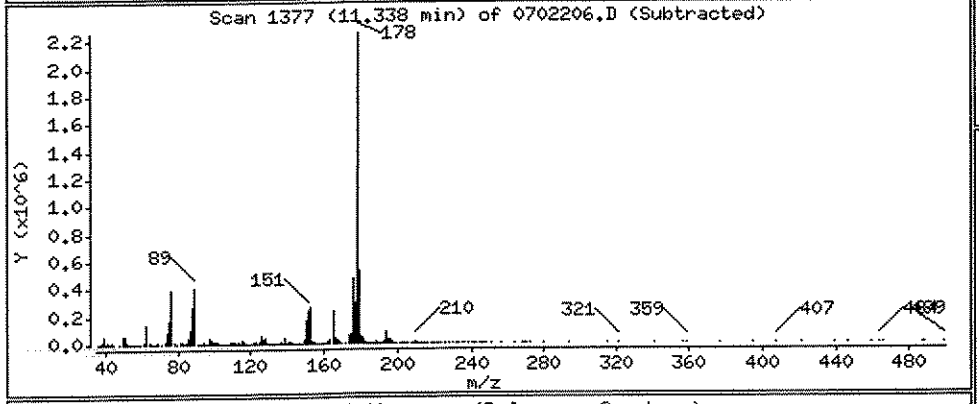
Column phase: fused silica

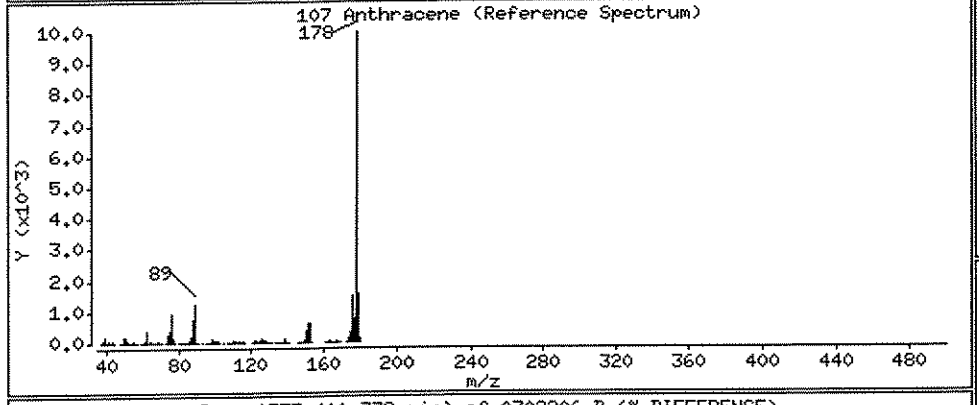
Column diameter: 0.25

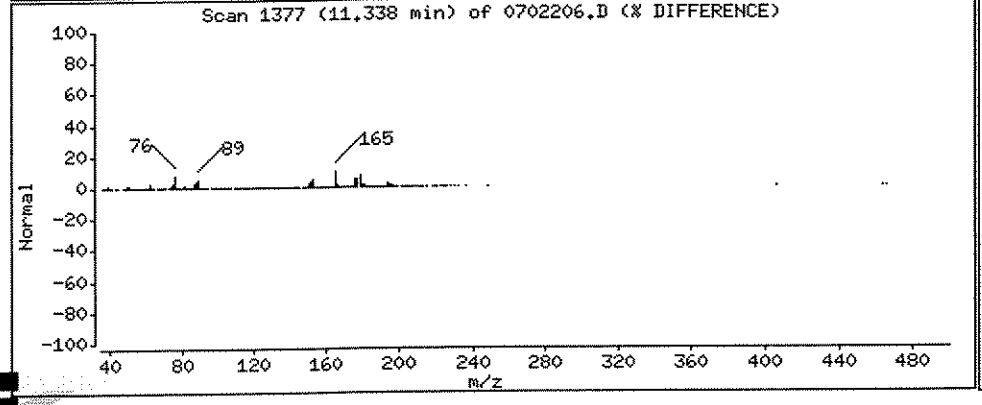
107 Anthracene

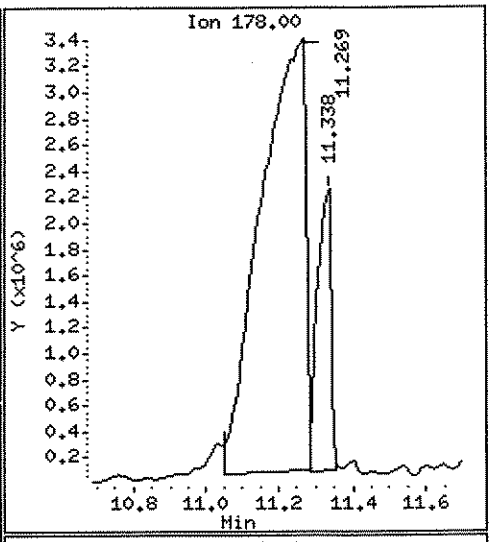
Concentration: 8468 UG/KG

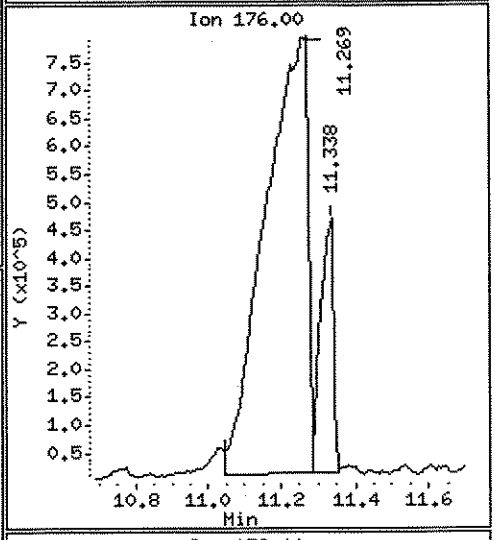


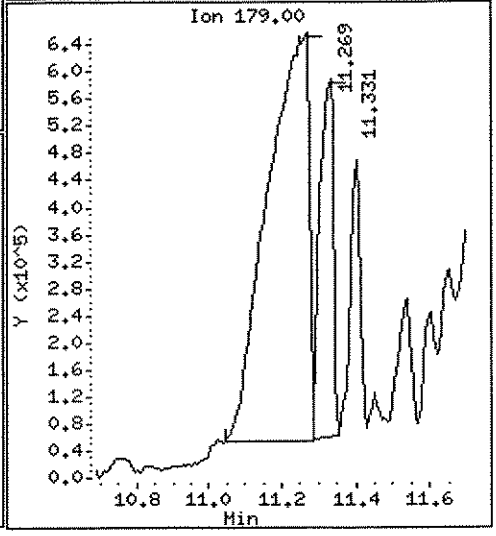












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

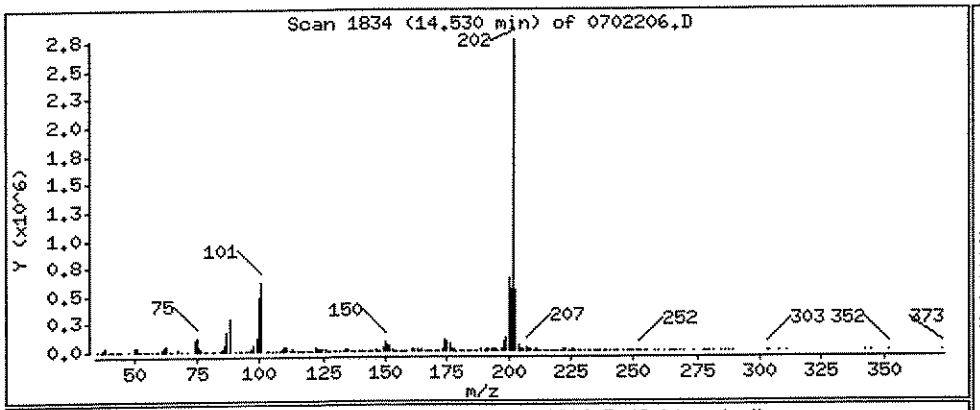
Client ID: 51CFM04S060706 Instrument: bna1.i

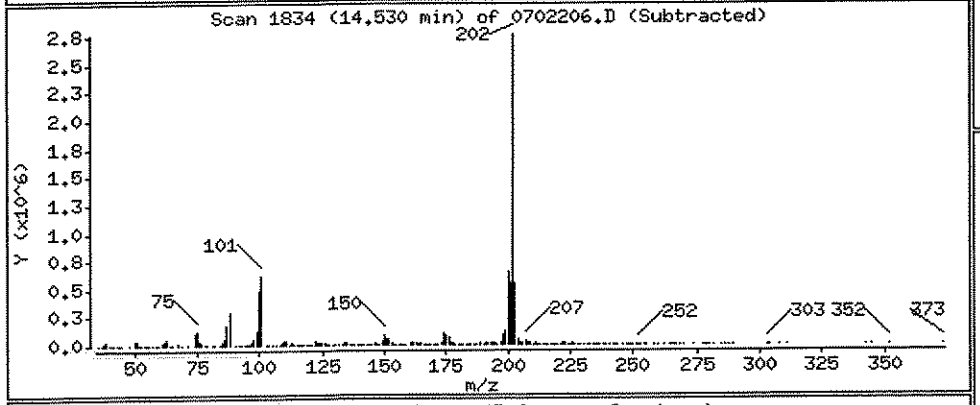
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

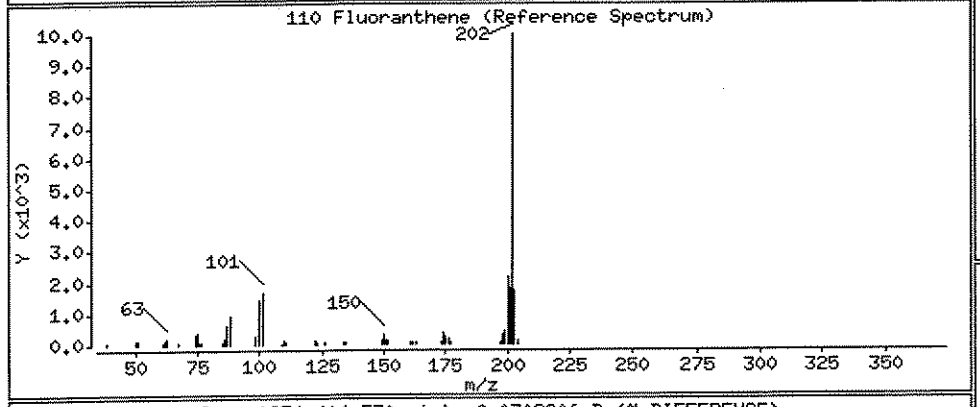
Volume Injected (uL): 0.5 Operator: SDB

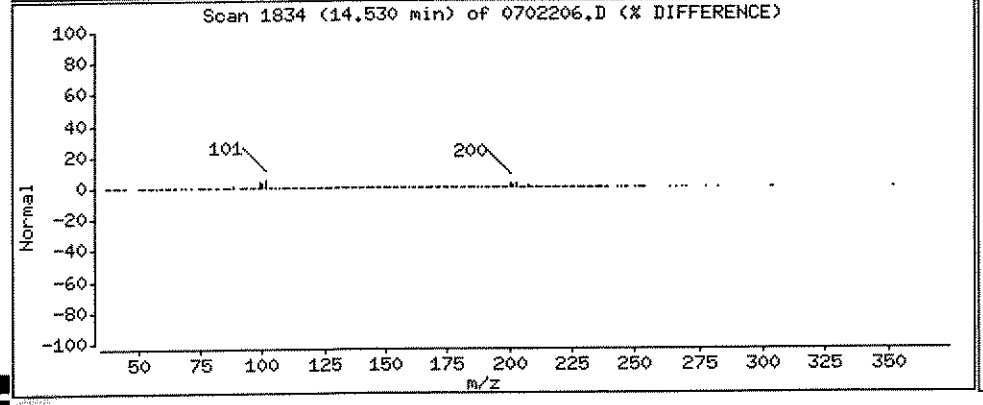
Column phase: fused silica Column diameter: 0.25

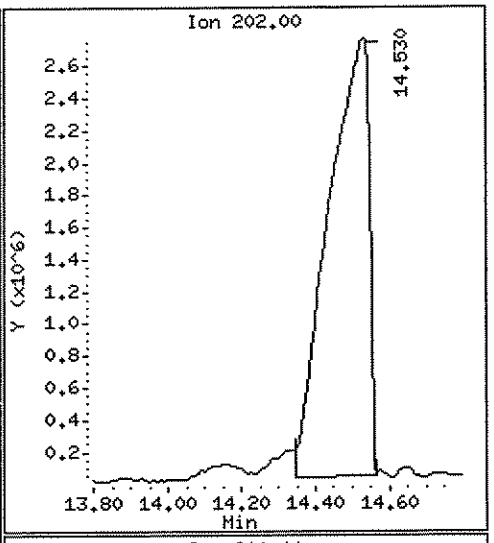
110 Fluoranthene Concentration: 30720 UG/KG

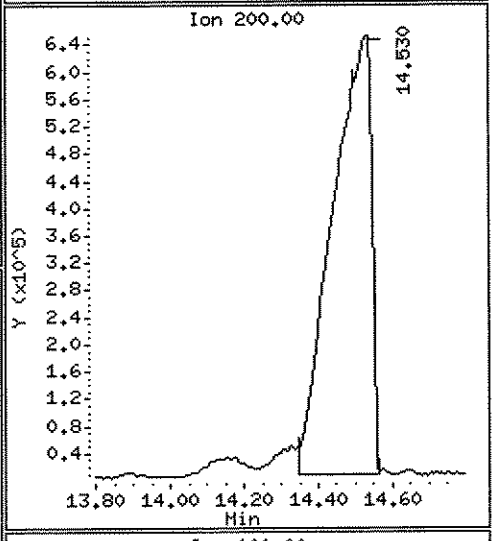


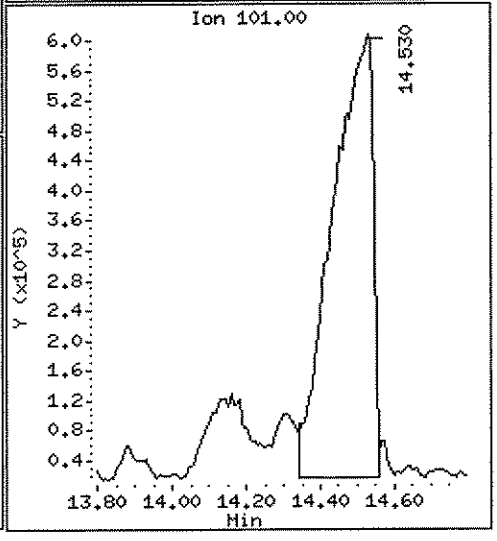












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

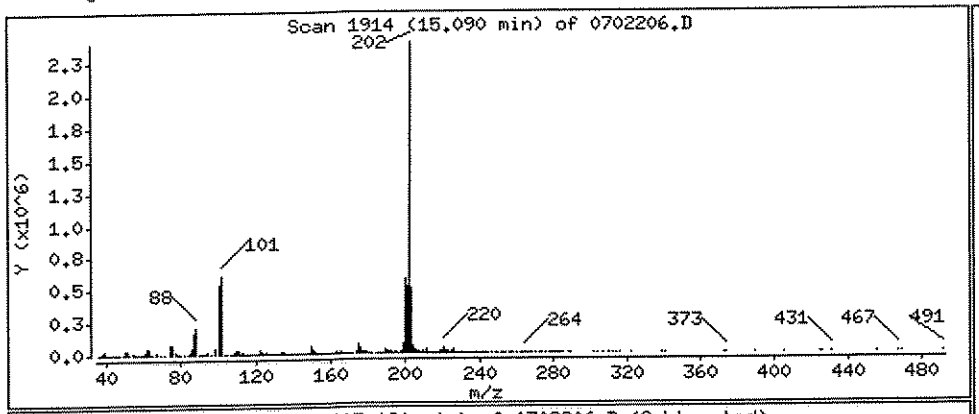
Operator: SDB

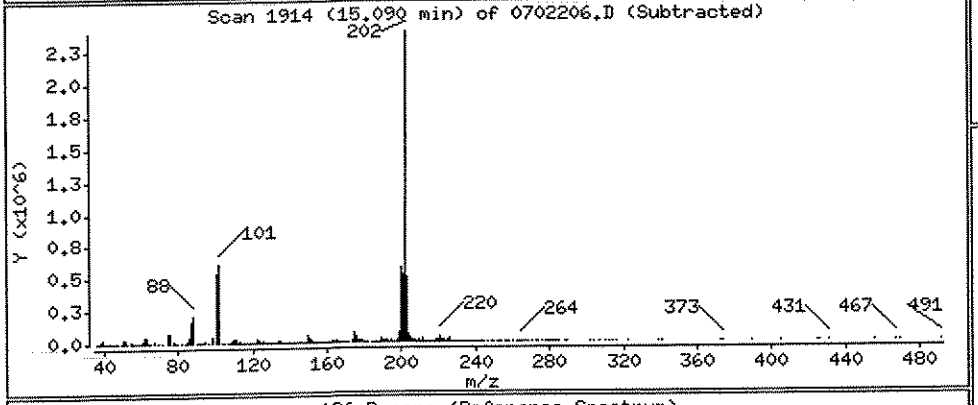
Column phase: fused silica

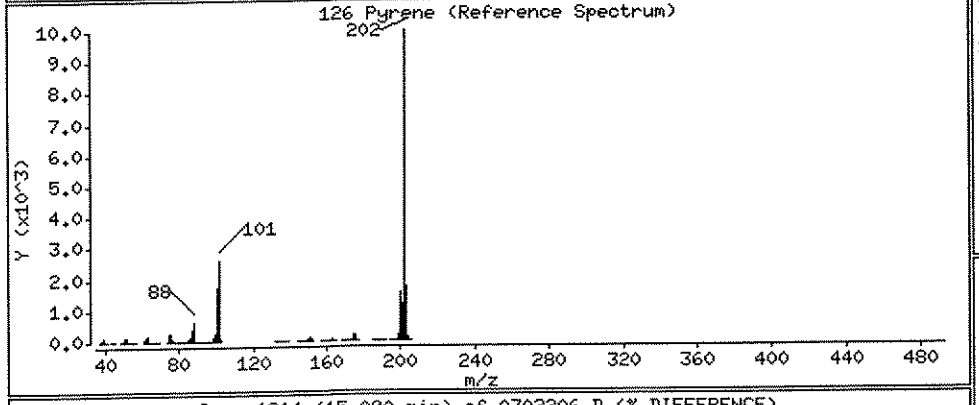
Column diameter: 0.25

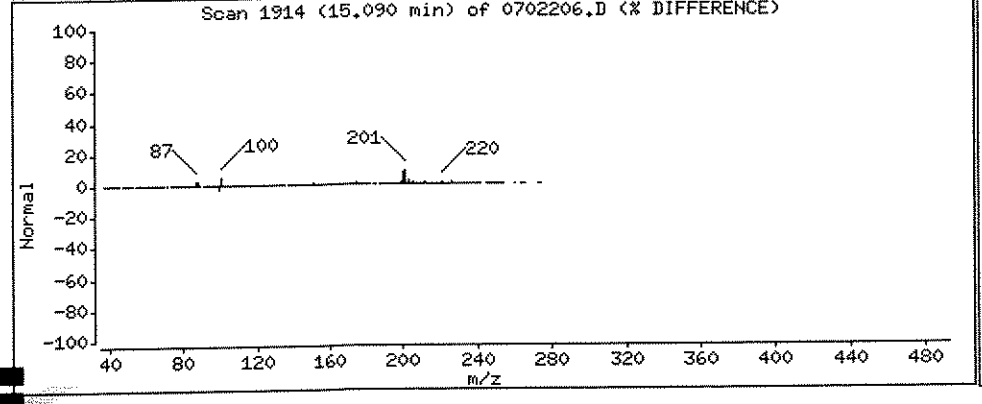
126 Pyrene

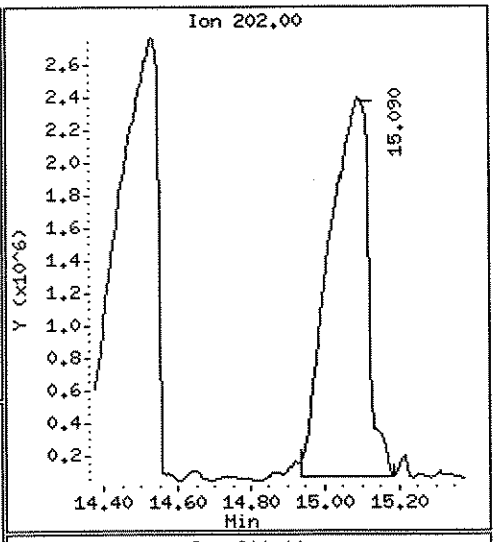
Concentration: 66210 UG/KG

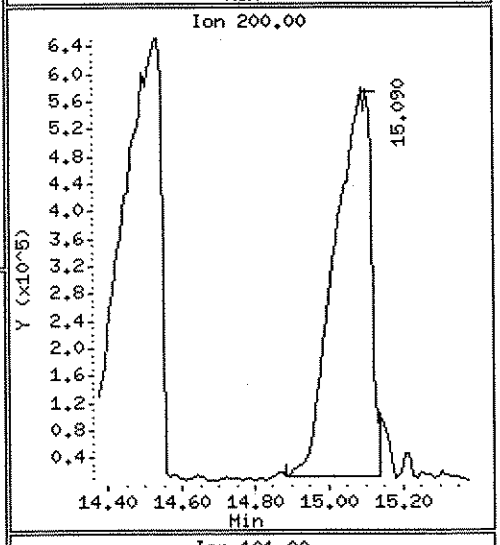


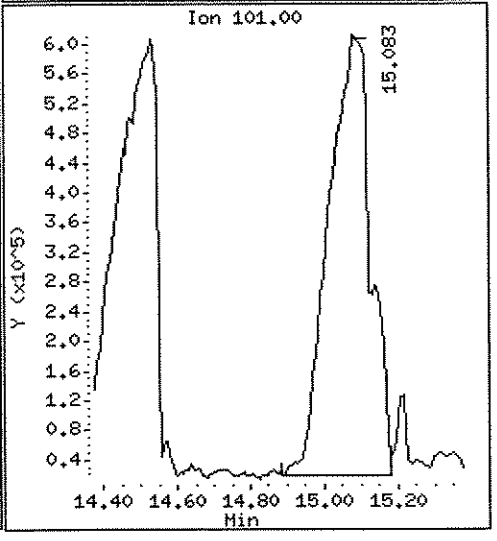












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000157

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

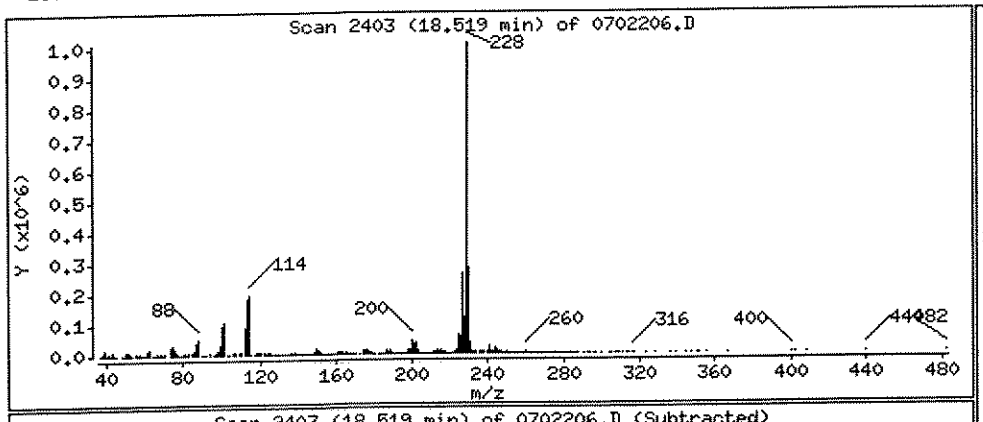
Operator: SDB

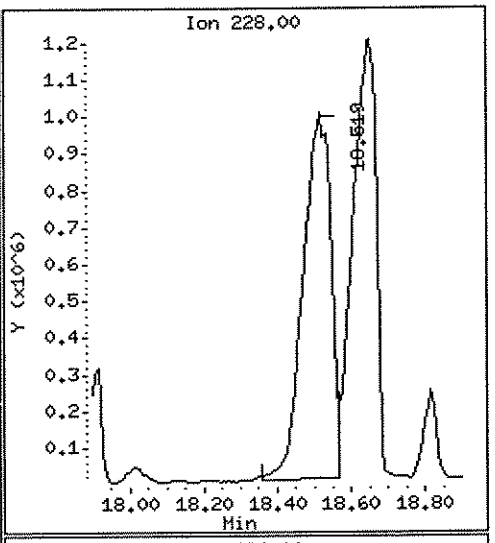
Column phase: fused silica

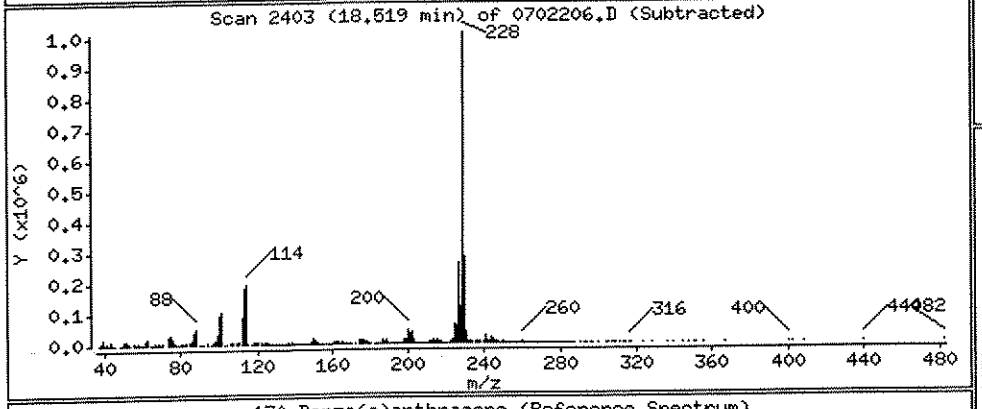
Column diameter: 0.25

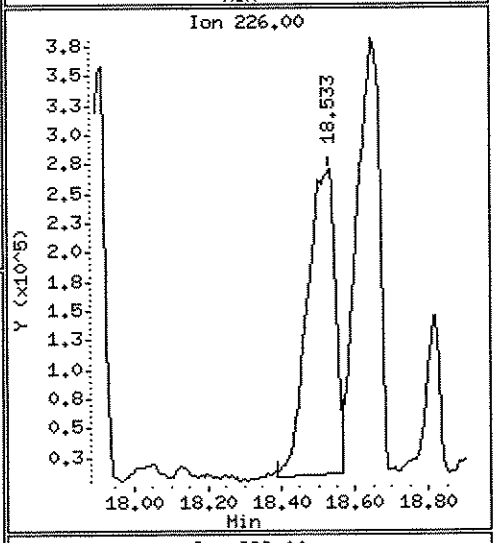
130 Benzo(a)anthracene

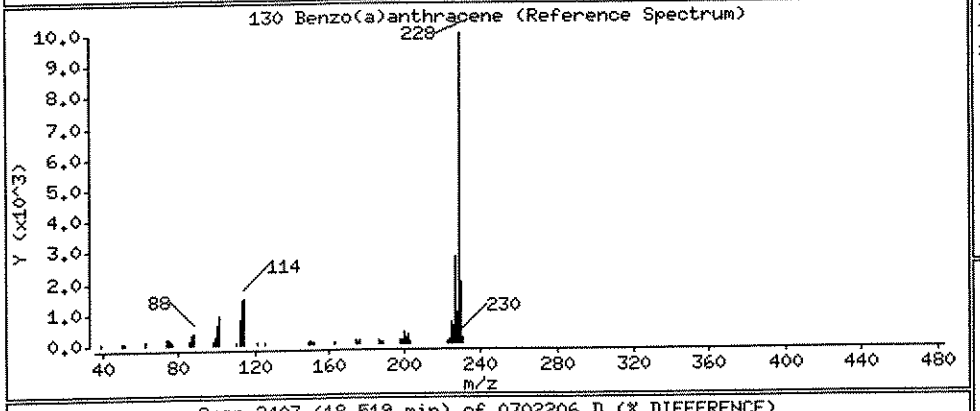
Concentration: 24830 UG/KG

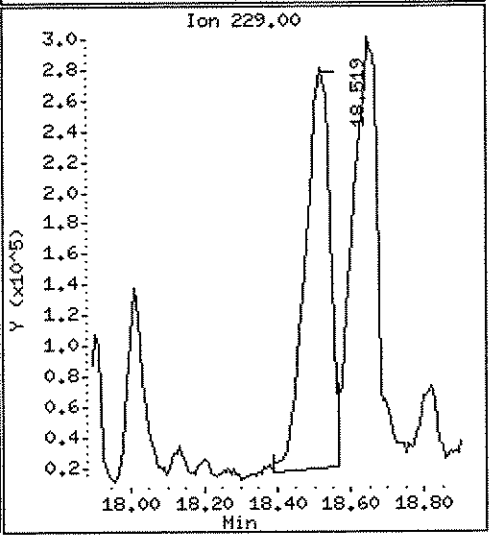


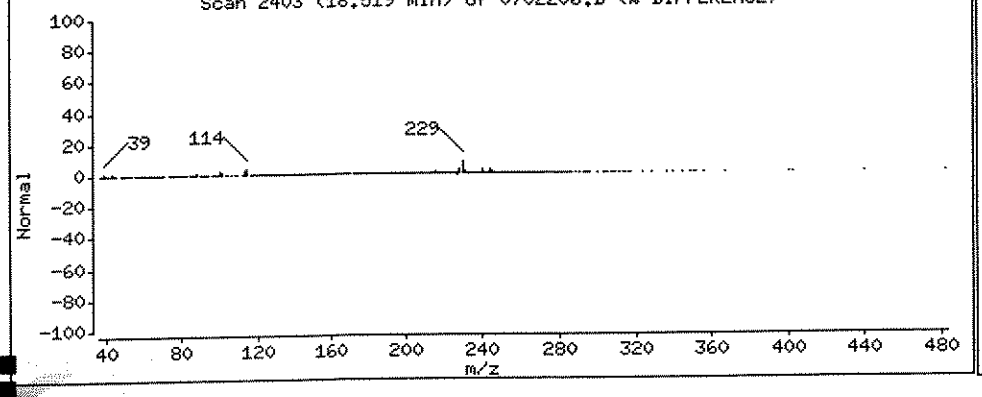












Empirical Laboratories

000158

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

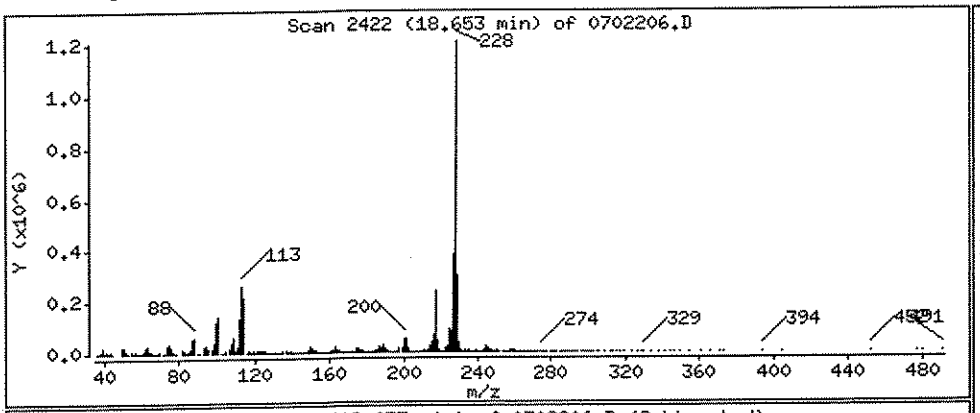
Operator: SDB

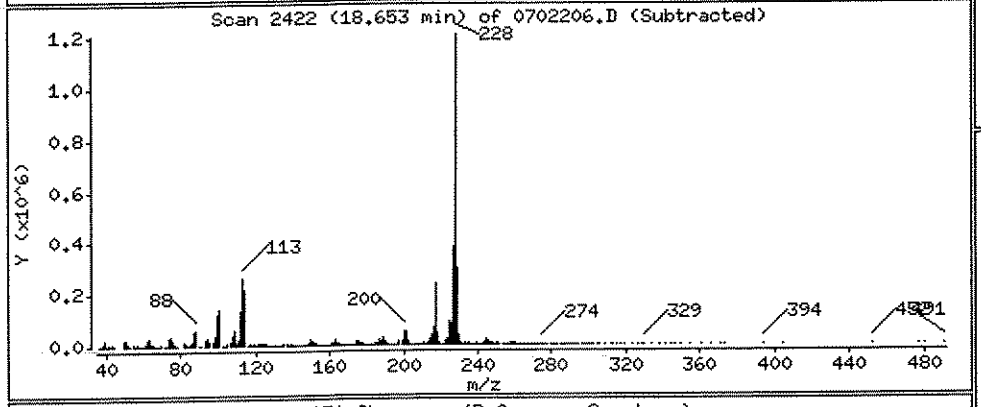
Column phase: fused silica

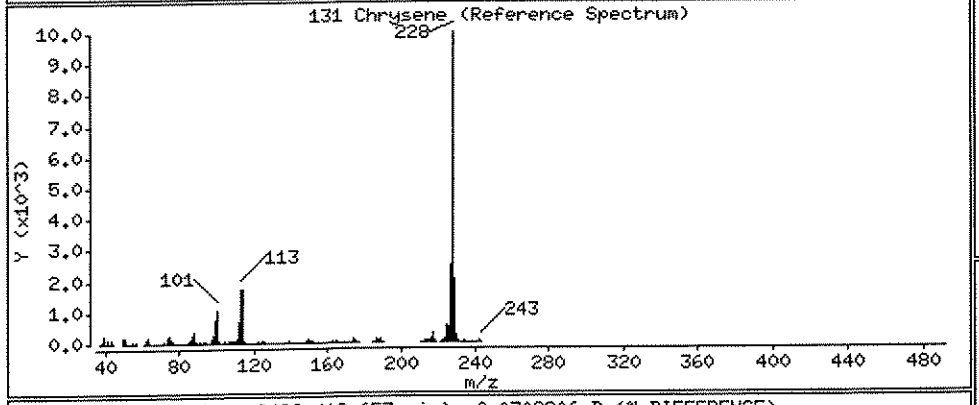
Column diameter: 0.25

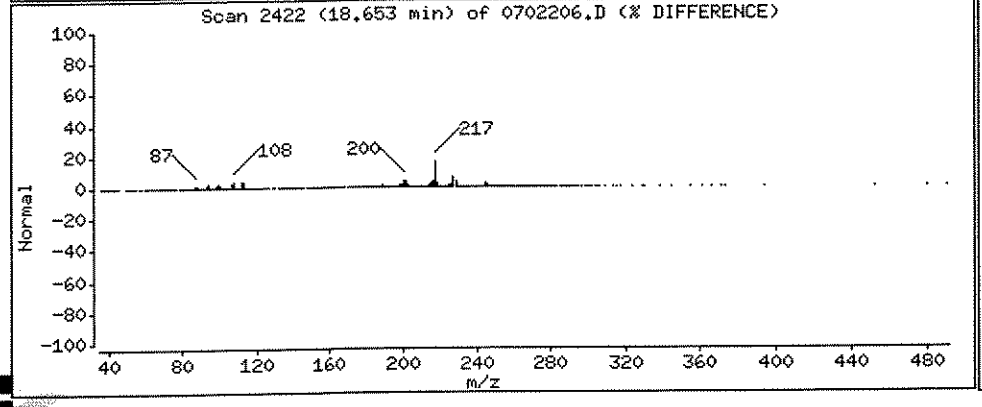
131 Chrysene

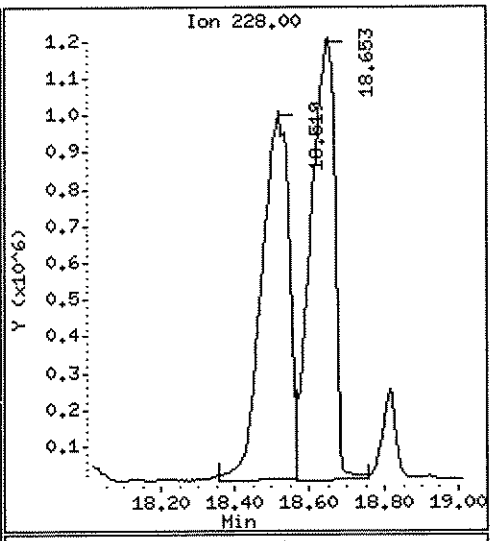
Concentration: 28280 UG/KG

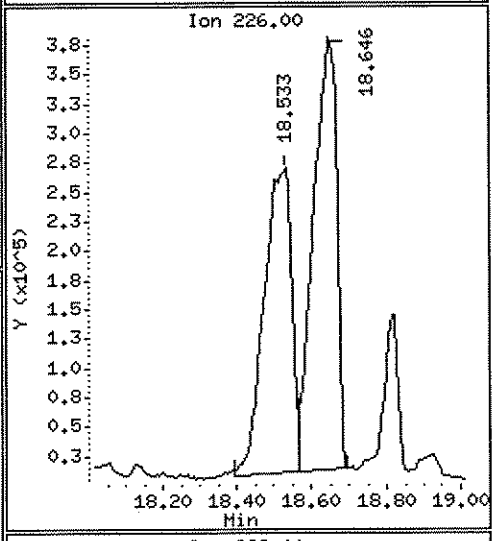


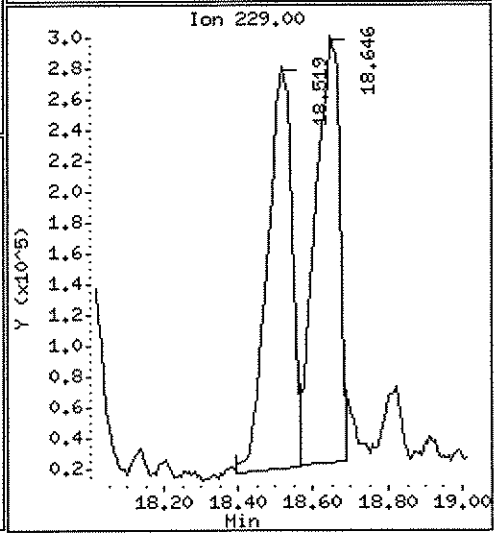












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

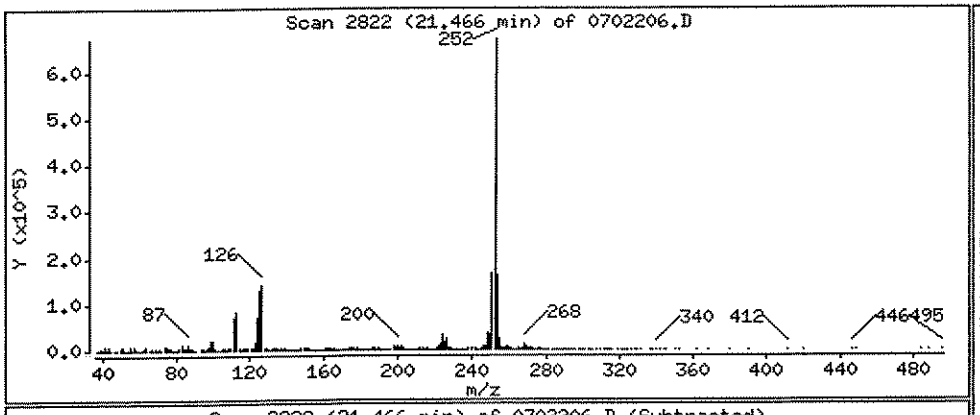
Client ID: 51CFM04S060706 Instrument: bna1.i

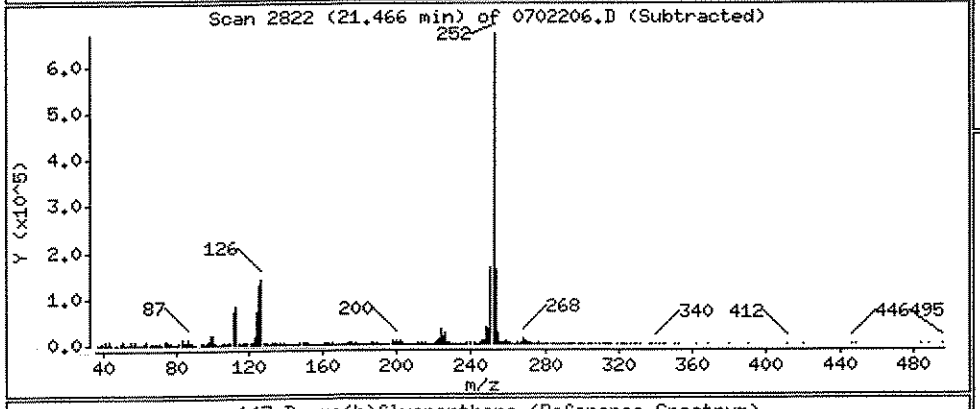
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

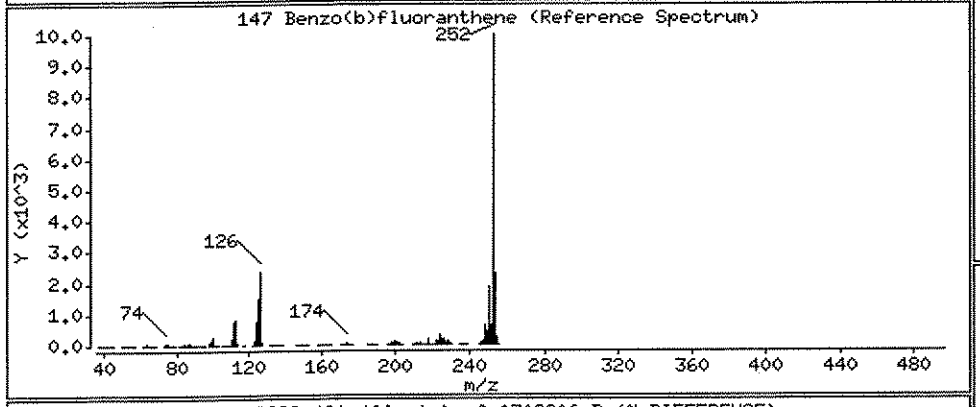
Volume Injected (uL): 0.5 Operator: SDB

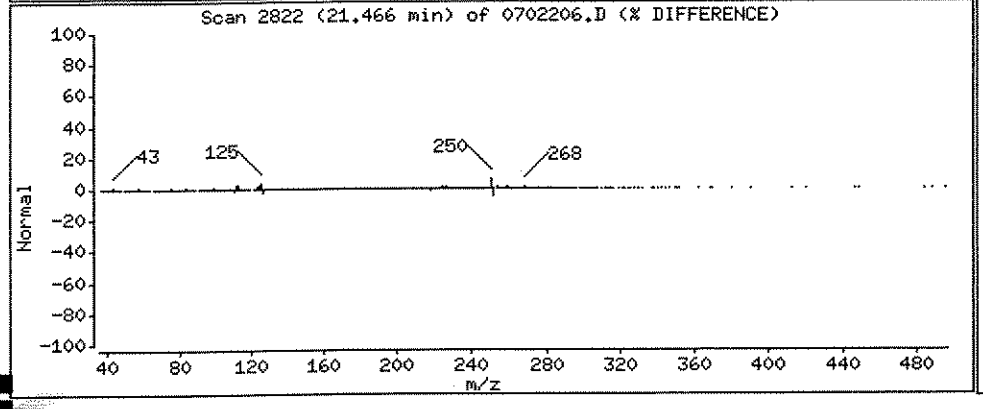
Column phase: fused silica Column diameter: 0.25

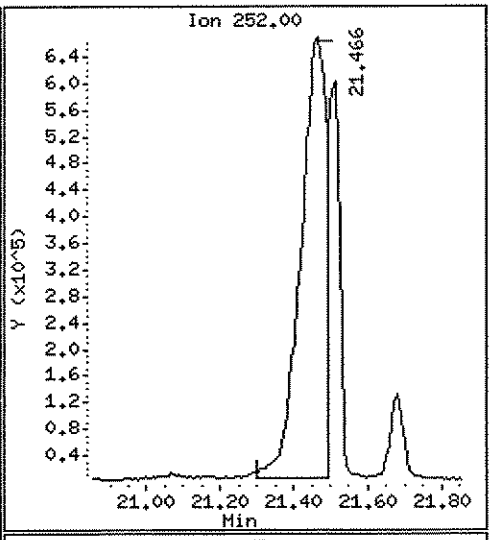
147 Benzo(b)fluoranthene Concentration: 31520 UG/KG

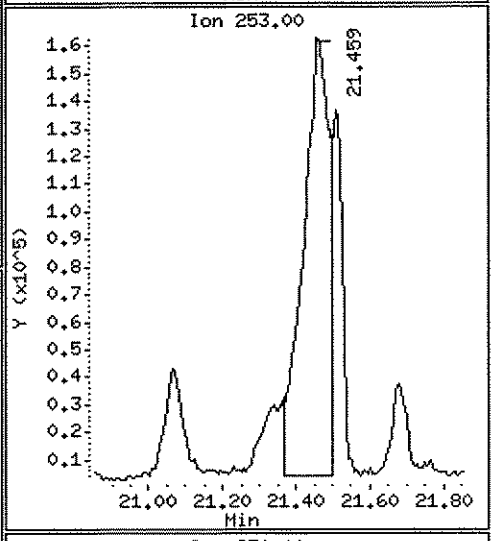


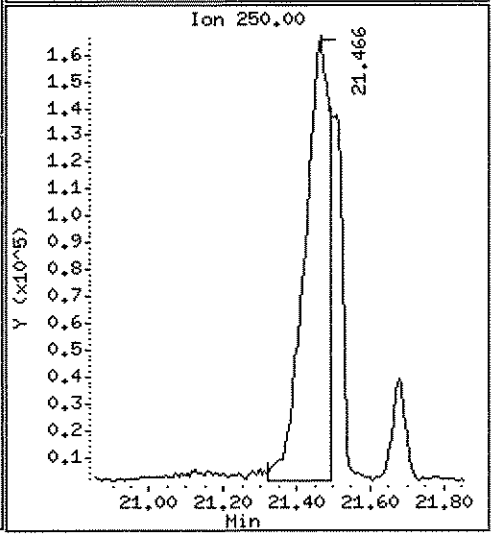












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

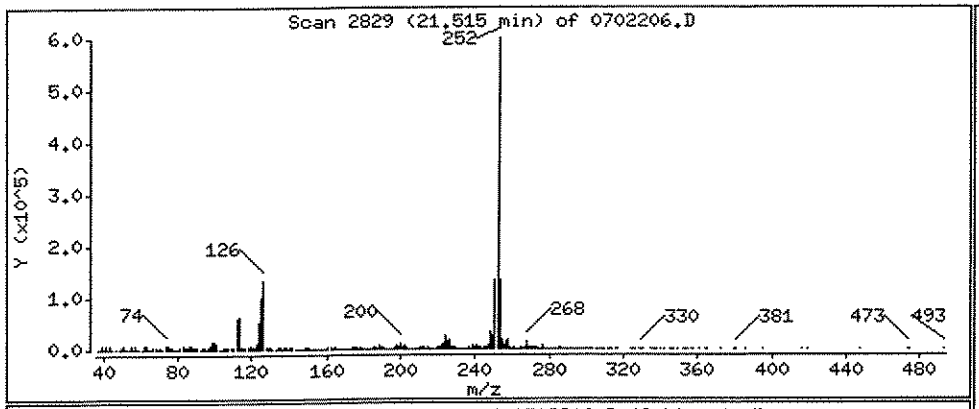
Client ID: 51CFM04S060706 Instrument: bna1.i

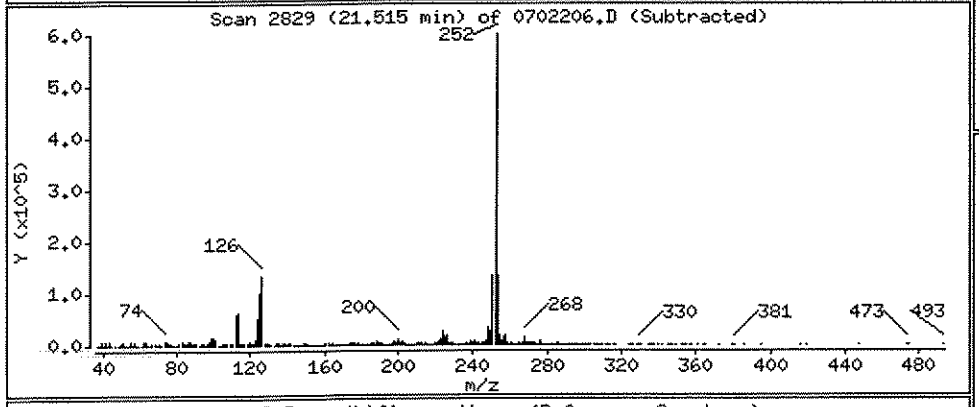
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

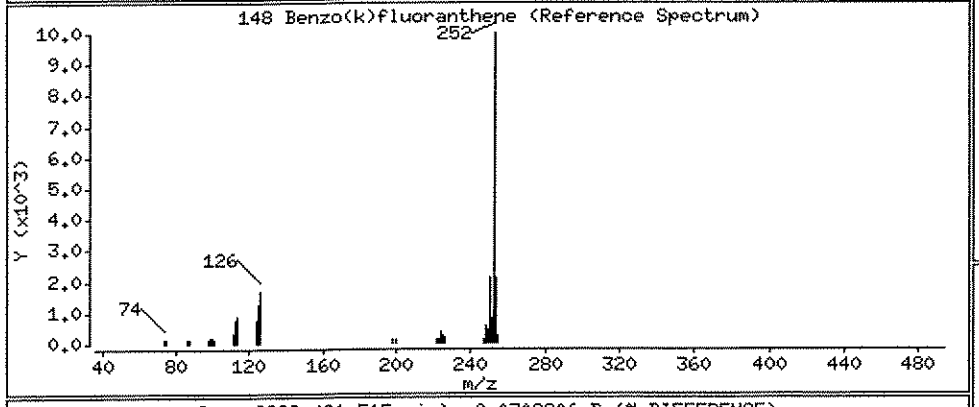
Volume Injected (uL): 0.5 Operator: SDB

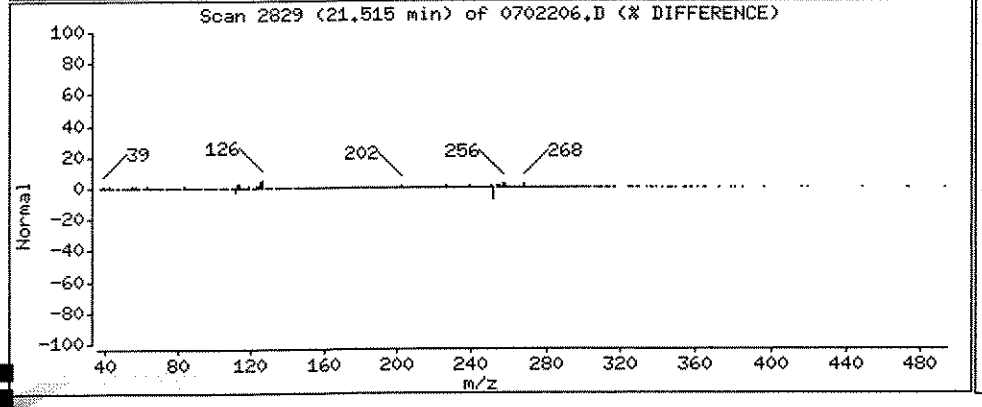
Column phase: fused silica Column diameter: 0.25

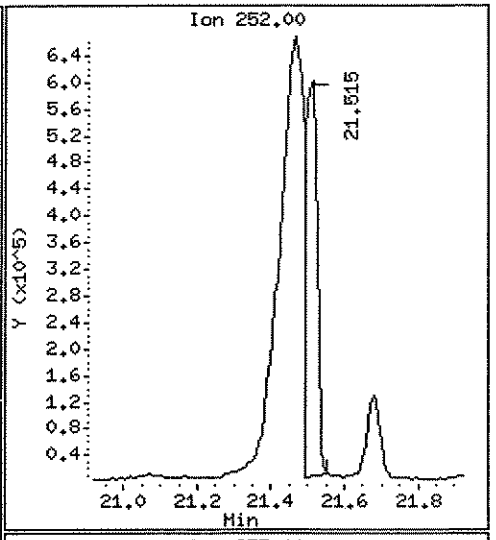
148 Benzo(k)fluoranthene Concentration: 12140 UG/KG

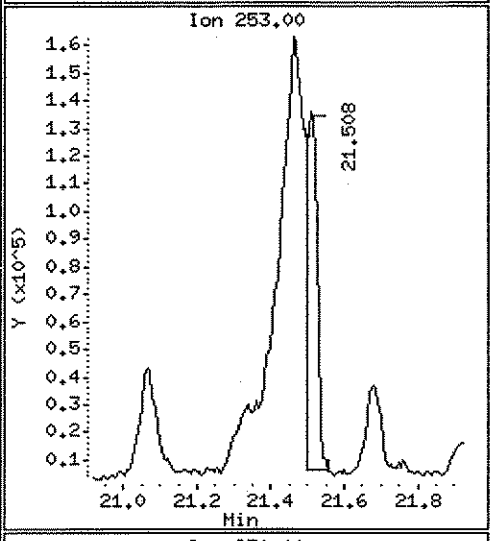


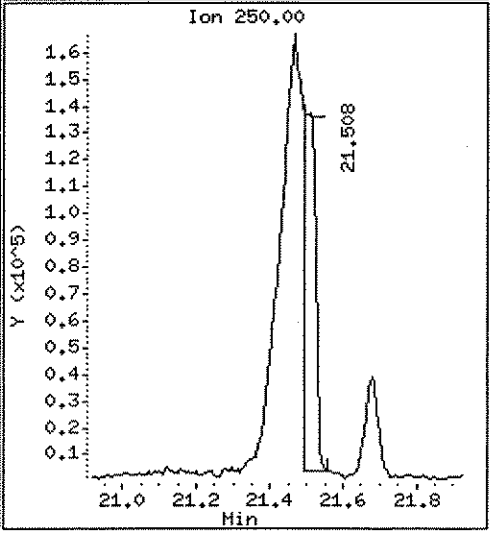












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

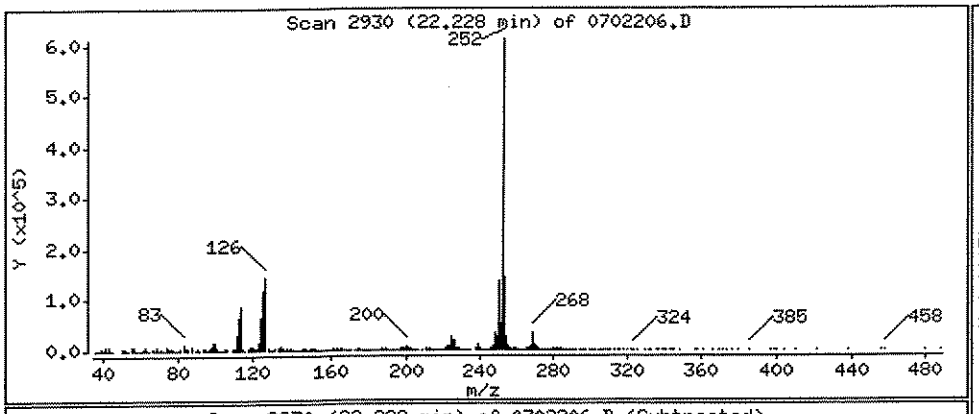
Client ID: 51CFM04S060706 Instrument: bna1.i

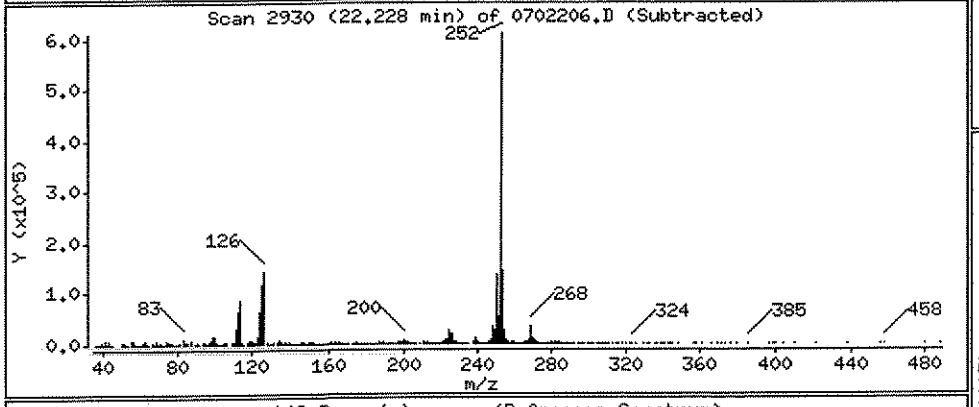
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

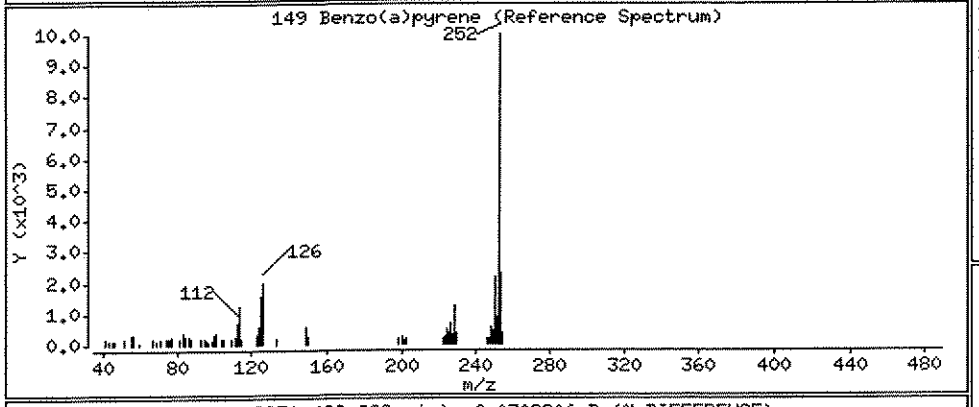
Volume Injected (uL): 0.5 Operator: SDB

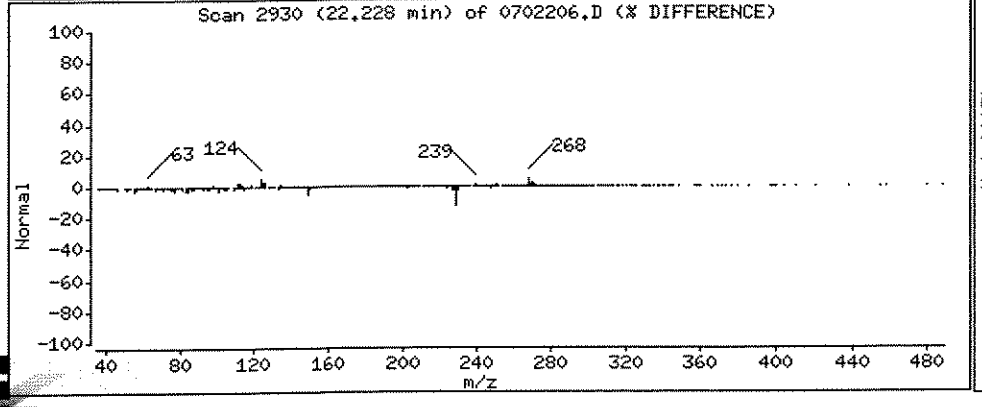
Column phase: fused silica Column diameter: 0.25

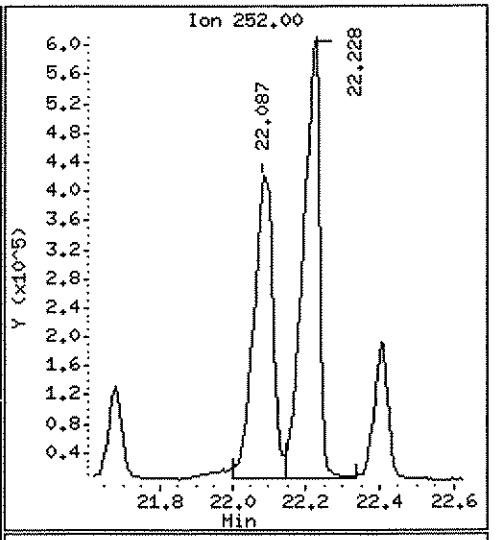
149 Benzo(a)pyrene Concentration: 22170 UG/KG

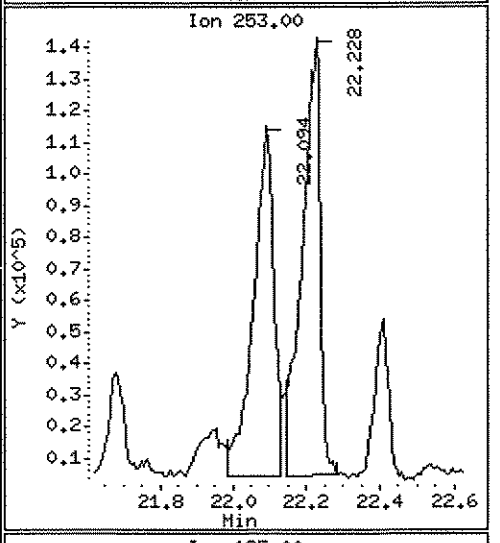


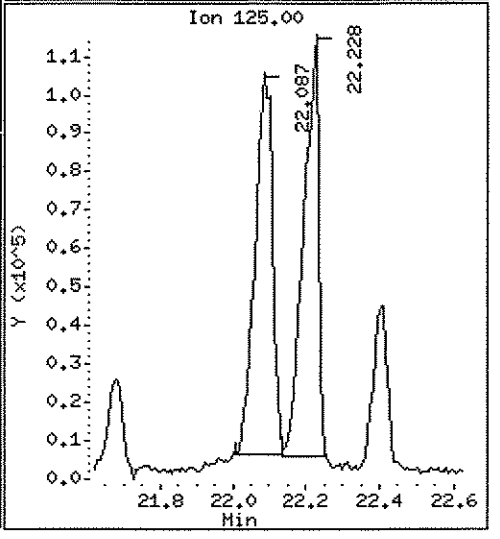












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

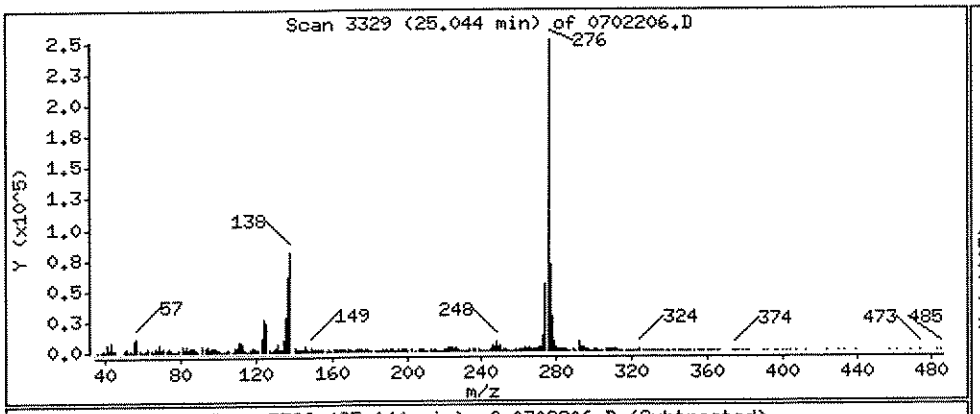
Client ID: 51CFM04S060706 Instrument: bna1.i

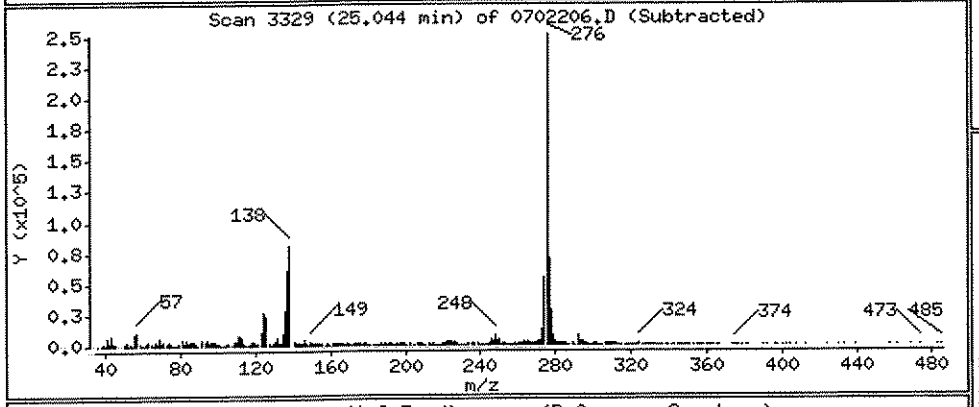
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

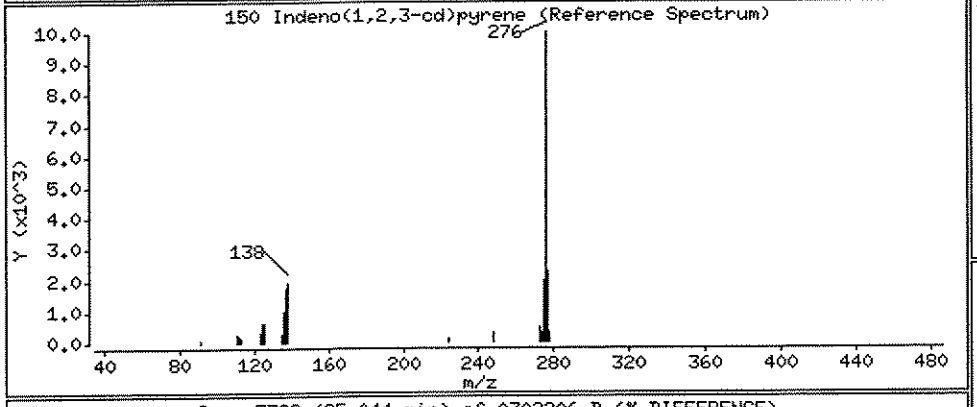
Volume Injected (uL): 0.5 Operator: SDB

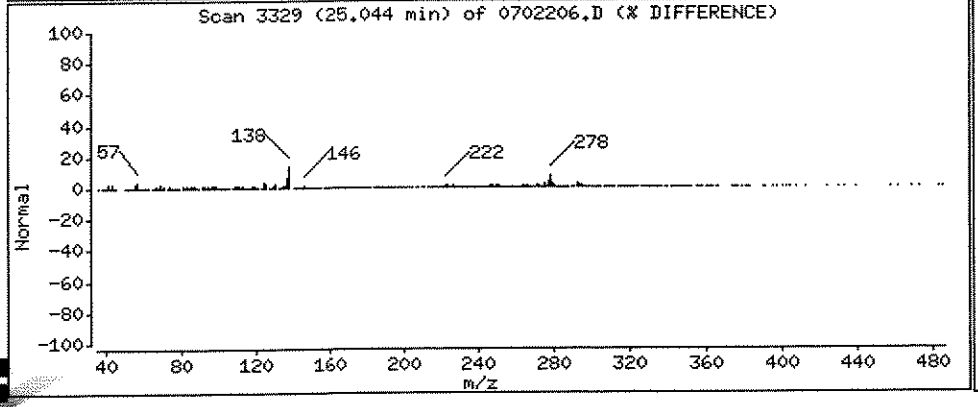
Column phase: fused silica Column diameter: 0.25

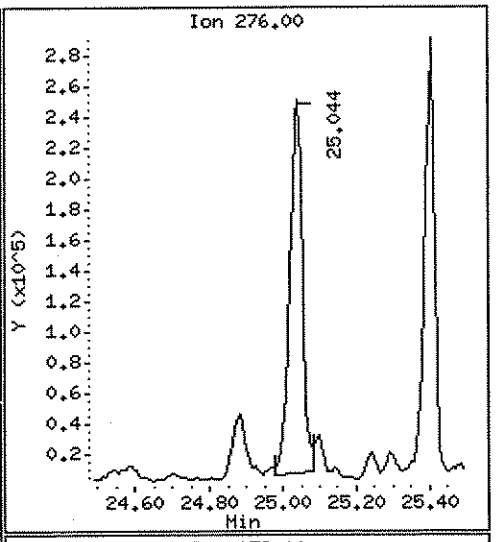
150 Indeno(1,2,3-cd)pyrene Concentration: 7971 UG/KG

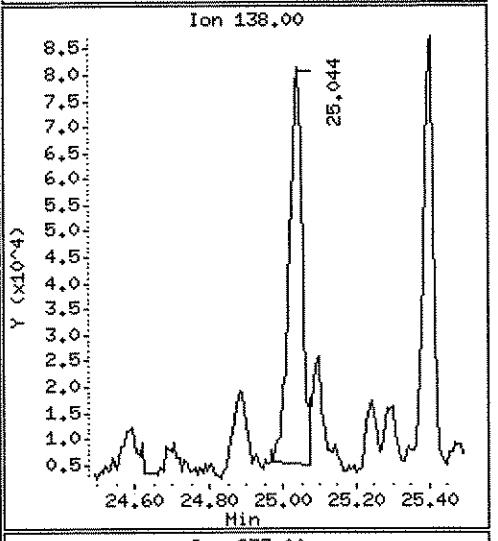


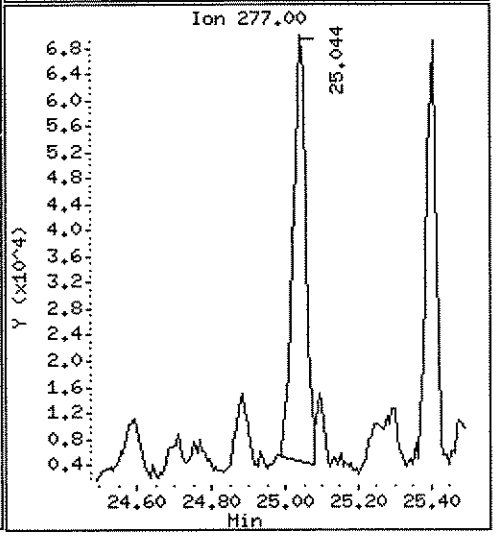












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702206.D

Date : 10-JUL-2006 16:52

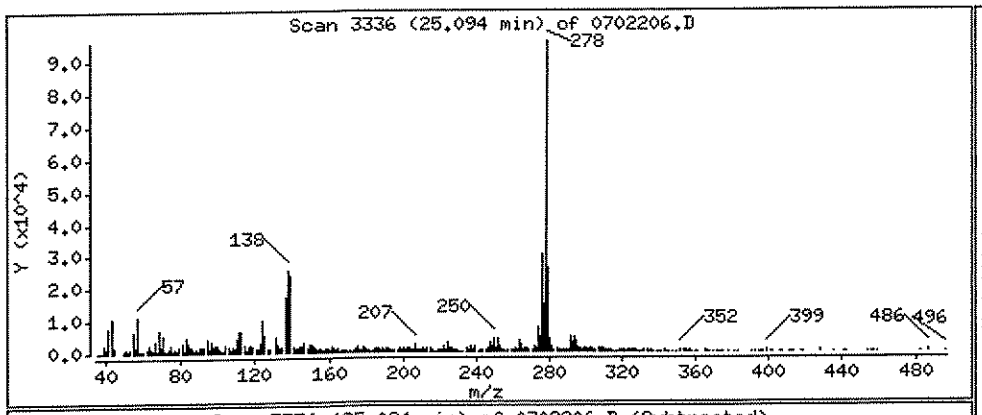
Client ID: 51CFM04S060706 Instrument: bna1.i

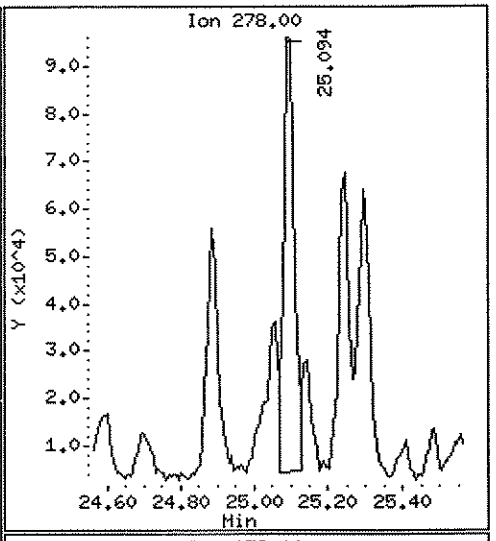
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

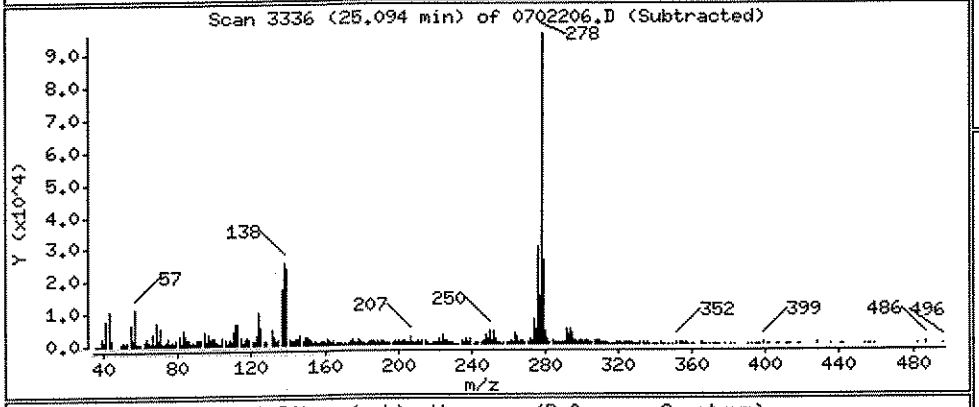
Volume Injected (uL): 0.5 Operator: SDB

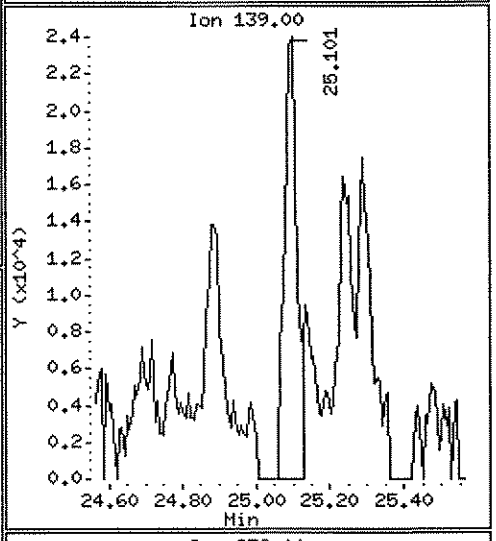
Column phase: fused silica Column diameter: 0.25

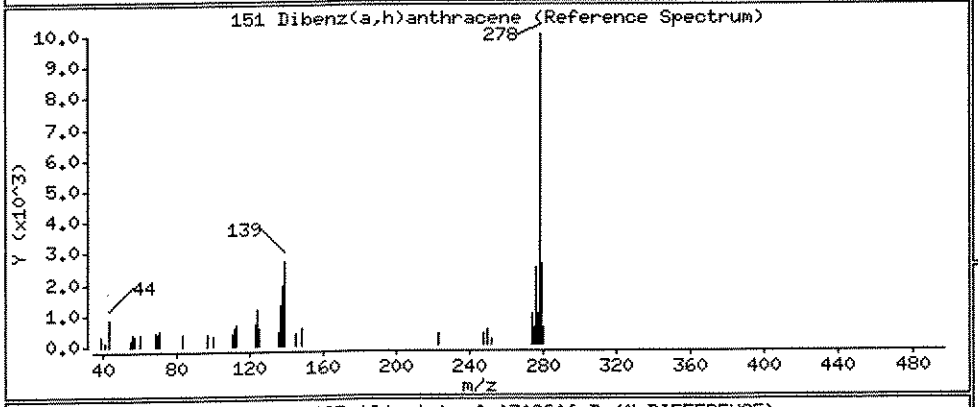
151 Dibenz(a,h)anthracene Concentration: 2498 UG/KG

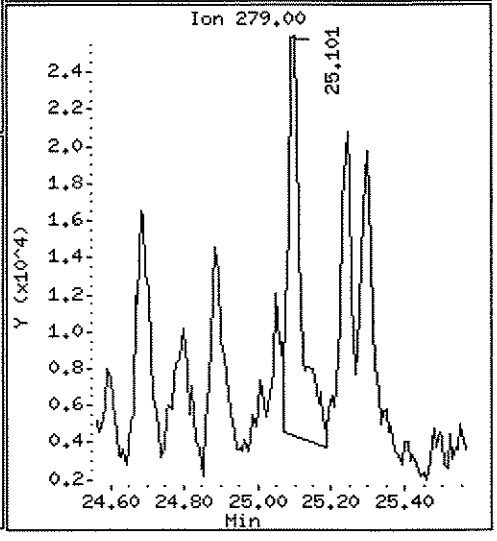


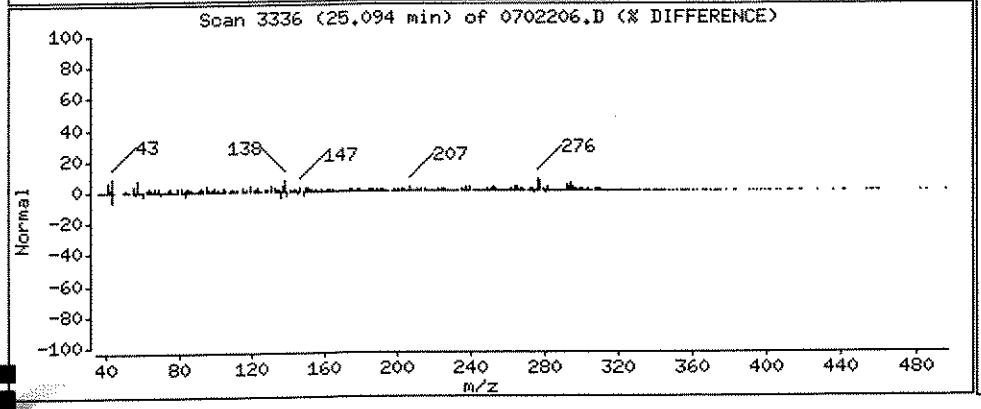












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Date : 10-JUL-2006 16:52

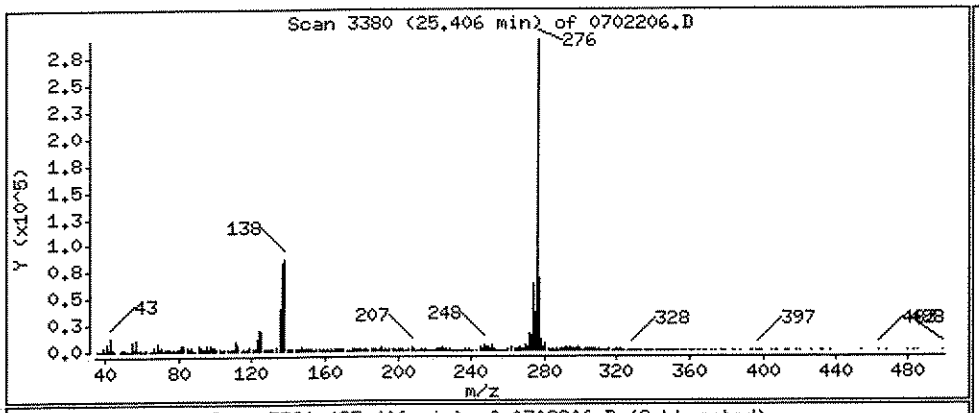
Client ID: 51CFM04S060706 Instrument: bna1.i

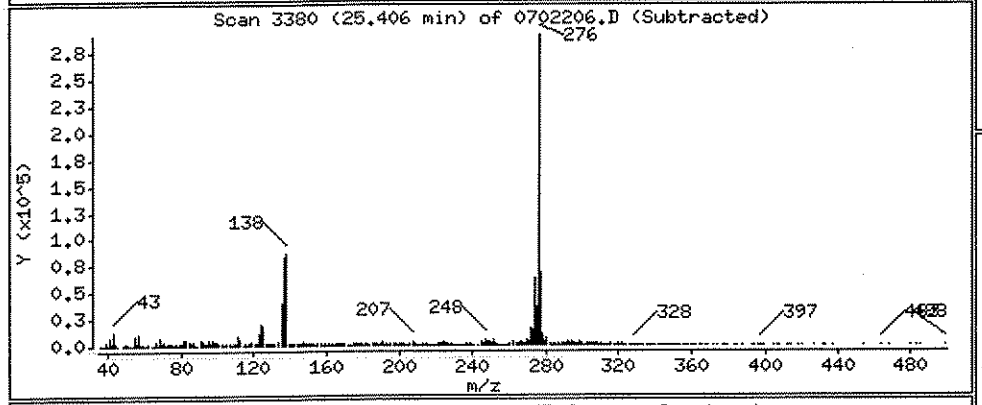
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

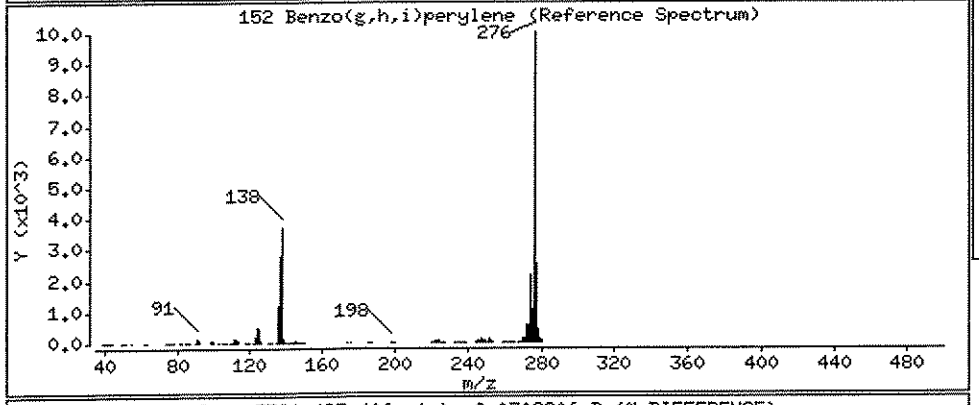
Volume Injected (uL): 0.5 Operator: SDB

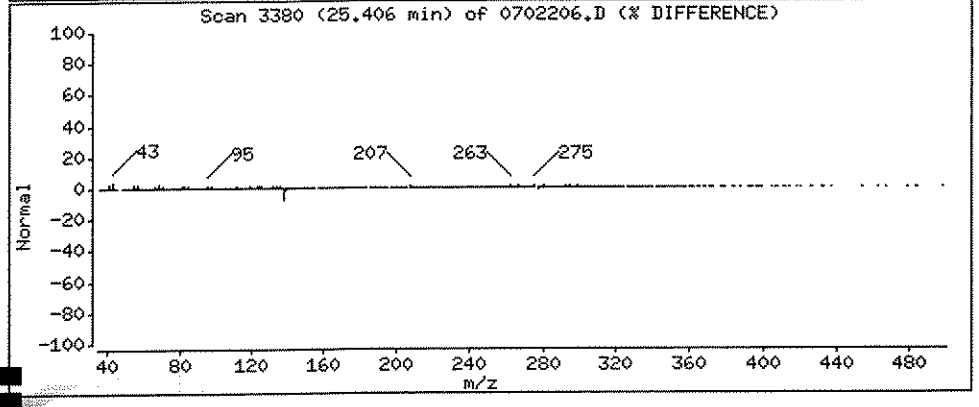
Column phase: fused silica Column diameter: 0.25

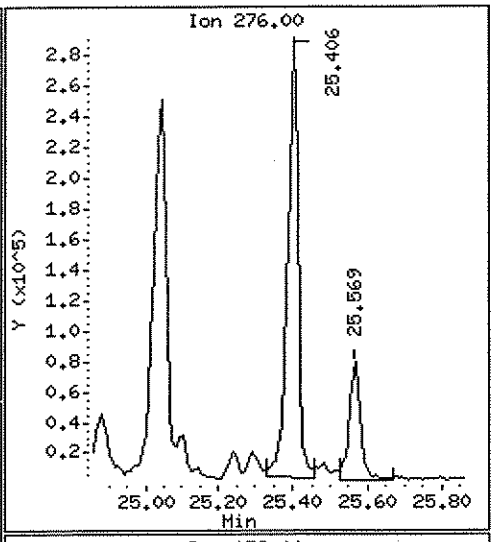
152 Benzo(g,h,i)perylene Concentration: 7391 UG/KG

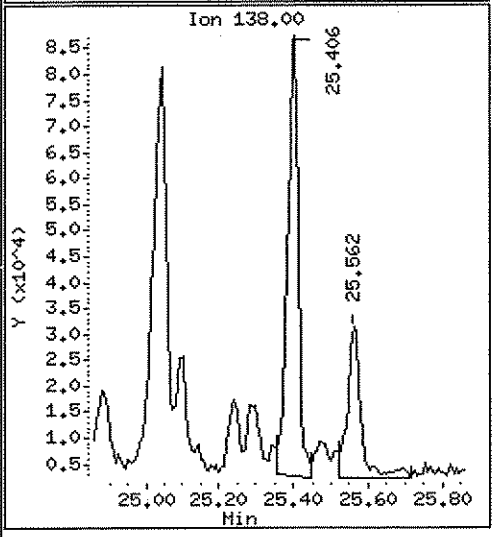












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM04S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702206D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:17

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000	9600	JD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	11000	JD
56-55-3	Benzo(a)anthracene	4200	35000	34000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	28000	JD
207-08-9	Benzo(k)fluoranthene	4200	35000	21000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	16000	JD
50-32-8	Benzo(a)pyrene	4200	21000	30000	D
218-01-9	Chrysene	4200	35000	40000	D
53-70-3	Dibenz(a,h)anthracene	4200	21000		UD
206-44-0	Fluoranthene	4200	35000	76000	D
86-73-7	Fluorene	4200	35000	10000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	18000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	74000	D
129-00-0	Pyrene	4200	35000	61000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 11-JUL-2006 13:17
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	200.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.234	4.235	(1.000)	550037	40.0000	
* 31 Naphthalene-d8	136	5.235	5.240	(1.000)	1768695	40.0000	
* 65 Acenaphthene-d10	164	7.638	7.641	(1.000)	910077	40.0000	
76 Acenaphthene	153	7.686	7.703	(1.006)	36138	1.37589	9561(a)
84 Fluorene	166	8.714	8.727	(1.141)	41834	1.48917	10350(a)
* 97 Phenanthrene-d10	188	10.920	10.923	(1.000)	1219549	40.0000	
106 Phenanthrene	178	10.968	10.986	(1.004)	370610	10.6583	74060
107 Anthracene	178	11.078	11.096	(1.015)	55130	1.60592	11160(a)
110 Fluoranthene	202	14.180	14.195	(1.299)	376879	10.9476	76080
* 124 Chrysene-d12	240	18.323	18.333	(1.000)	928463	40.0000	
126 Pyrene	202	14.757	14.770	(0.805)	326338	8.80102	61160
130 Benzo(a)anthracene	228	18.268	18.291	(0.997)	145674	4.86957	33840(a)
131 Chrysene	228	18.379	18.409	(1.003)	156222	5.71759	39730

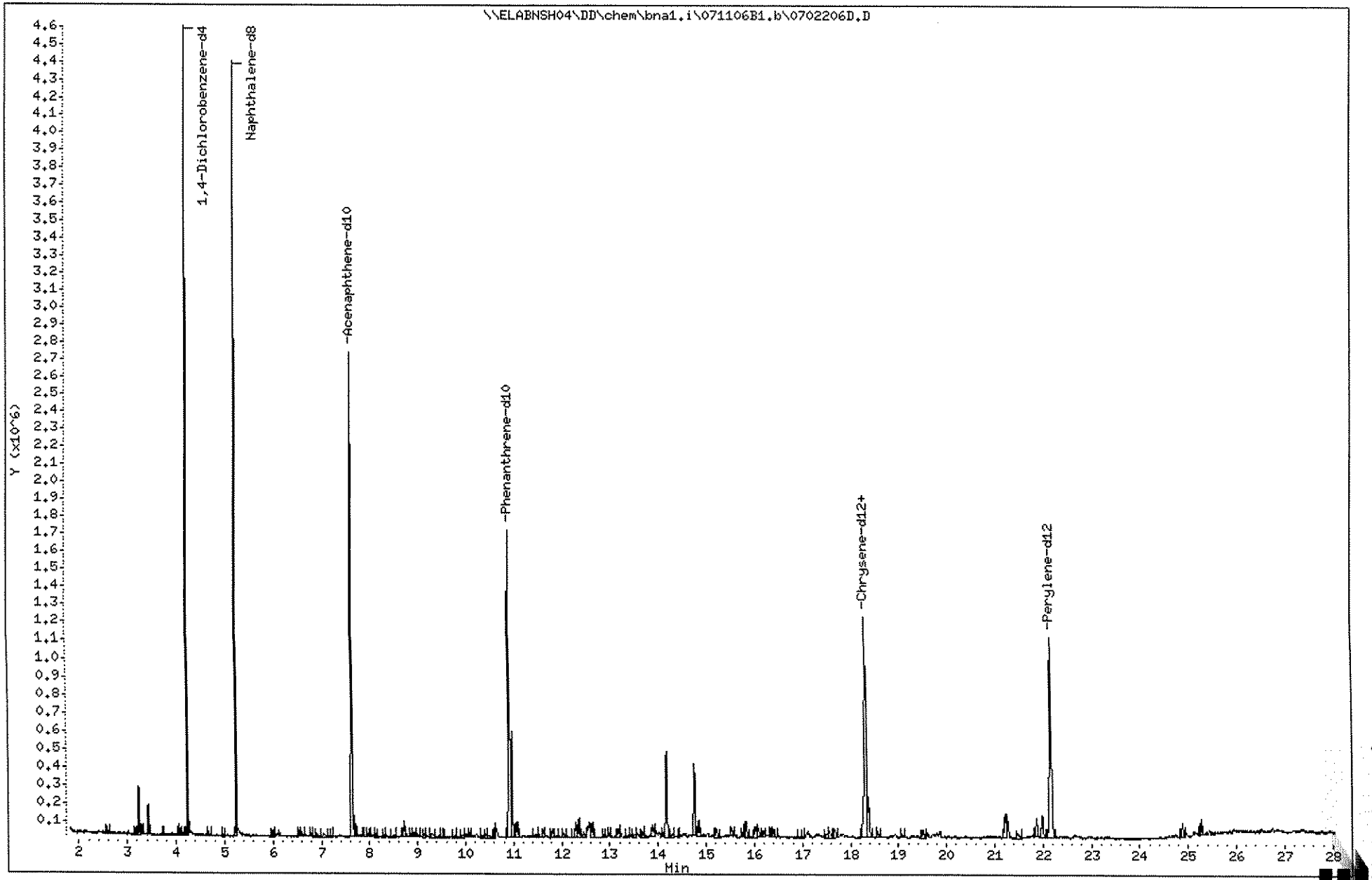
Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Report Date: 12-Jul-2006 12:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.166	22.175	(1.000)	954726	40.0000	
147 Benzo(b)fluoranthene	252	21.215	21.248	(0.957)	120219	4.08773	28410(aM)
148 Benzo(k)fluoranthene	252	21.250	21.317	(0.959)	94357	3.09238	21490(aM)
149 Benzo(a)pyrene	252	21.986	22.017	(0.992)	110520	4.35803	30280(a)
150 Indeno(1,2,3-cd)pyrene	276	24.880	24.921	(1.122)	54962	2.54021	17650(a)
152 Benzo(g,h,i)perylene	276	25.267	25.301	(1.140)	51253	2.28263	15860(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D
Date : 11-JUL-2006 13:17
Client ID: 51CFM04S060706
Instrument: bna1.i
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25



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Date : 11-JUL-2006 13:17

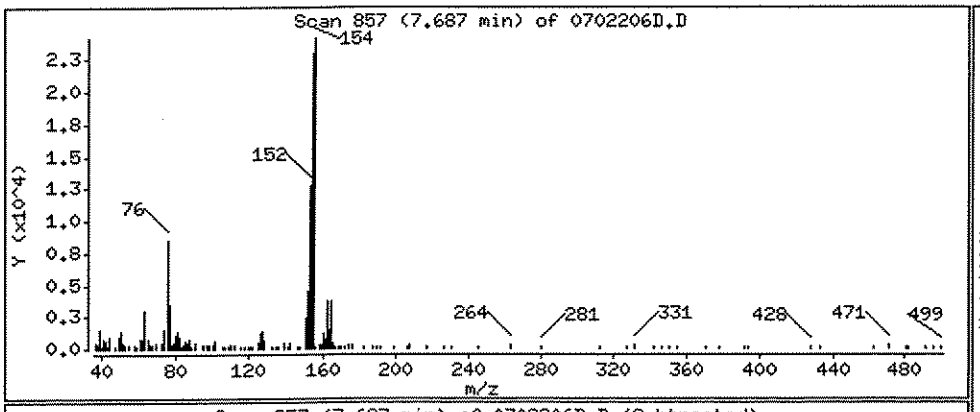
Client ID: 51CFM04S060706 Instrument: bna1.i

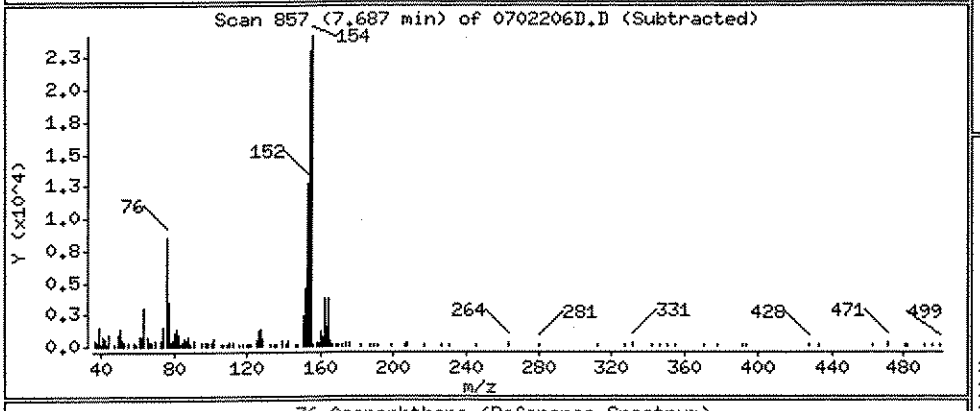
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

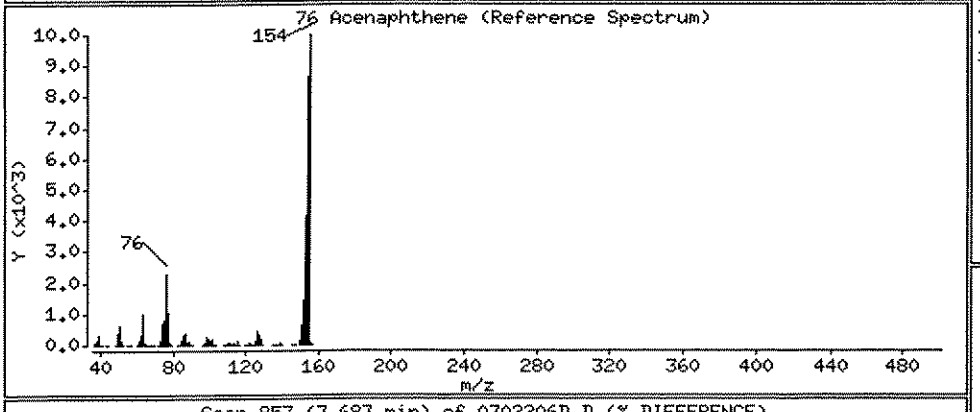
Volume Injected (uL): 0.5 Operator: SDB

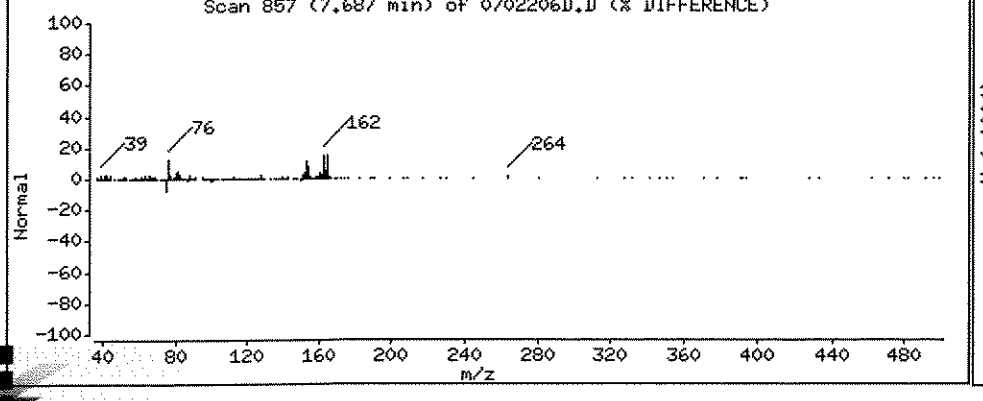
Column phase: fused silica Column diameter: 0.25

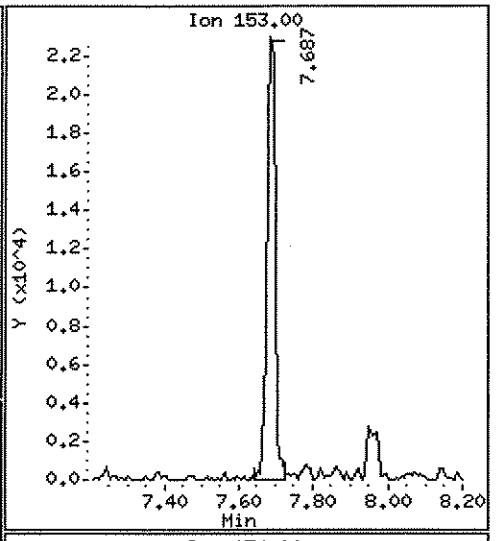
76 Acenaphthene Concentration: 9561 UG/KG

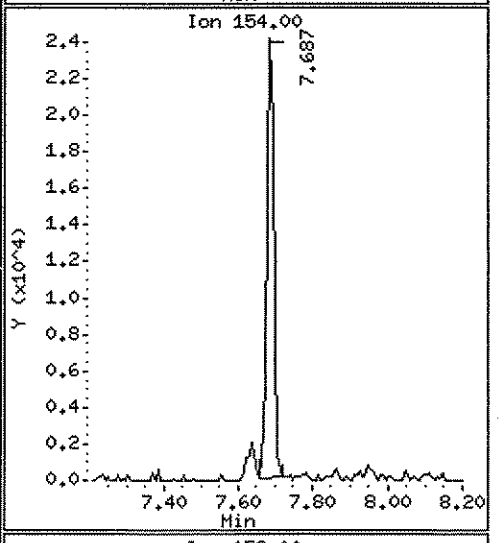


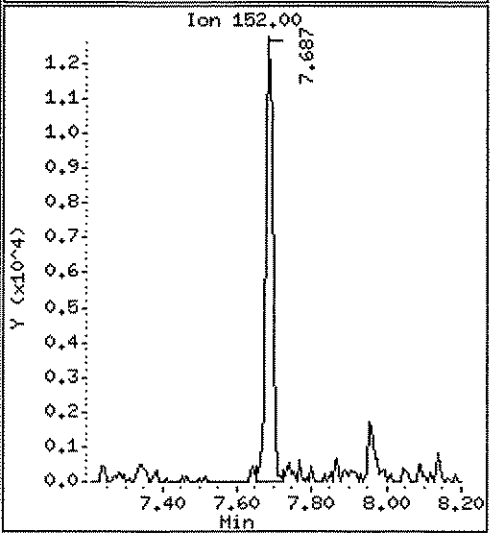












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Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

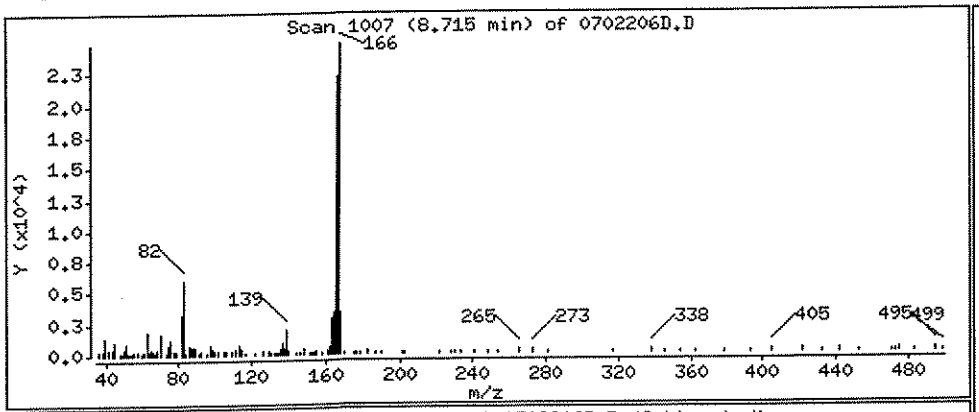
Operator: SDB

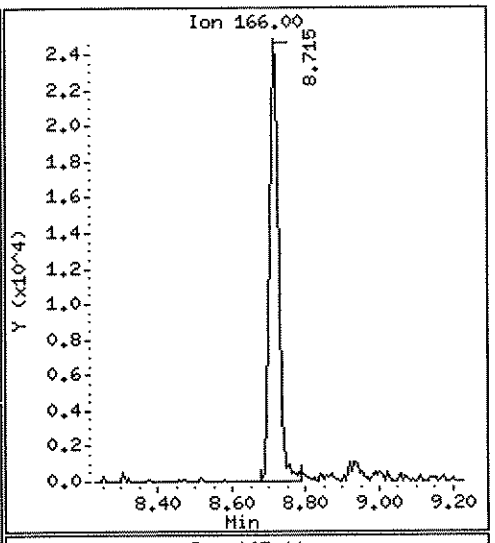
Column phase: fused silica

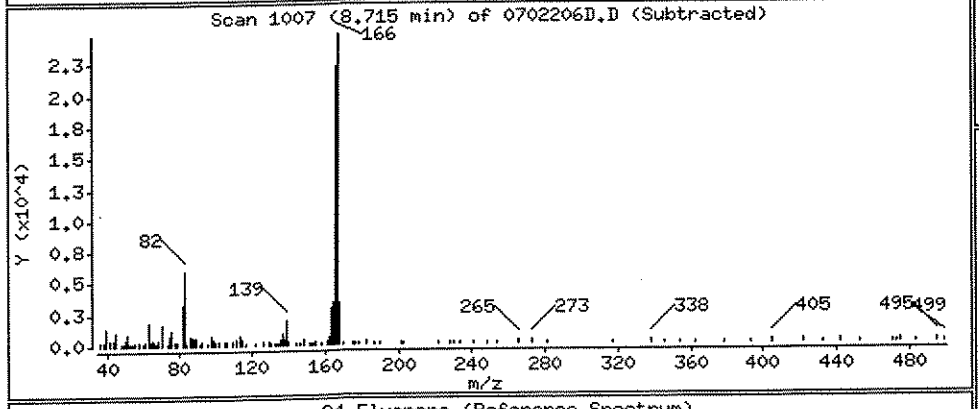
Column diameter: 0.25

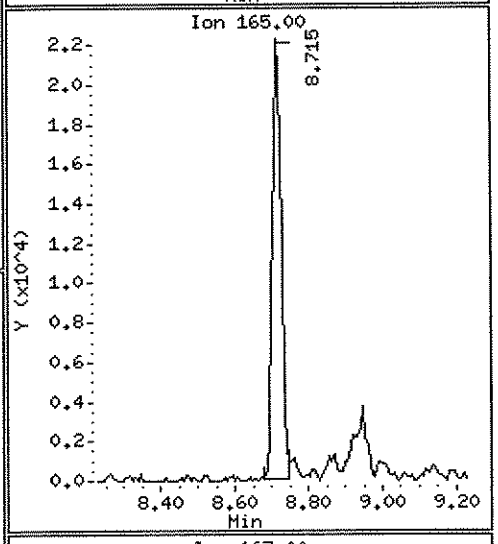
84 Fluorene

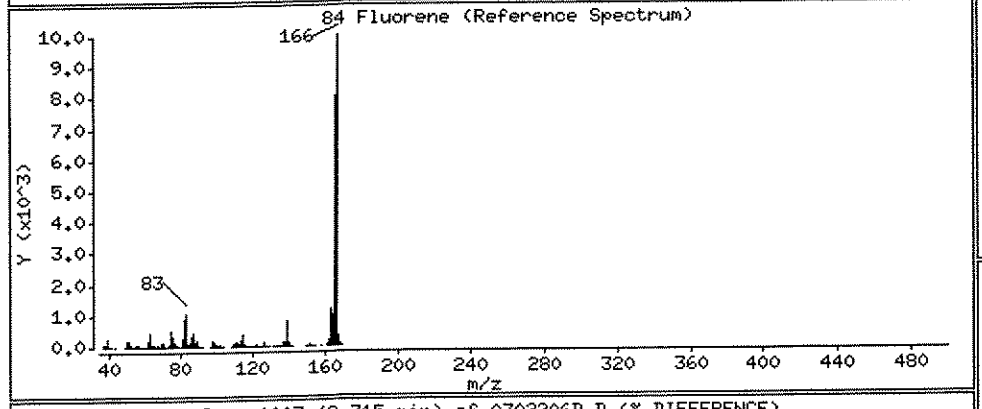
Concentration: 10350 UG/KG

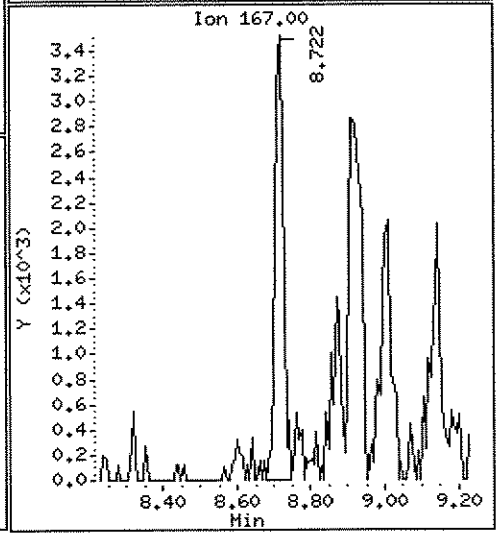


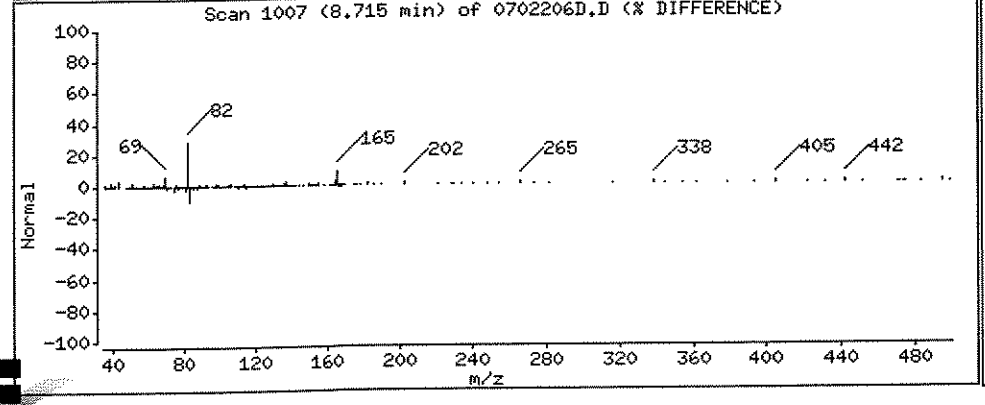












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Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

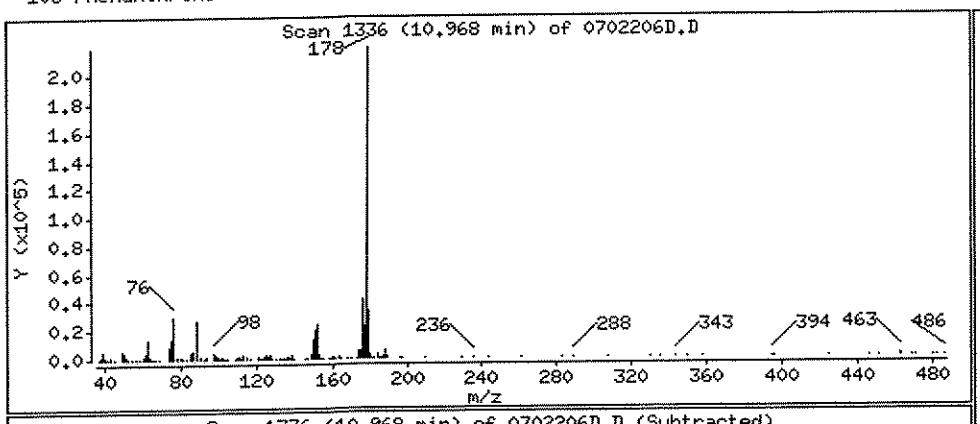
Operator: SDB

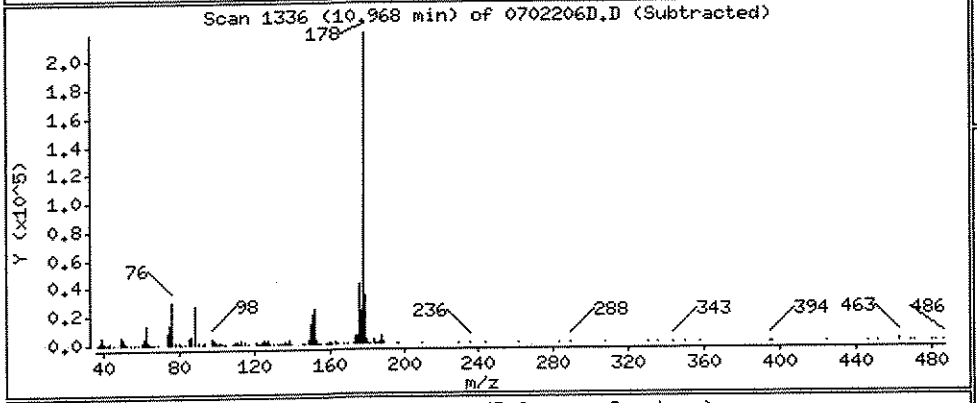
Column phase: fused silica

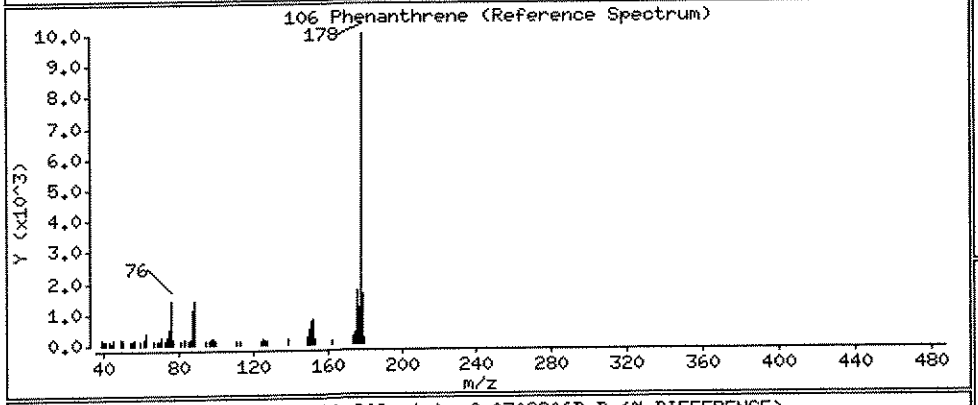
Column diameter: 0.25

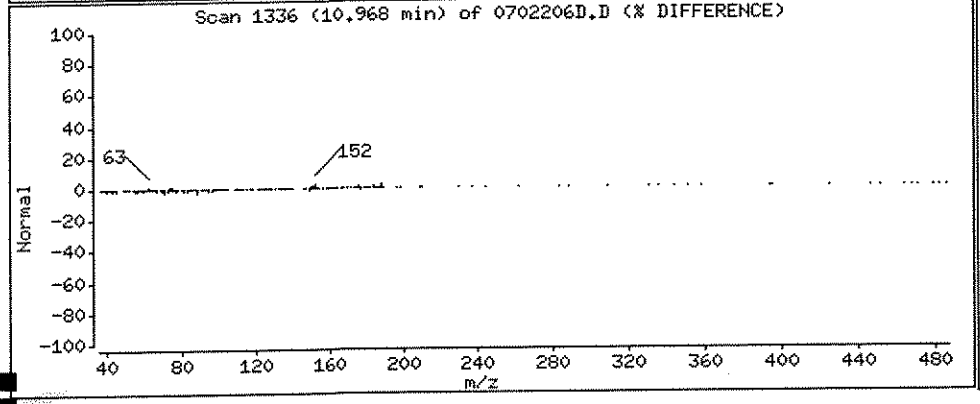
106 Phenanthrene

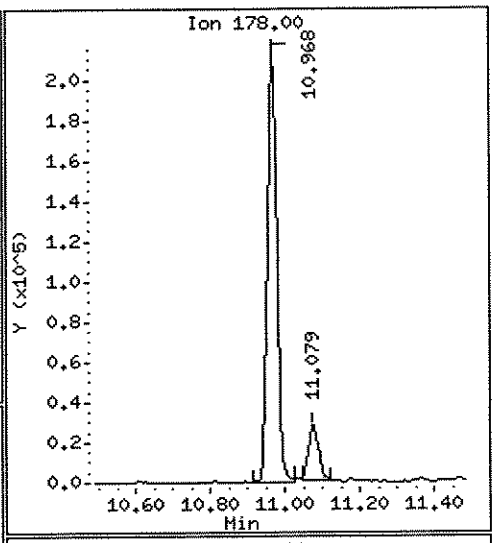
Concentration: 74060 UG/KG

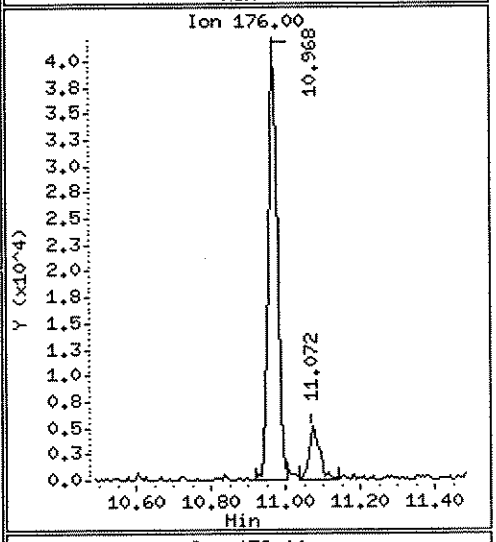


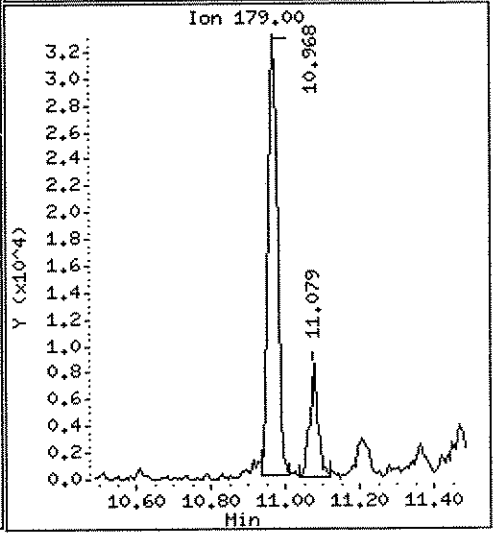












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

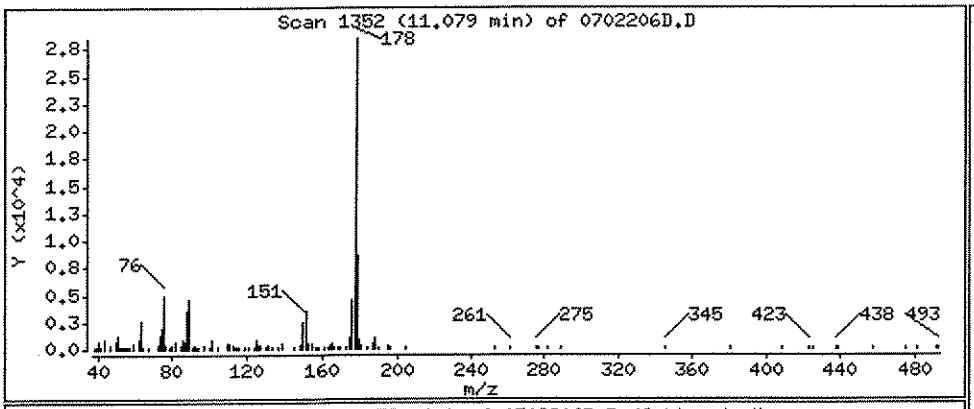
Client ID: 51CFM04S060706 Instrument: bna1.i

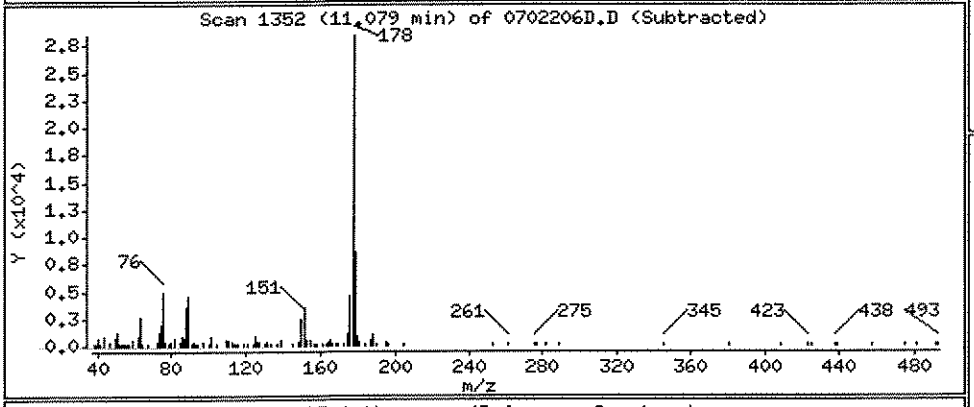
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

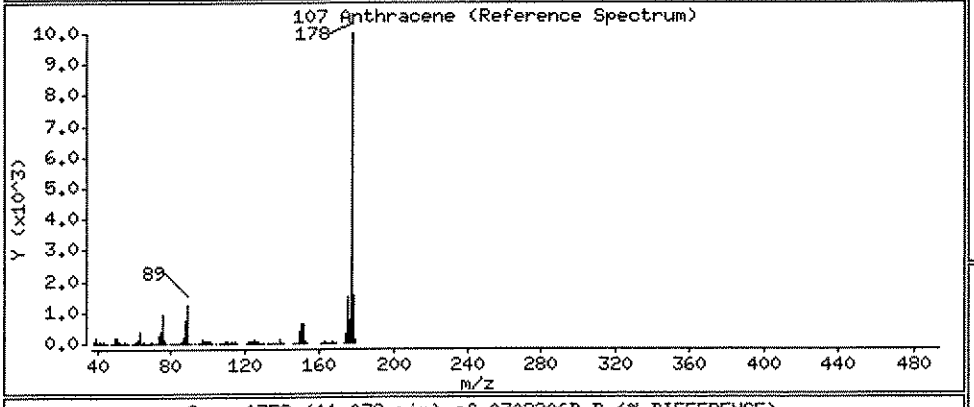
Volume Injected (uL): 0.5 Operator: SDB

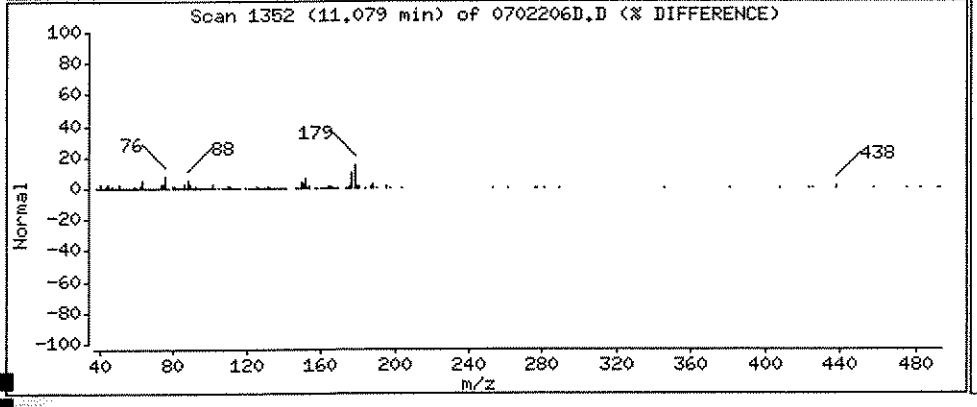
Column phase: fused silica Column diameter: 0.25

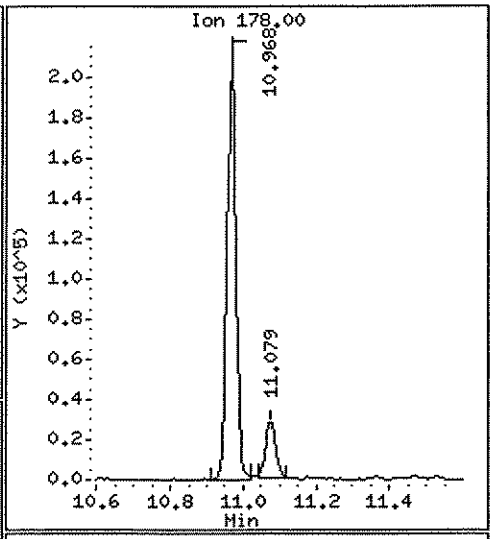
107 Anthracene Concentration: 11160 UG/KG

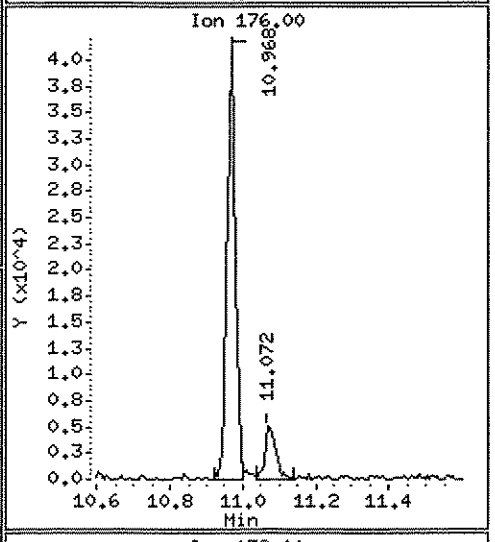


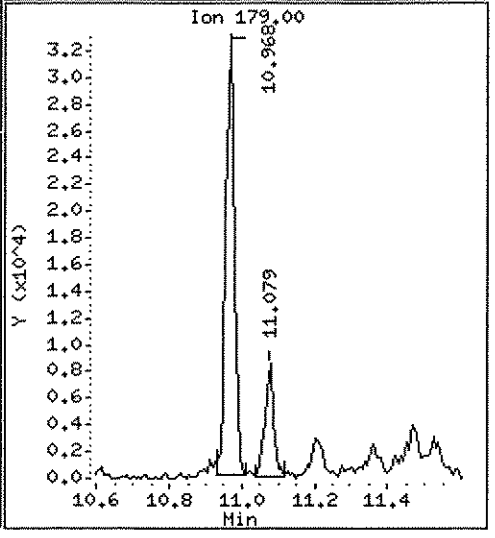












Empirical Laboratories

000173

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

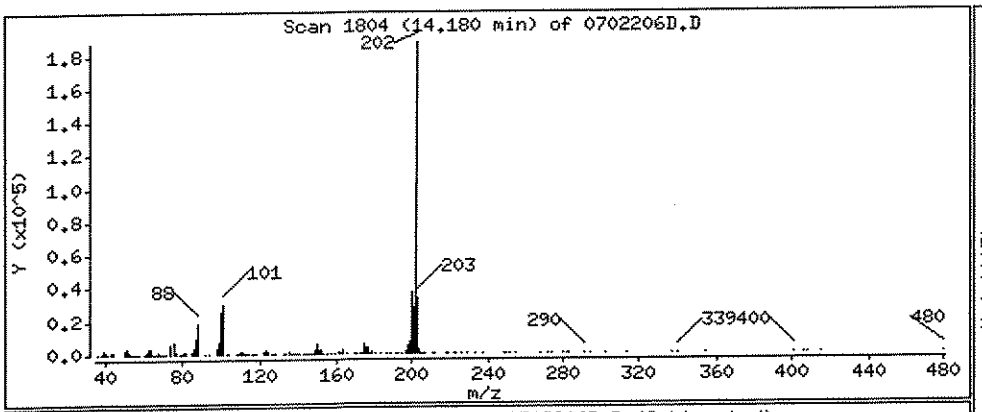
Operator: SDB

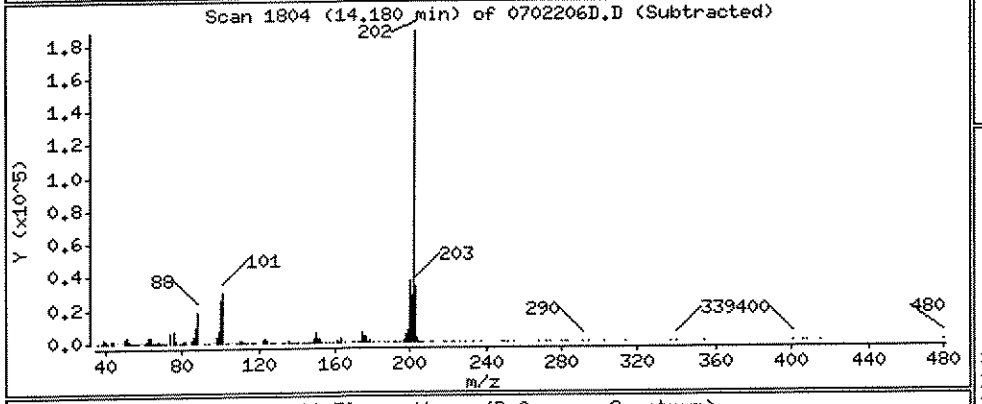
Column phase: fused silica

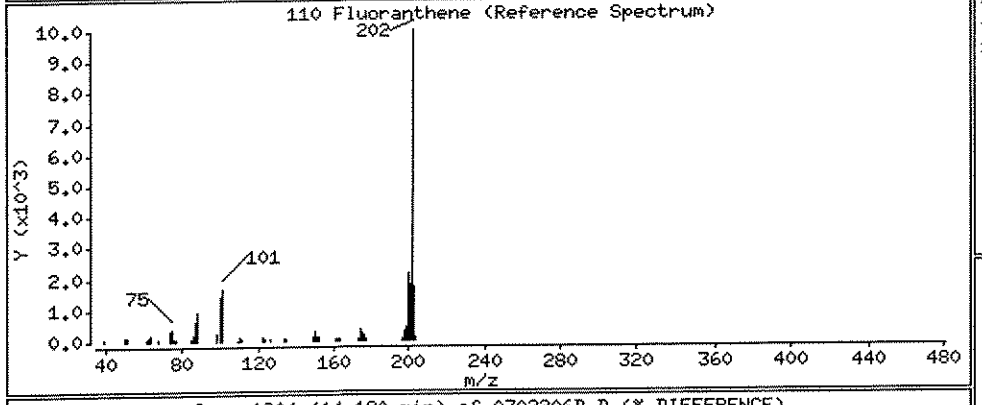
Column diameter: 0.25

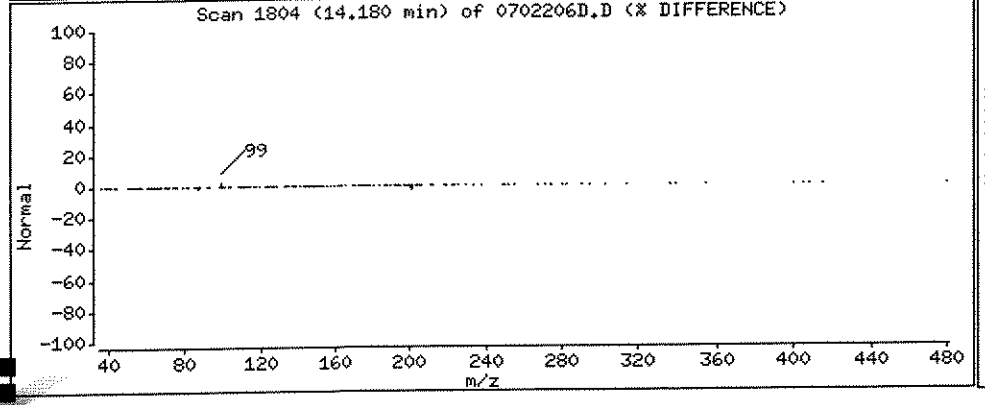
110 Fluoranthene

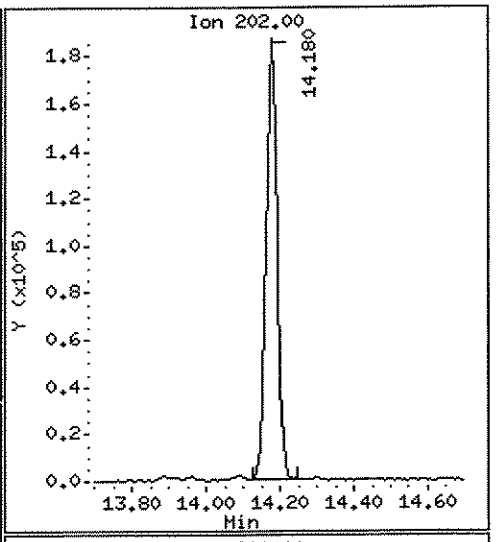
Concentration: 76080 UG/KG

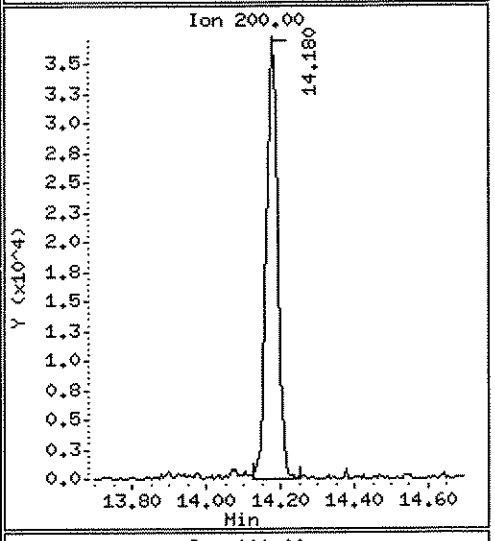


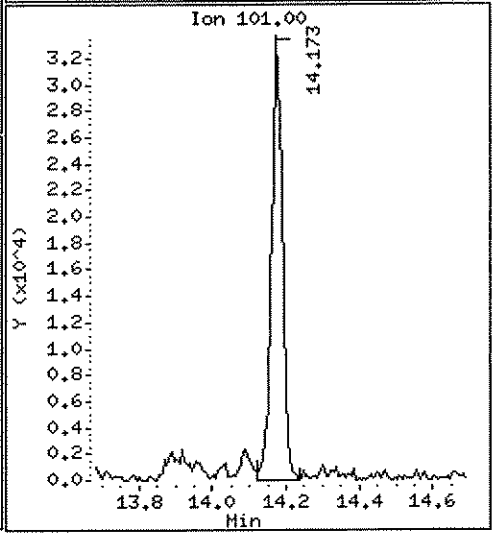












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

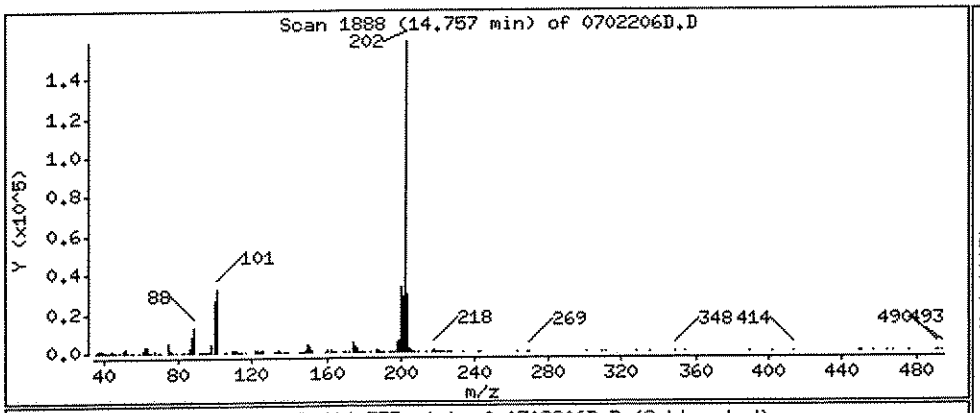
Operator: SDB

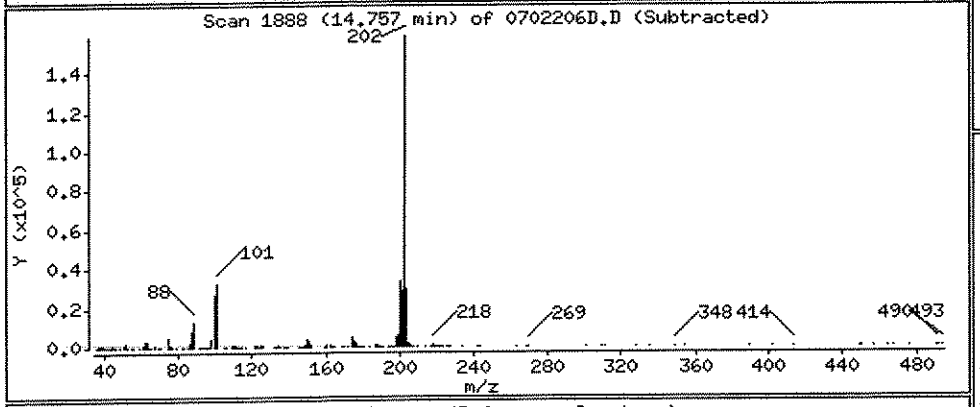
Column phase: fused silica

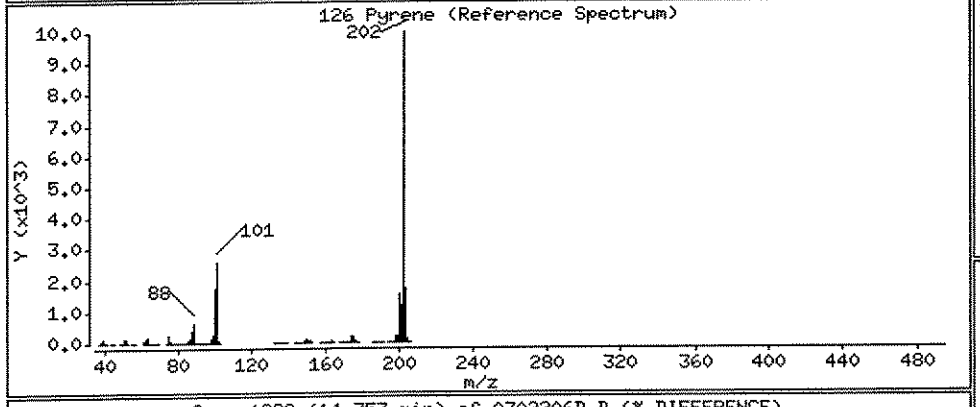
Column diameter: 0.25

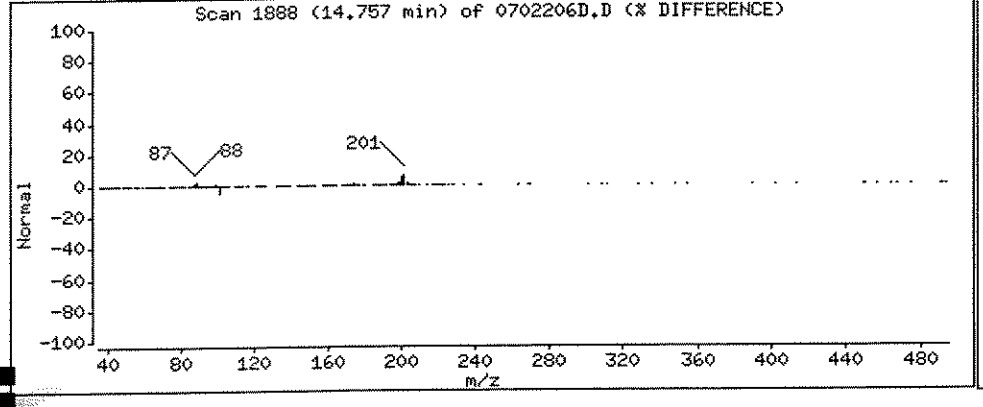
126 Pyrene

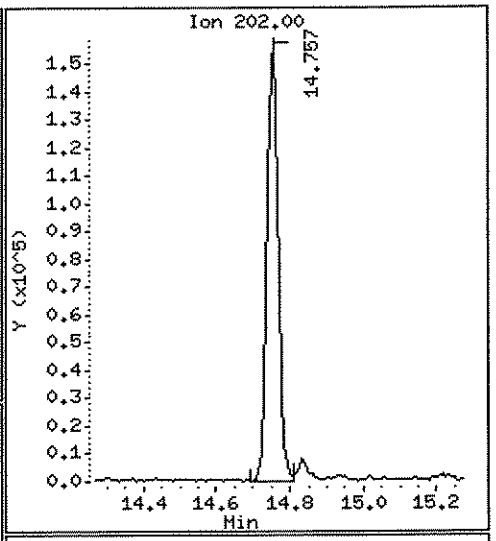
Concentration: 61160 UG/KG

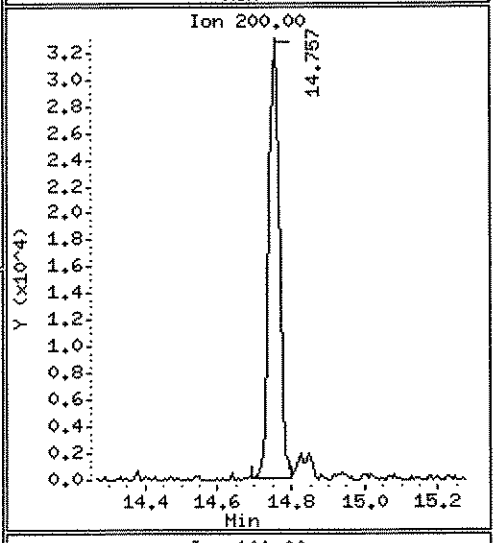


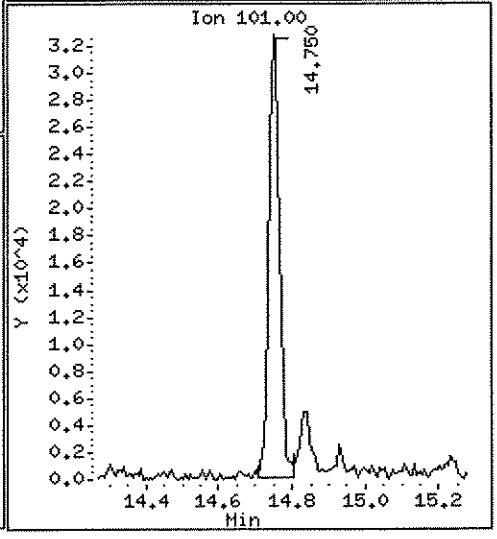












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

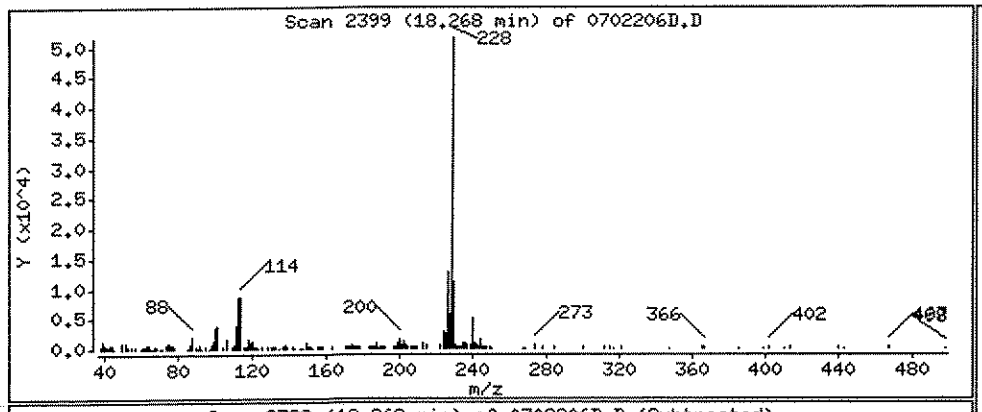
Client ID: 51CFM04S060706 Instrument: bna1.i

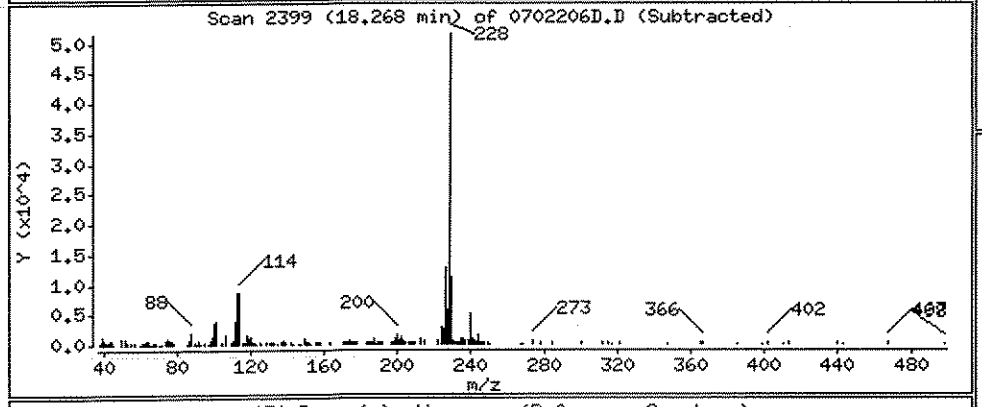
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

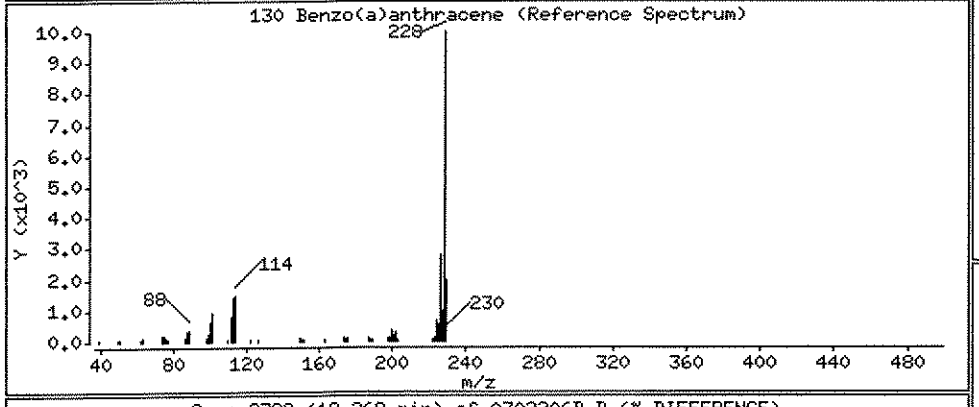
Volume Injected (uL): 0.5 Operator: SDB

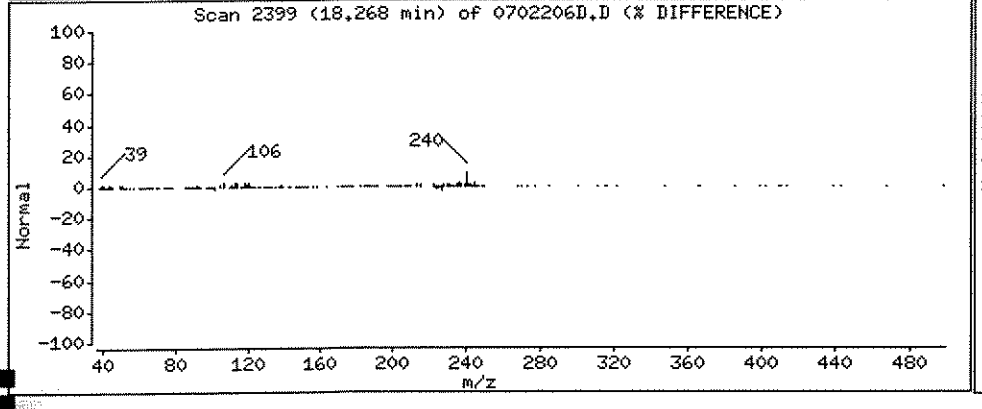
Column phase: fused silica Column diameter: 0.25

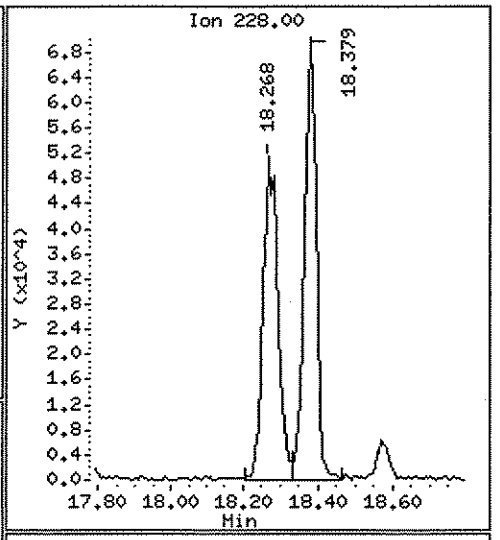
130 Benzo(a)anthracene Concentration: 33840 UG/KG

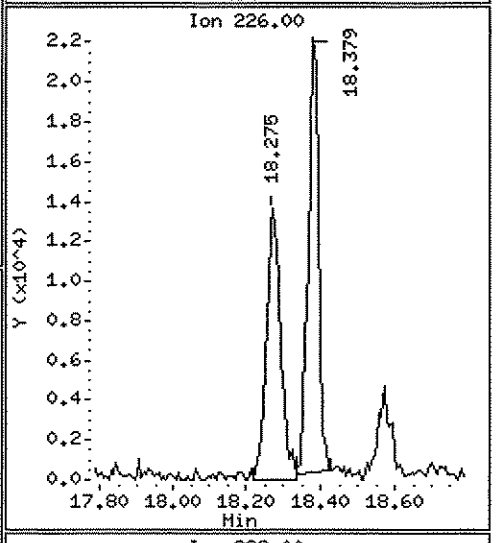


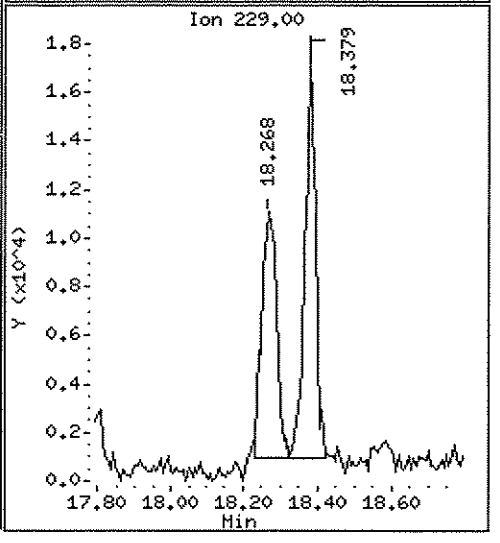












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

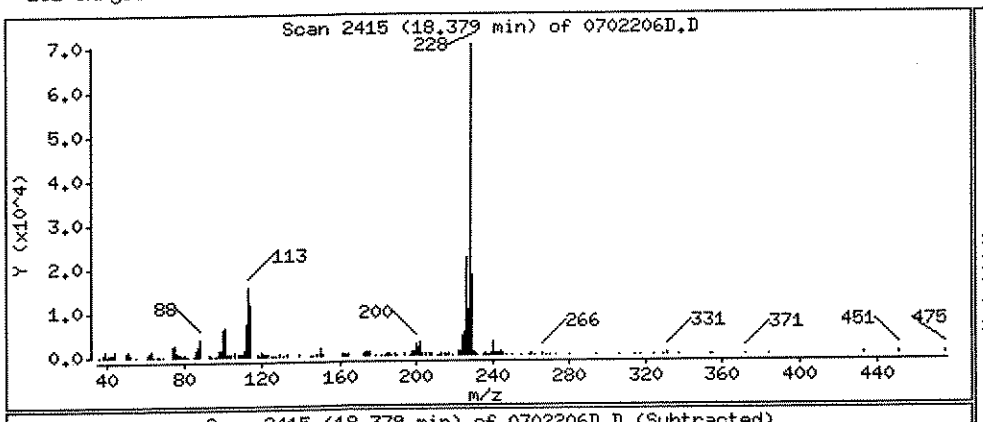
Operator: SDB

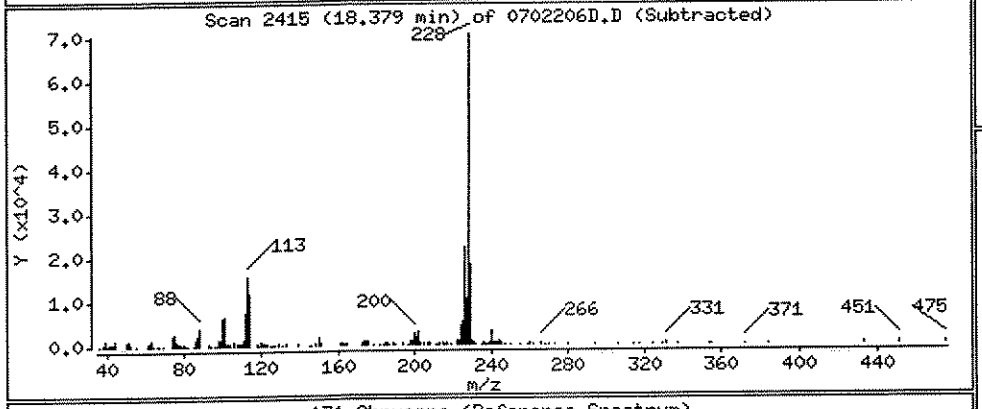
Column phase: fused silica

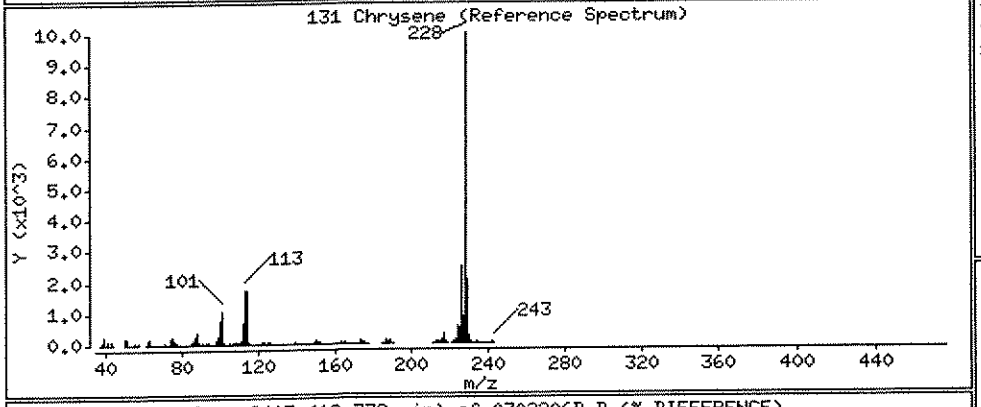
Column diameter: 0.25

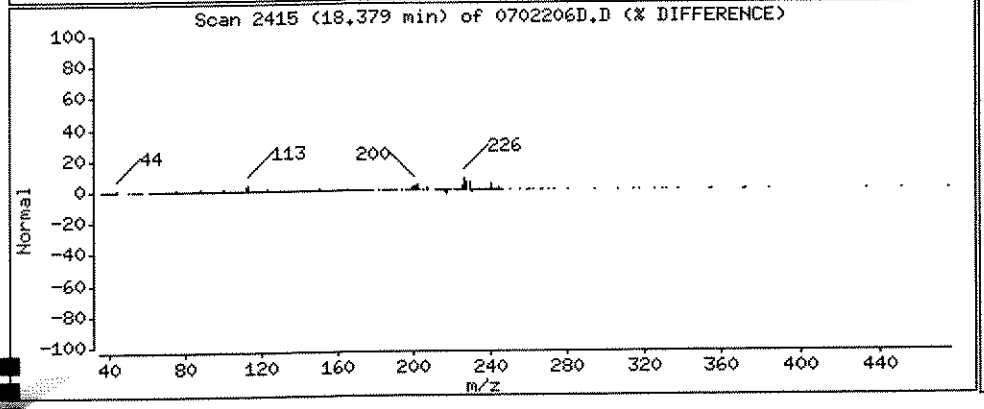
131 Chrysene

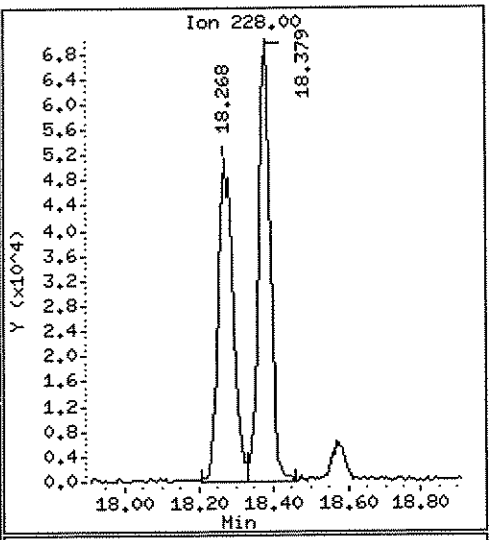
Concentration: 39730 UG/KG

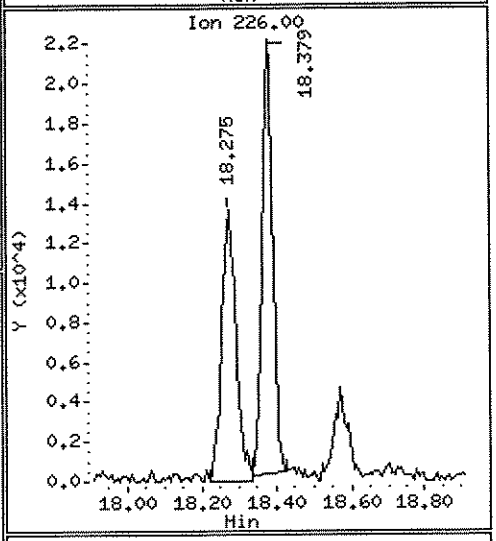


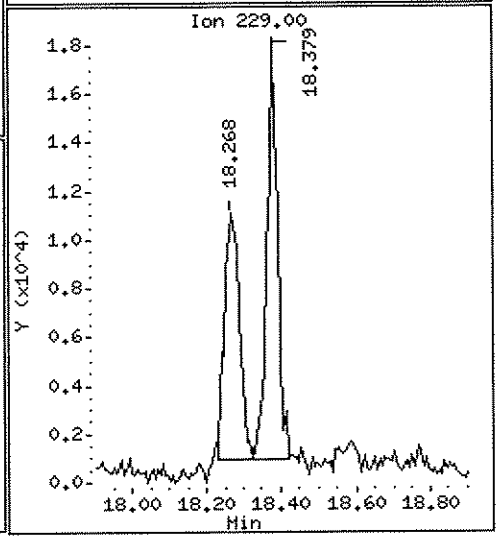












Empirical Laboratories

000177

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

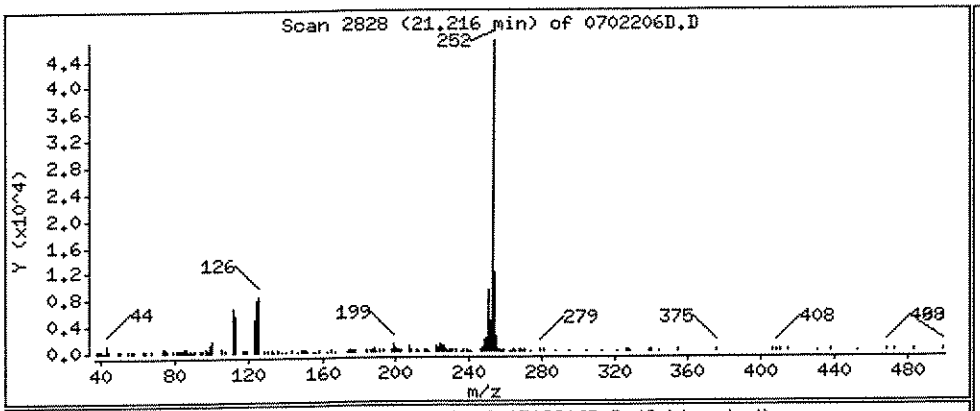
Operator: SDB

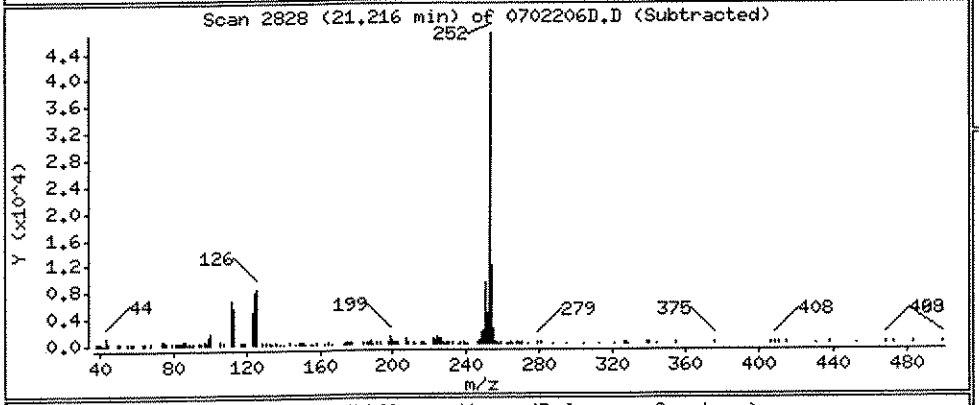
Column phase: fused silica

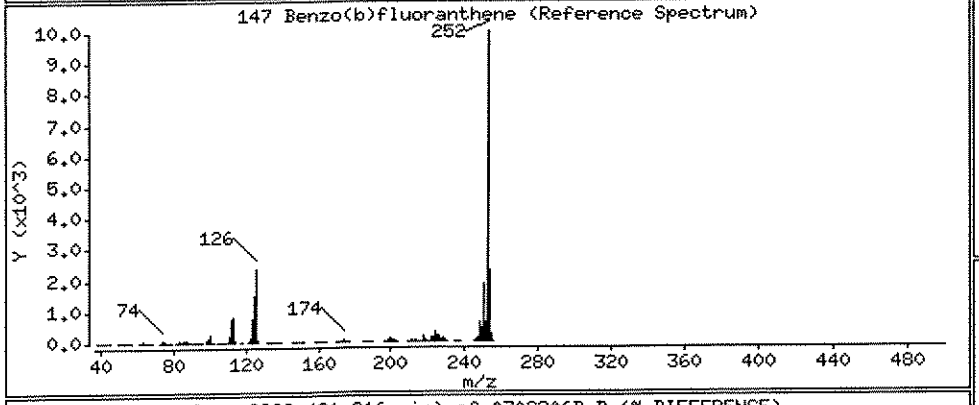
Column diameter: 0.25

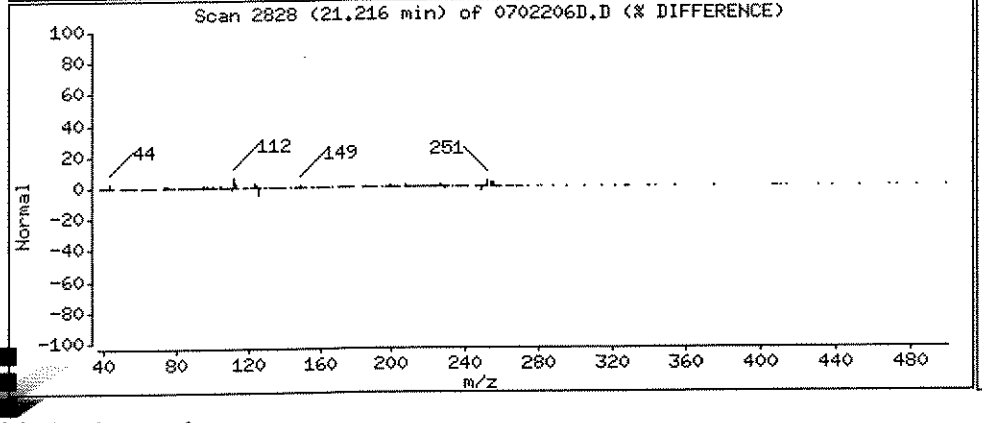
147 Benzo(b)fluoranthene

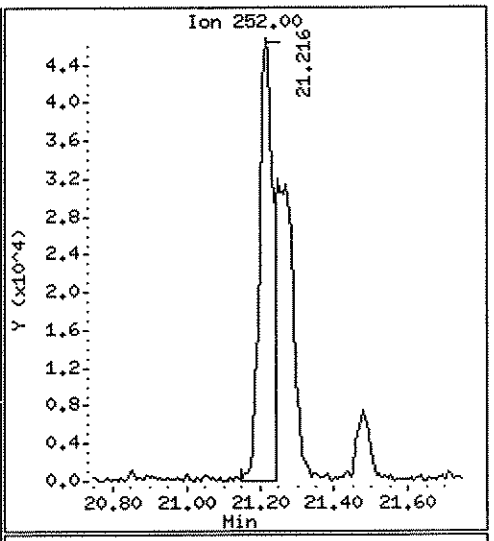
Concentration: 28410 UG/KG

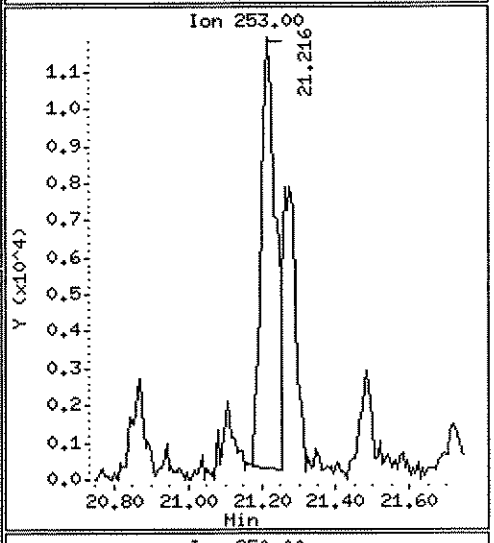


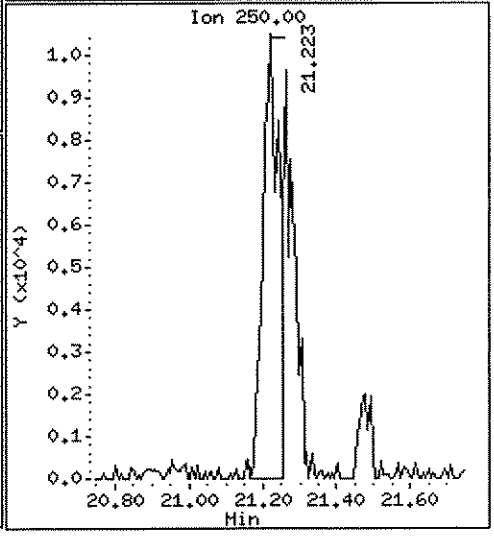












Empirical Laboratories

000178

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

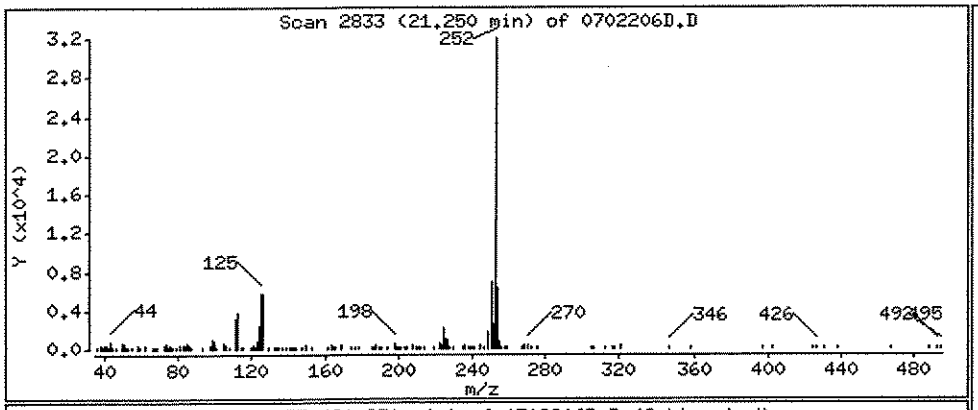
Client ID: 51CFM04S060706 Instrument: bna1.i

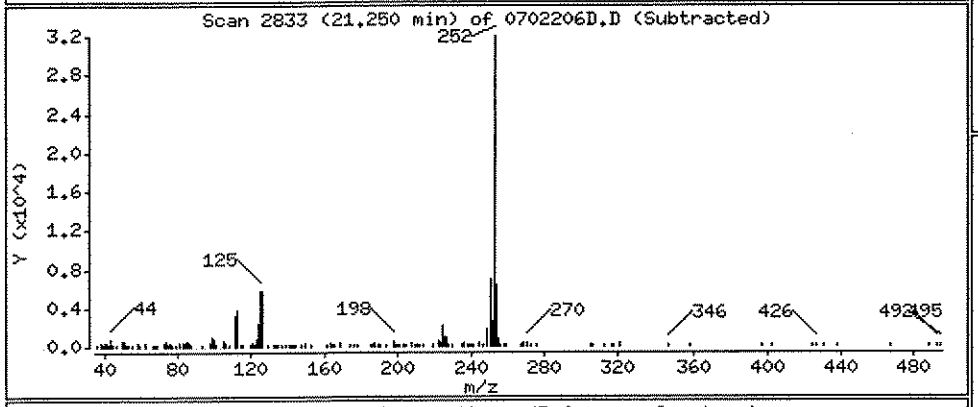
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

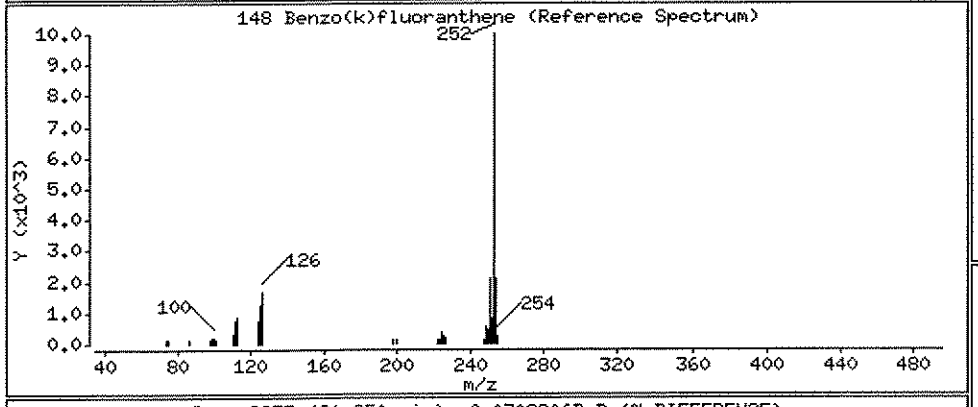
Volume Injected (uL): 0.5 Operator: SDB

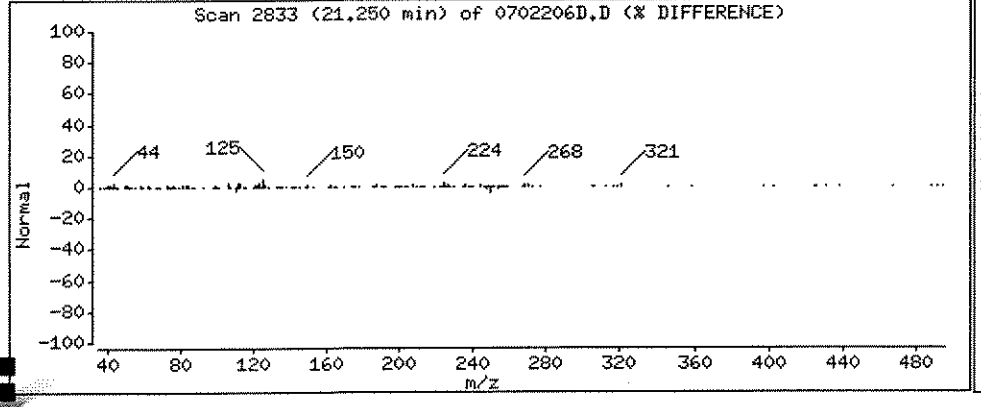
Column phase: fused silica Column diameter: 0.25

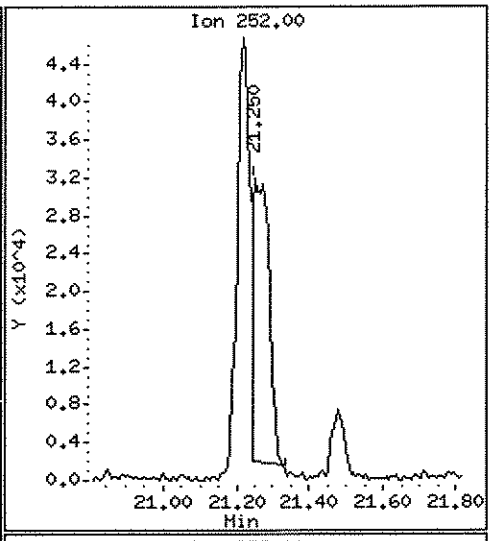
148 Benzo(k)fluoranthene Concentration: 21490 UG/KG

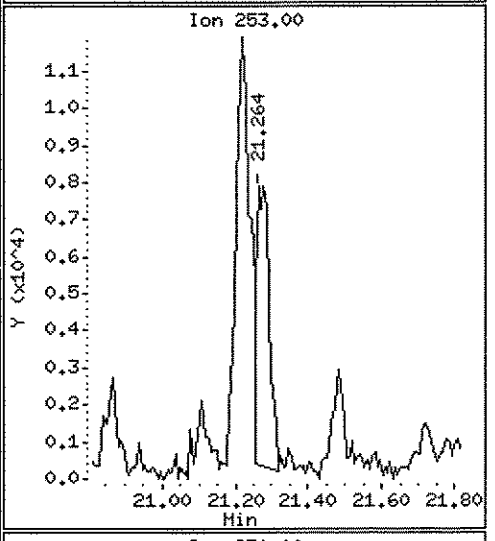


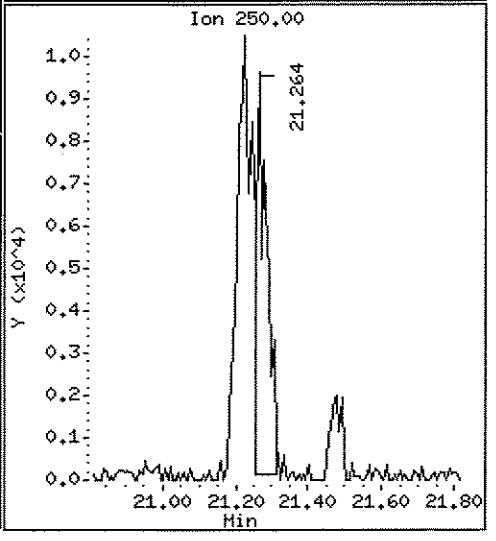












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702206D.D

Date : 11-JUL-2006 13:17

Client ID: 51CFM04S060706

Instrument: bna1.i

Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

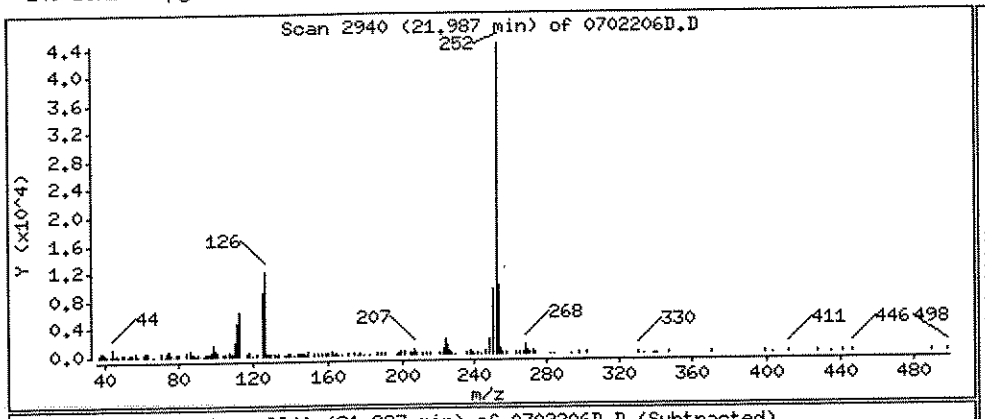
Operator: SDB

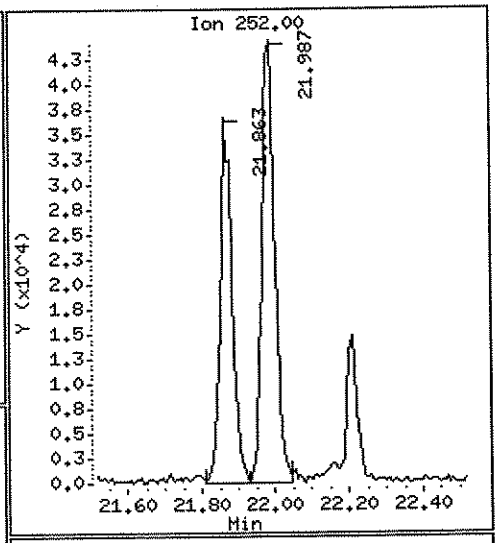
Column phase: fused silica

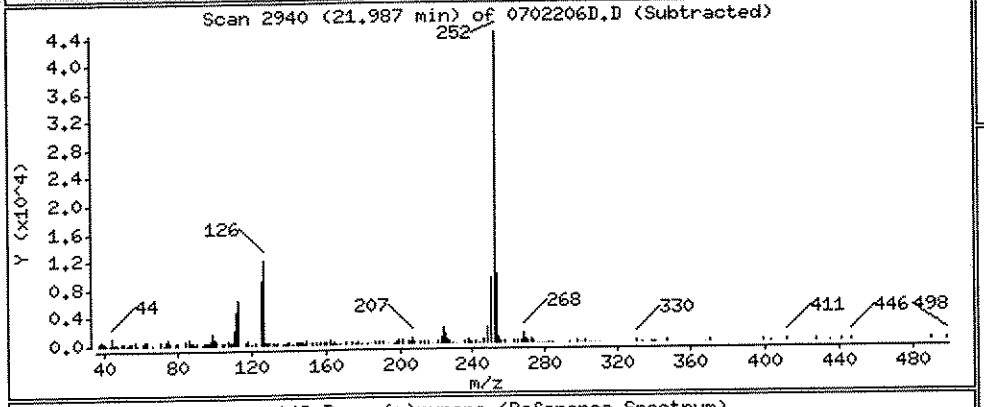
Column diameter: 0.25

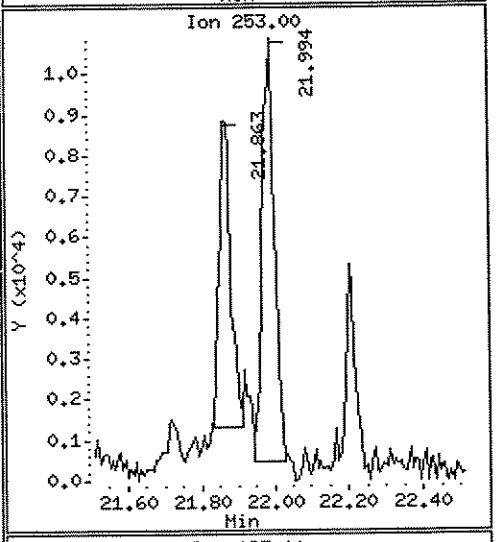
149 Benzo(a)pyrene

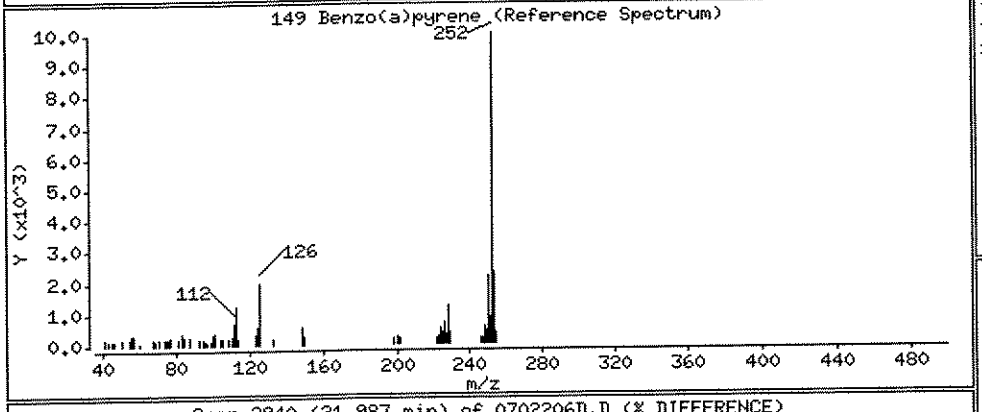
Concentration: 30280 UG/KG

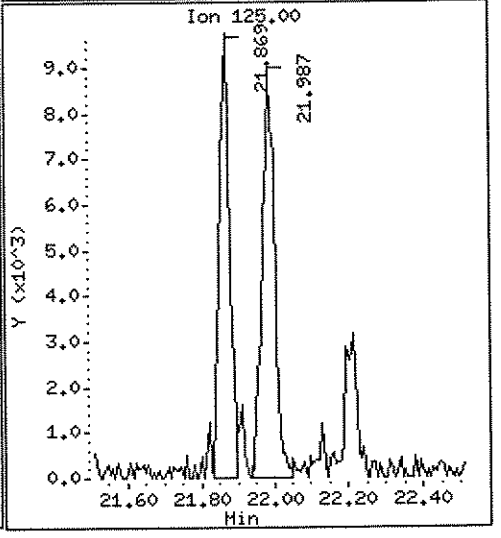


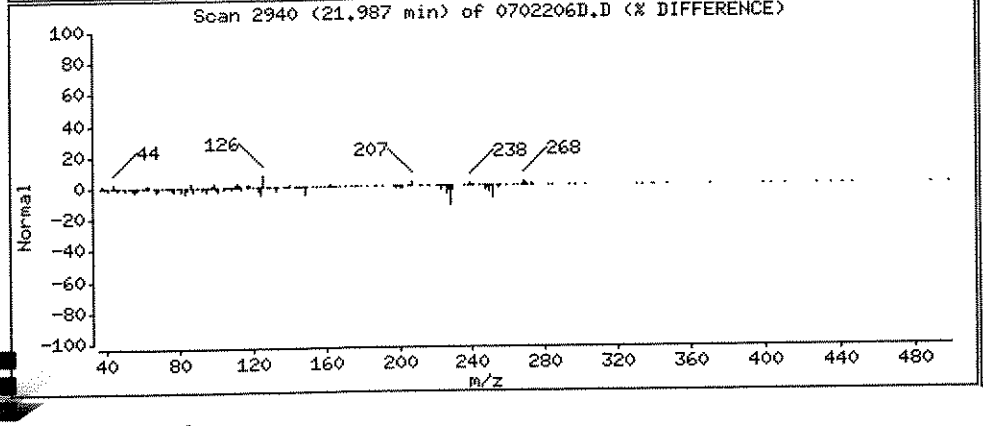












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Date : 11-JUL-2006 13:17

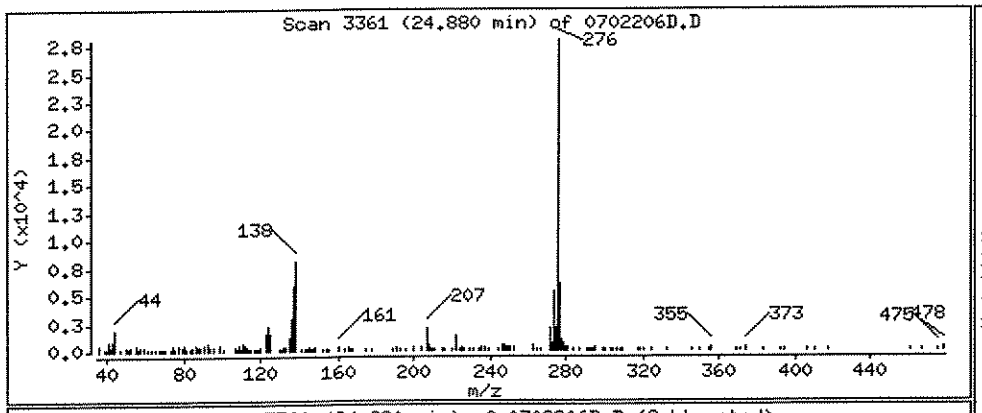
Client ID: 51CFM04S060706 Instrument: bna1.i

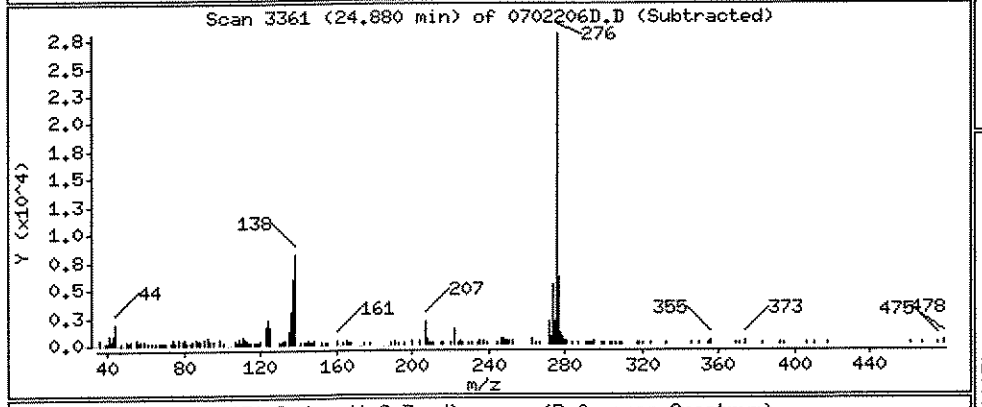
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

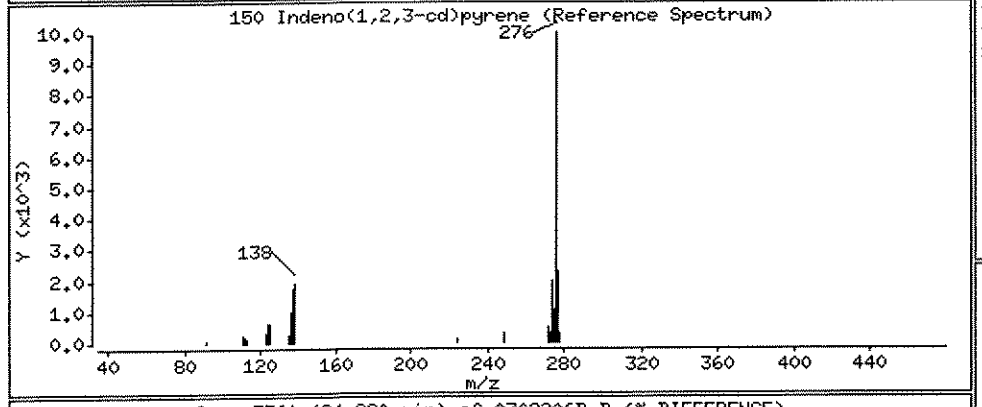
Volume Injected (uL): 0.5 Operator: SDB

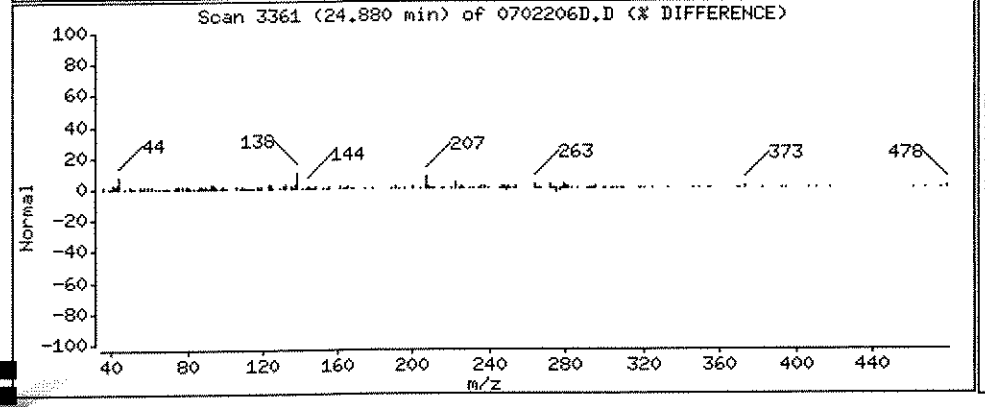
Column phase: fused silica Column diameter: 0.25

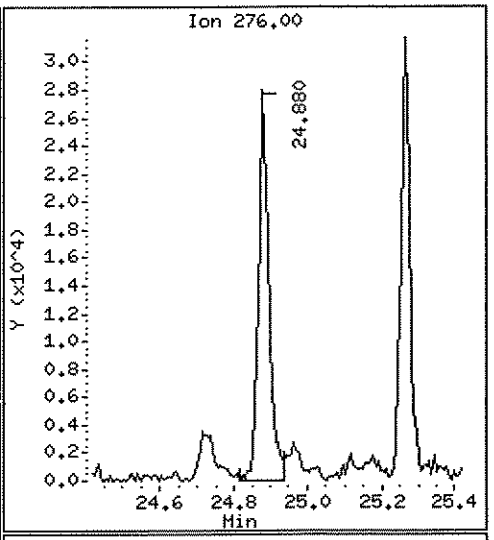
150 Indeno(1,2,3-cd)pyrene Concentration: 17650 UG/KG

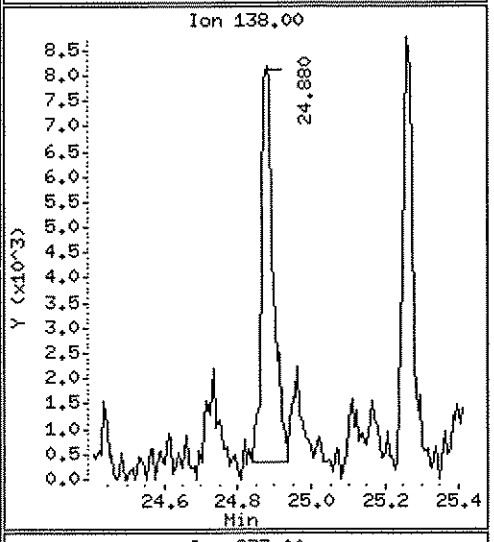


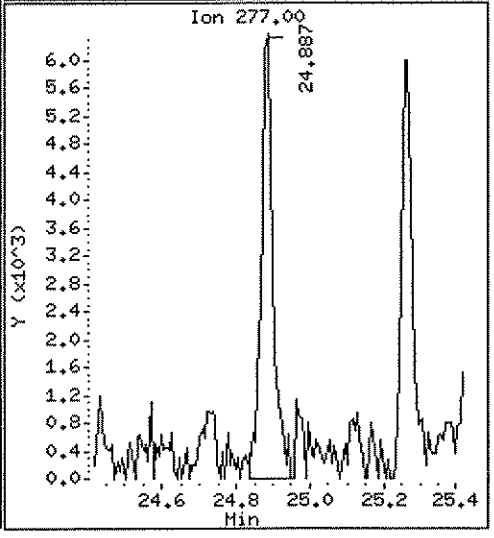












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Date : 11-JUL-2006 13:17

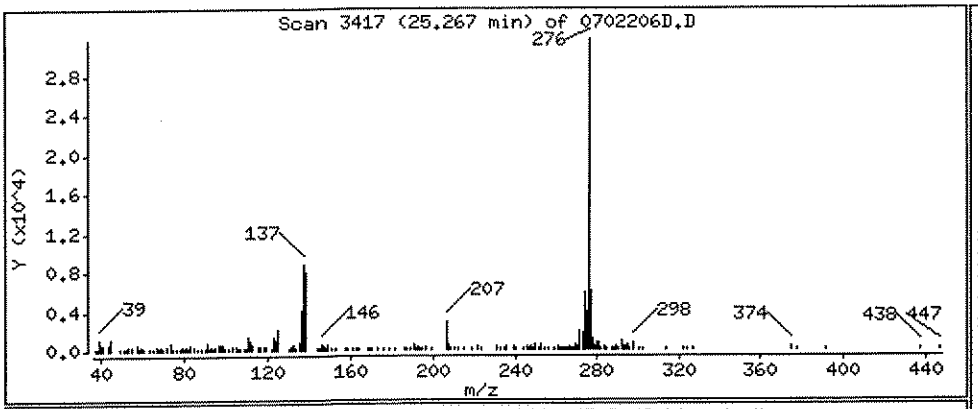
Client ID: 51CFM04S060706 Instrument: bna1.i

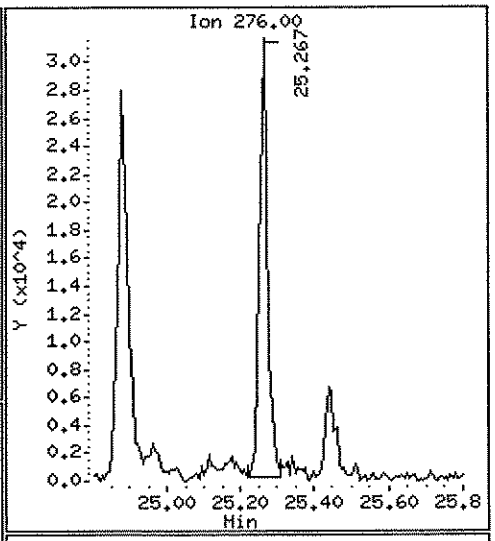
Sample Info: 0607022-06;15.1;500;1;UG/KG;10-JUL-2006

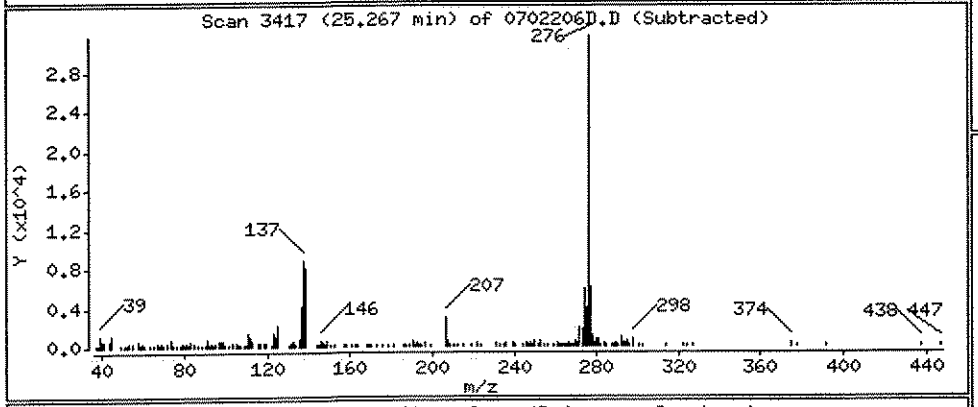
Volume Injected (uL): 0.5 Operator: SDB

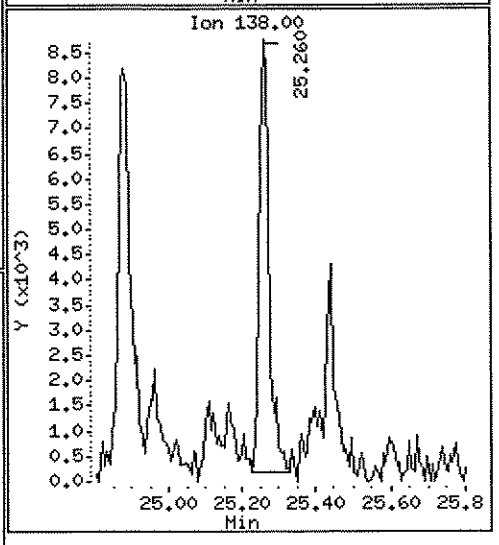
Column phase: fused silica Column diameter: 0.25

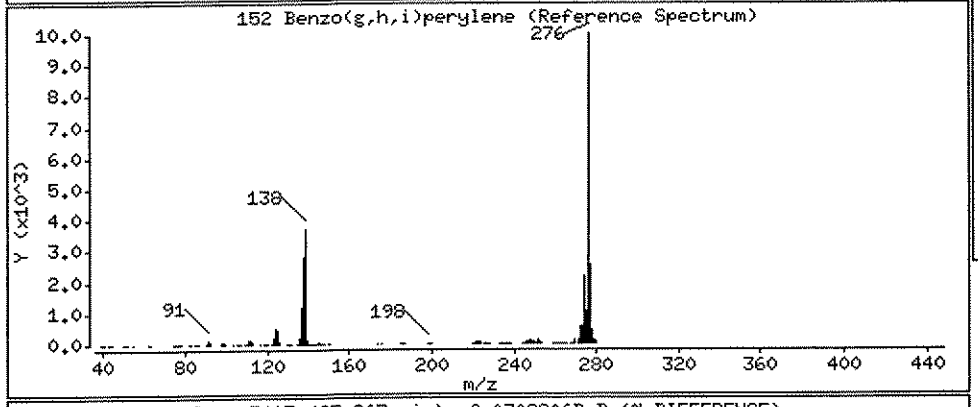
152 Benzo(g,h,i)perylene Concentration: 15860 UG/KG

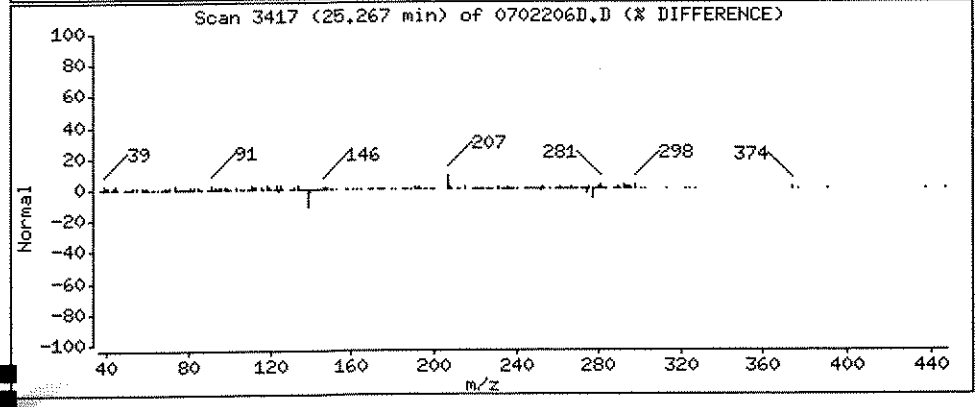












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	4700	E
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	4800	E
56-55-3	Benzo(a)anthracene	20	170	22000	E
205-99-2	Benzo(b)fluoranthene	20	170	31000	E
207-08-9	Benzo(k)fluoranthene	20	170	11000	E
191-24-2	Benzo(g,h,i)perylene	20	170	6200	E
50-32-8	Benzo(a)pyrene	20	100	20000	E
218-01-9	Chrysene	20	170	25000	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	24000	E
86-73-7	Fluorene	20	170	3800	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	7100	E
91-57-6	2-Methylnaphthalene	20	170	960	
90-12-0	1-Methylnaphthalene	51	170	590	
91-20-3	Naphthalene	20	170	400	
85-01-8	Phenanthrene	20	170	24000	E
129-00-0	Pyrene	20	170	63000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 10-JUL-2006 17:28
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

7/11/06

7/11/06

RK10X

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)	
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	569244	40.0000		
* 31 Naphthalene-d8	136	5.280	5.287	(1.000)	2035797	40.0000		
$ 32 Nitrobenzene-d5	82	4.708	4.709	(0.892)	984944	44.3203	1504	
47 Naphthalene	128	5.301	5.307	(1.004)	590758	11.6713	396.0	
51 2-Methylnaphthalene	141	6.056	6.062	(1.147)	819570	28.1789	956.0	
52 1-Methylnaphthalene	141	6.194	6.203	(1.173)	485594	17.4898	593.4	
* 65 Acenaphthene-d10	164	7.720	7.719	(1.000)	892557	40.0000		
$ 70 2-Fluorobiphenyl	172	6.617	6.617	(0.857)	1459474	51.3828	1743	
76 Acenaphthene	153	7.803	7.781	(1.011)	3586070	139.213	4723 (A)	ou
84 Fluorene	166	8.844	8.814	(1.146)	3064946	111.245	3774 (A)	ou
* 97 Phenanthrene-d10	188	11.084	11.020	(1.000)	945614	40.0000	(M)	
106 Phenanthrene	178	11.223	11.082	(1.013)	19136160	709.759	24080 (A)	ou
107 Anthracene	178	11.293	11.192	(1.019)	3751134	140.924	4781 (AH)	ou

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Report Date: 11-Jul-2006 13:57

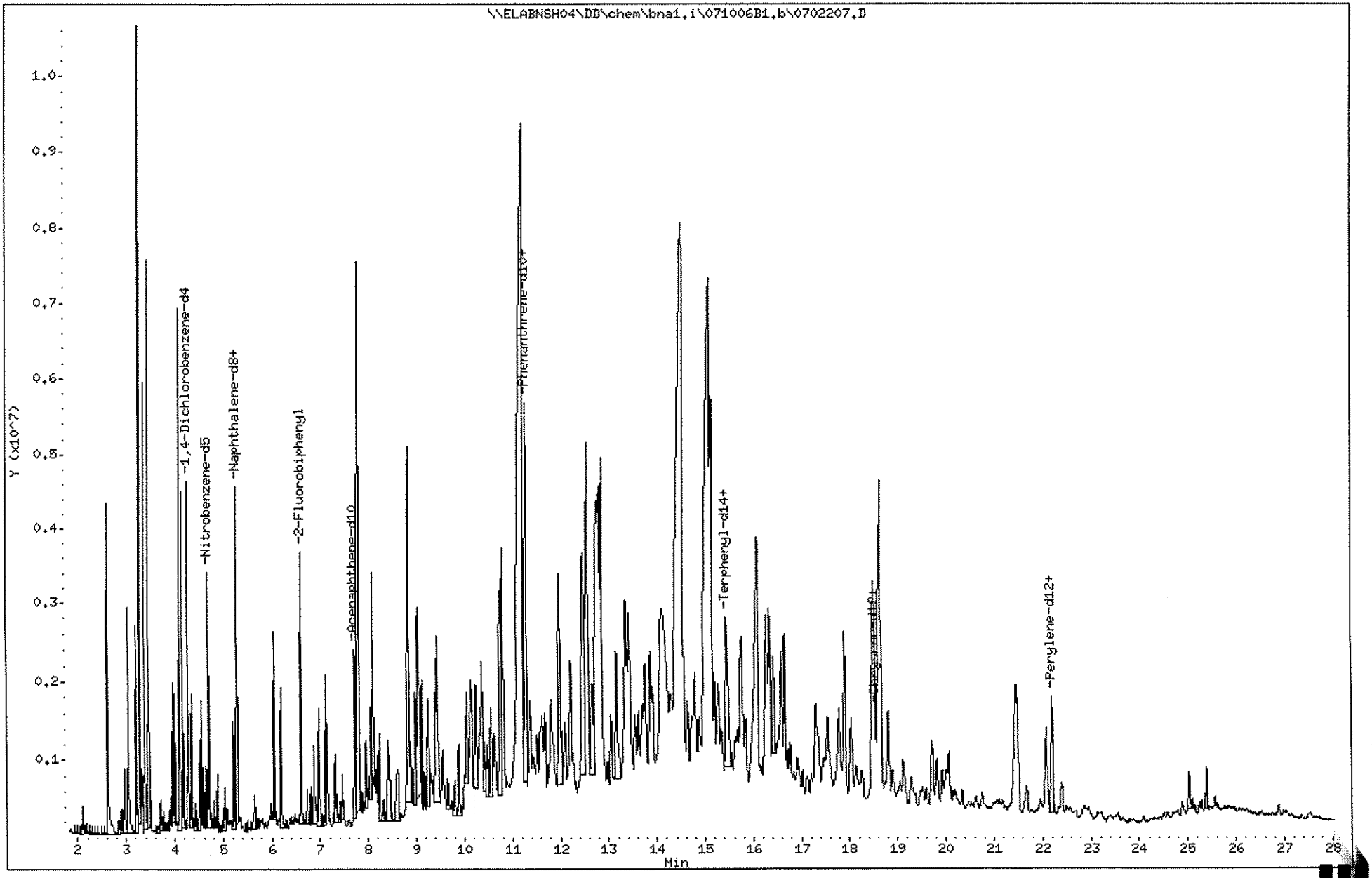
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.526	14.296	(1.310)	19082423	714.886	24250(A) DW
* 124 Chrysene-d12	240	18.551	18.441	(1.000)	215513	40.0000	
126 Pyrene	202	15.085	14.878	(0.813)	16025002	1861.89	63170(A) DW
$ 127 Terphenyl-d14	244	15.743	15.647	(0.849)	628220	115.439	3916(AR) DW
130 Benzo(a)anthracene	228	18.523	18.400	(0.998)	4491725	646.864	21950(A) DW
131 Chrysene	228	18.657	18.510	(1.006)	4763776	751.126	25480(AH) DW
* 145 Perylene-d12	264	22.341	22.273	(1.000)	92065	40.0000	
147 Benzo(b)fluoranthene	252	21.459	21.352	(0.961)	2620849	924.135	31350(AM) DW
148 Benzo(k)fluoranthene	252	21.501	21.421	(0.962)	969082	329.355	11170(AM) DW
149 Benzo(a)pyrene	252	22.213	22.121	(0.994)	1448790	592.432	20100(AH) DW
150 Indeno(1,2,3-cd)pyrene	276	25.036	24.990	(1.121)	438680	210.251	7133(A) DW
151 Dibenz(a,h)anthracene	278	25.100	25.065	(1.123)	154731	73.6646	2499
152 Benzo(g,h,i)perylene	276	25.398	25.361	(1.137)	393427	181.704	6165(A) DW

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D
Date : 10-JUL-2006 17:28
Client ID: 51CFM05S060706
Instrument: bna1.i
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000186



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Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

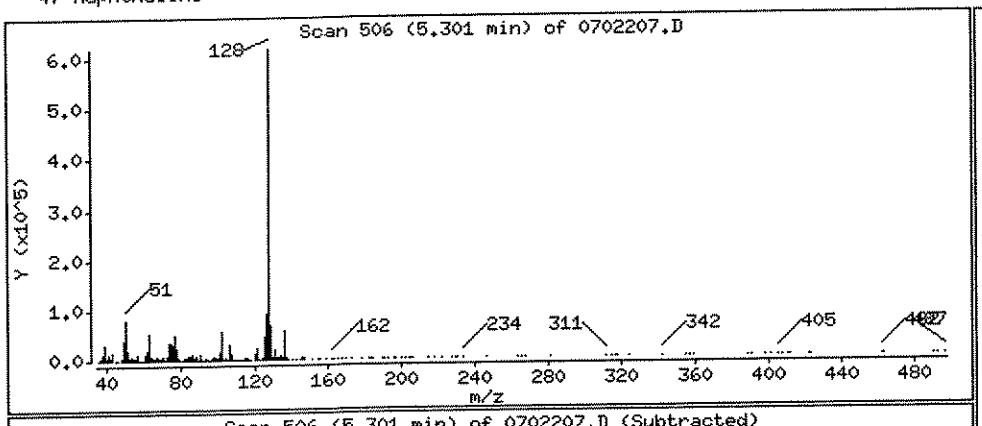
Operator: SDB

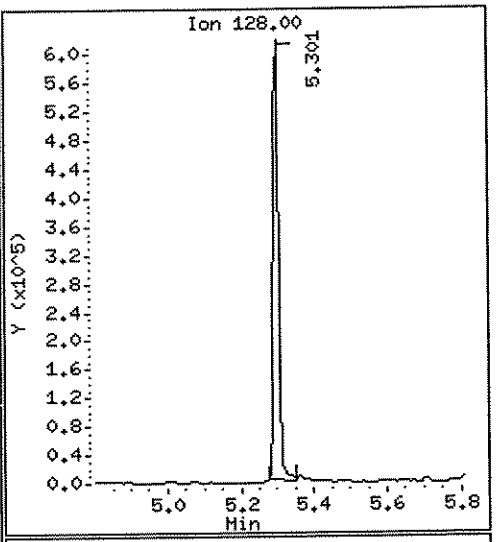
Column phase: fused silica

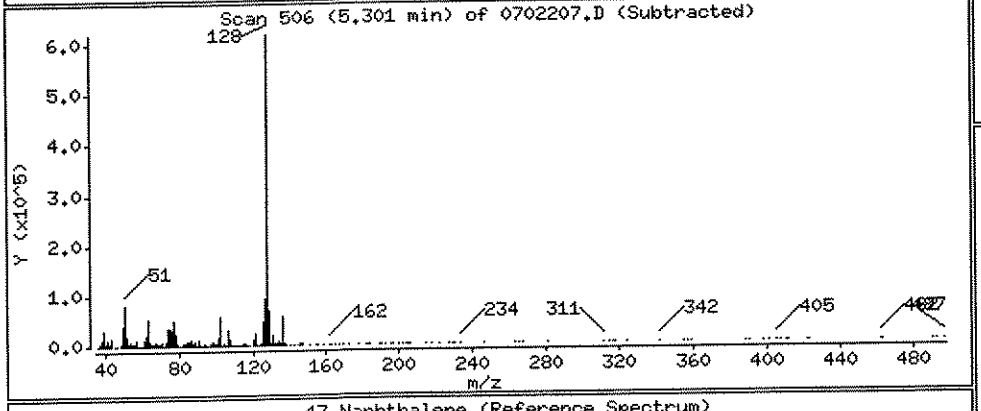
Column diameter: 0.25

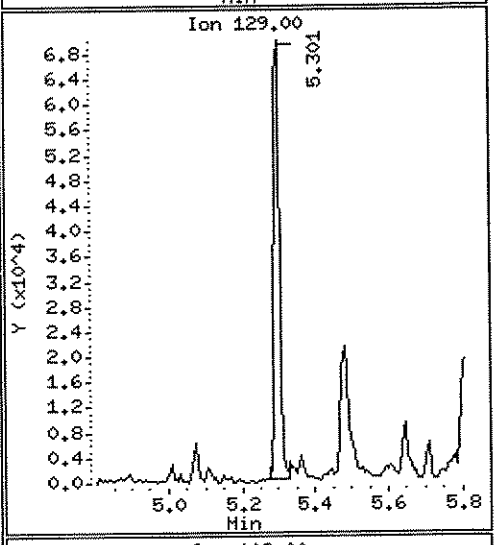
47 Naphthalene

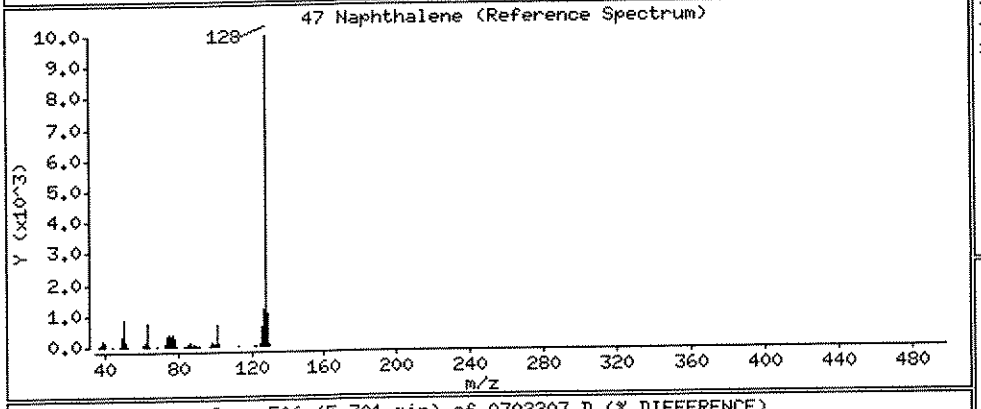
Concentration: 396.0 UG/KG

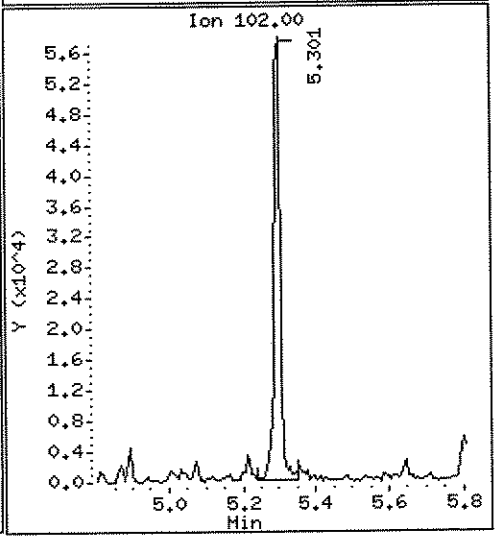


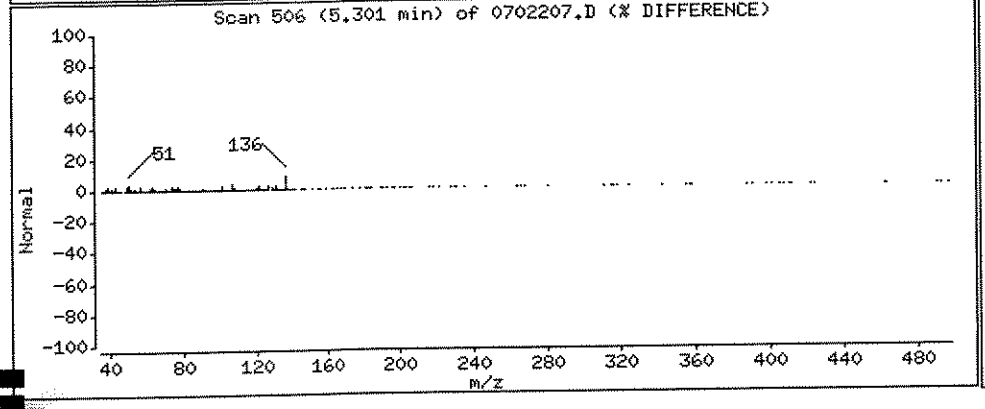












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000187

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

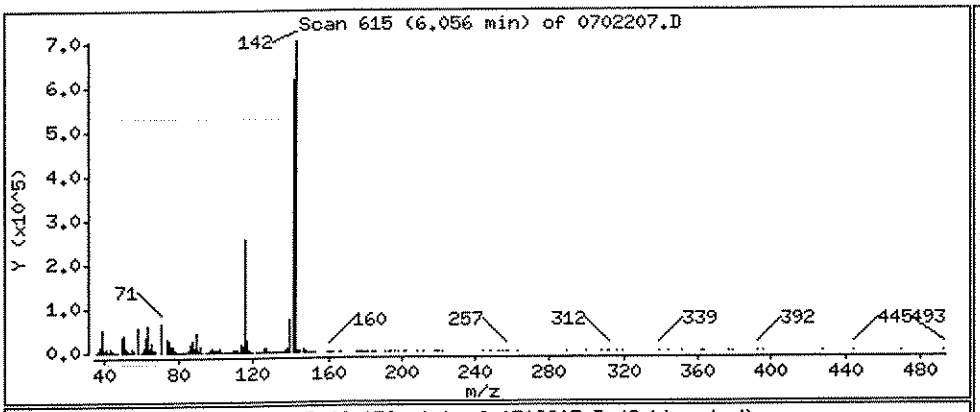
Client ID: 51CFM05S060706 Instrument: bna1.i

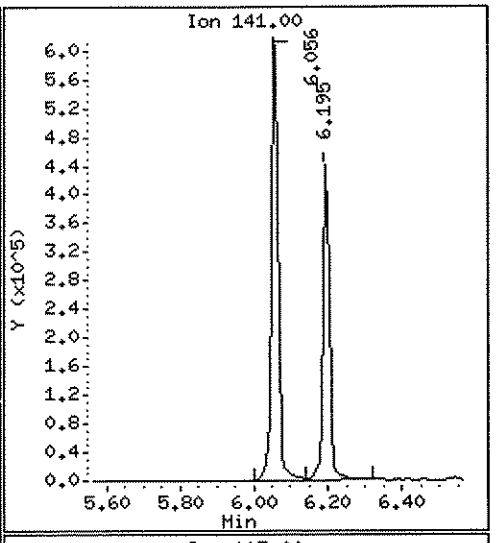
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

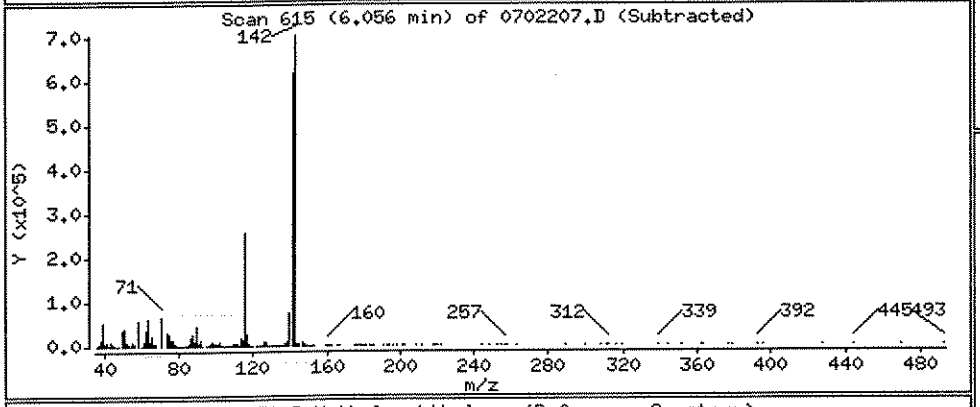
Volume Injected (uL): 0.5 Operator: SDB

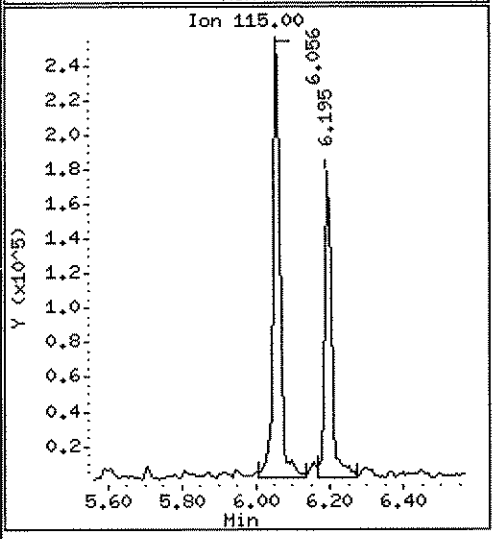
Column phase: fused silica Column diameter: 0.25

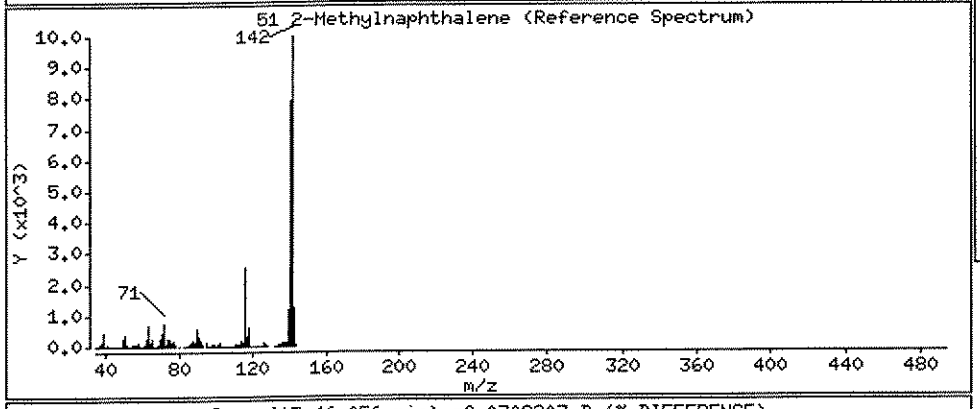
51 2-Methylnaphthalene Concentration: 956.0 UG/KG

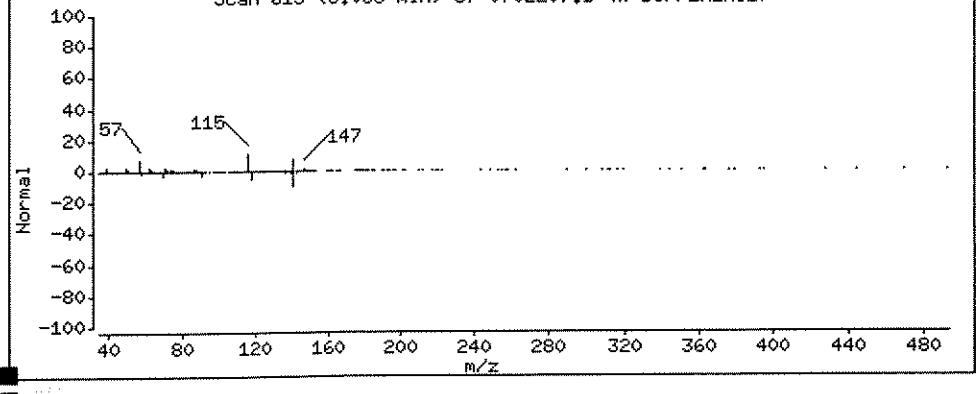












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

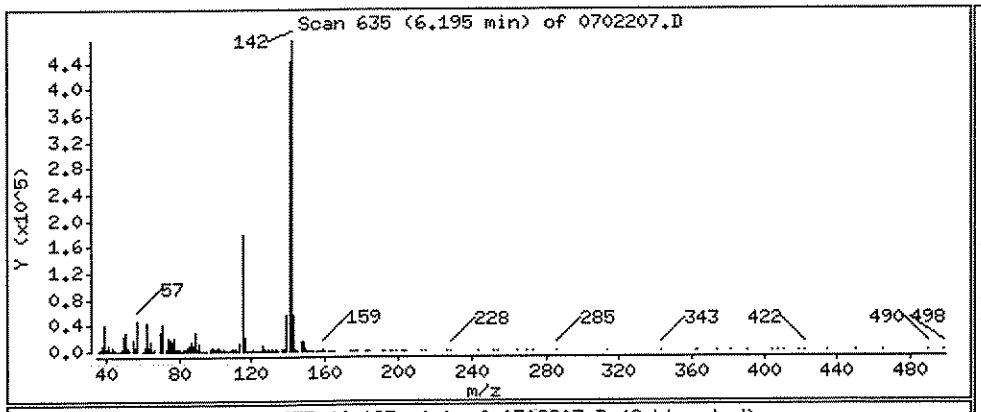
Client ID: 51CFM05S060706 Instrument: bna1.i

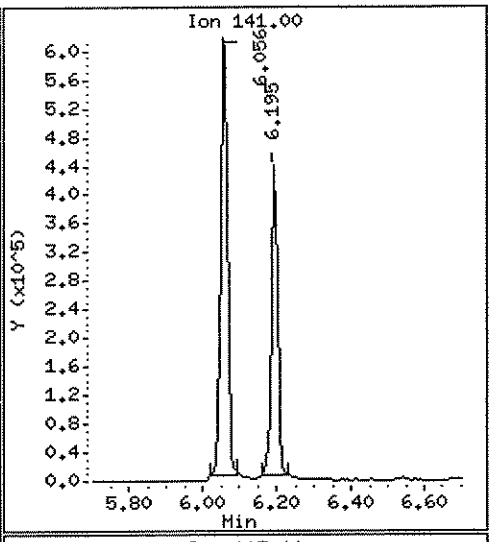
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

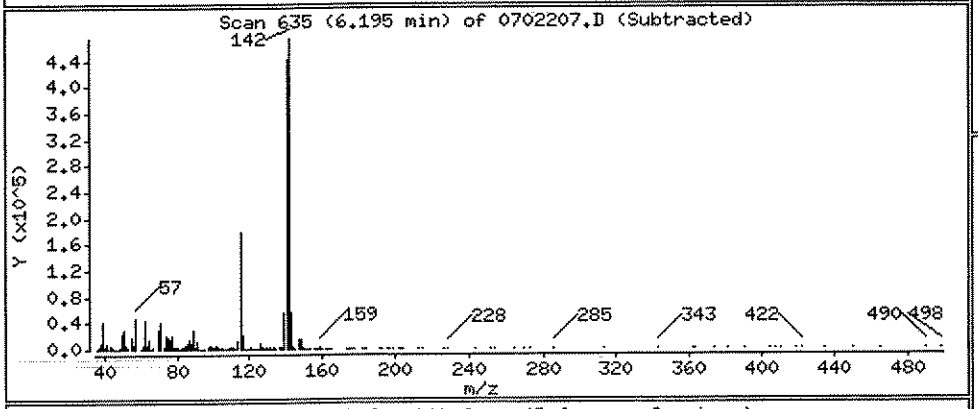
Volume Injected (uL): 0.5 Operator: SDB

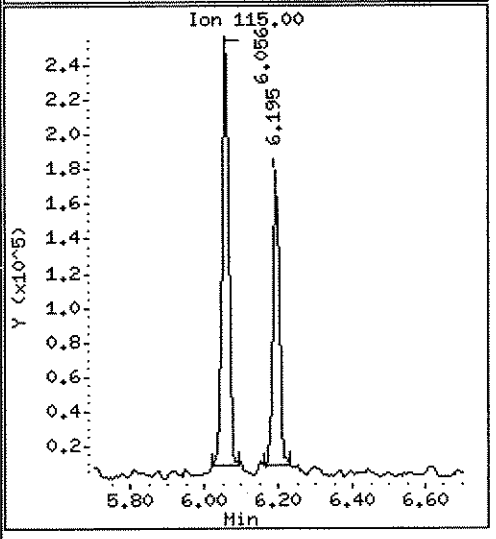
Column phase: fused silica Column diameter: 0.25

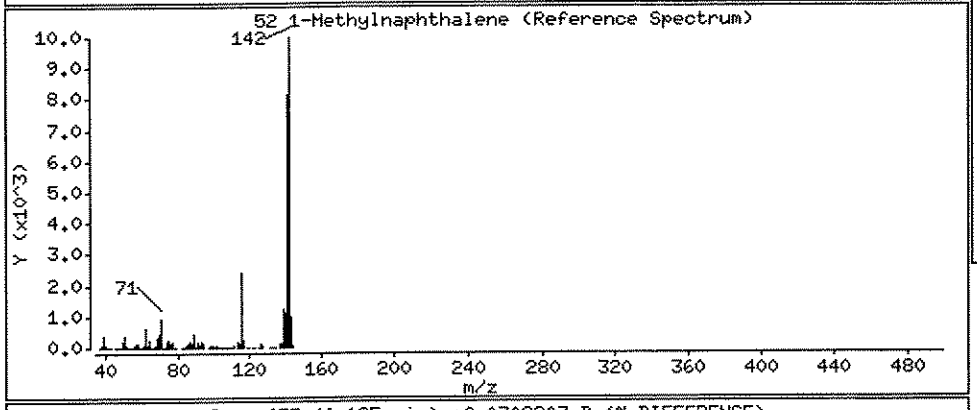
52 1-Methylnaphthalene Concentration: 593.4 UG/KG

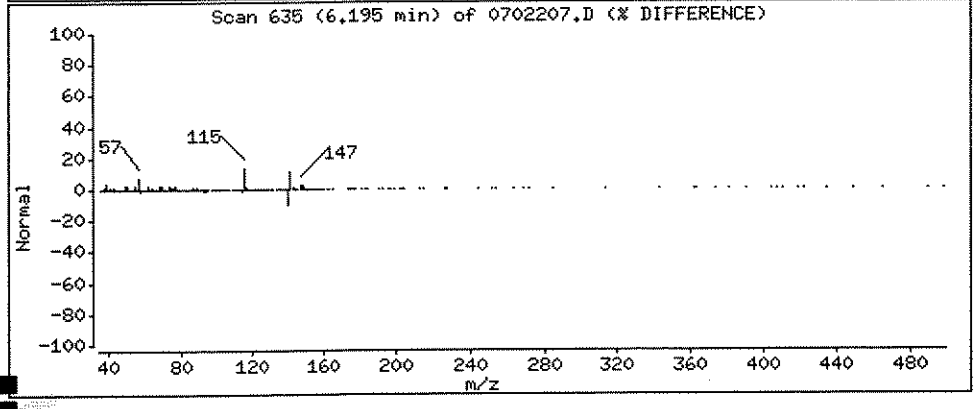












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

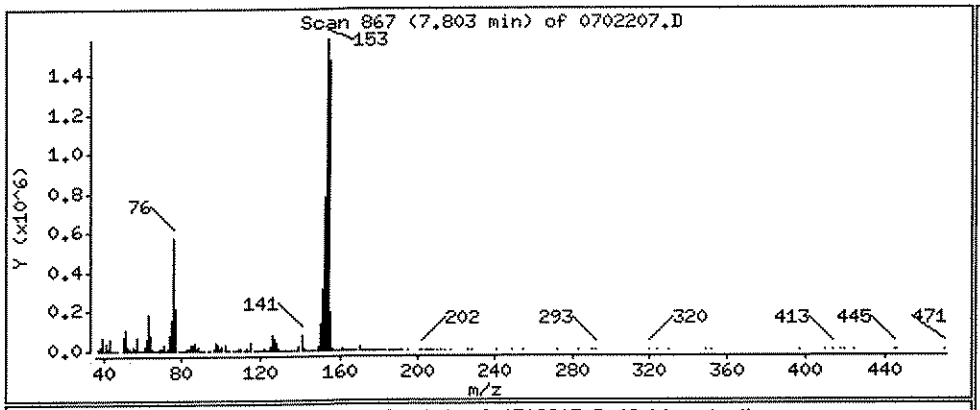
Client ID: 51CFM05S060706 Instrument: bna1.i

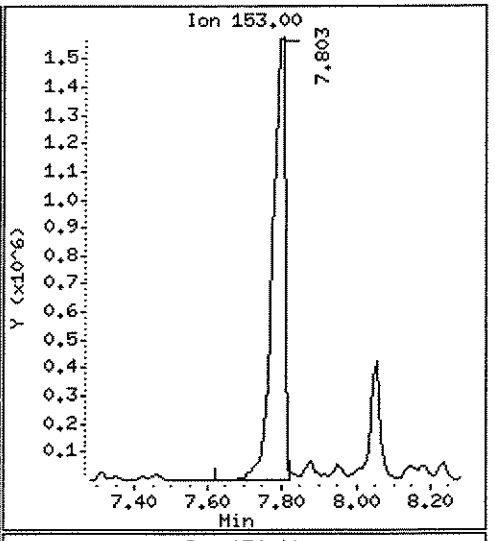
Sample Info: 0607022-07;15,1;500;1;UG/KG;10-JUL-2006

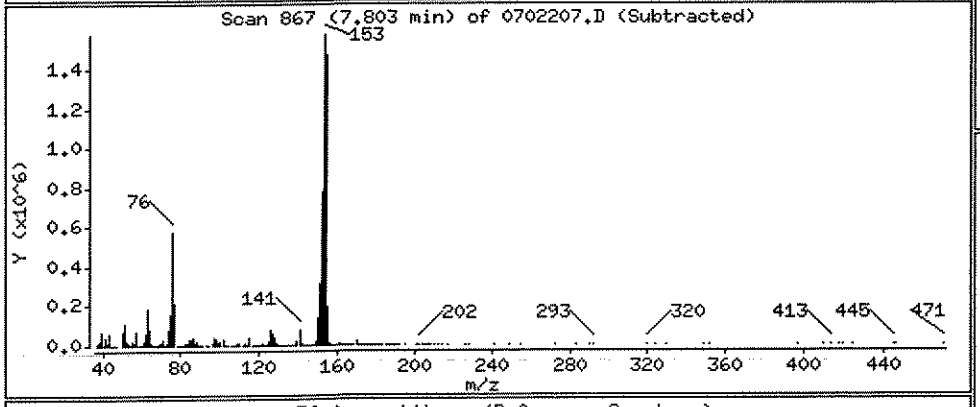
Volume Injected (uL): 0.5 Operator: SDB

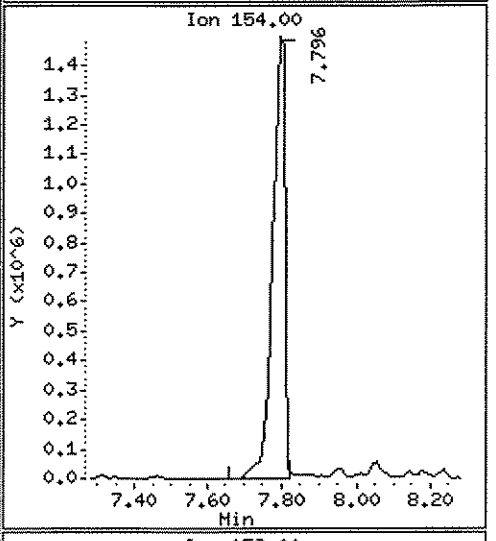
Column phase: fused silica Column diameter: 0.25

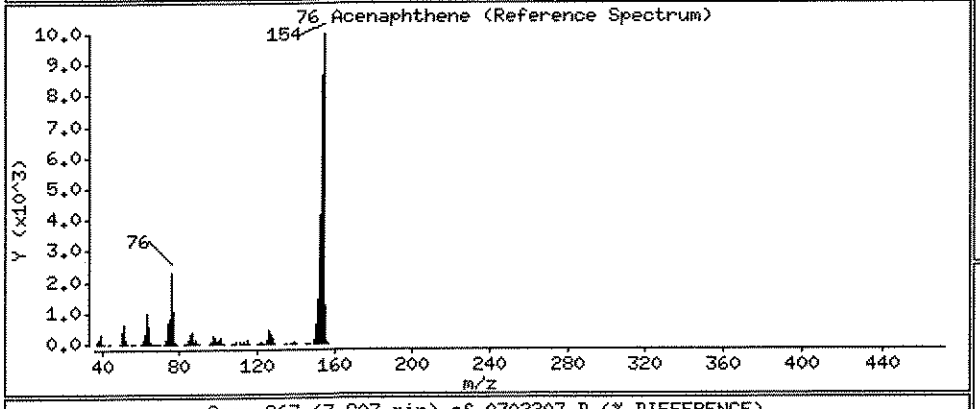
76 Acenaphthene Concentration: 4723 UG/KG

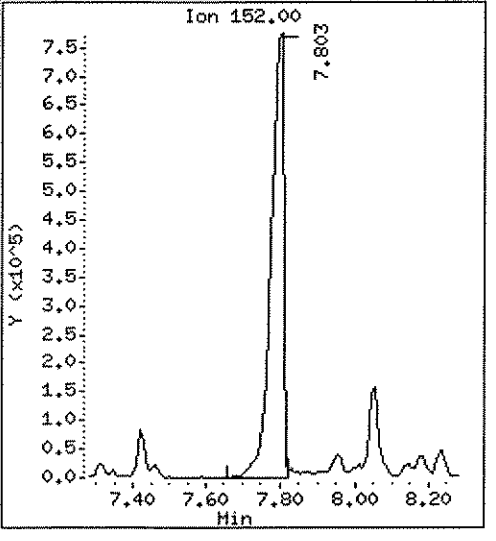


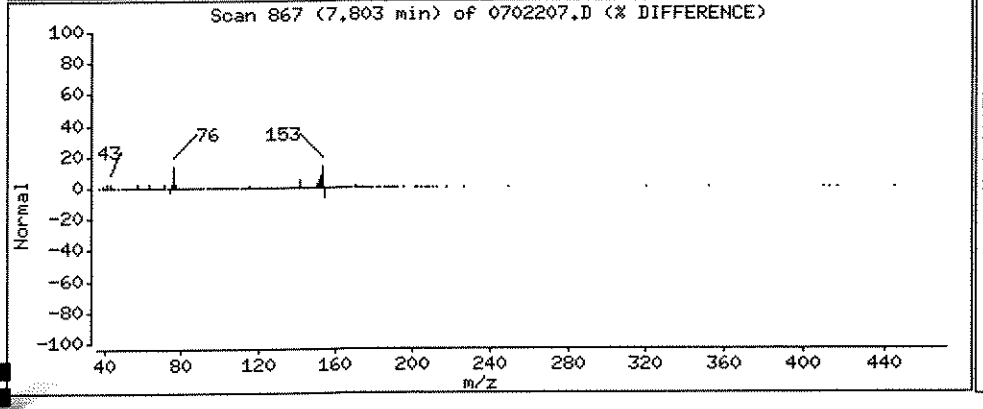












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

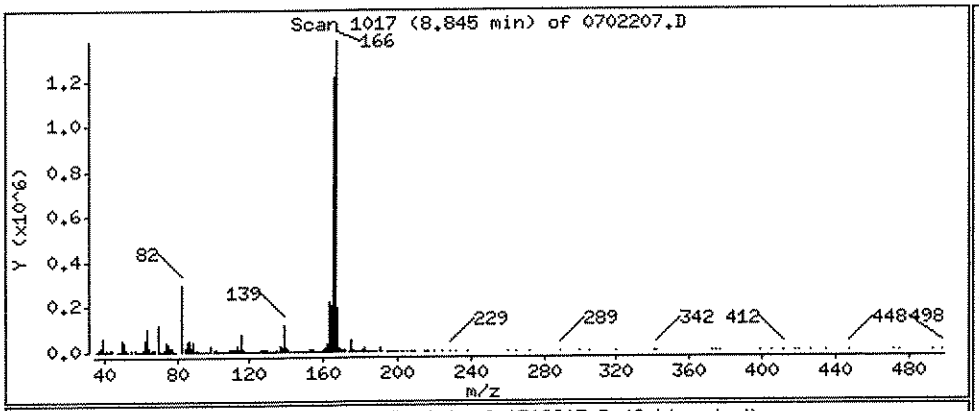
Operator: SDB

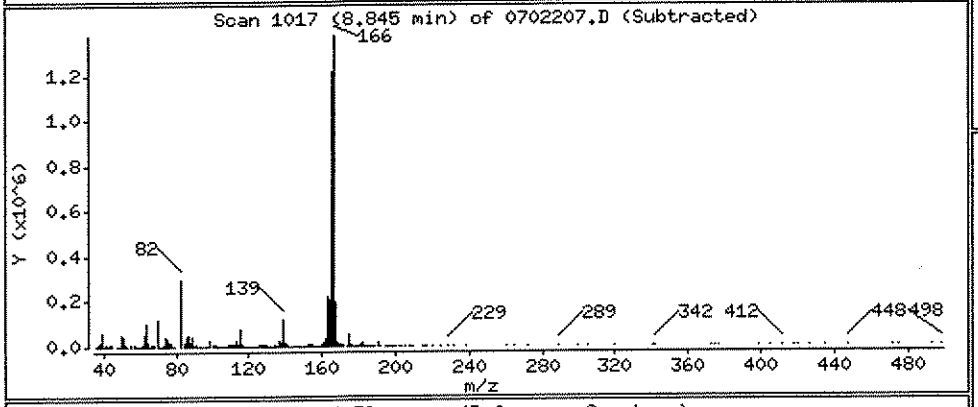
Column phase: fused silica

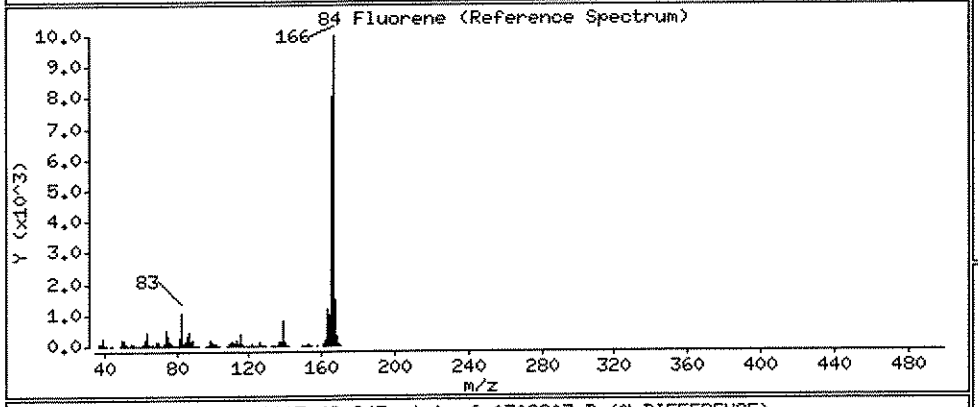
Column diameter: 0.25

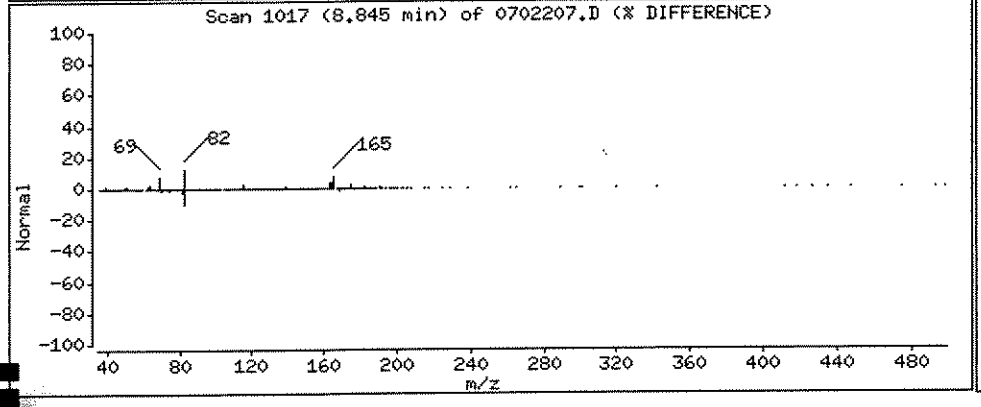
84 Fluorene

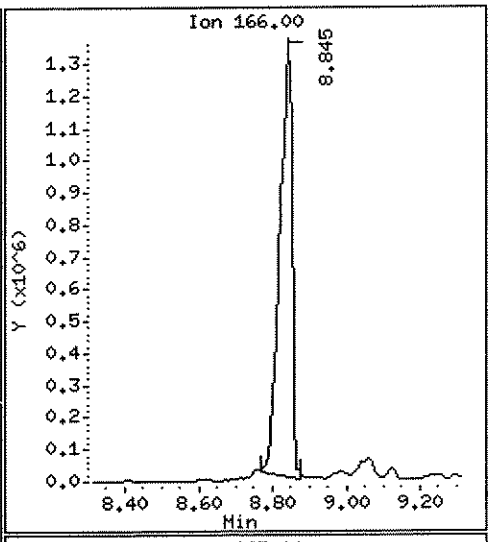
Concentration: 3774 UG/KG

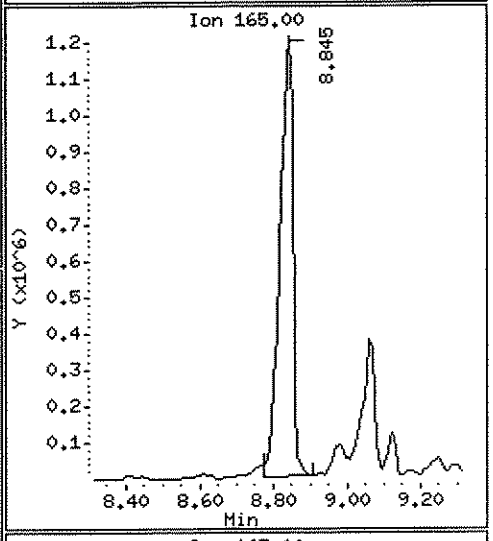


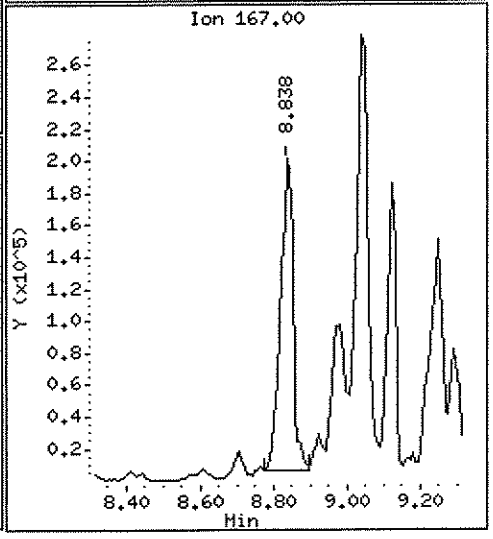












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

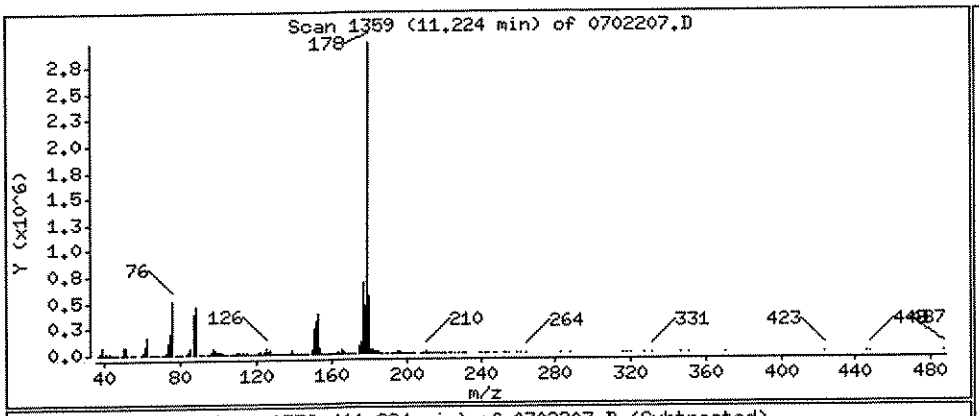
Operator: SDB

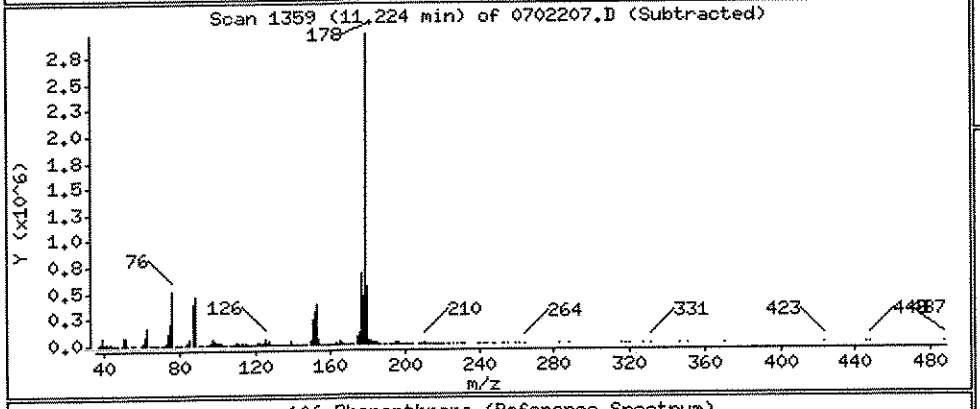
Column phase: fused silica

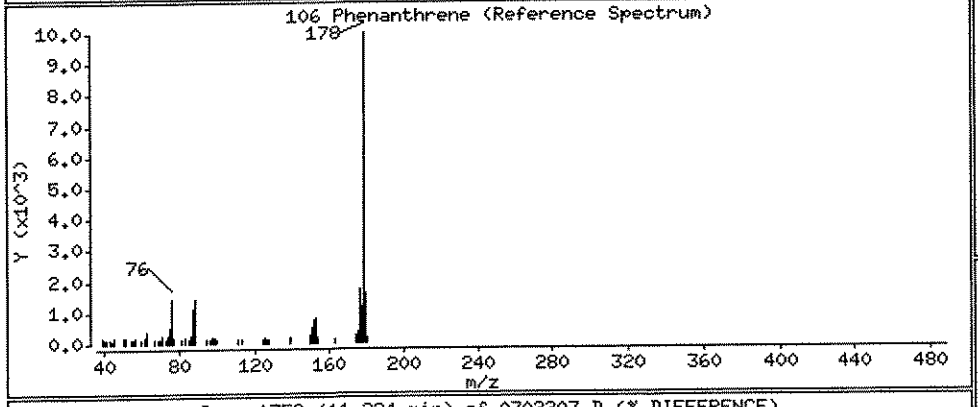
Column diameter: 0.25

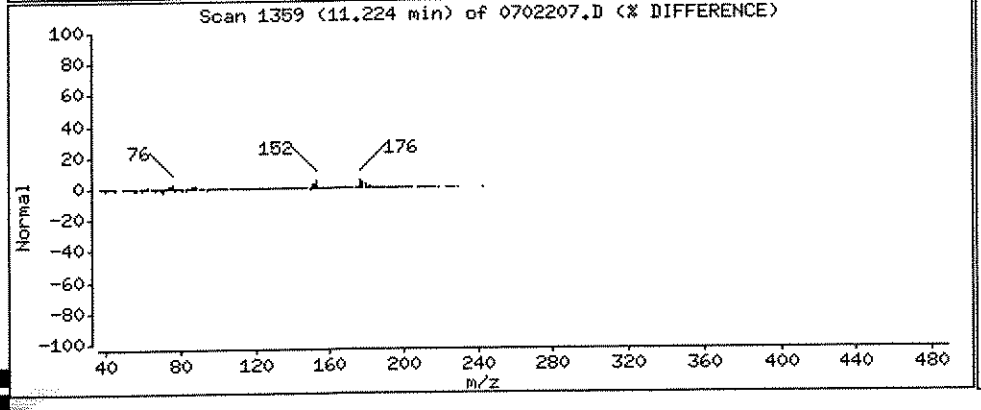
106 Phenanthrene

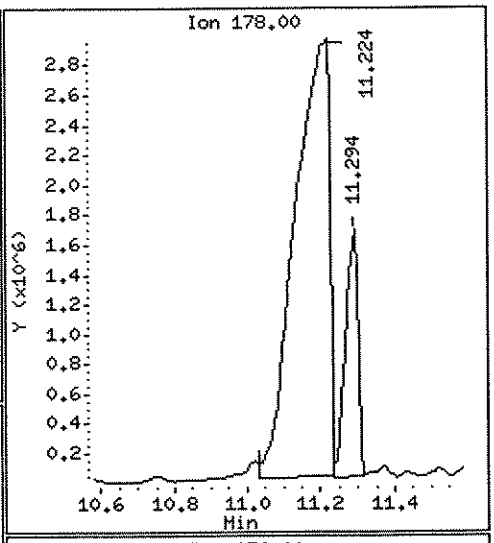
Concentration: 24080 UG/KG

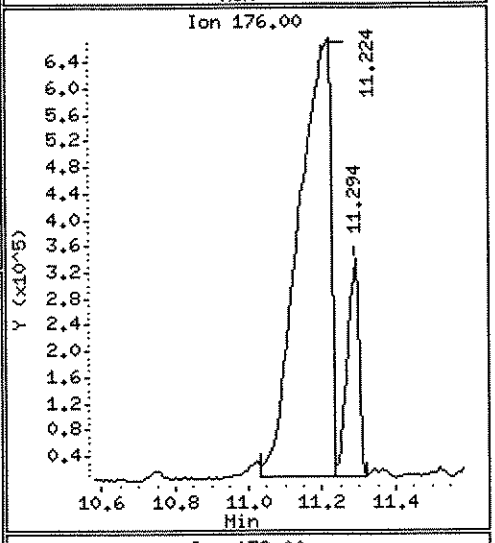


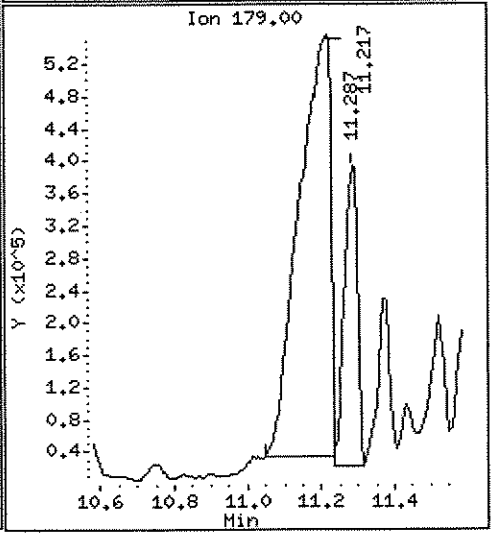












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000192

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

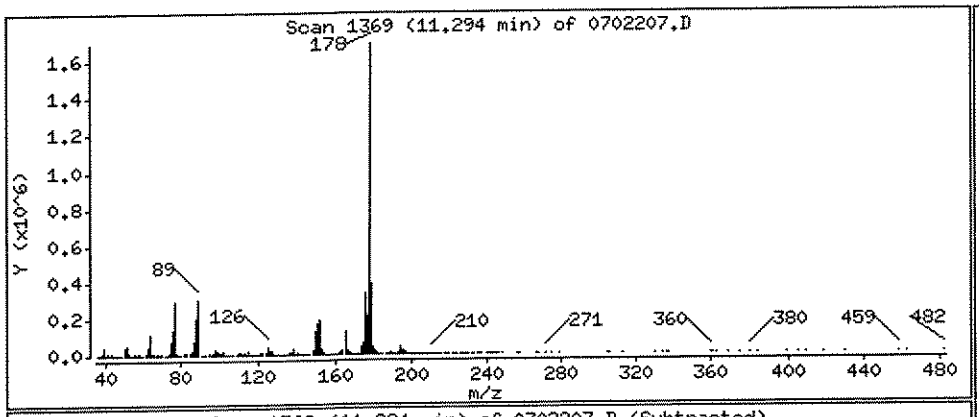
Operator: SDB

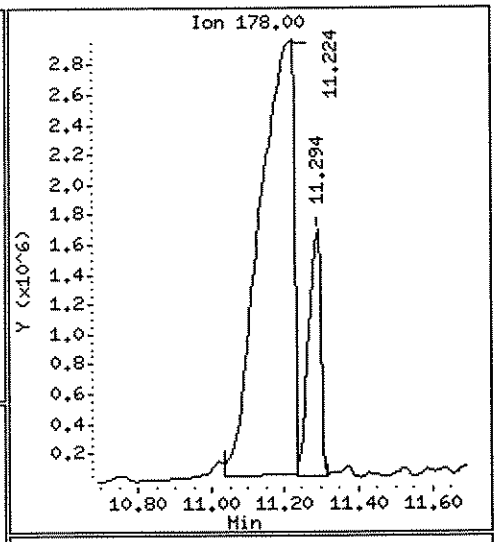
Column phase: fused silica

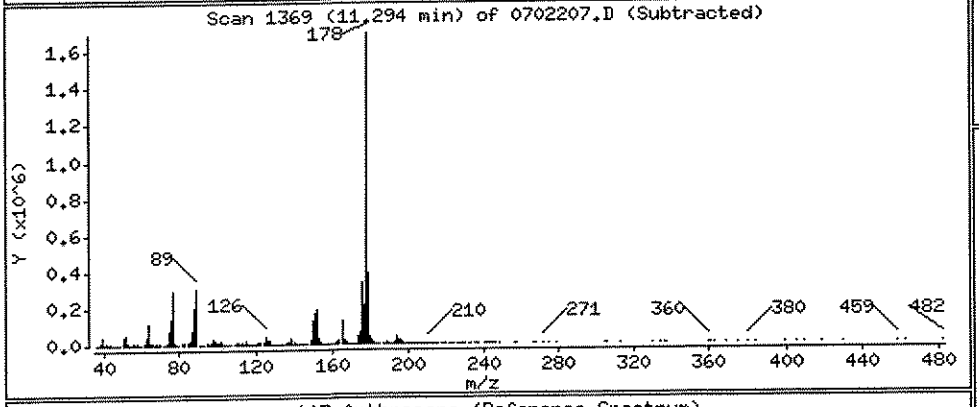
Column diameter: 0.25

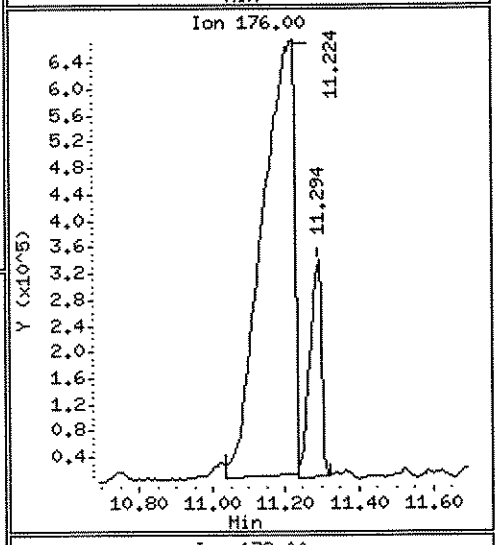
107 Anthracene

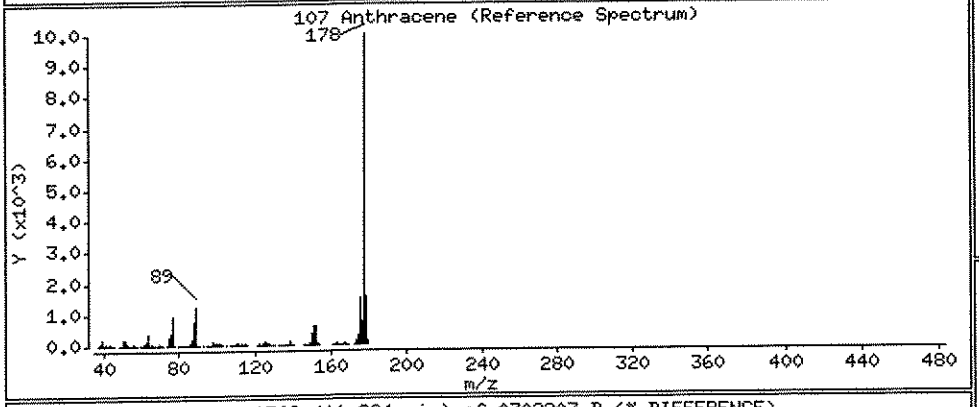
Concentration: 4781 UG/KG

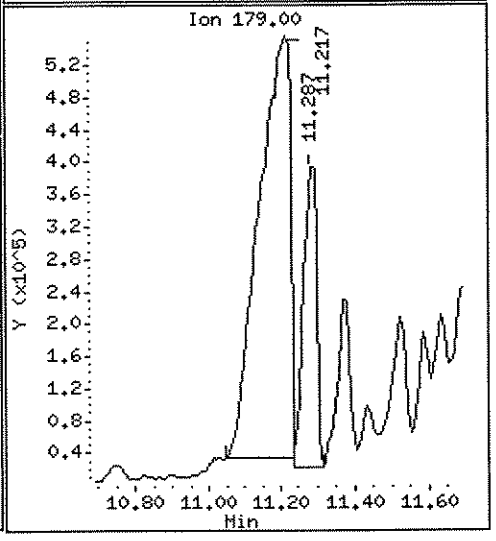


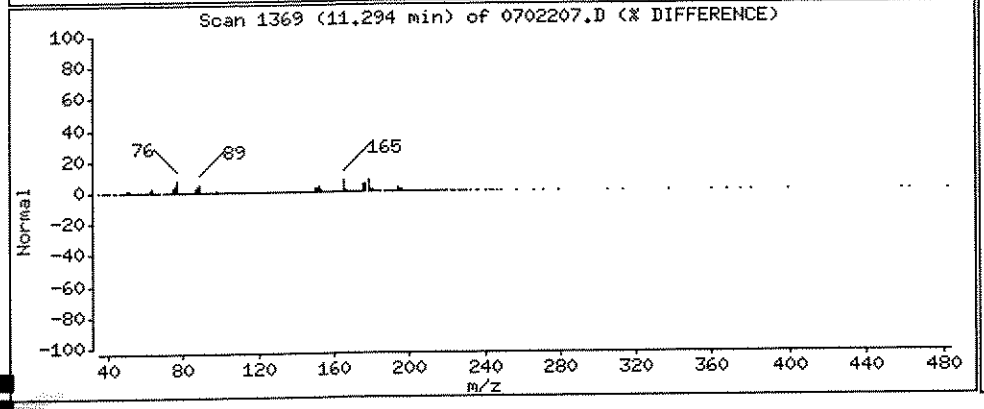












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Data File: \\ELABNSH04\DB\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

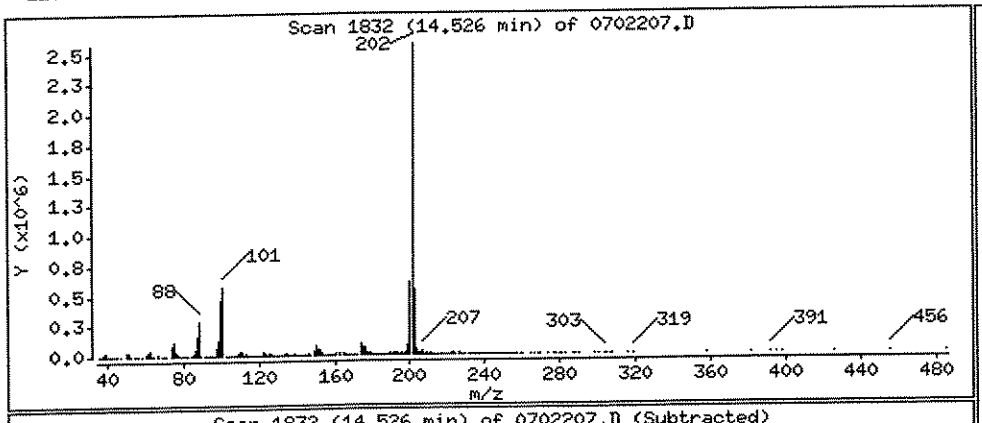
Operator: SDB

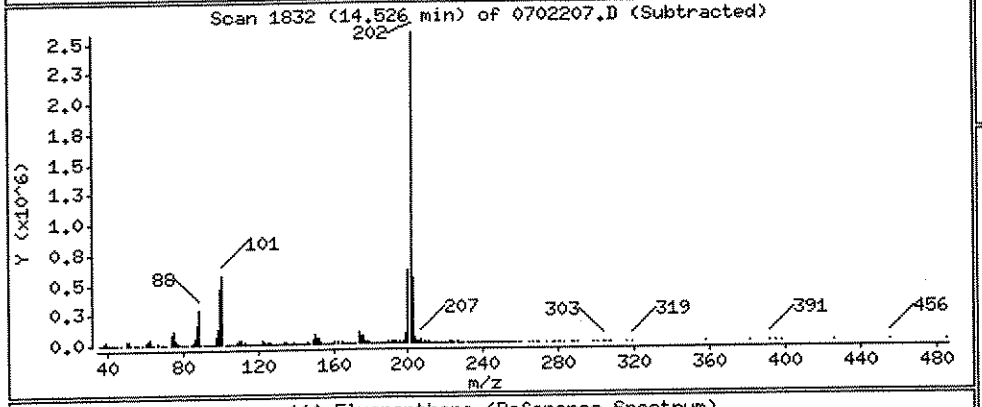
Column phase: fused silica

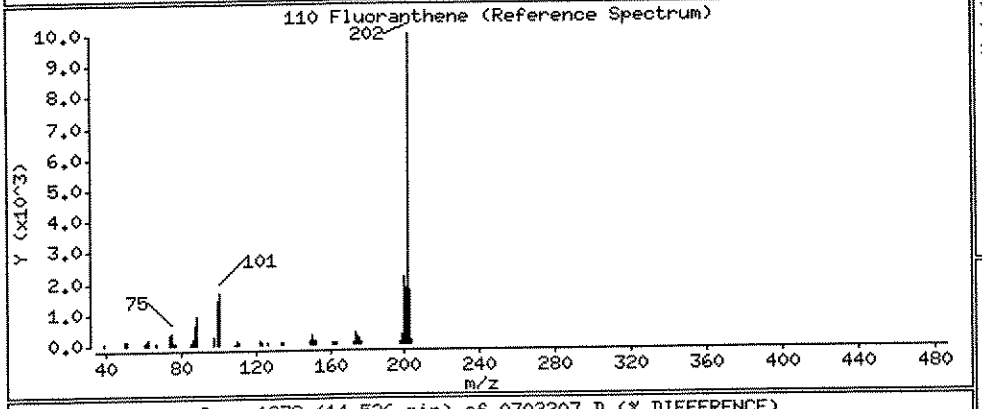
Column diameter: 0.25

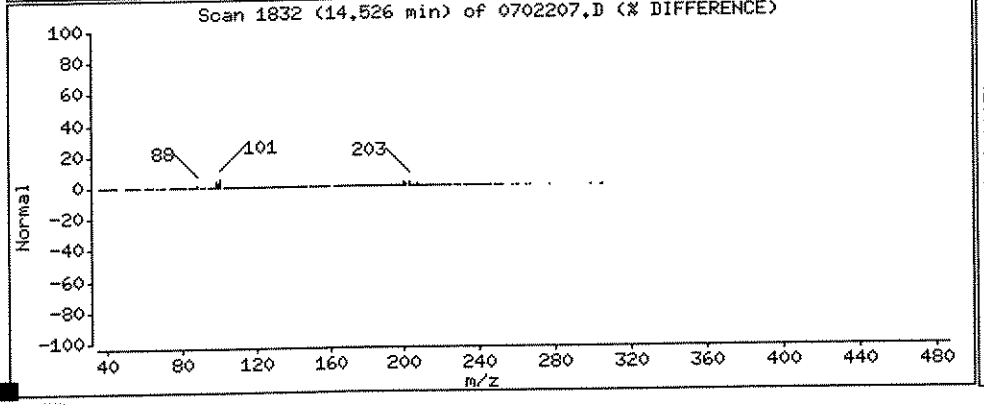
110 Fluoranthene

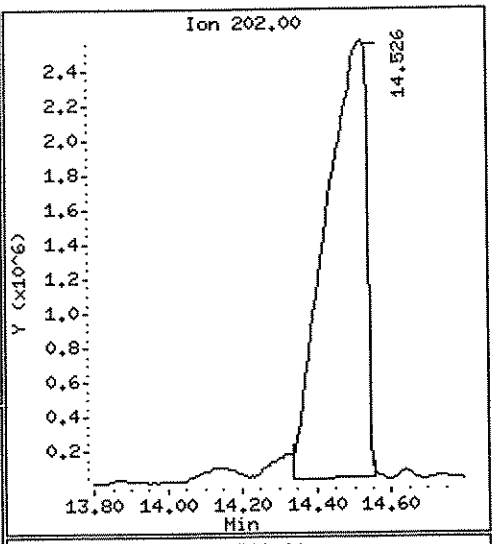
Concentration: 24250 UG/KG

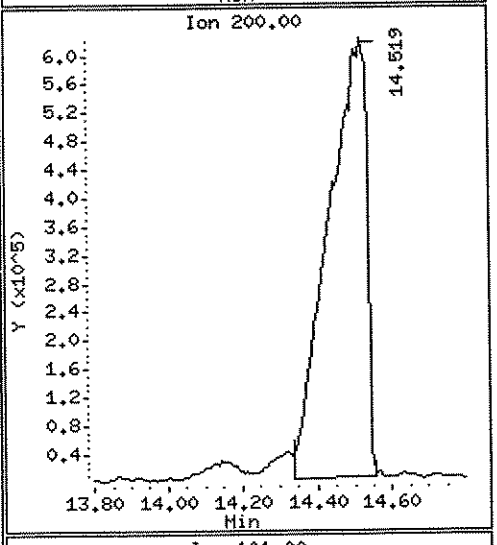


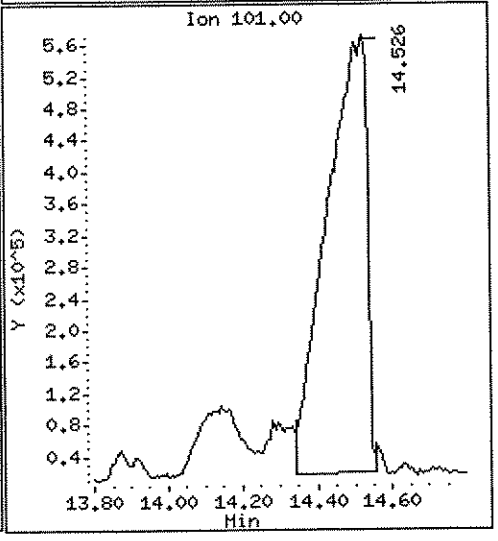












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

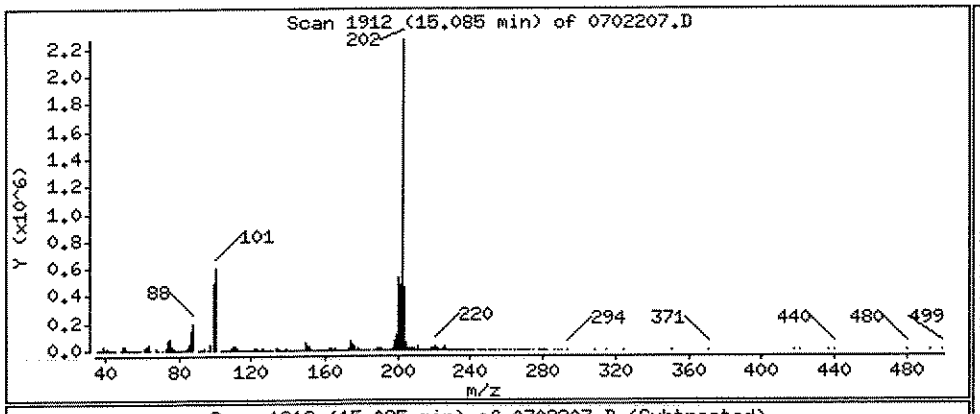
Client ID: 51CFM05S060706 Instrument: bna1.i

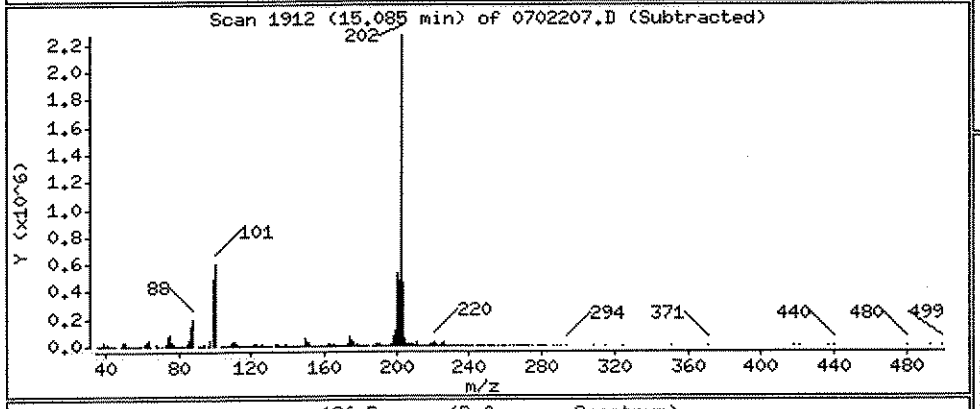
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

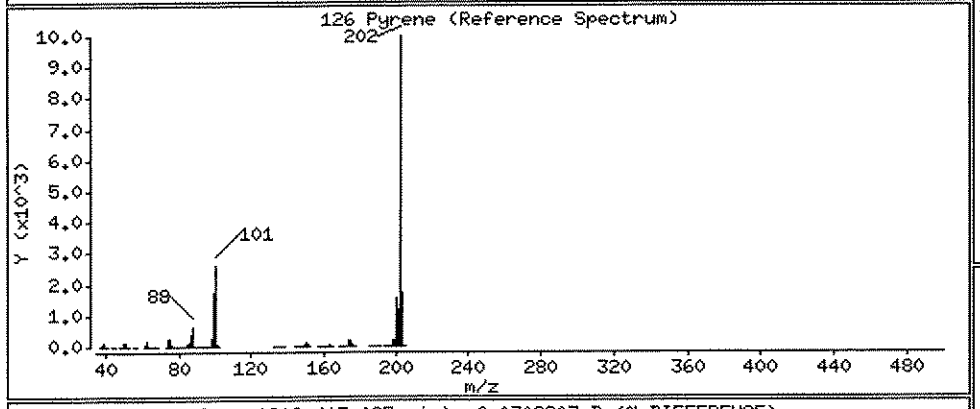
Volume Injected (uL): 0.5 Operator: SDB

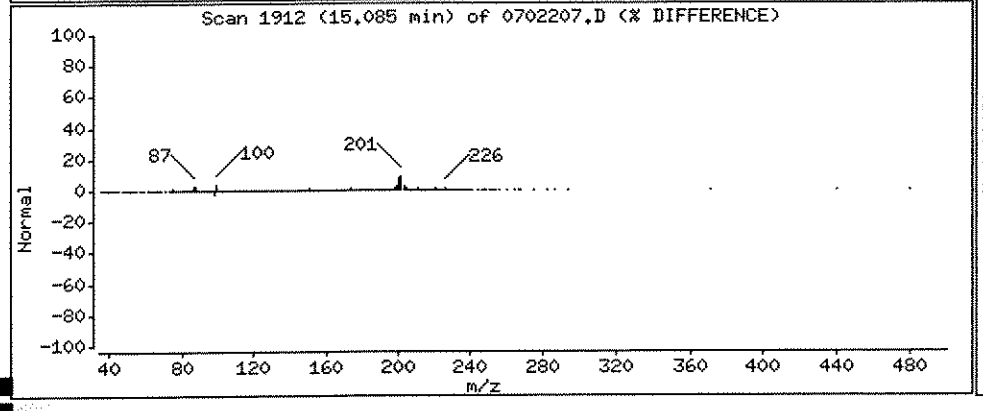
Column phase: fused silica Column diameter: 0.25

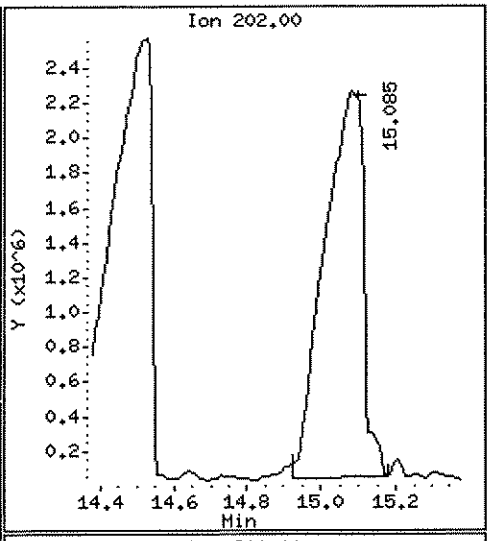
126 Pyrene Concentration: 63170 UG/KG

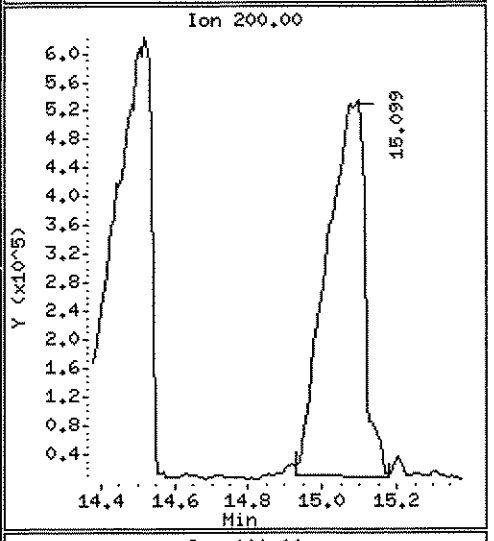


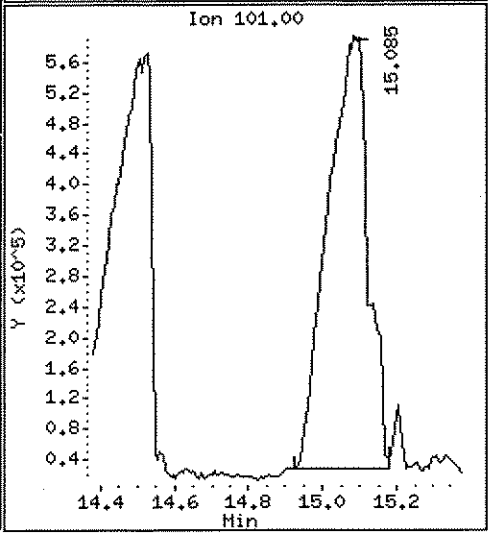












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

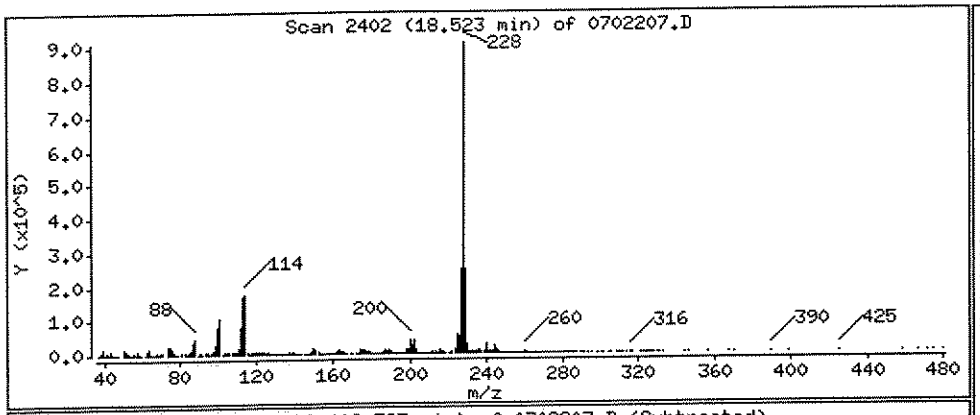
Operator: SDB

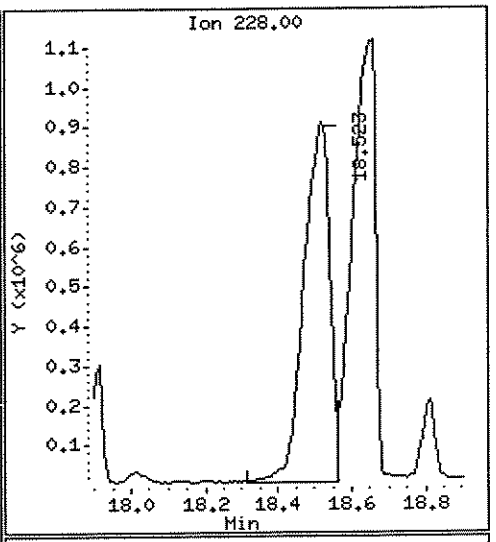
Column phase: fused silica

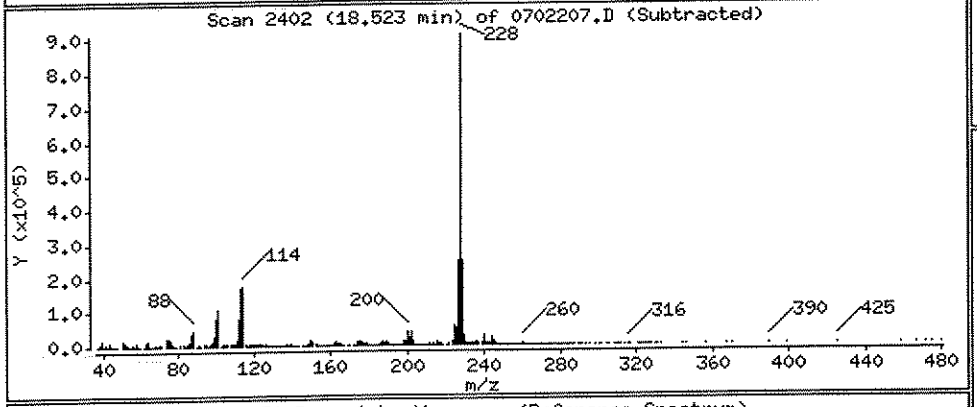
Column diameter: 0.25

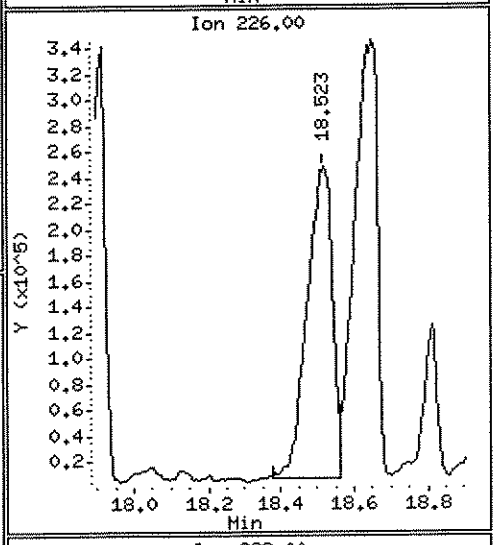
130 Benzo(a)anthracene

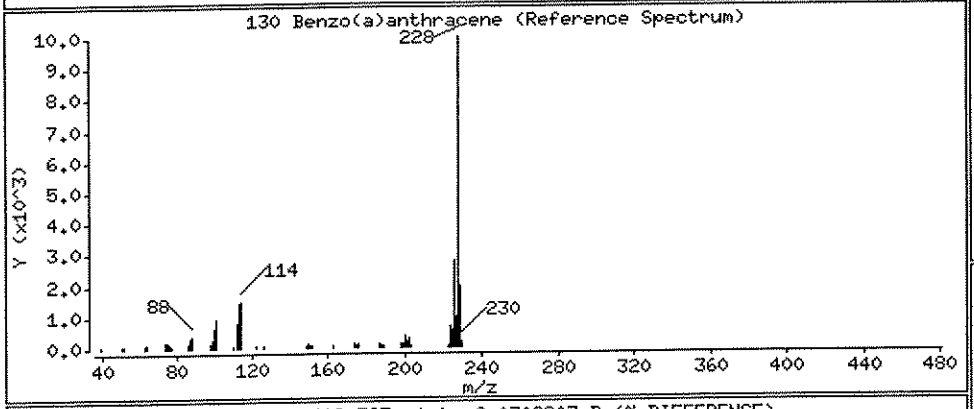
Concentration: 21950 UG/KG

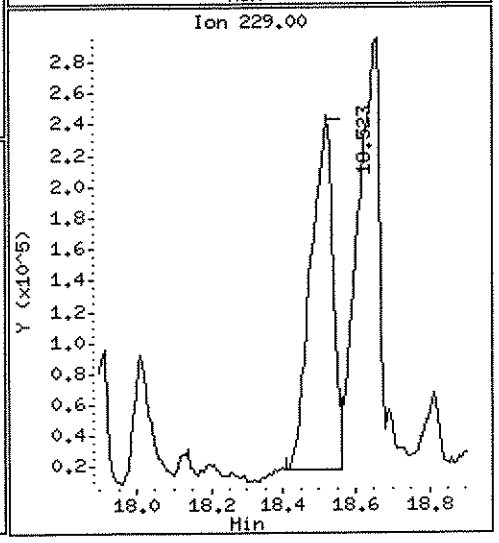


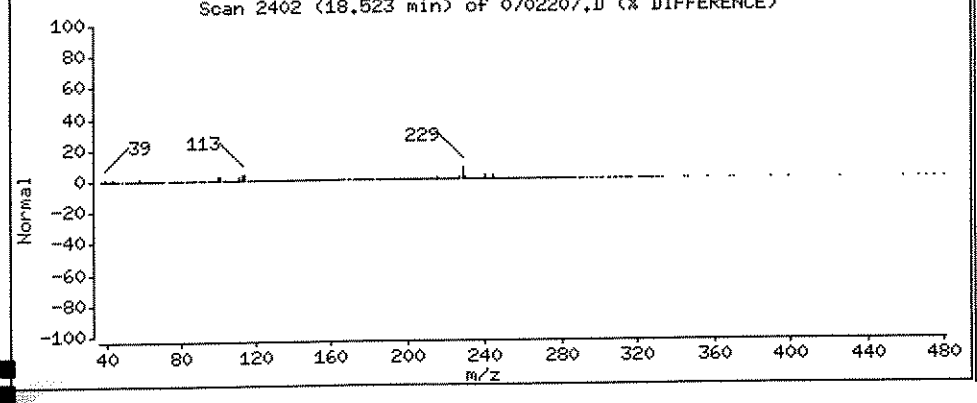












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

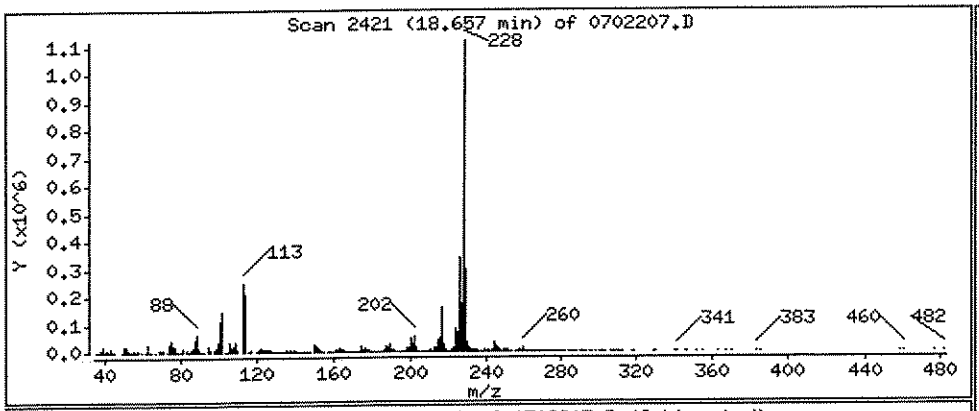
Client ID: 51CFH05S060706 Instrument: bna1.i

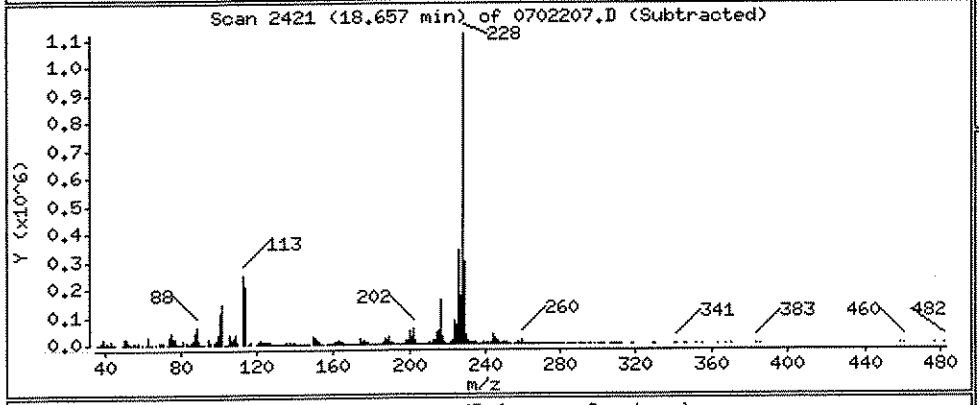
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

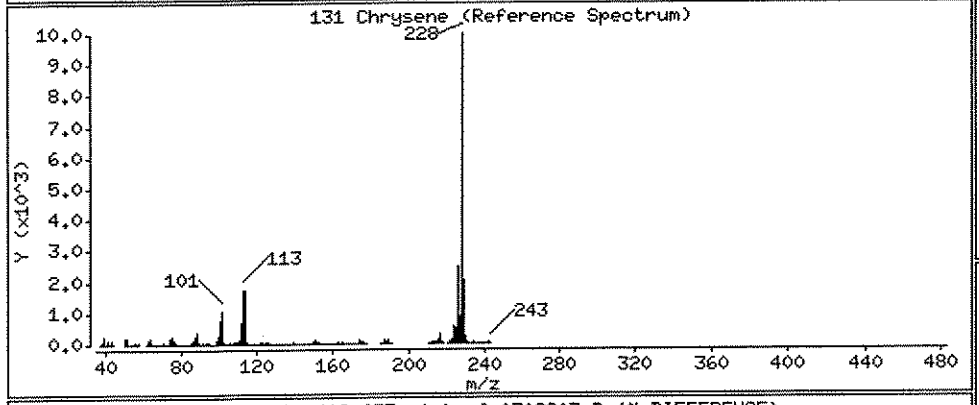
Volume Injected (uL): 0.5 Operator: SDB

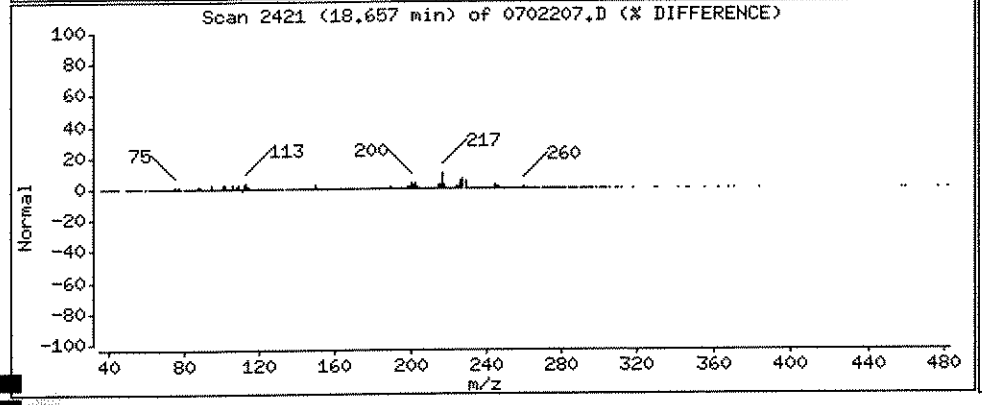
Column phase: fused silica Column diameter: 0.25

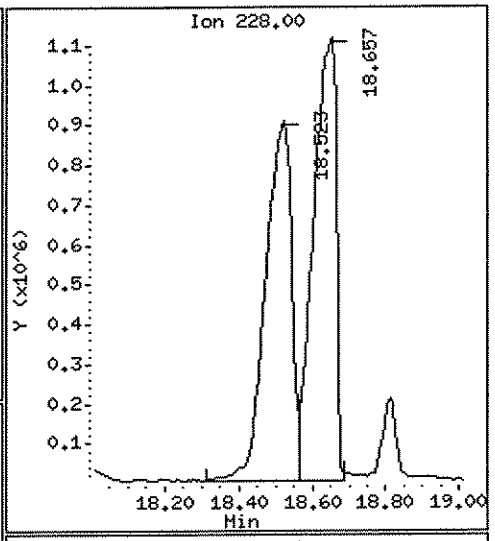
131 Chrysene Concentration: 25480 UG/KG

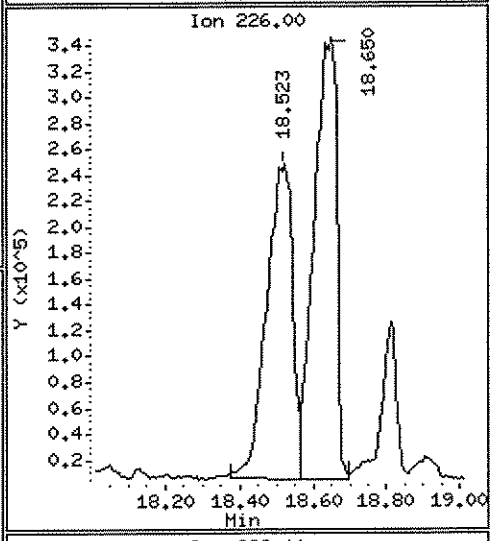


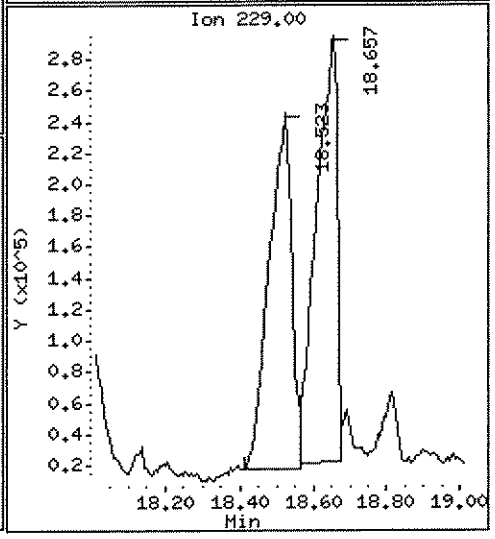












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

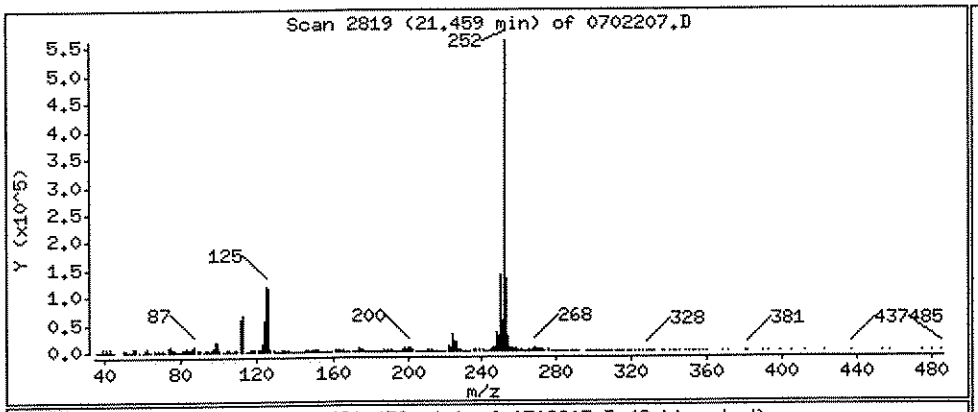
Operator: SDB

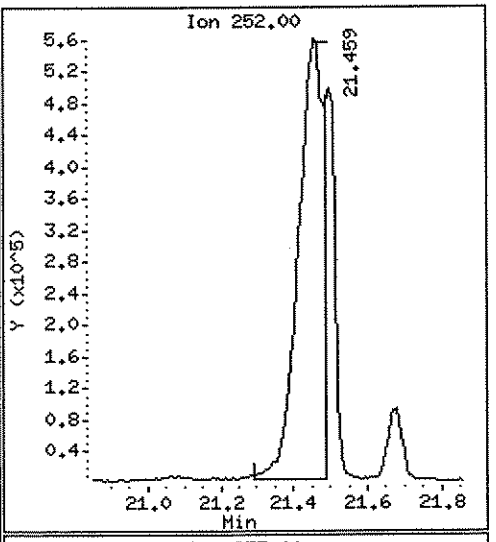
Column phase: fused silica

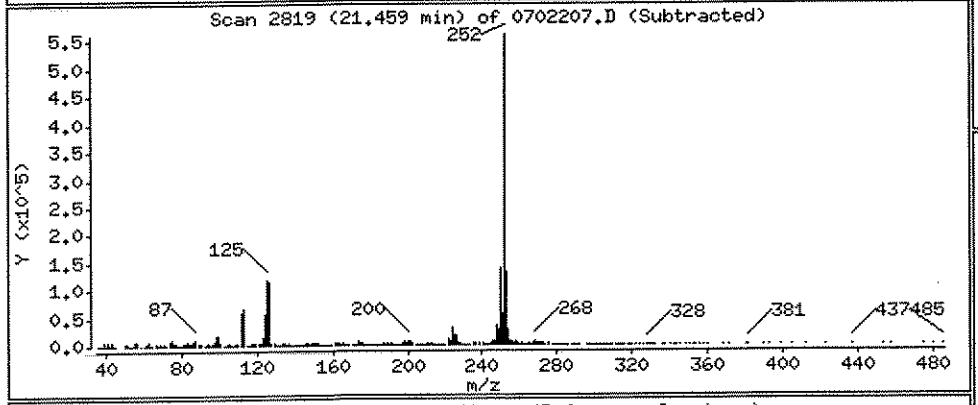
Column diameter: 0.25

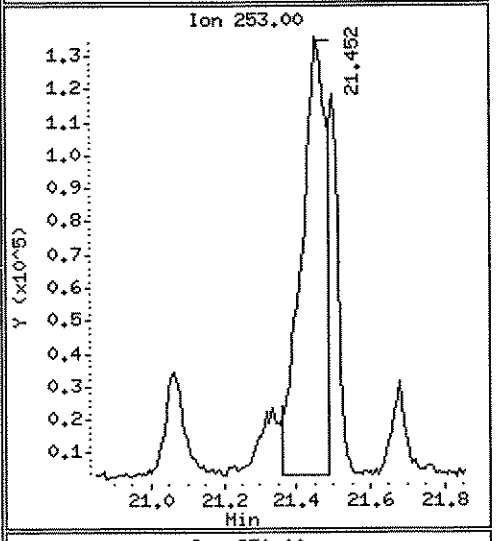
147 Benzo(b)fluoranthene

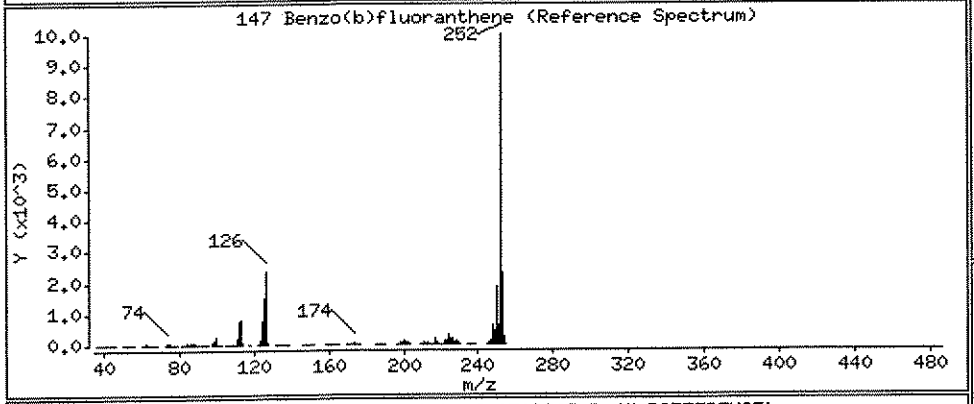
Concentration: 31350 UG/KG

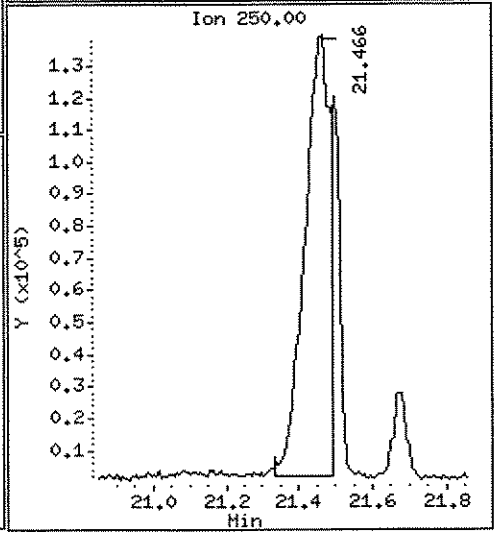


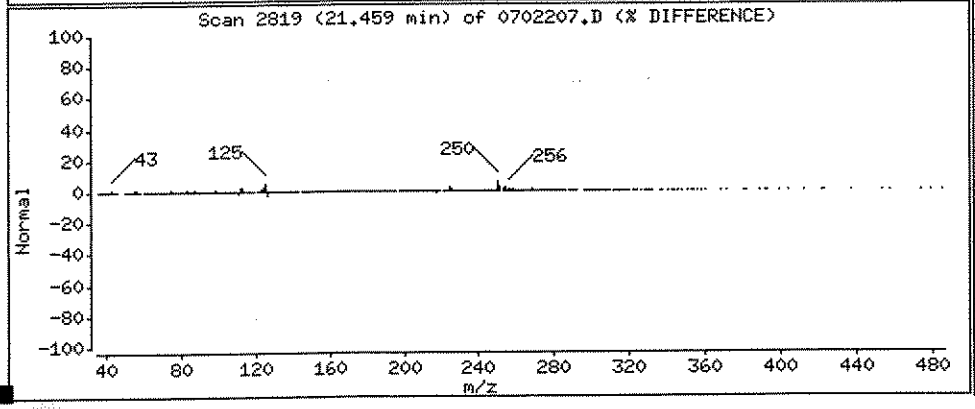












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

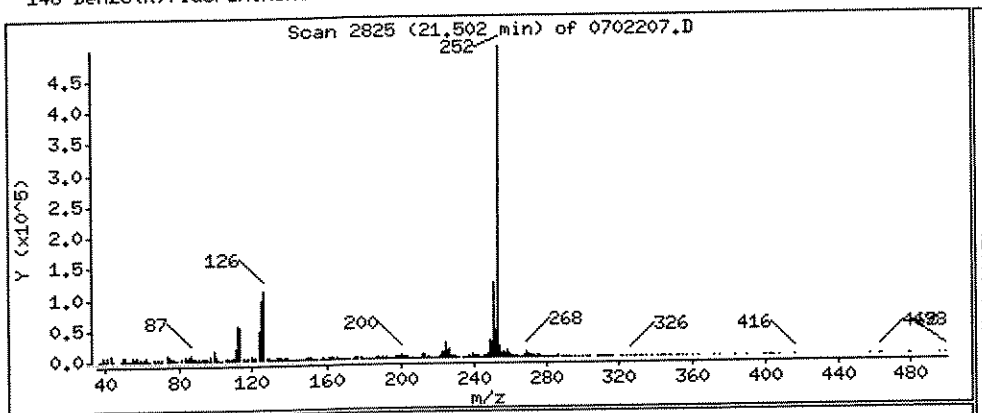
Operator: SDB

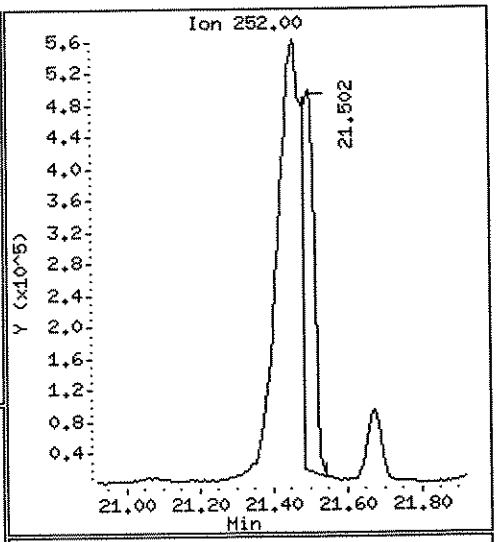
Column phase: fused silica

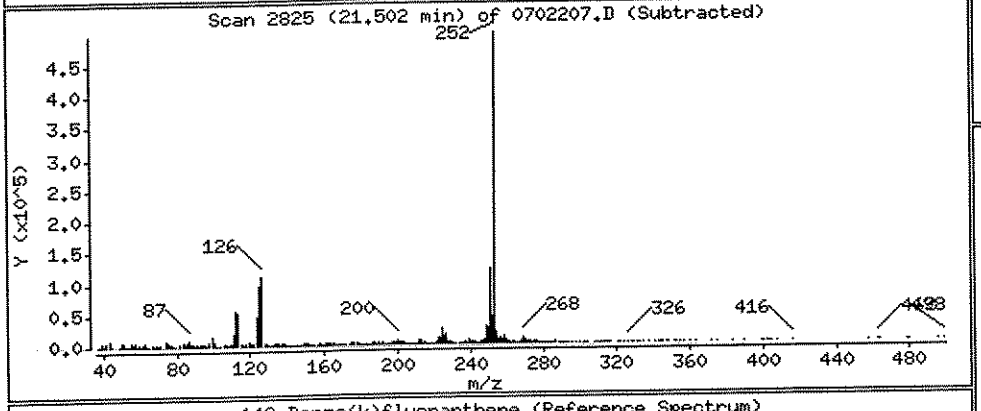
Column diameter: 0.25

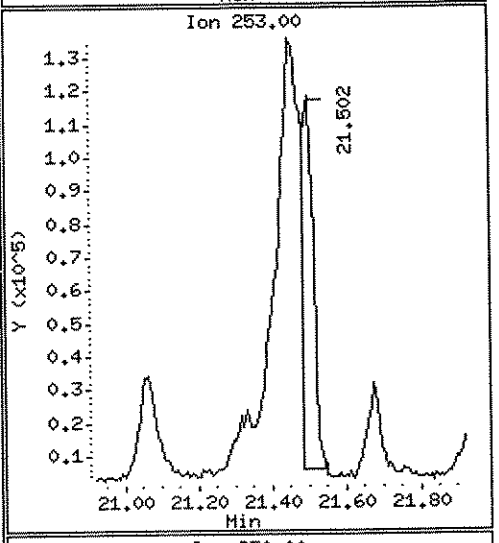
148 Benzo(k)fluoranthene

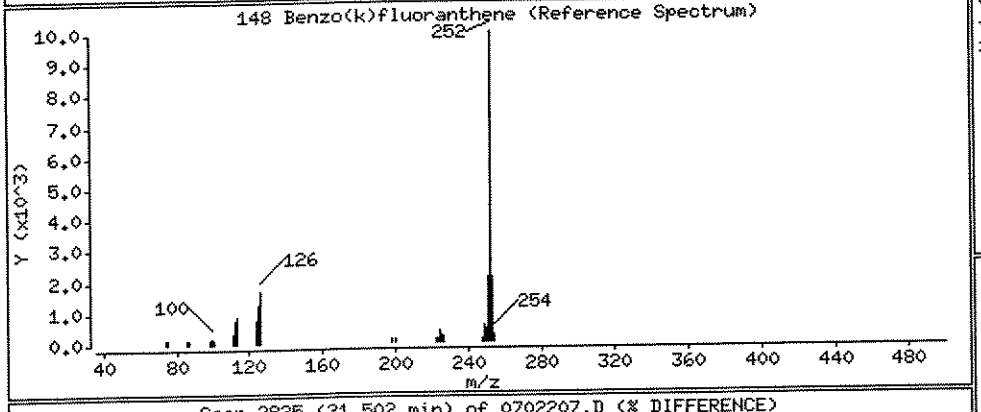
Concentration: 11170 UG/KG

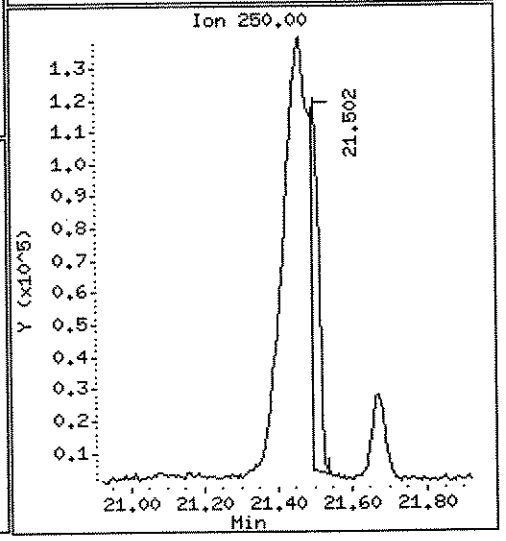


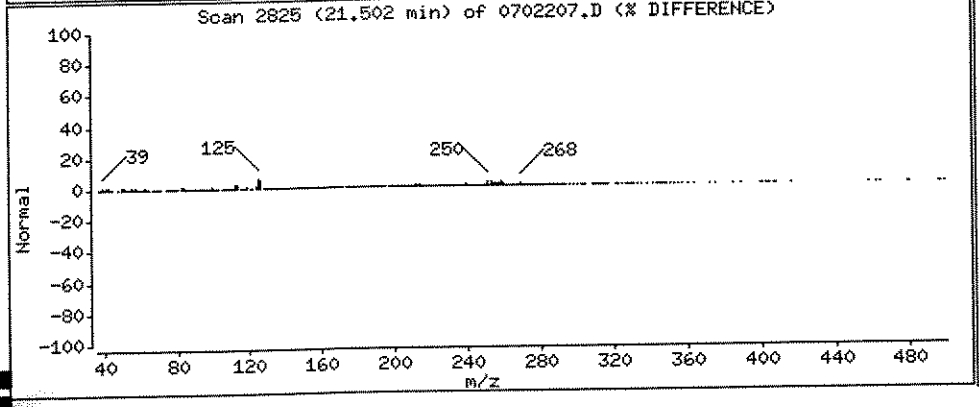












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

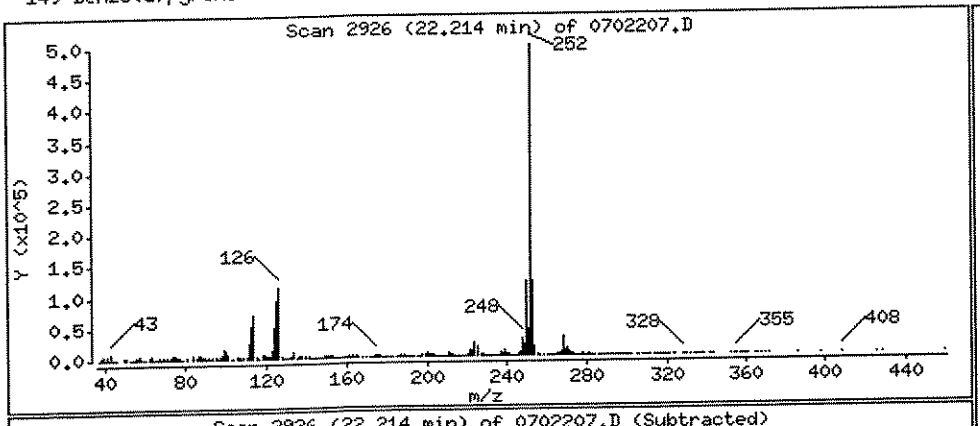
Operator: SDB

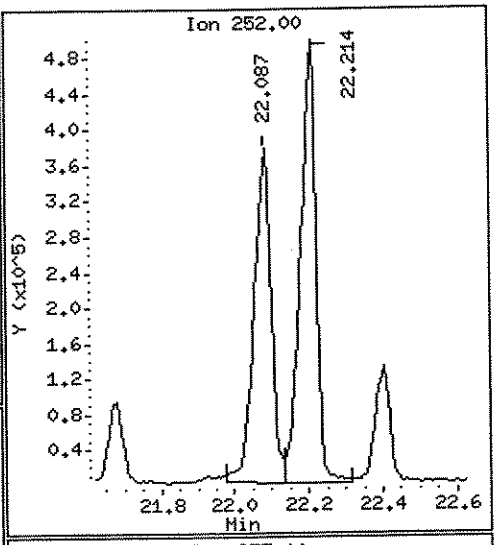
Column phase: fused silica

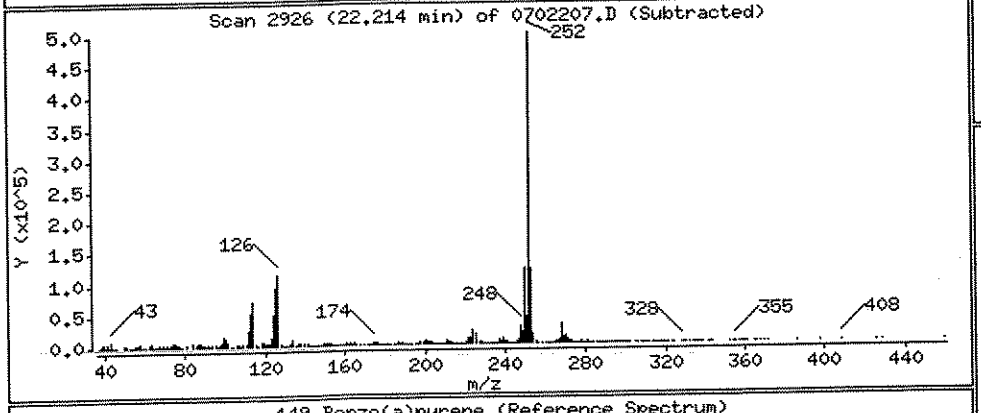
Column diameter: 0.25

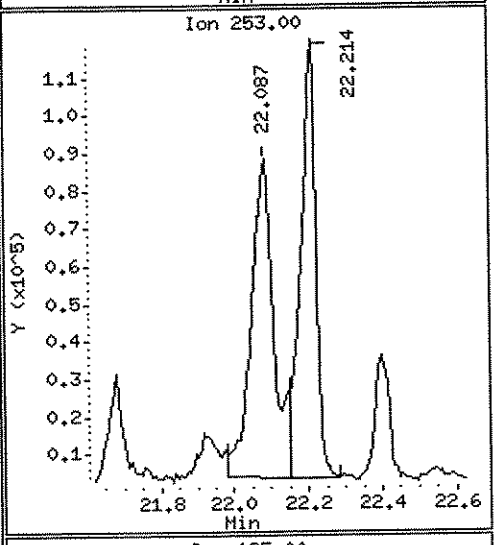
149 Benzo(a)pyrene

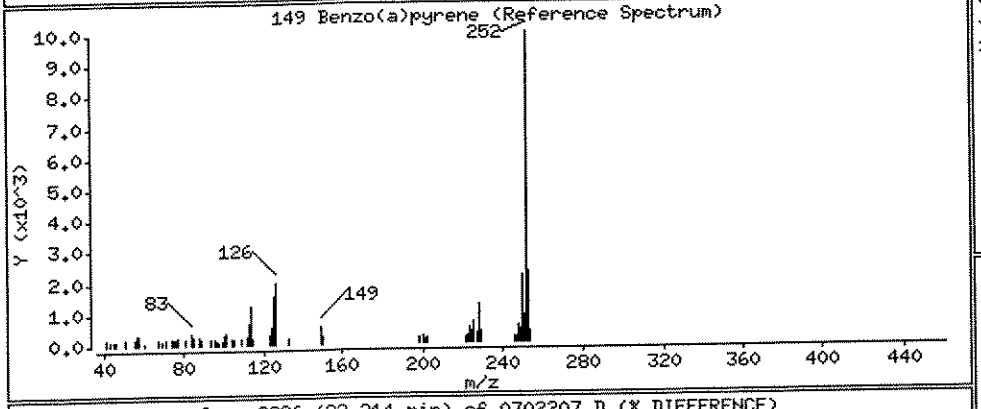
Concentration: 20100 UG/KG

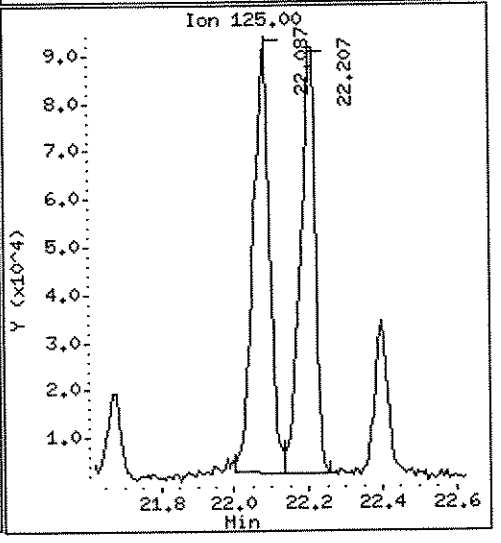


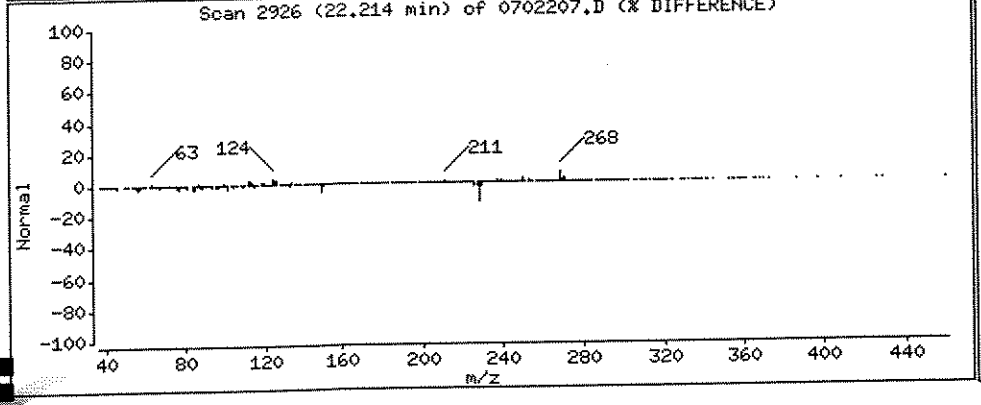












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

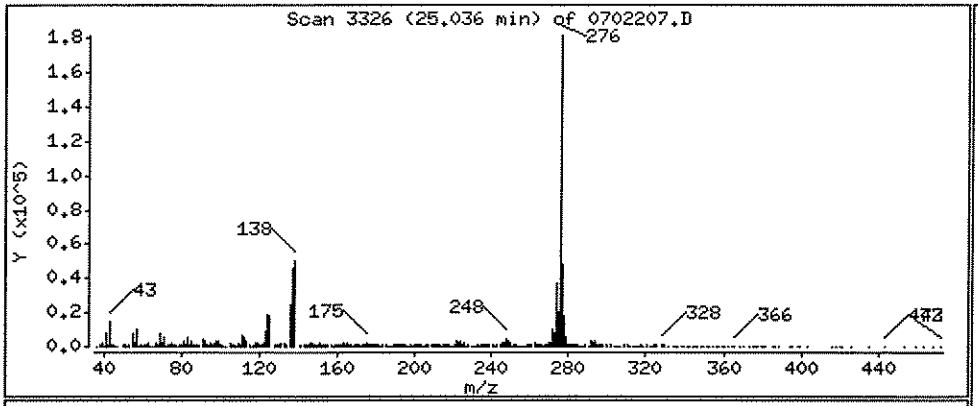
Client ID: 51CFM05S060706 Instrument: bna1.i

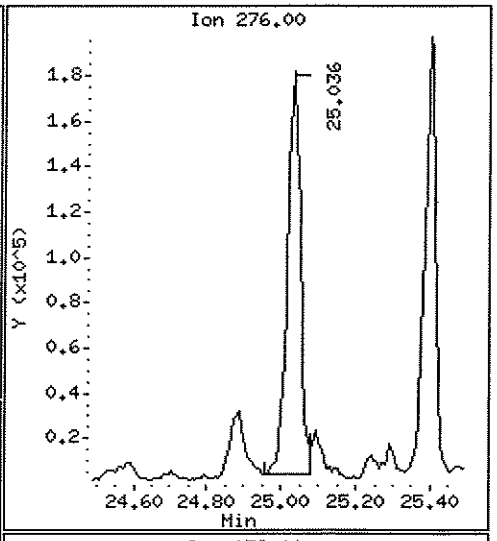
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

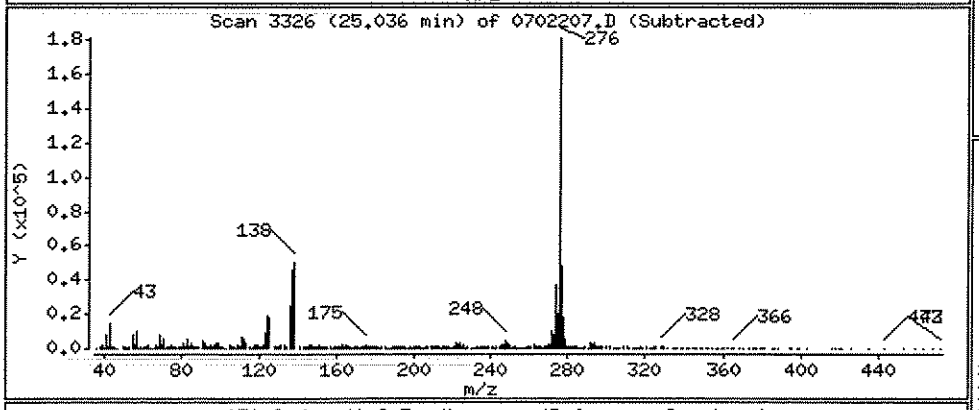
Volume Injected (uL): 0.5 Operator: SDB

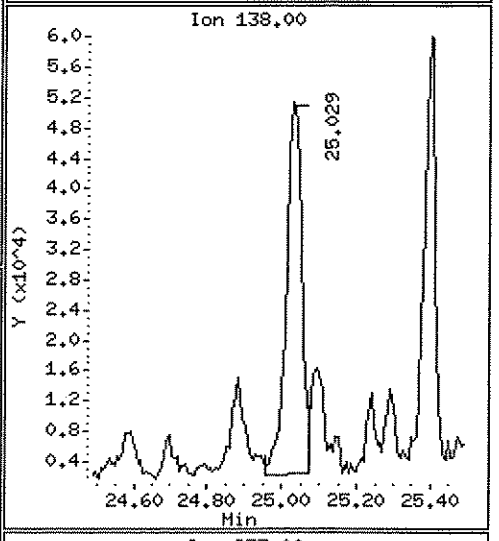
Column phase: fused silica Column diameter: 0.25

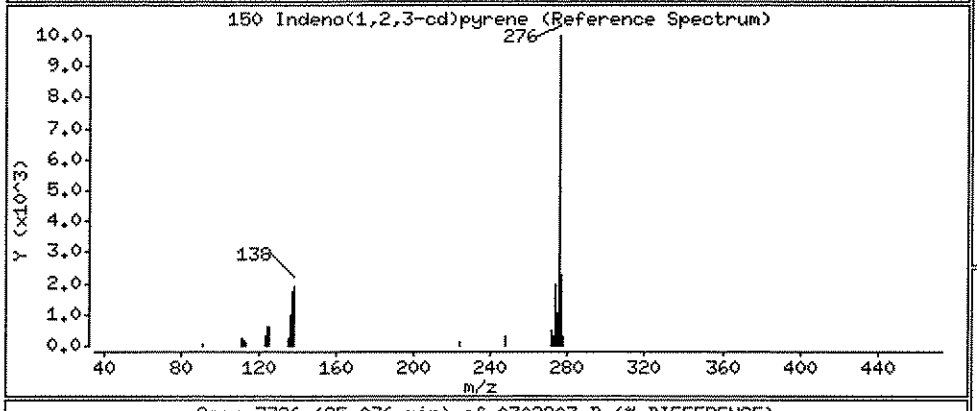
150 Indeno(1,2,3-cd)pyrene Concentration: 7133 UG/KG

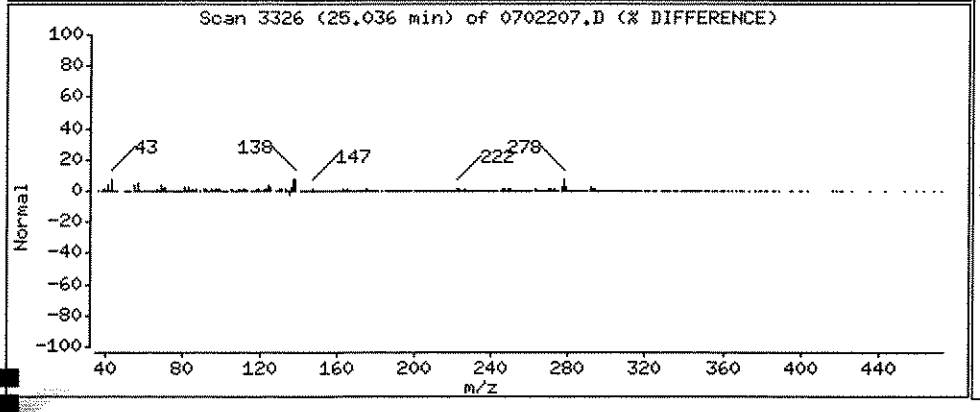


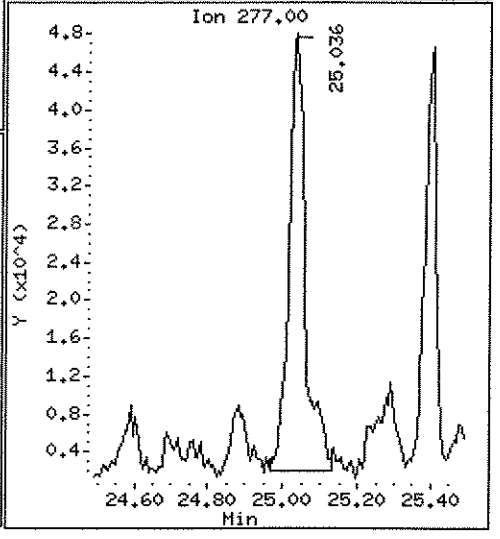












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

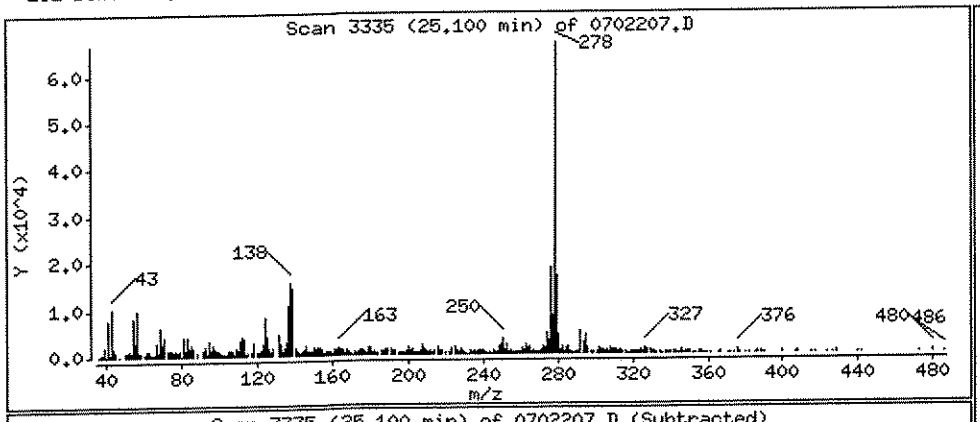
Operator: SDB

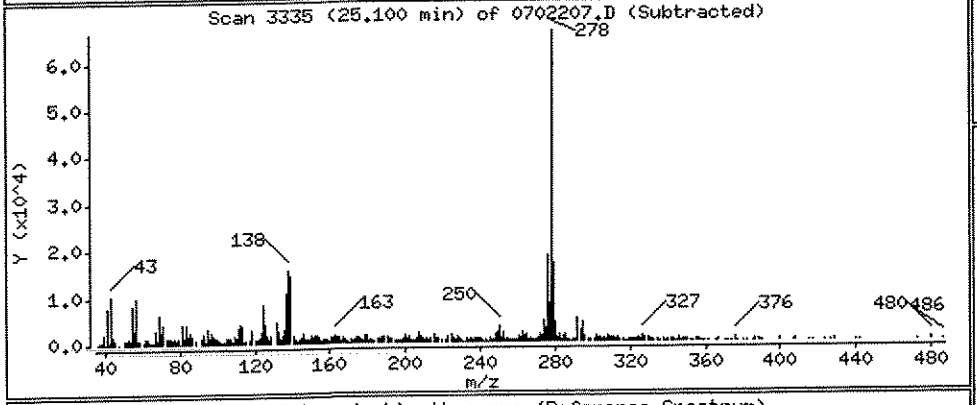
Column phase: fused silica

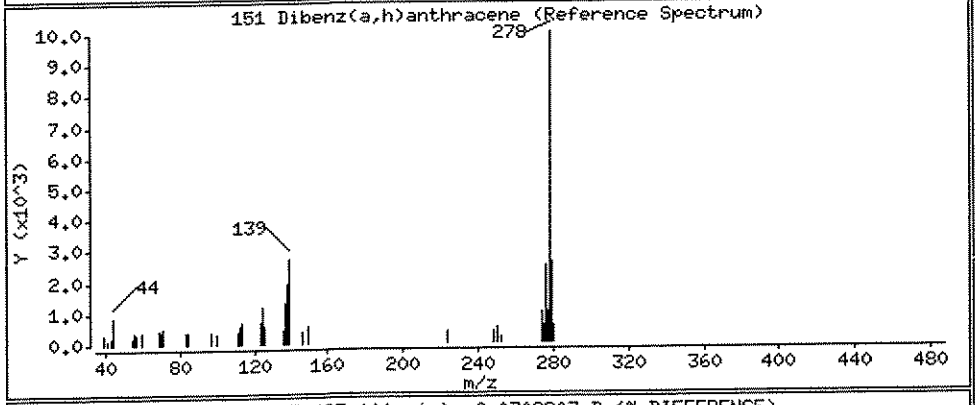
Column diameter: 0.25

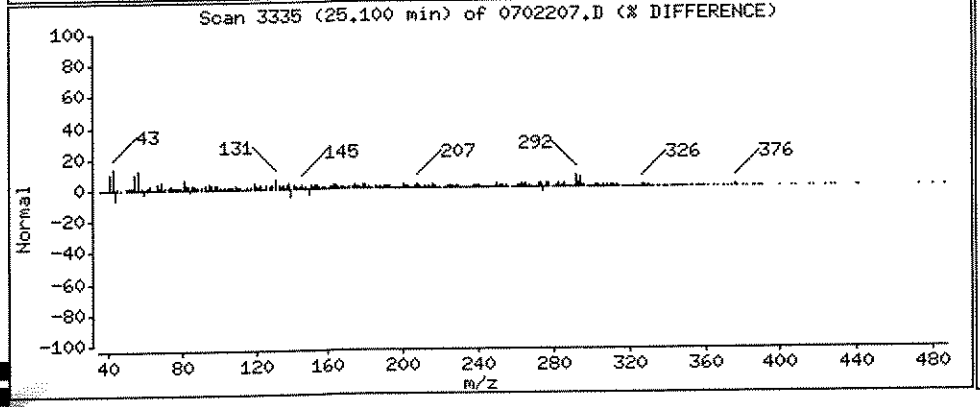
151 Dibenz(a,h)anthracene

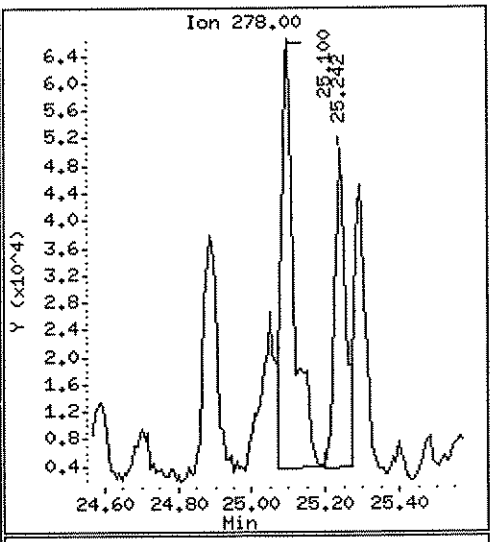
Concentration: 2499 UG/KG

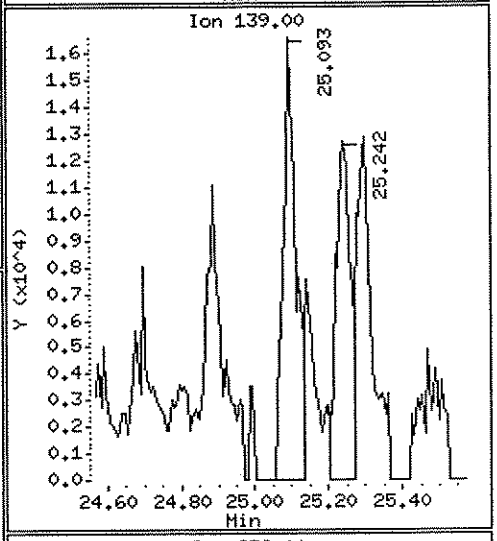


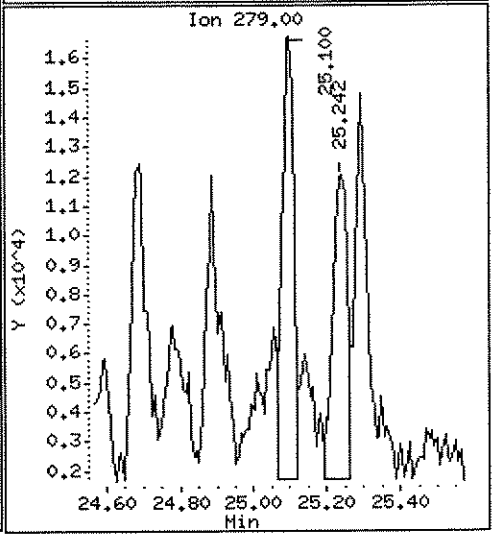












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702207.D

Date : 10-JUL-2006 17:28

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

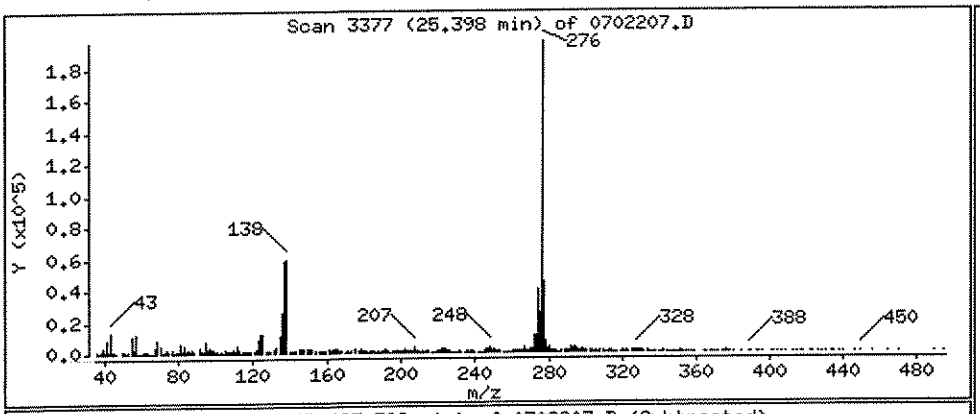
Operator: SDB

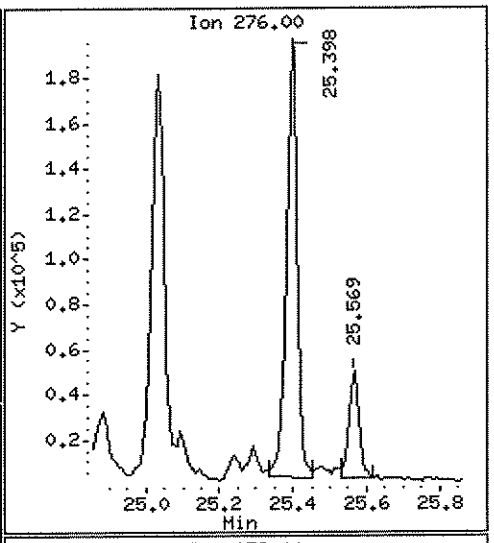
Column phase: fused silica

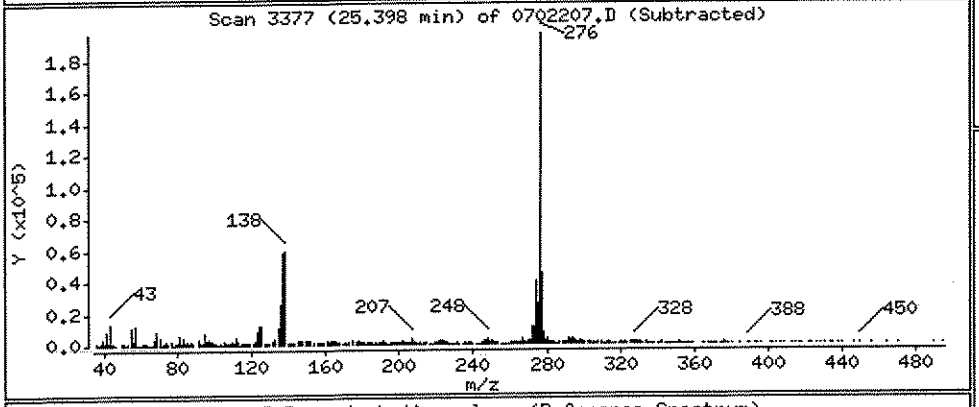
Column diameter: 0.25

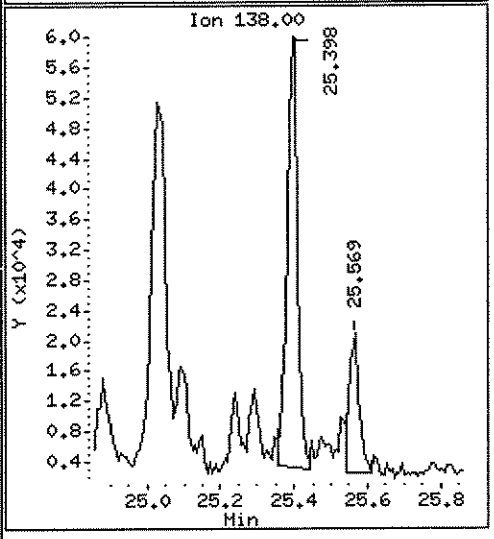
152 Benzo(g,h,i)perylene

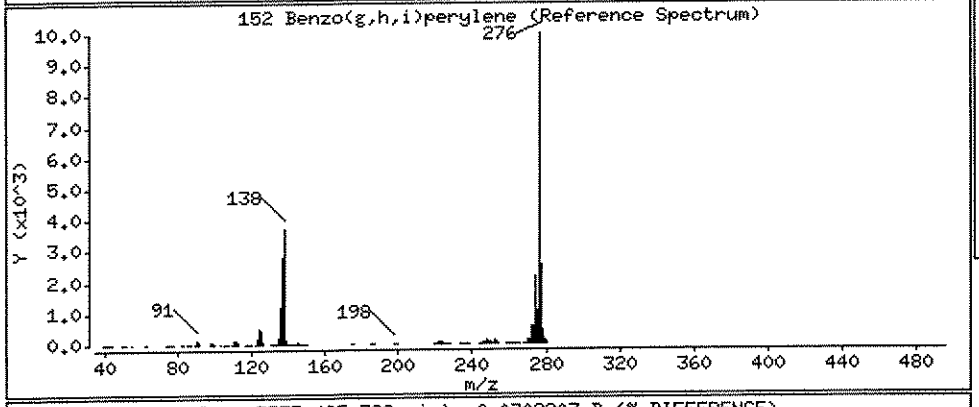
Concentration: 6165 UG/KG

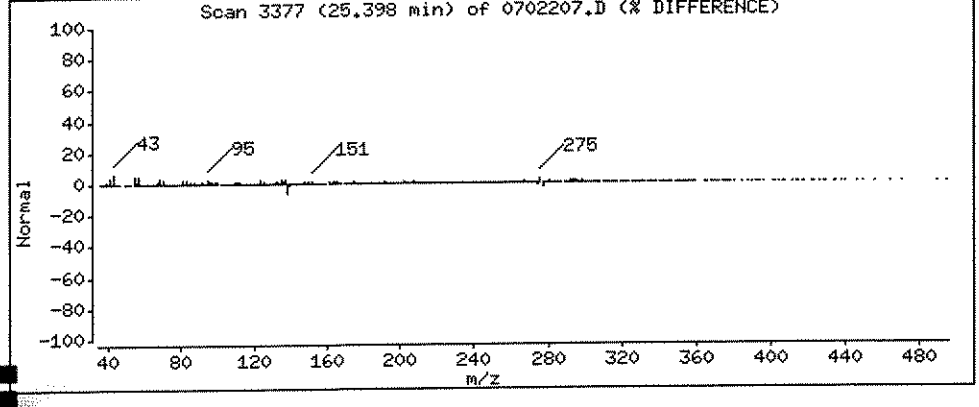












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM05S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702207D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	2000	17000	6900	JD
208-96-8	Acenaphthylene	2000	17000		UD
120-12-7	Anthracene	2000	17000	7300	JD
56-55-3	Benzo(a)anthracene	2000	17000	27000	D
205-99-2	Benzo(b)fluoranthene	2000	17000	31000	D
207-08-9	Benzo(k)fluoranthene	2000	17000	14000	JD
191-24-2	Benzo(g,h,i)perylene	2000	17000	14000	JD
50-32-8	Benzo(a)pyrene	2000	10000	24000	D
218-01-9	Chrysene	2000	17000	34000	D
53-70-3	Dibenz(a,h)anthracene	2000	10000	4400	JD
206-44-0	Fluoranthene	2000	17000	71000	D
86-73-7	Fluorene	2000	17000	6200	JD
193-39-5	Indeno(1,2,3-cd)pyrene	2000	17000	15000	JD
91-57-6	2-Methylnaphthalene	2000	17000		UD
90-12-0	1-Methylnaphthalene	5100	17000		UD
91-20-3	Naphthalene	2000	17000		UD
85-01-8	Phenanthrene	2000	17000	42000	D
129-00-0	Pyrene	2000	17000	54000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 11-JUL-2006 13:53
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	522989	40.0000	
* 31 Naphthalene-d8	136	5.231	5.240	(1.000)	1812935	40.0000	
* 65 Acenaphthene-d10	164	7.639	7.641	(1.000)	891228	40.0000	
76 Acenaphthene	153	7.688	7.703	(1.006)	52041	2.02327	6864(a)
84 Fluorene	166	8.721	8.727	(1.142)	50465	1.83440	6224(a)
* 97 Phenanthrene-d10	188	10.922	10.923	(1.000)	1162136	40.0000	
106 Phenanthrene	178	10.971	10.986	(1.004)	414746	12.5169	42460
107 Anthracene	178	11.080	11.096	(1.014)	70372	2.15119	7298(a)
110 Fluoranthene	202	14.186	14.195	(1.299)	683632	20.8393	70700
* 124 Chrysene-d12	240	18.328	18.333	(1.000)	943983	40.0000	
126 Pyrene	202	14.763	14.770	(0.805)	596367	15.8190	53670
130 Benzo(a)anthracene	228	18.279	18.291	(0.997)	243549	8.00747	27170
131 Chrysene	228	18.390	18.409	(1.003)	278211	10.0149	33980

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Report Date: 12-Jul-2006 12:13

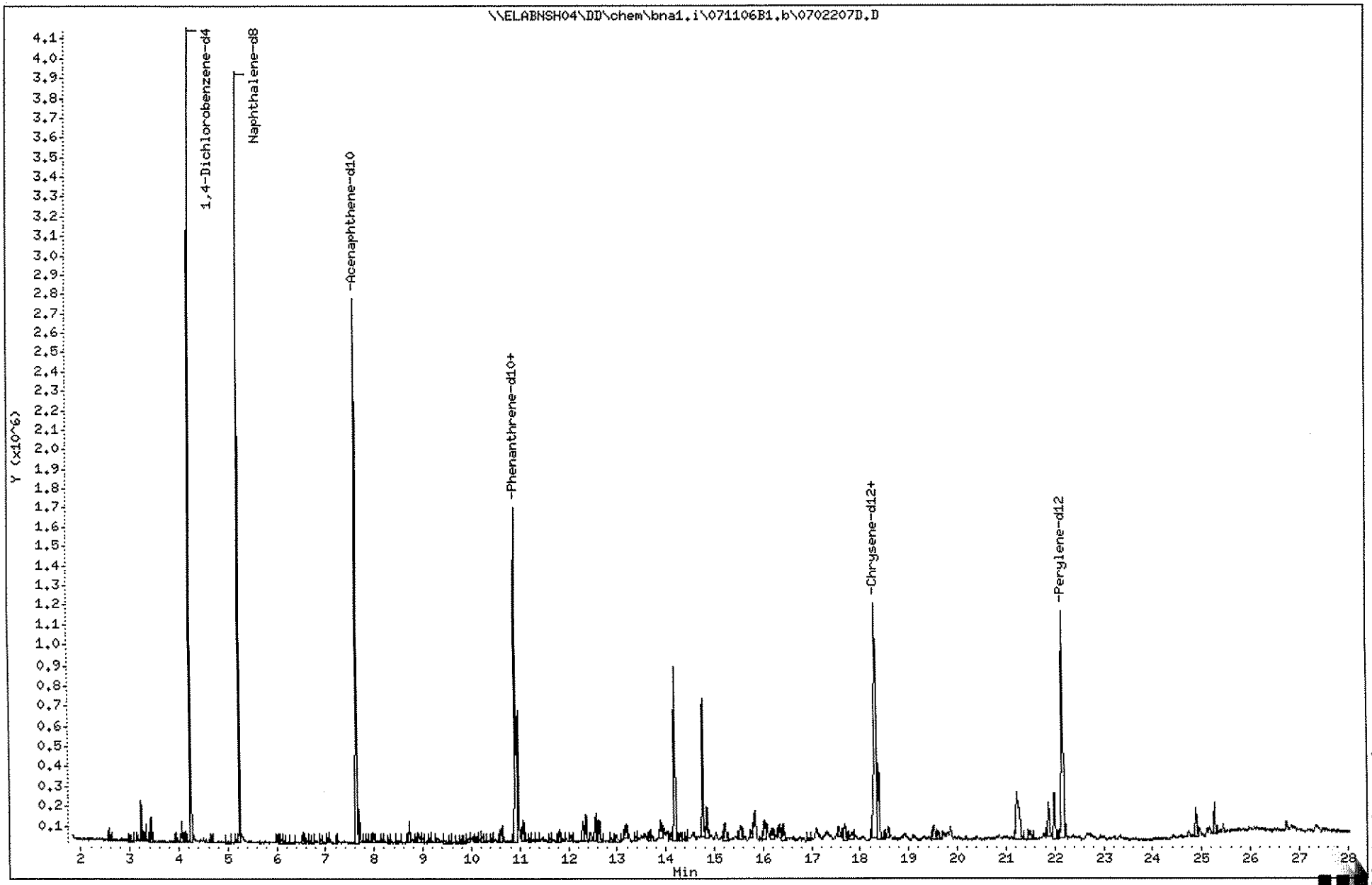
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.170	22.175	(1.000)	967641	40.0000	
147 Benzo(b)fluoranthene	252	21.230	21.248	(0.958)	273219	9.16610	31100(M)
148 Benzo(k)fluoranthene	252	21.279	21.317	(0.960)	128536	4.15632	14100(aM)
149 Benzo(a)pyrene	252	21.990	22.017	(0.992)	184296	7.17017	24330
150 Indeno(1,2,3-cd)pyrene	276	24.888	24.921	(1.123)	98699	4.50074	15270(a)
151 Dibenz(a,h)anthracene	278	24.971	24.998	(1.126)	28524	1.29203	4383(a)
152 Benzo(g,h,i)perylene	276	25.270	25.301	(1.140)	91771	4.03261	13680(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D
Date : 11-JUL-2006 13:53
Client ID: 51CFM05S060706
Instrument: bna1.i
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000207



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Date : 11-JUL-2006 13:53

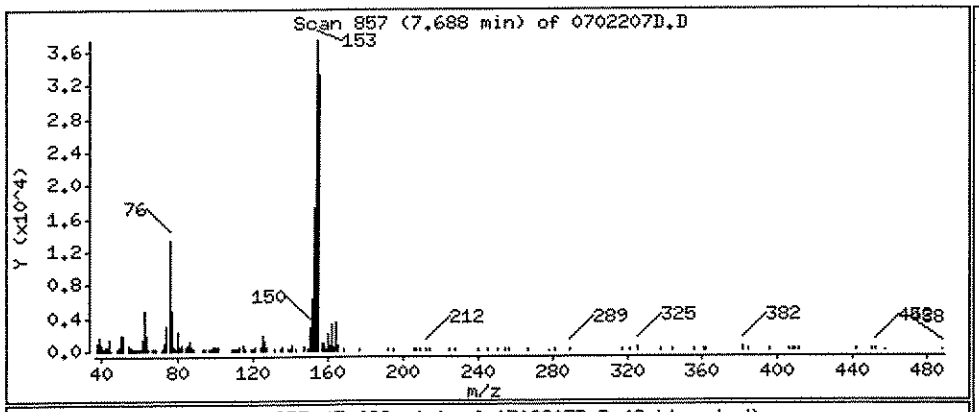
Client ID: 51CFM05S060706 Instrument: bna1.i

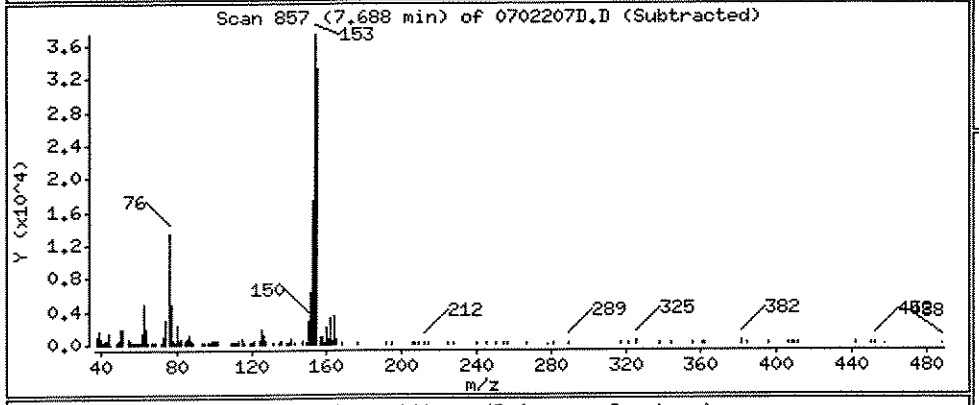
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

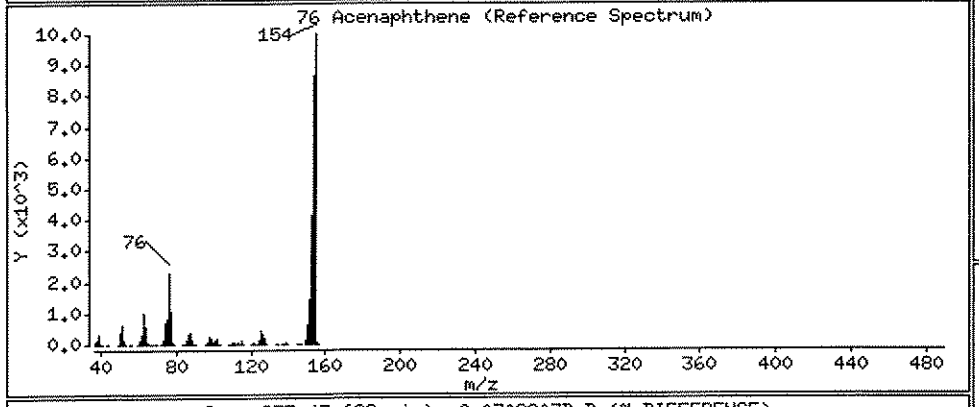
Volume Injected (uL): 0.5 Operator: SDB

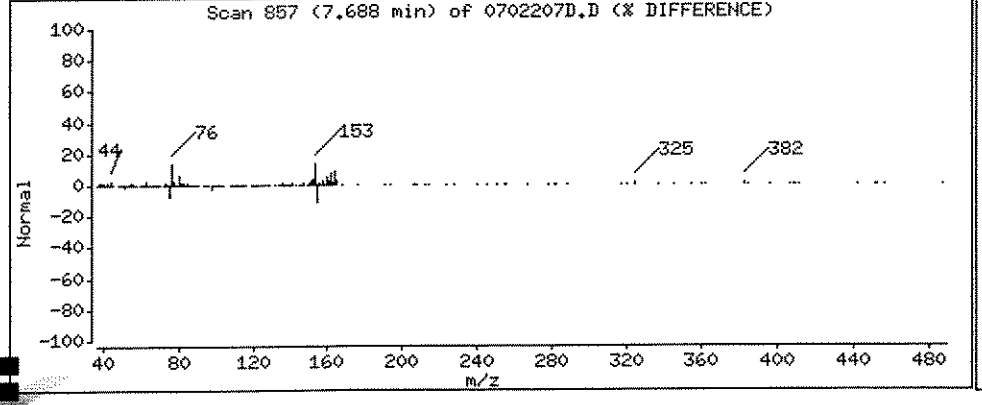
Column phase: fused silica Column diameter: 0.25

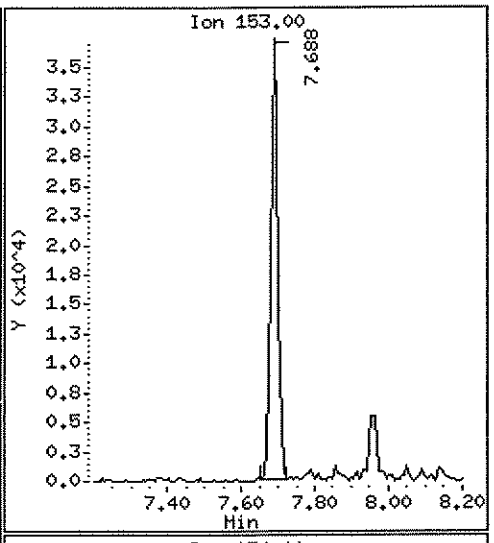
76 Acenaphthene Concentration: 6864 UG/KG

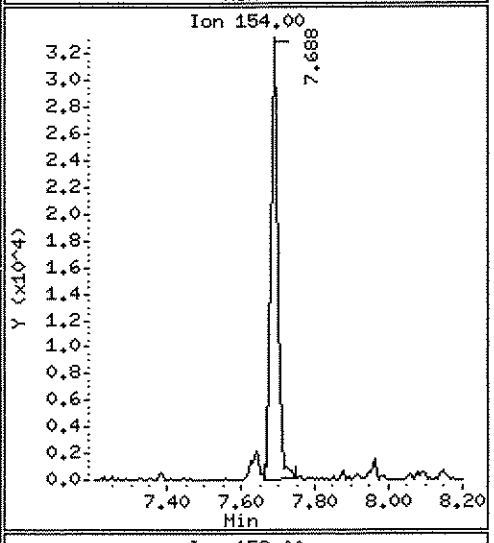


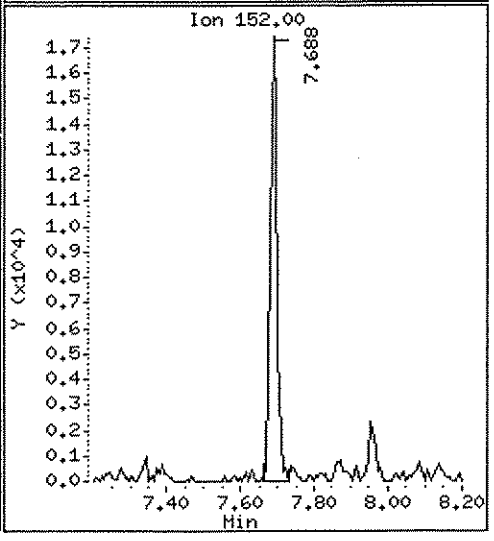












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Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

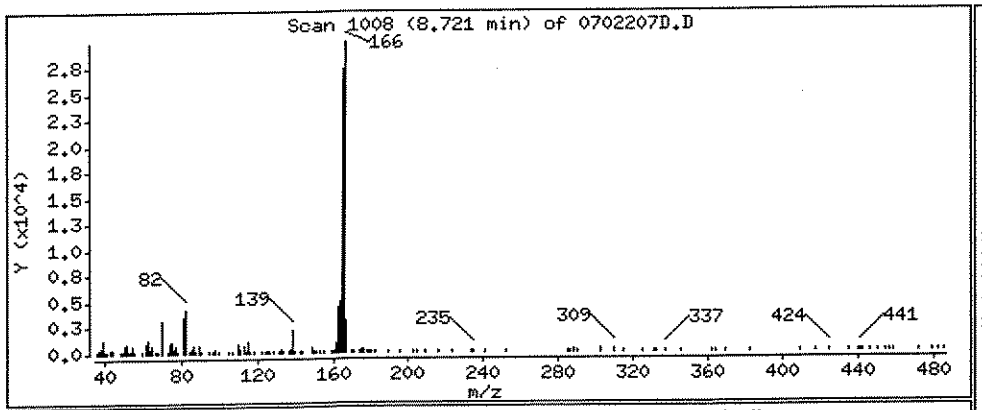
Operator: SDB

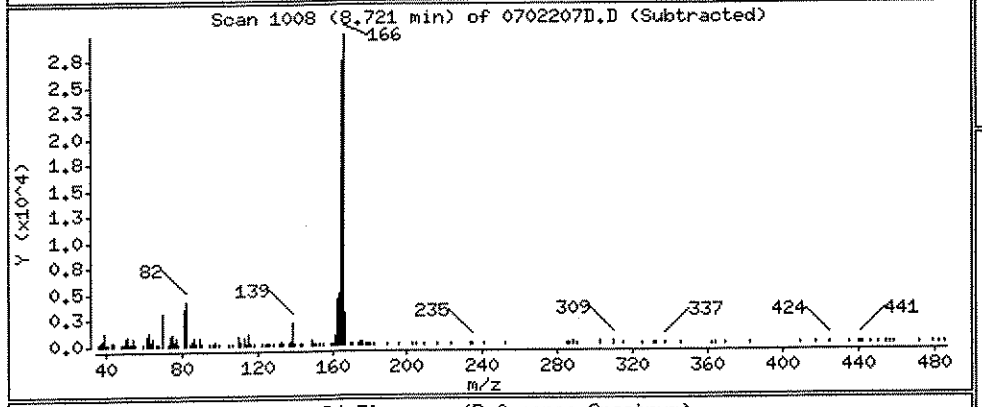
Column phase: fused silica

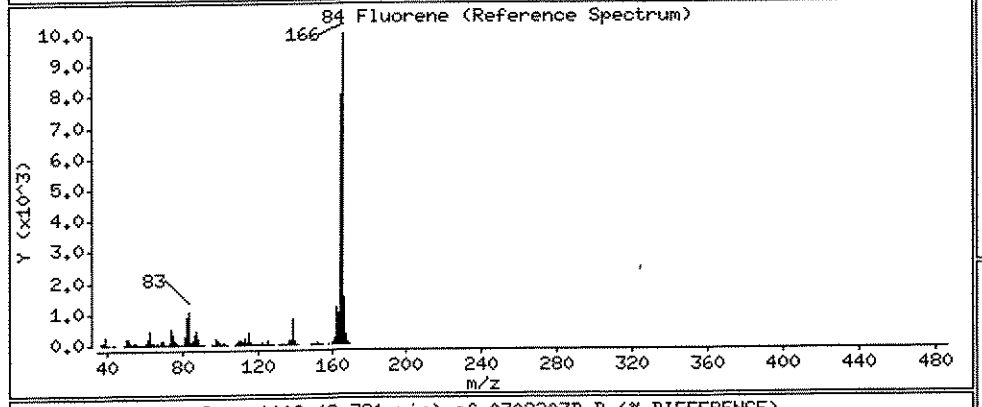
Column diameter: 0.25

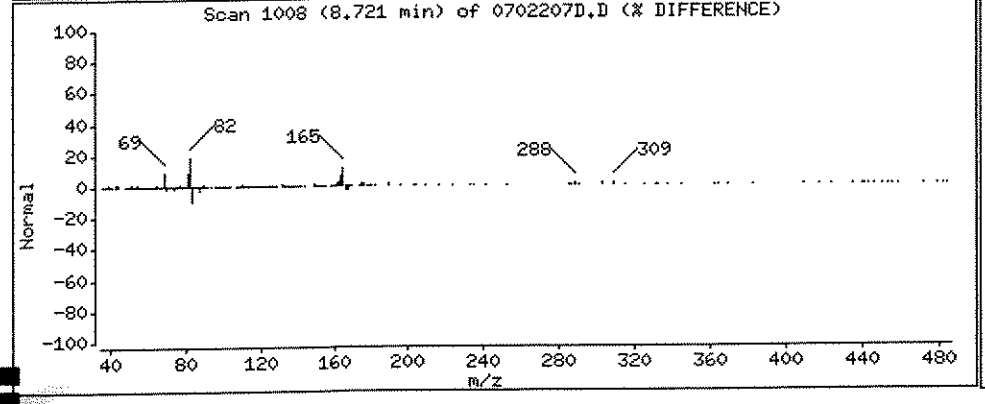
84 Fluorene

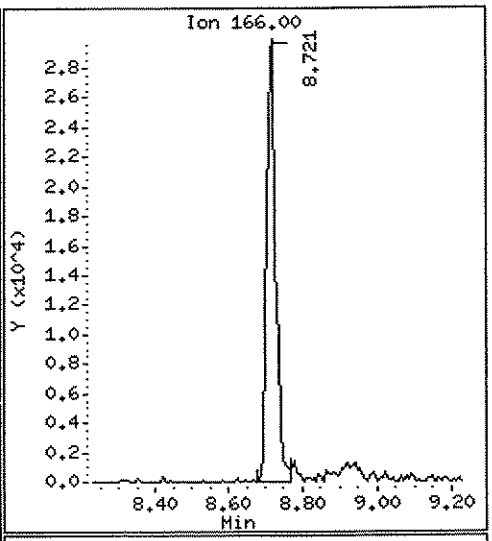
Concentration: 6224 UG/KG

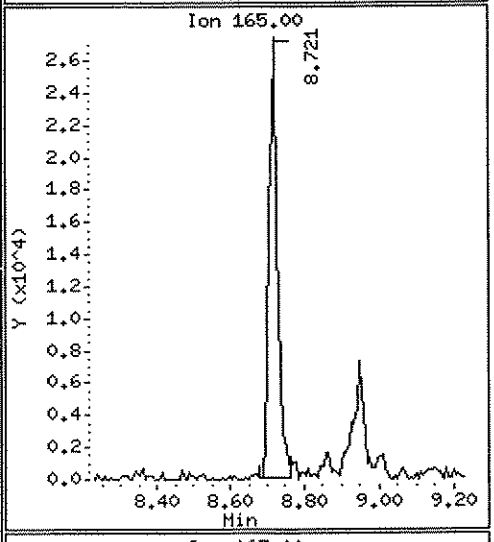


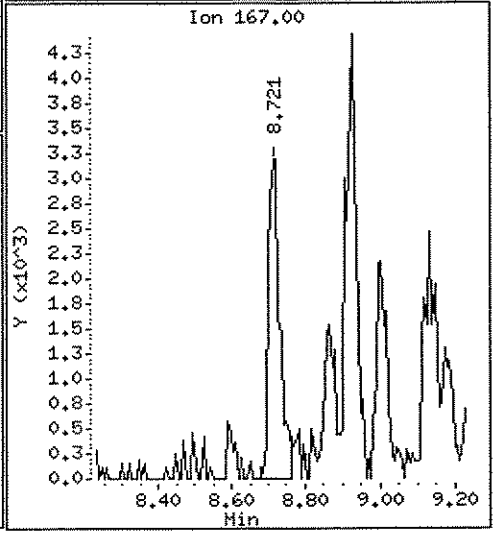












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000209

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Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

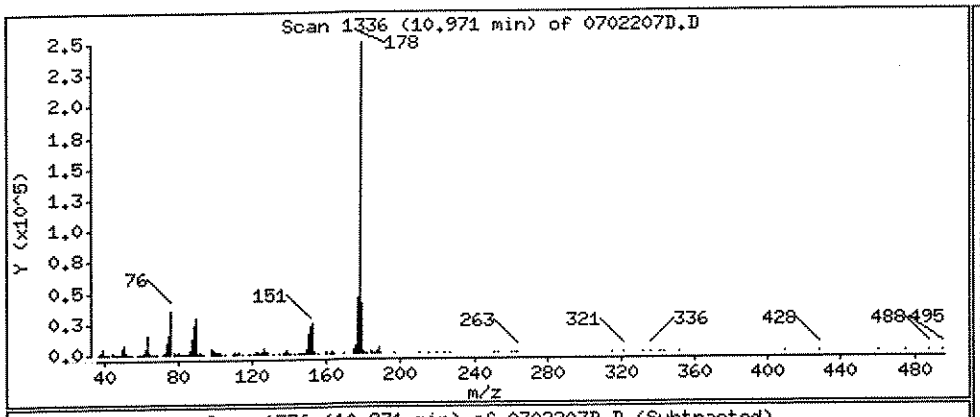
Operator: SDB

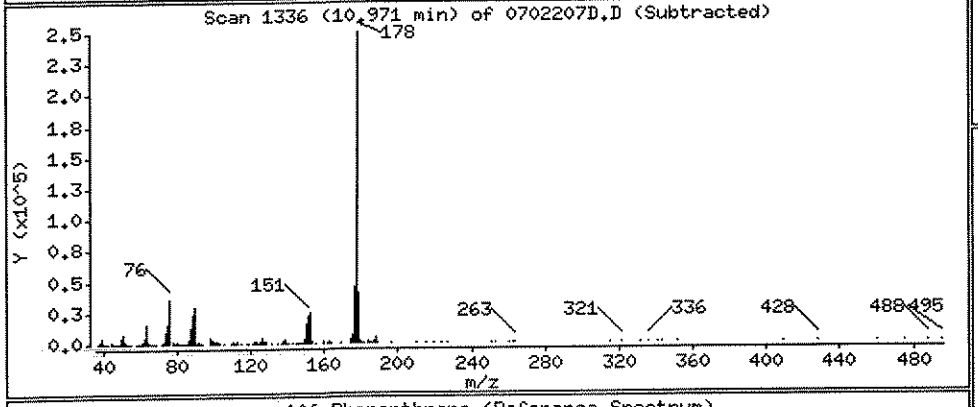
Column phase: fused silica

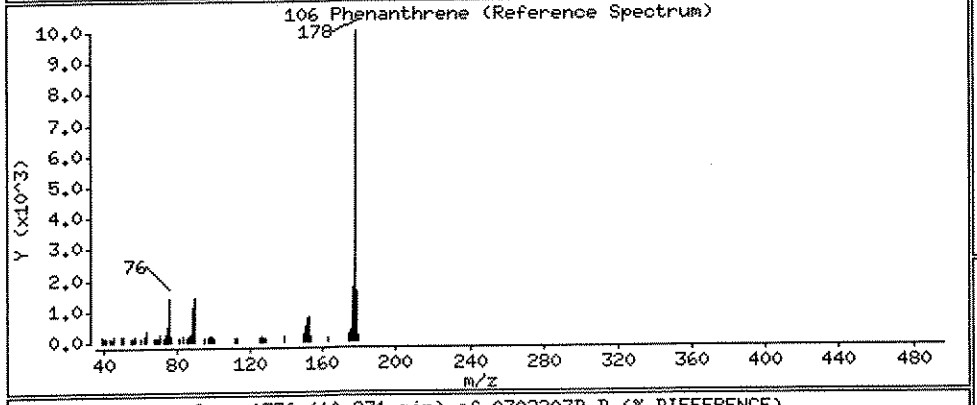
Column diameter: 0.25

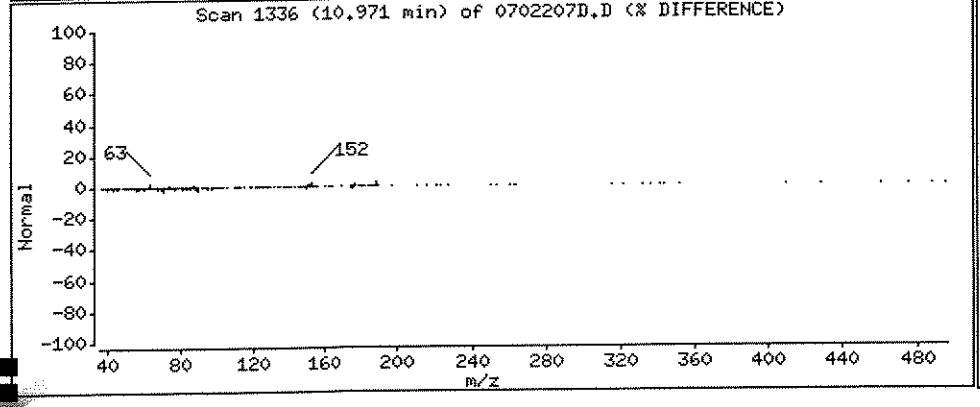
106 Phenanthrene

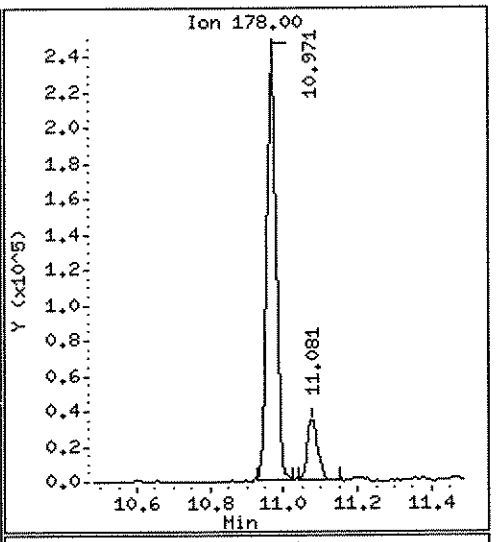
Concentration: 42460 UG/KG

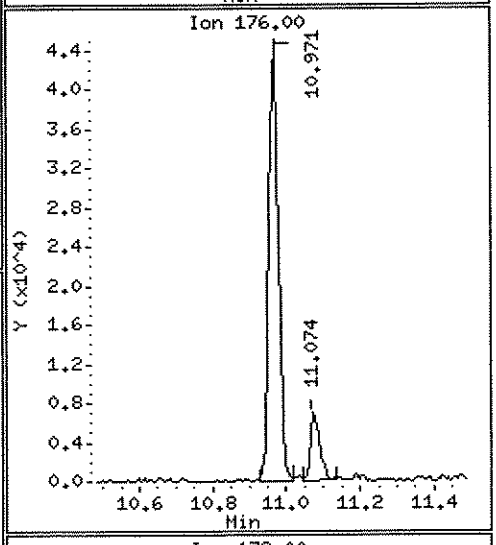


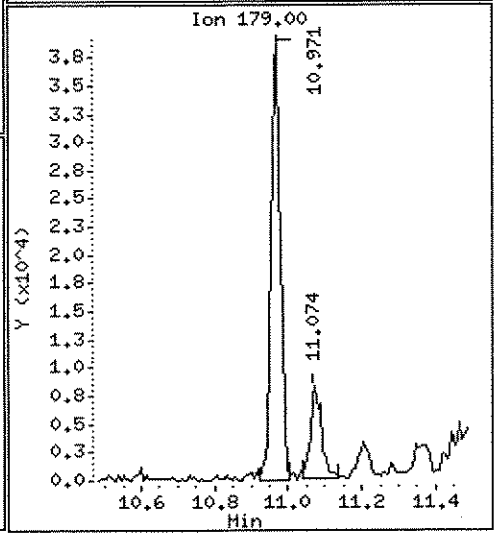












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

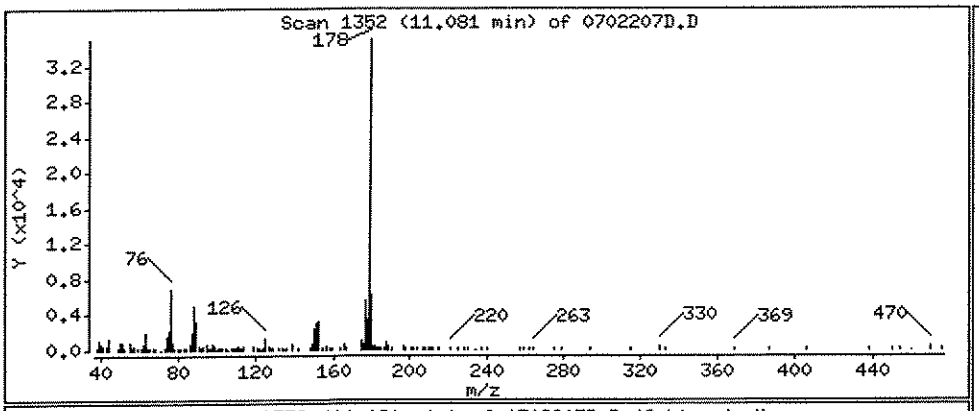
Client ID: 51CFM05S060706 Instrument: bna1.i

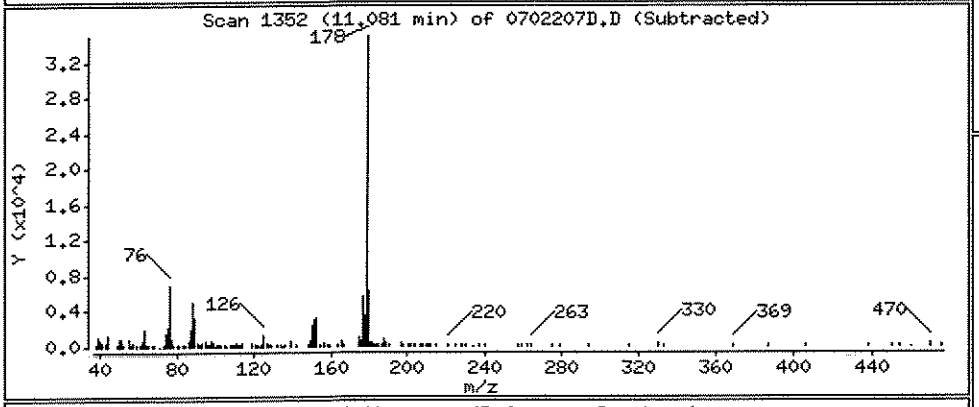
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

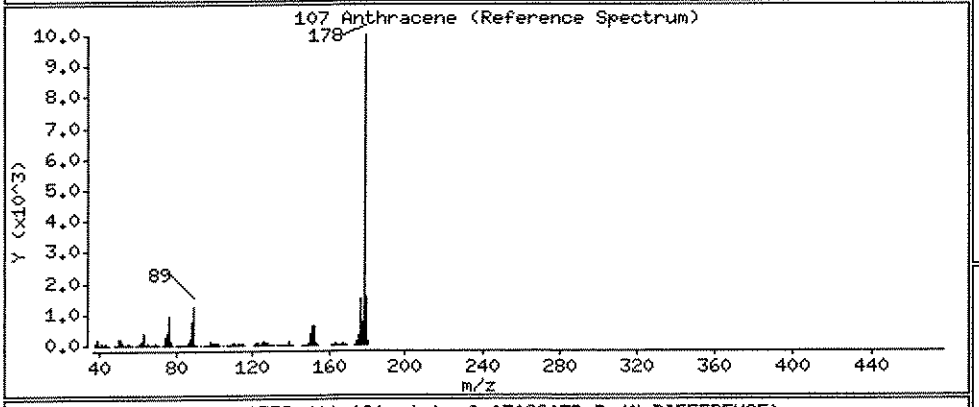
Volume Injected (uL): 0.5 Operator: SDB

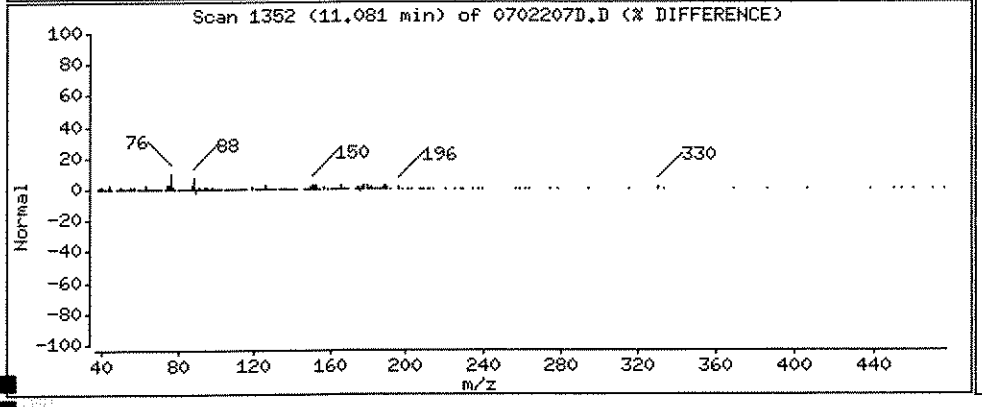
Column phase: fused silica Column diameter: 0.25

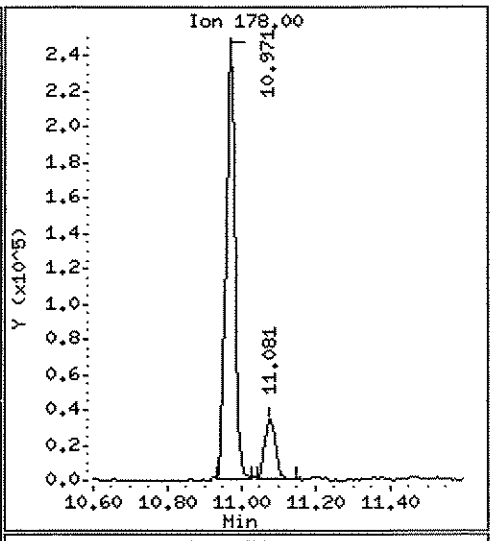
107 Anthracene Concentration: 7298 UG/KG

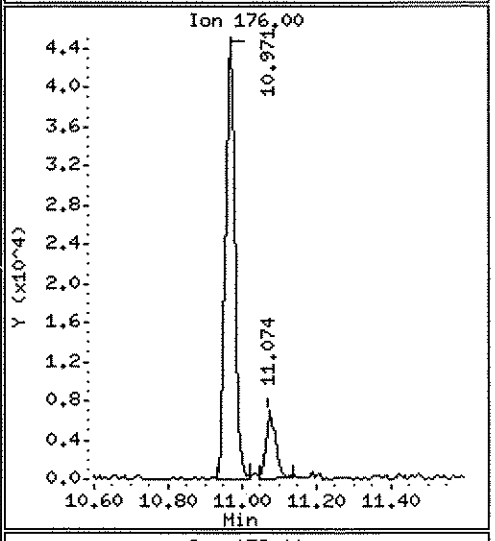


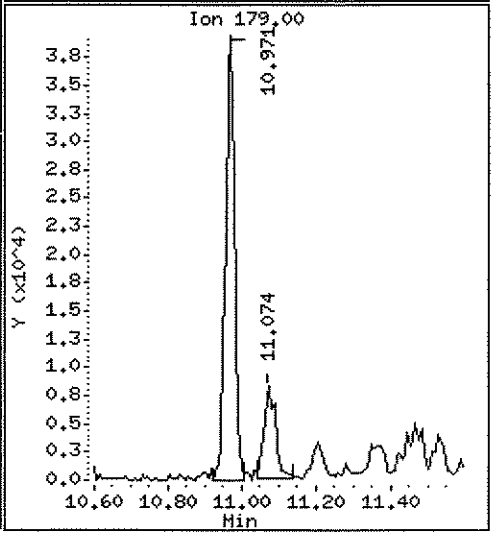












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

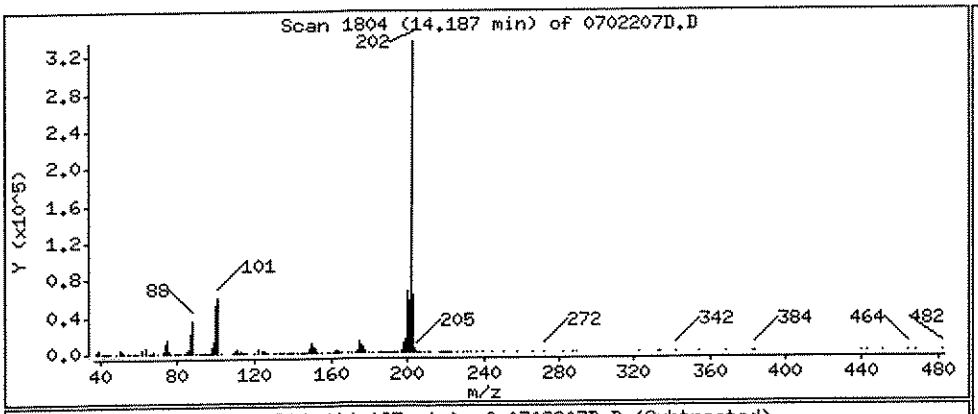
Operator: SDB

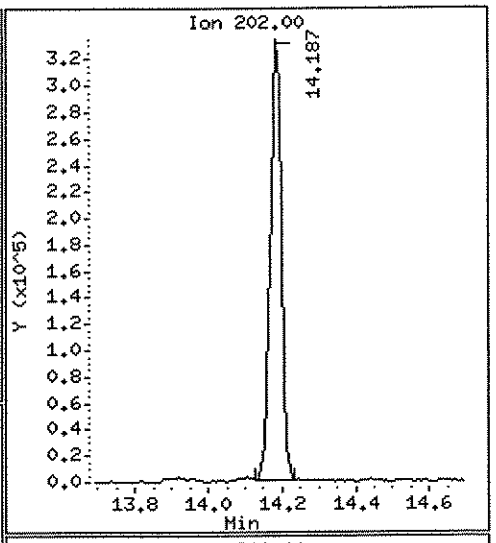
Column phase: fused silica

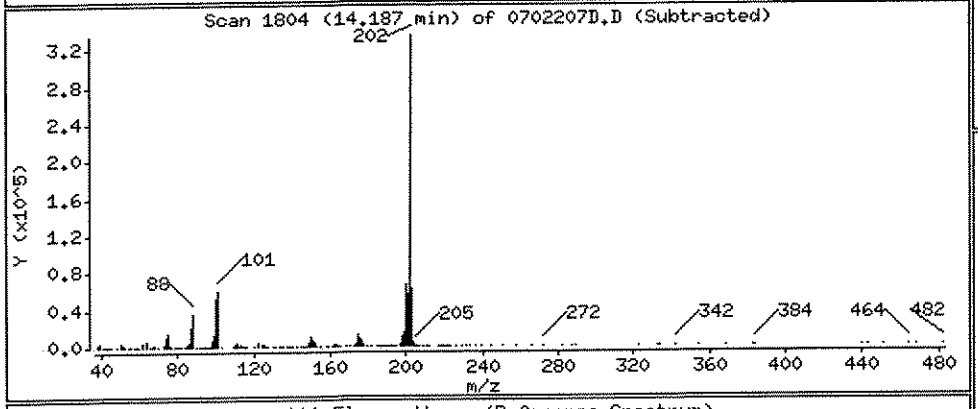
Column diameter: 0.25

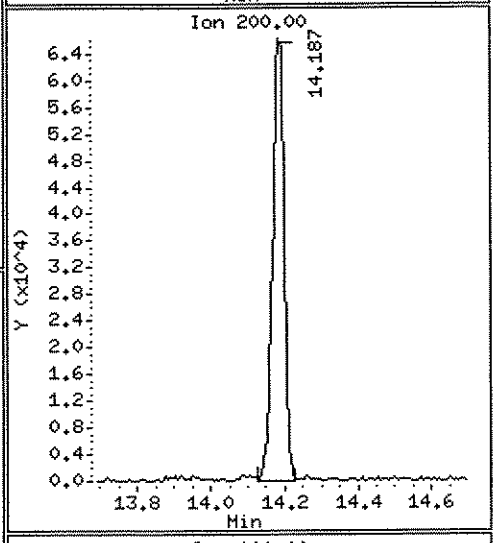
110 Fluoranthene

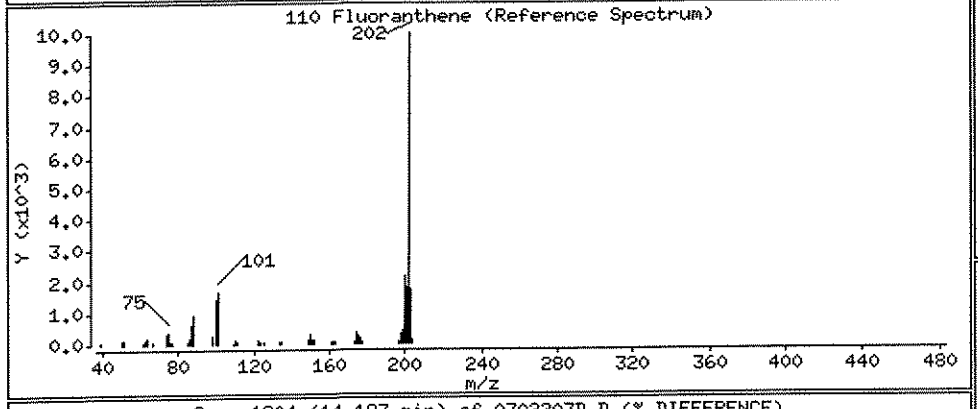
Concentration: 70700 UG/KG

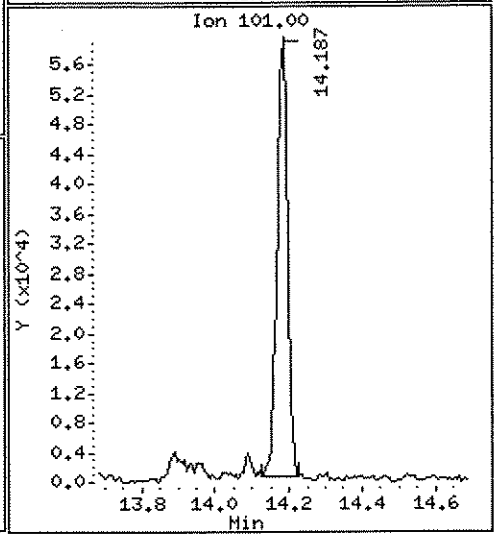


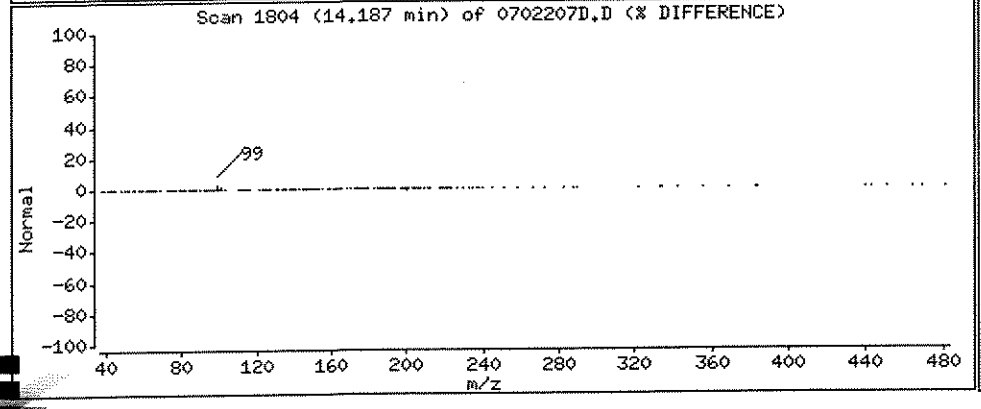












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

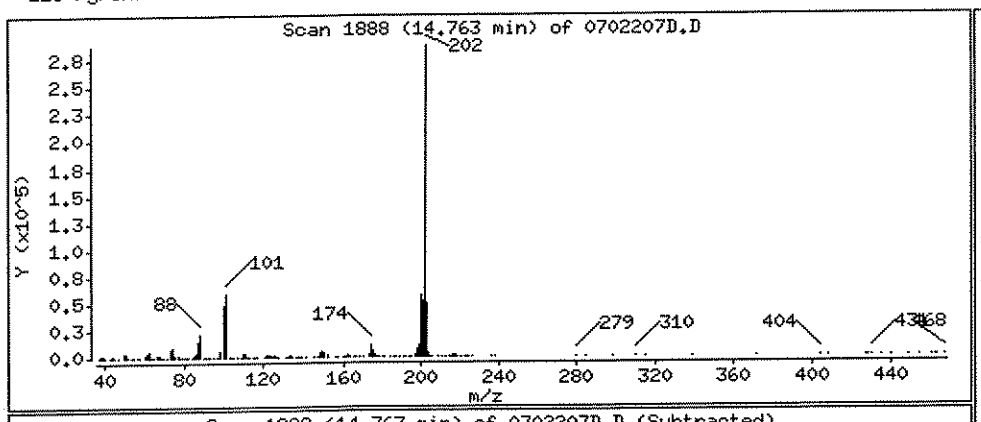
Operator: SDB

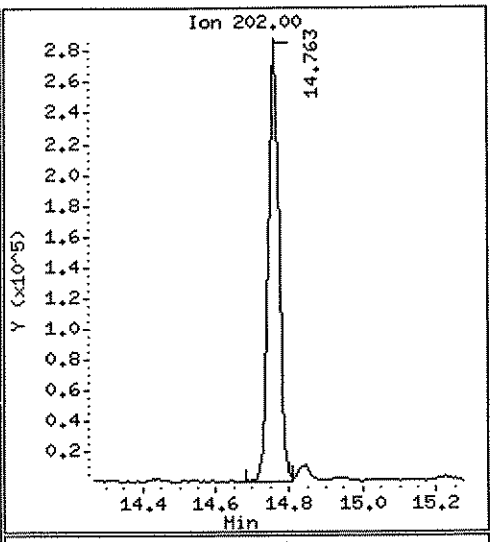
Column phase: fused silica

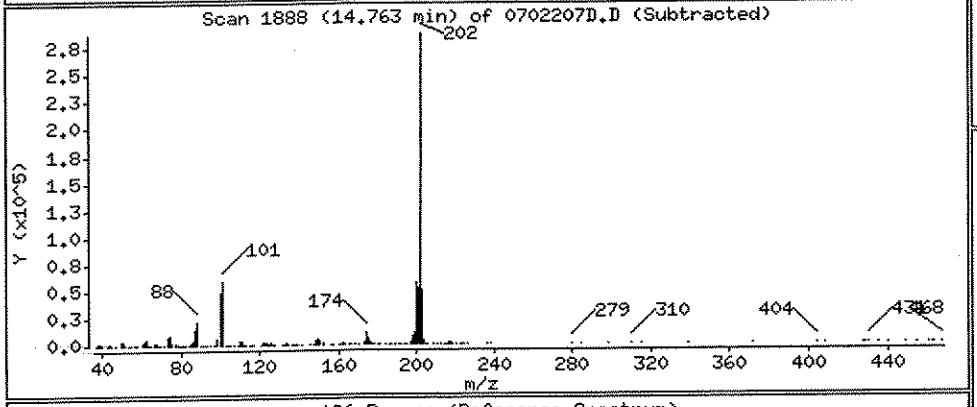
Column diameter: 0.25

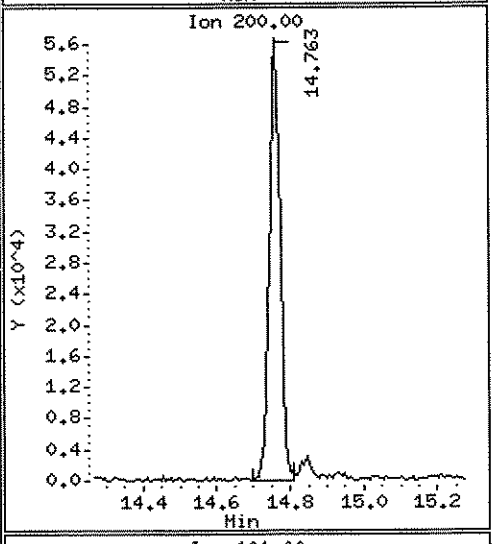
126 Pyrene

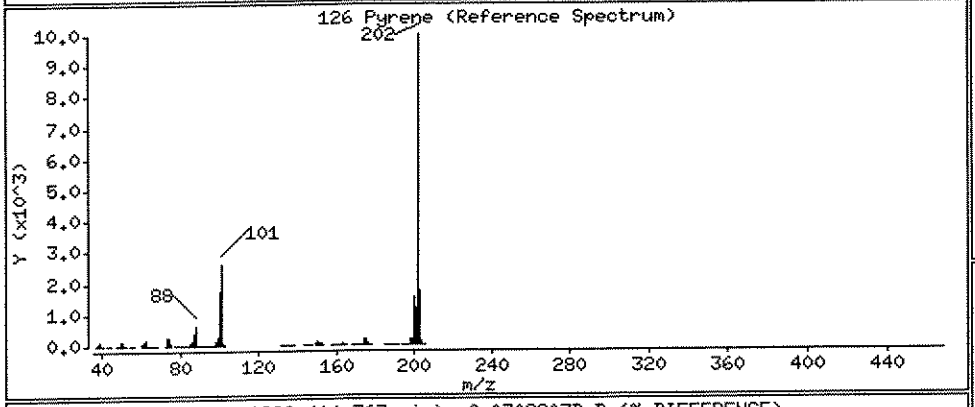
Concentration: 53670 UG/KG

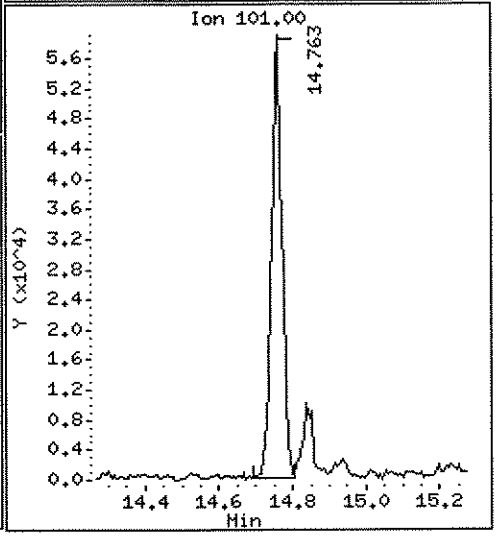


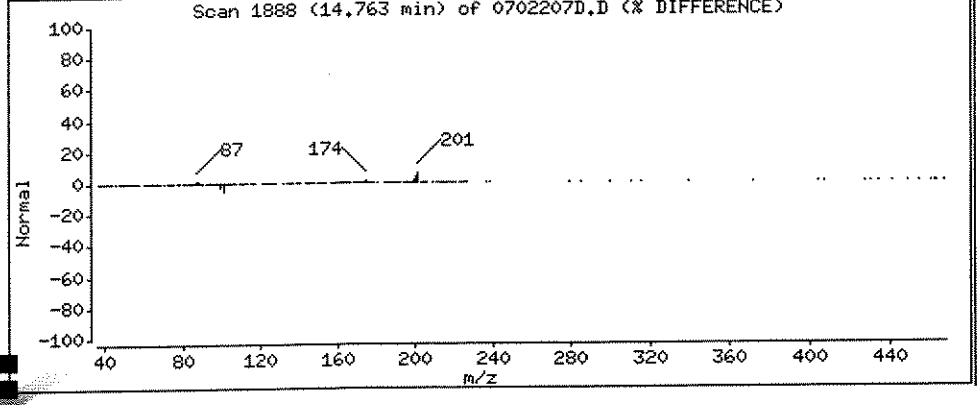












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

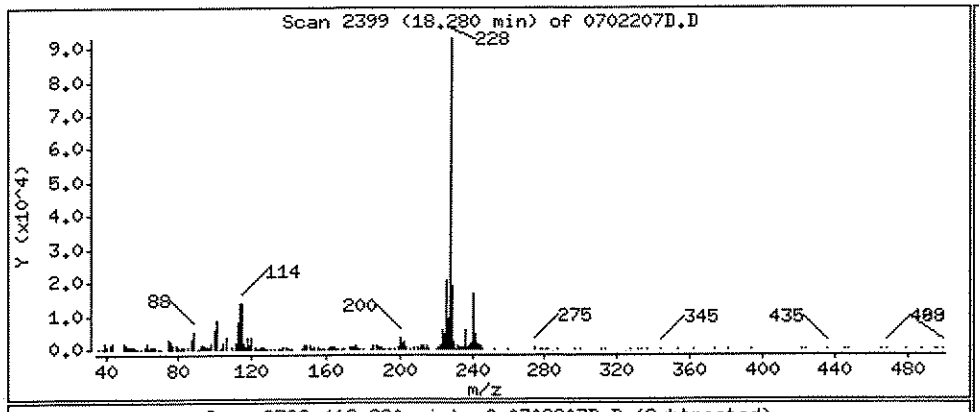
Client ID: 51CFM05S060706 Instrument: bna1.i

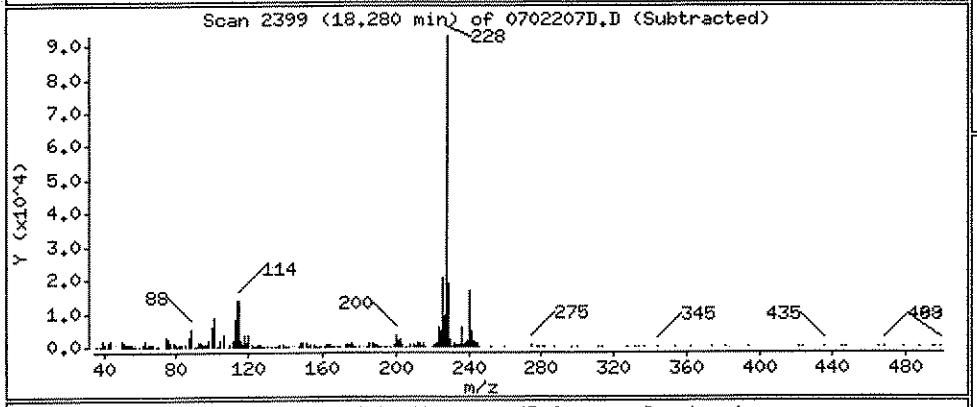
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

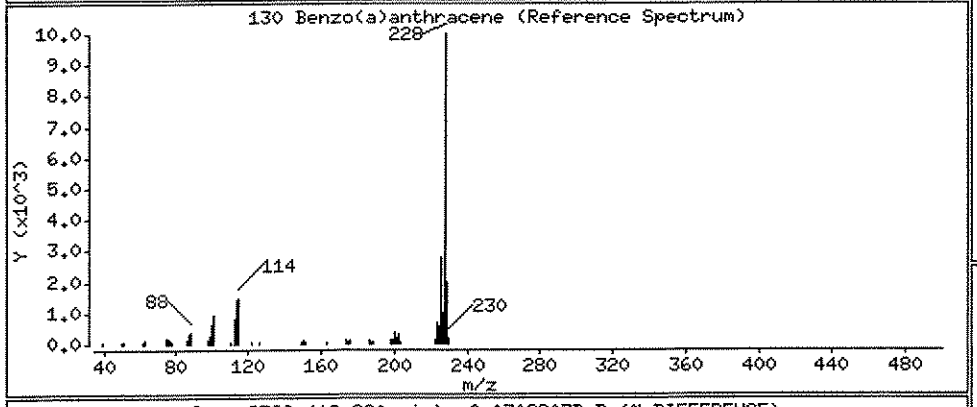
Volume Injected (uL): 0.5 Operator: SDB

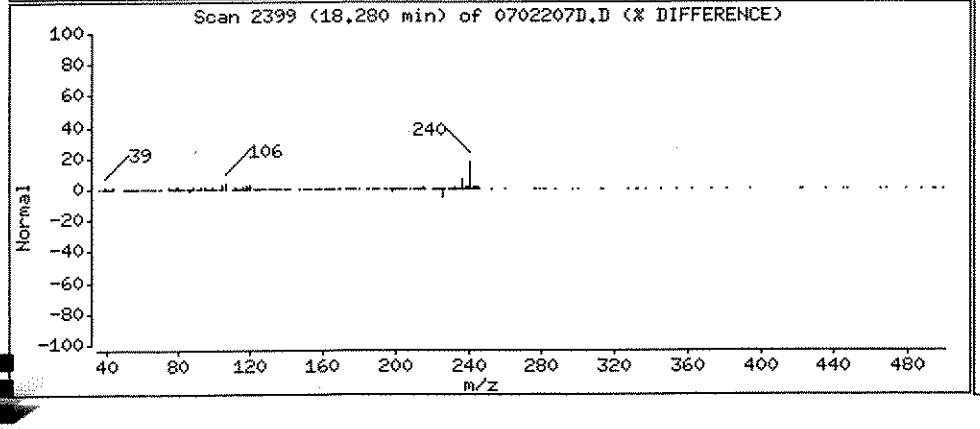
Column phase: fused silica Column diameter: 0.25

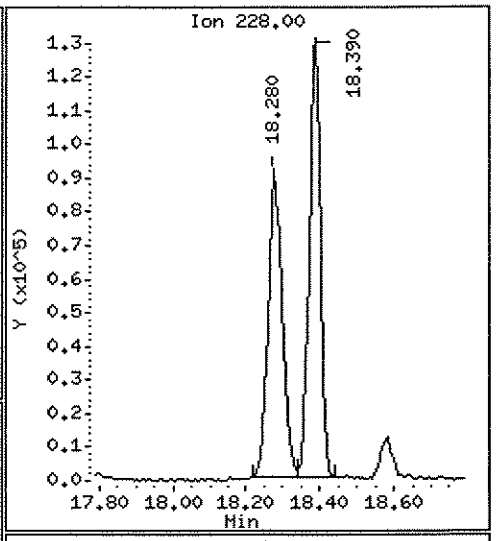
130 Benzo(a)anthracene Concentration: 27170 UG/KG

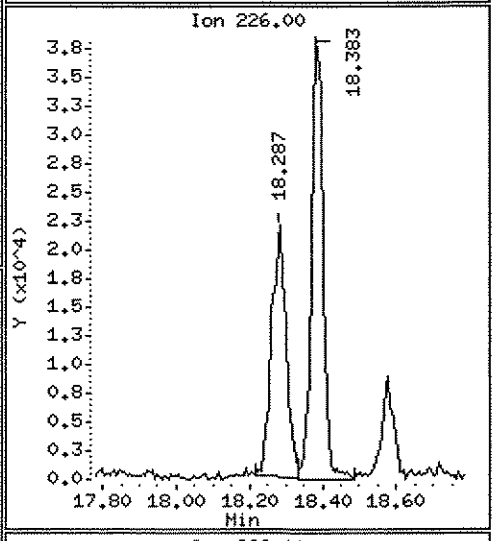


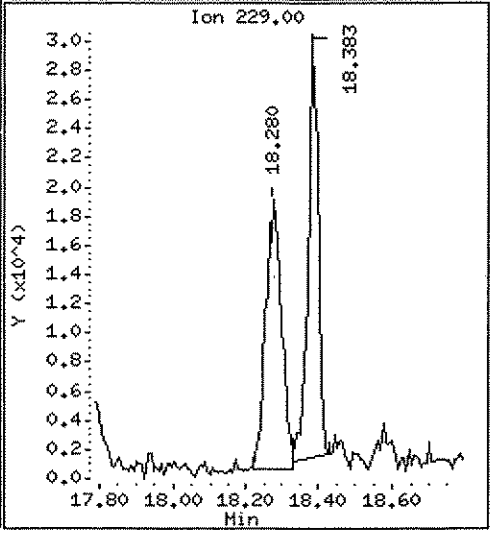












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

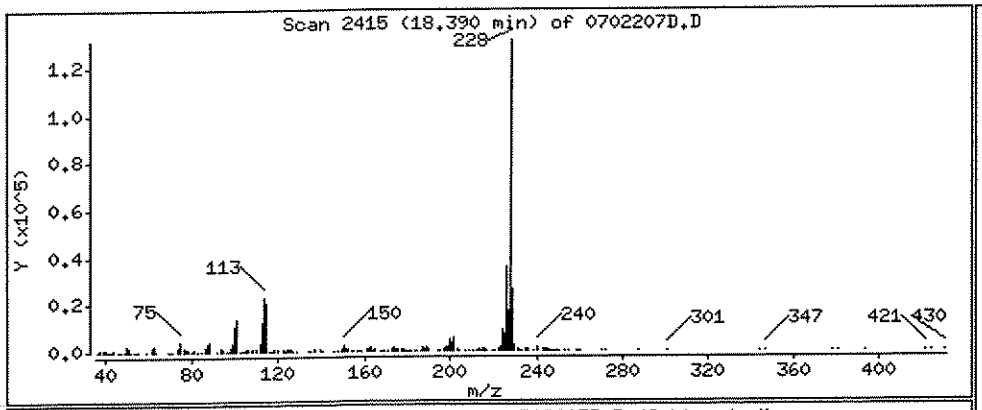
Operator: SDB

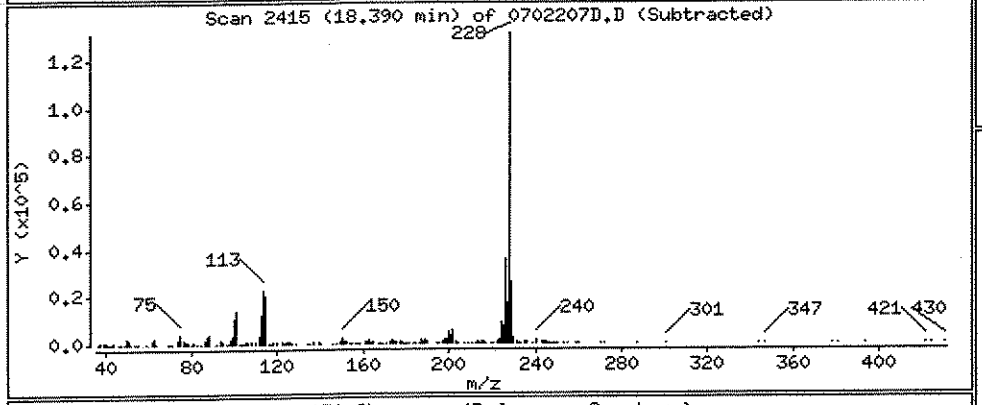
Column phase: fused silica

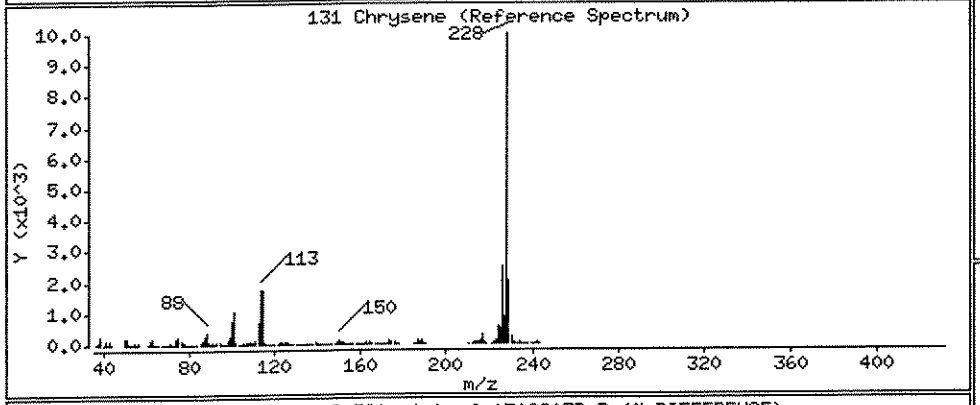
Column diameter: 0.25

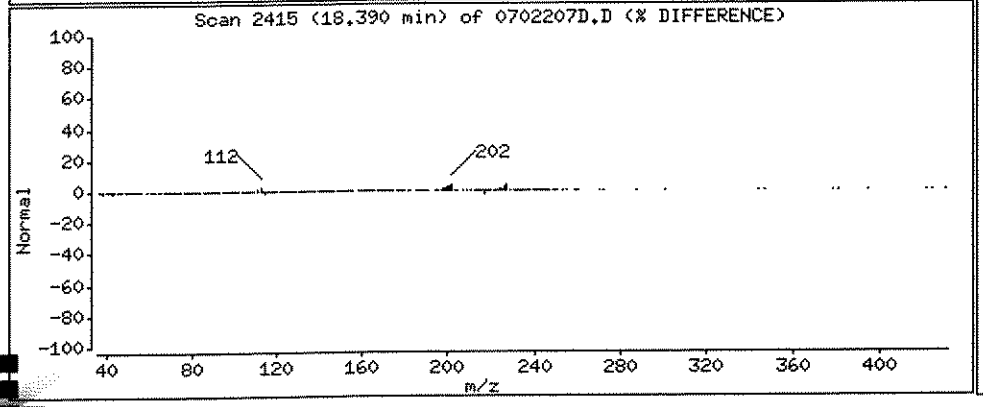
131 Chrysene

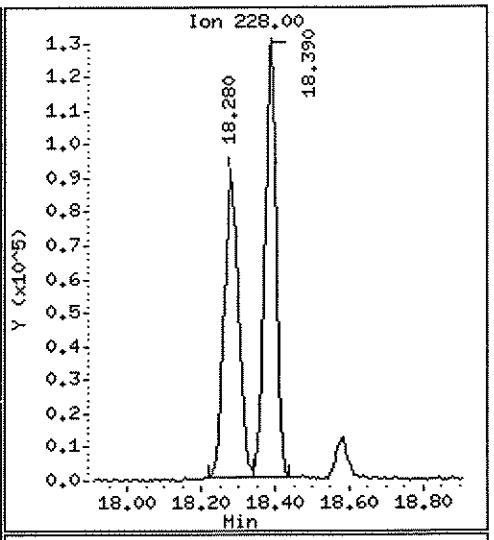
Concentration: 33980 UG/KG

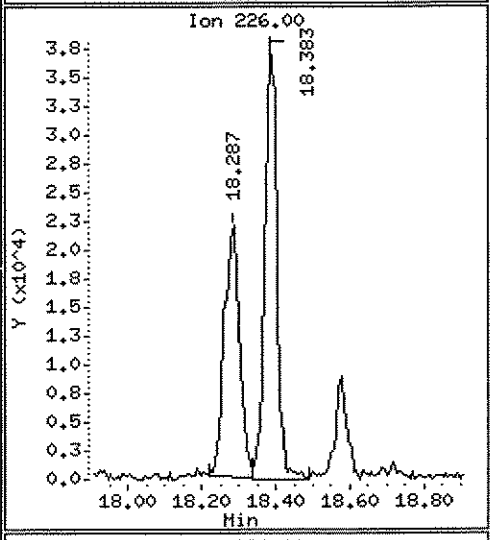


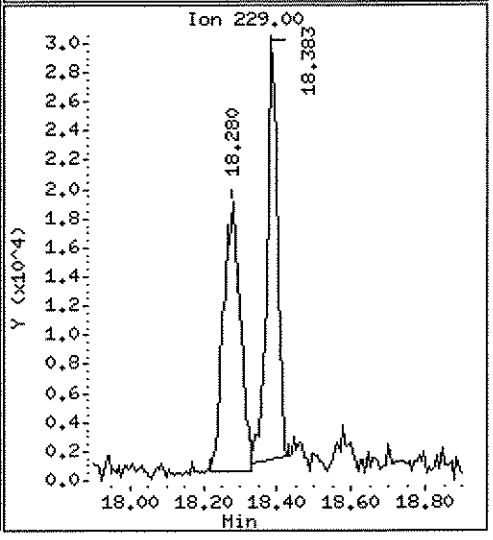












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

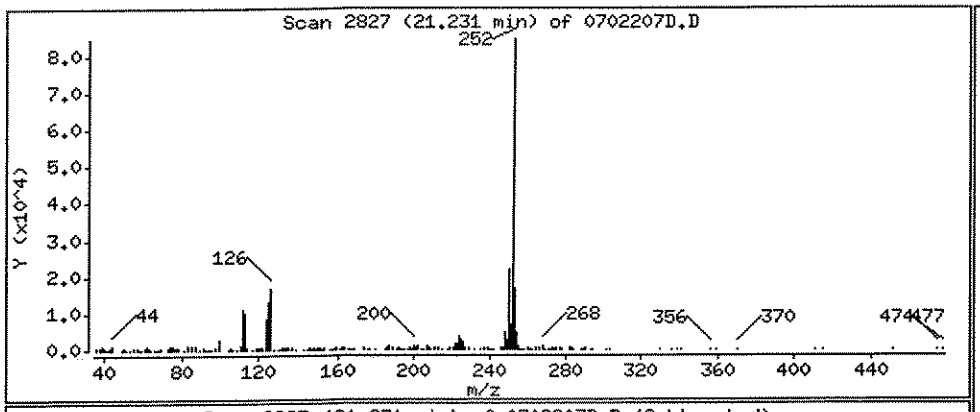
Client ID: 51CFM05S060706 Instrument: bna1.i

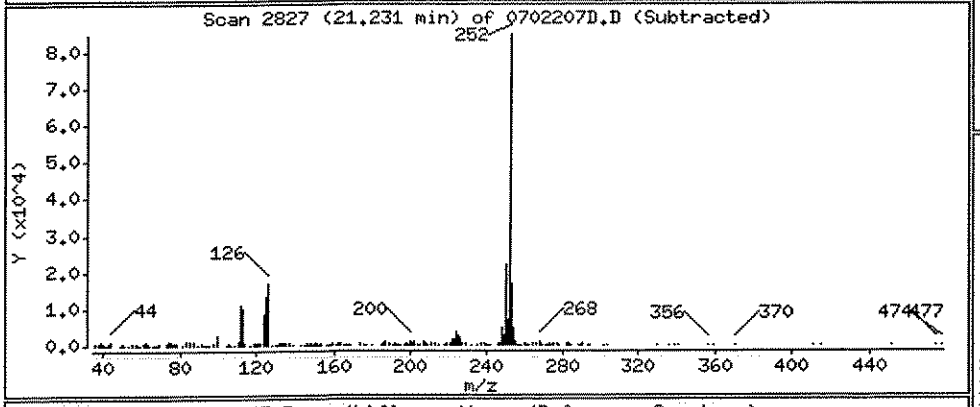
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

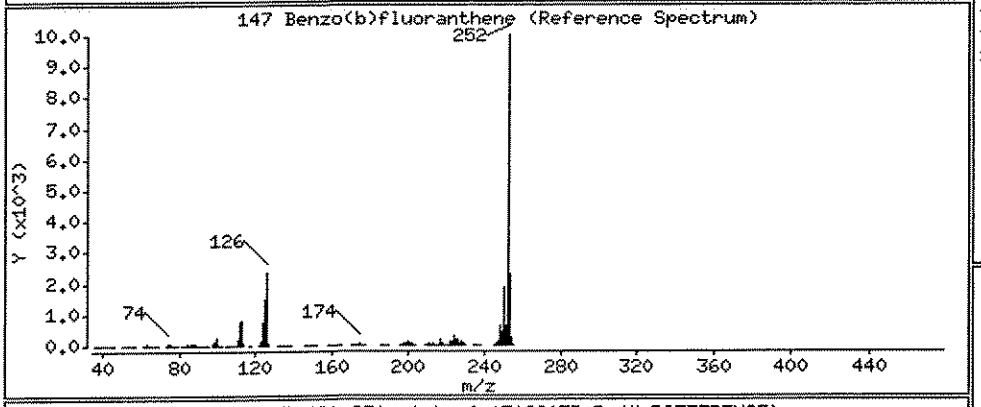
Volume Injected (uL): 0.5 Operator: SDB

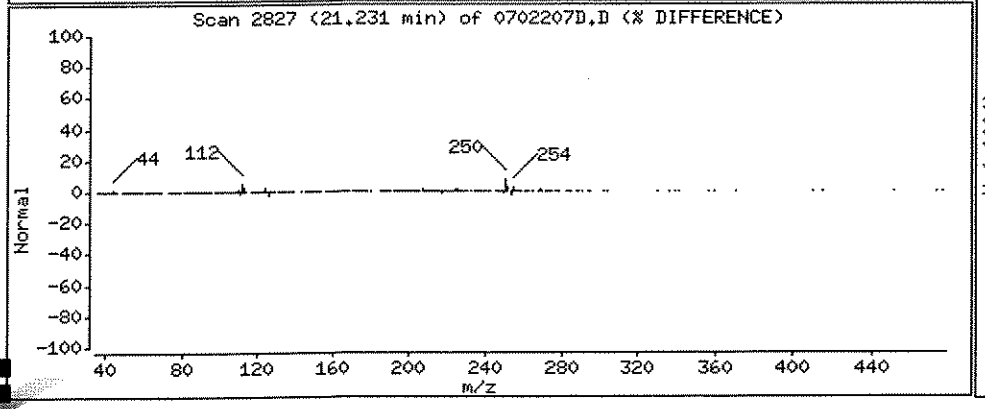
Column phase: fused silica Column diameter: 0.25

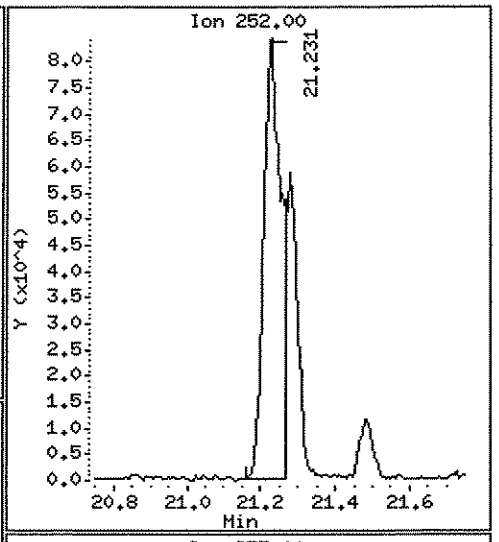
147 Benzo(b)fluoranthene Concentration: 31100 UG/KG

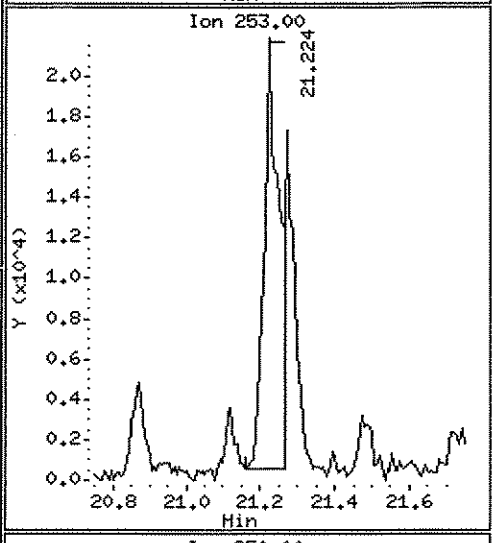


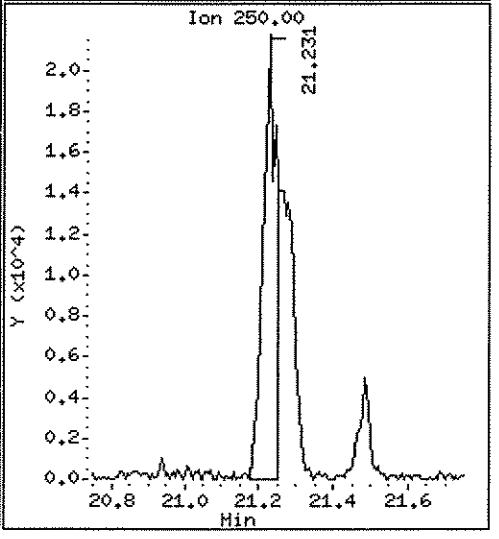












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

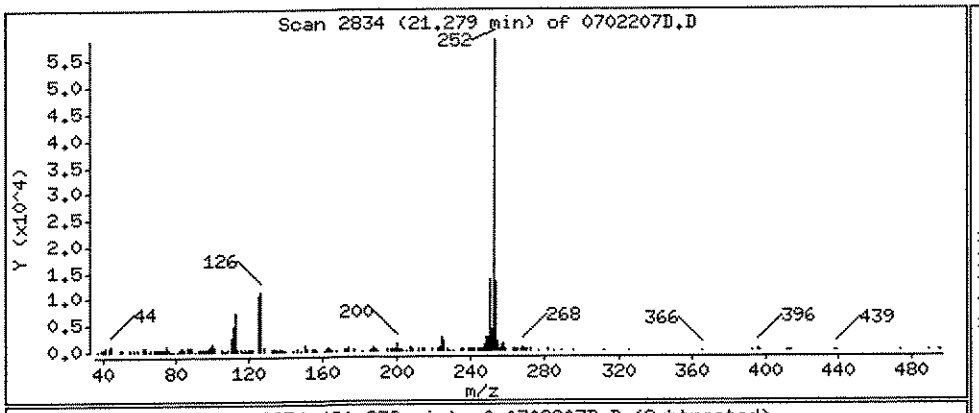
Client ID: 51CFM05S060706 Instrument: bna1.i

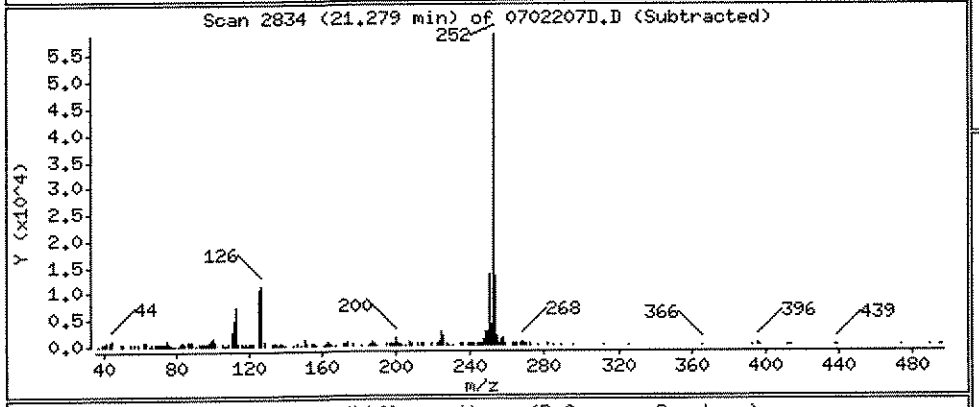
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

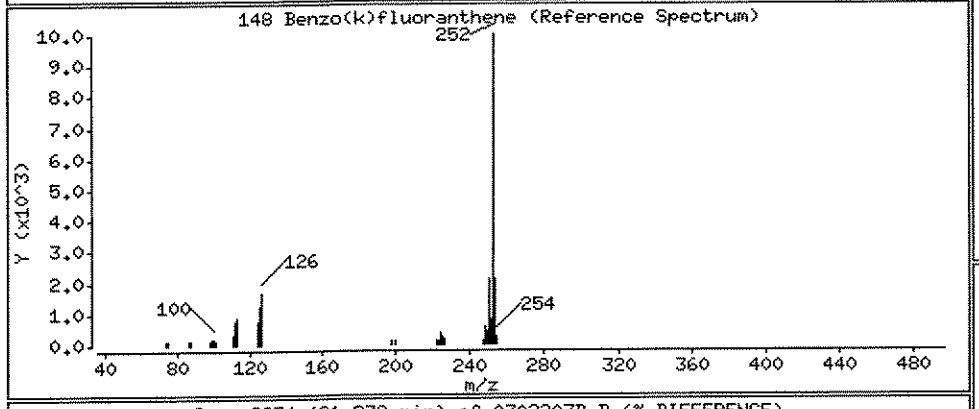
Volume Injected (uL): 0.5 Operator: SDB

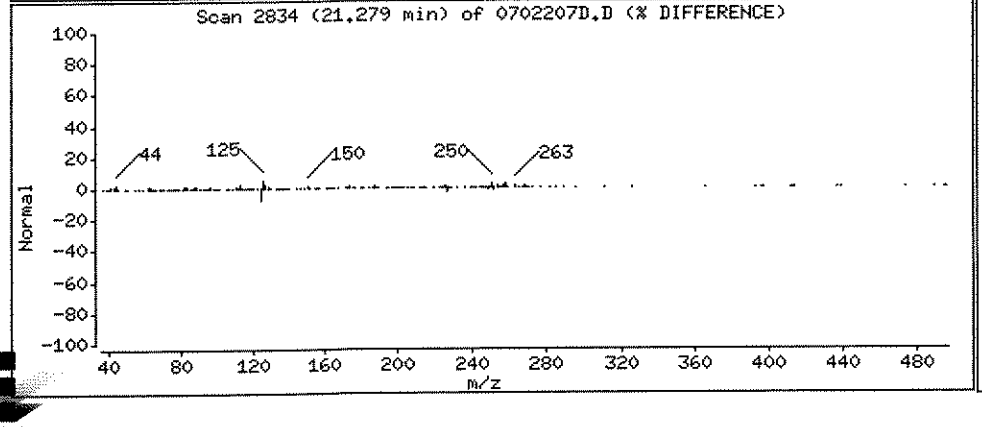
Column phase: fused silica Column diameter: 0.25

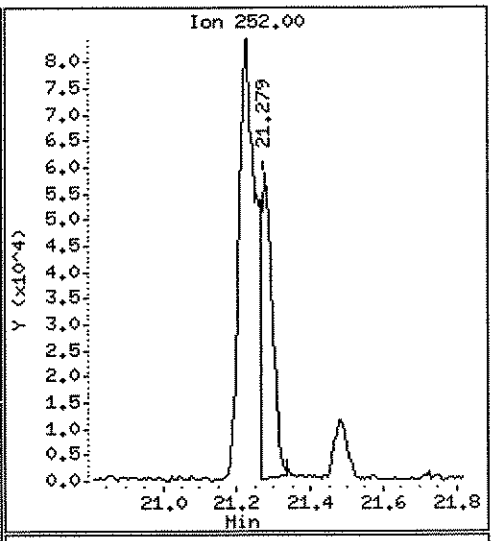
148 Benzo(k)fluoranthene Concentration: 14100 UG/KG

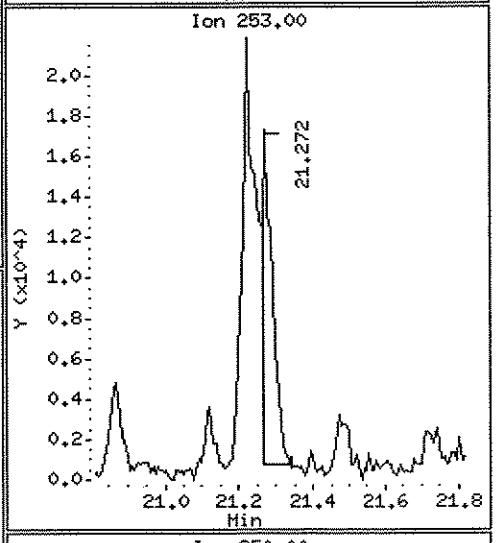


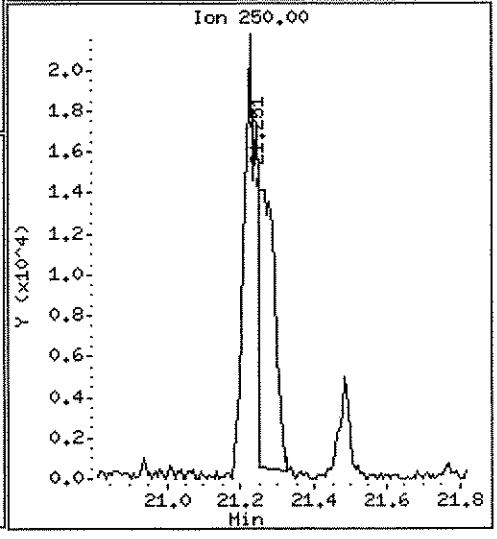












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

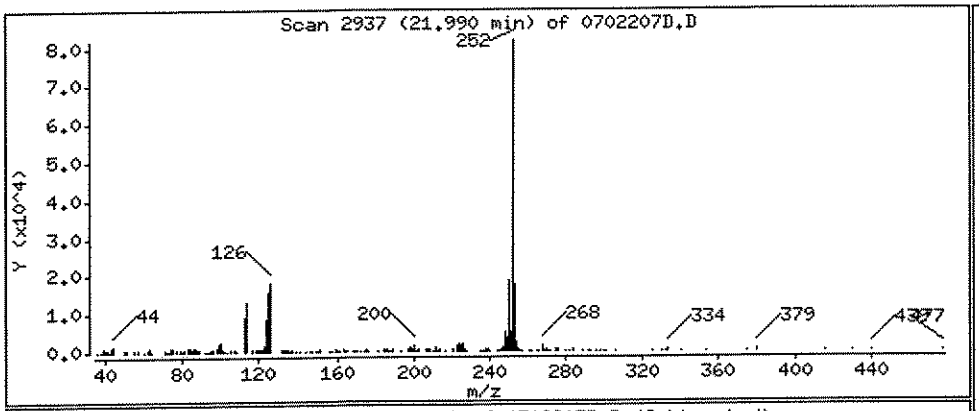
Operator: SDB

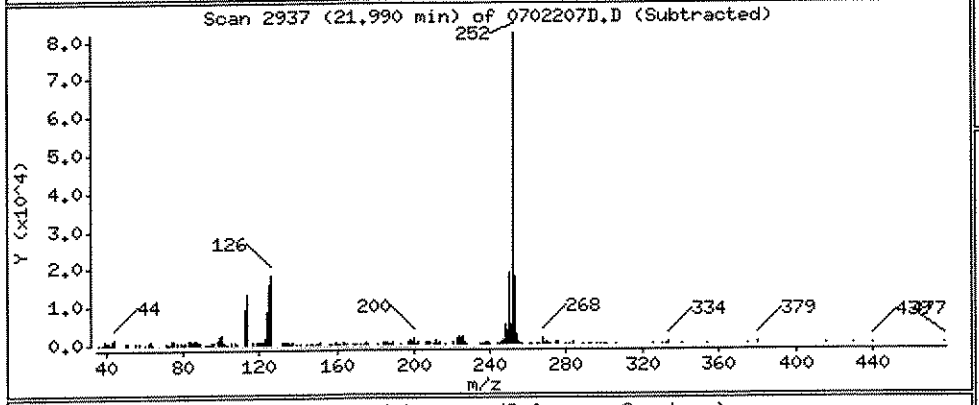
Column phase: fused silica

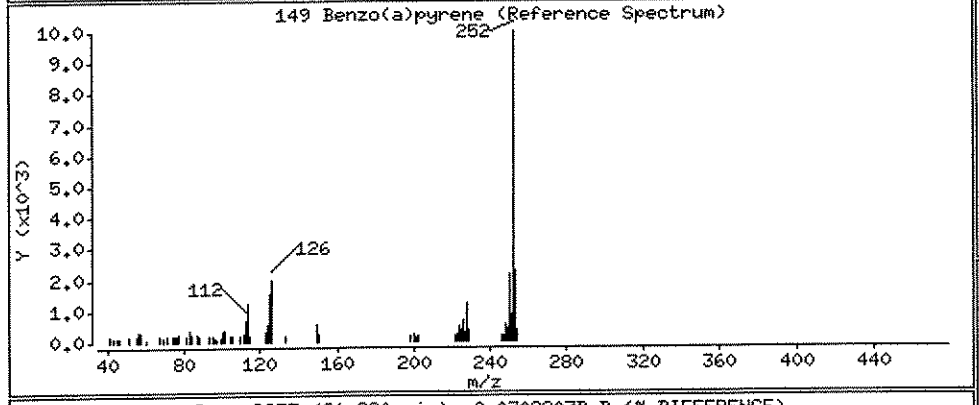
Column diameter: 0.25

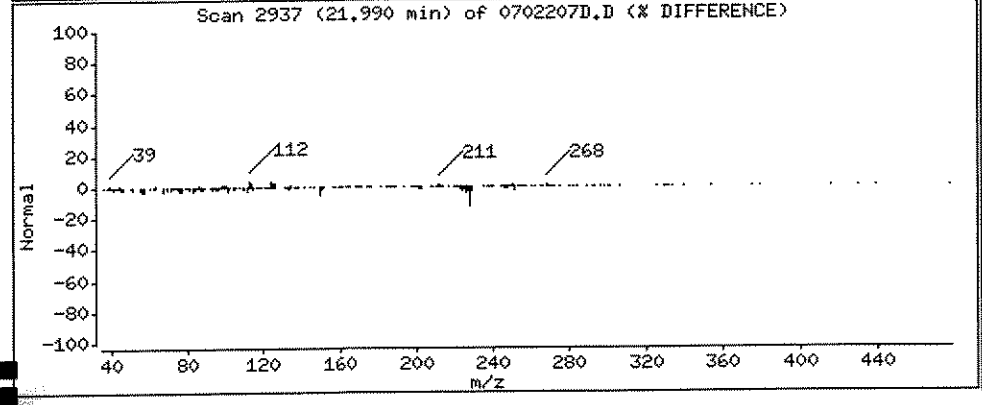
149 Benzo(a)pyrene

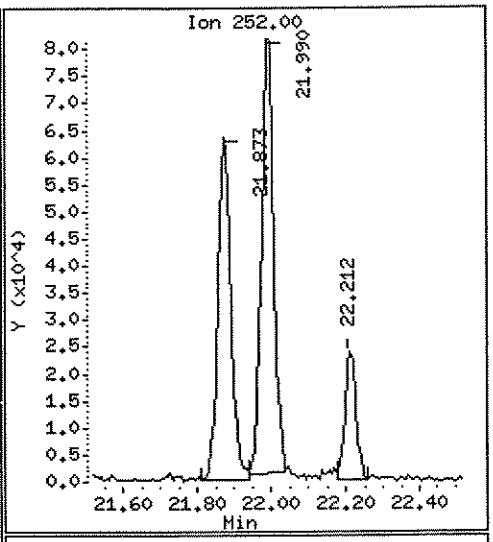
Concentration: 24330 UG/KG

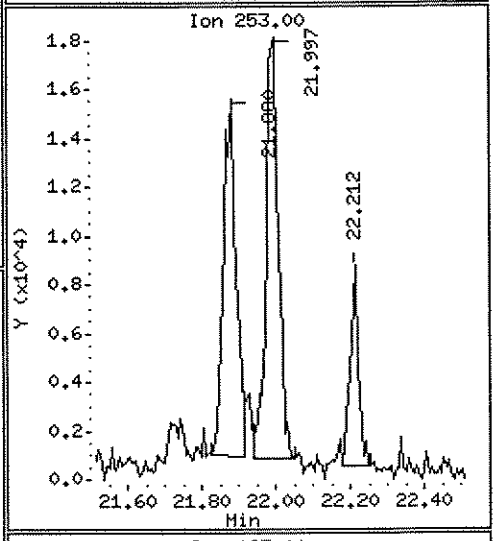


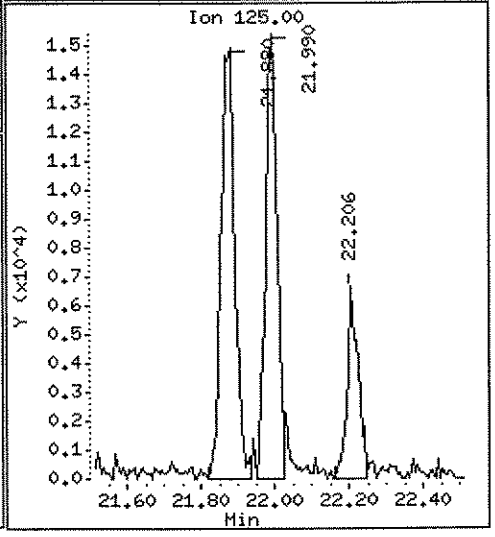












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

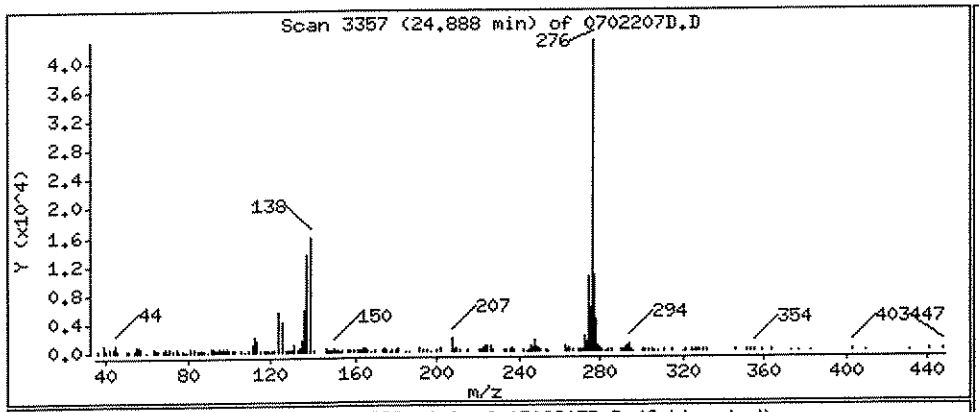
Client ID: 51CFM05S060706 Instrument: bna1.i

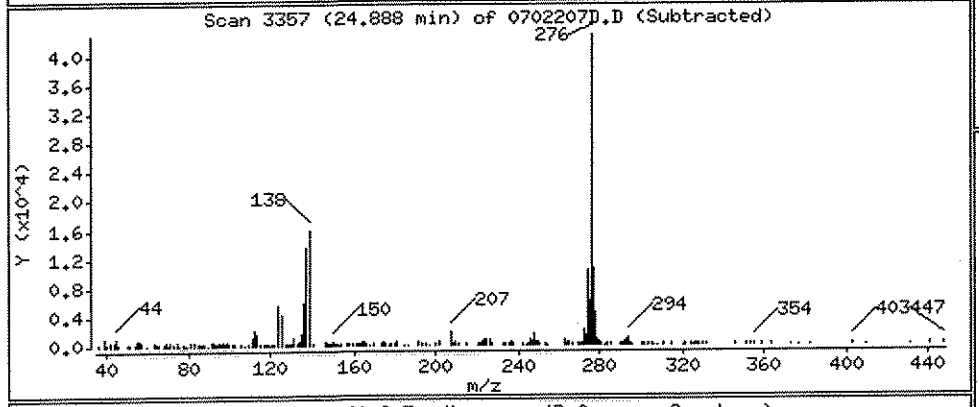
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

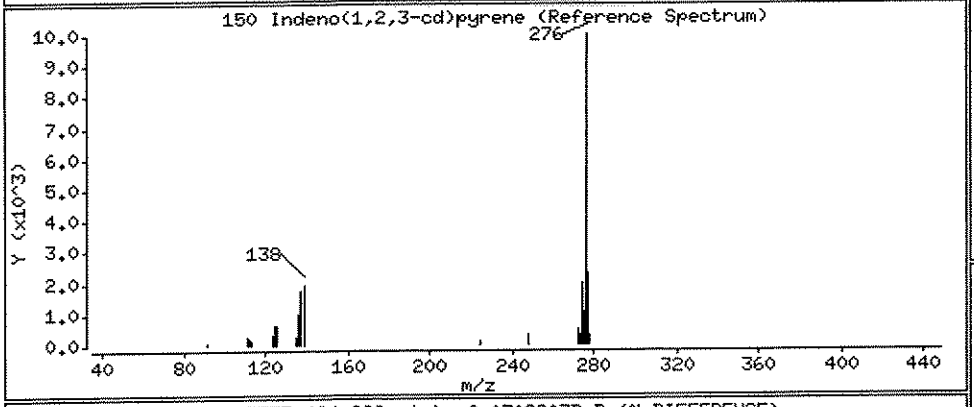
Volume Injected (uL): 0.5 Operator: SDB

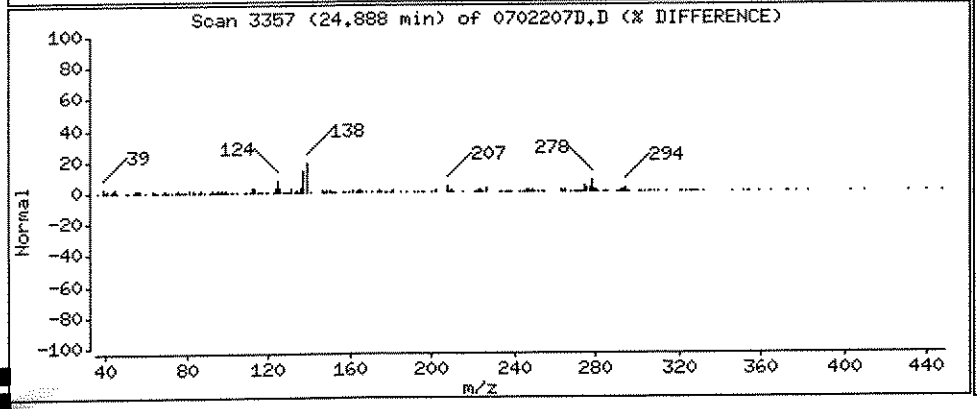
Column phase: fused silica Column diameter: 0.25

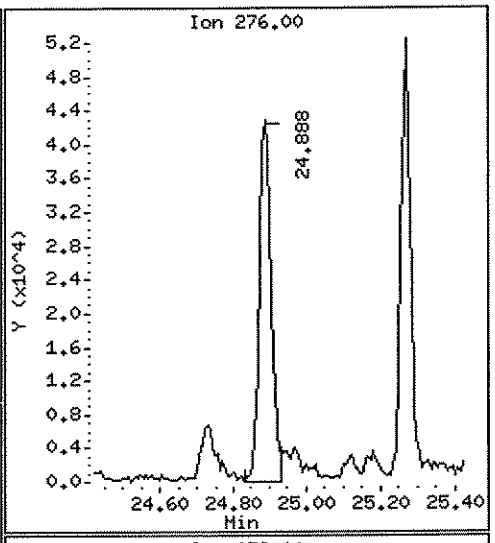
150 Indeno(1,2,3-cd)pyrene Concentration: 15270 UG/KG

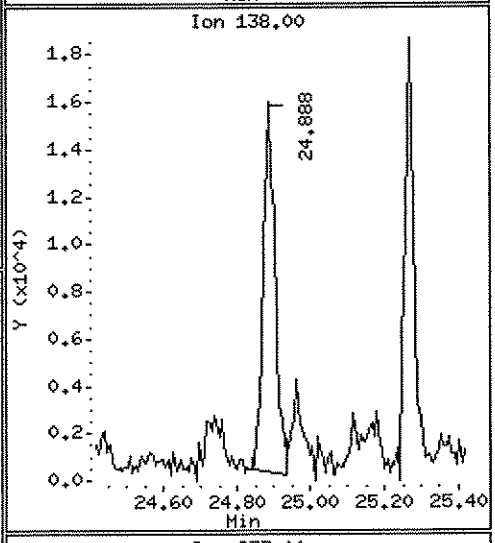


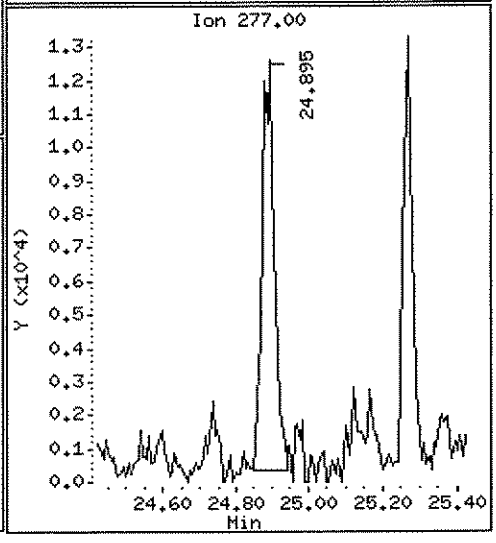












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

Client ID: 51CFM05S060706

Instrument: bna1.i

Sample Info: 0607022-07:15.1:500:1:UG/KG:10-JUL-2006

Volume Injected (uL): 0.5

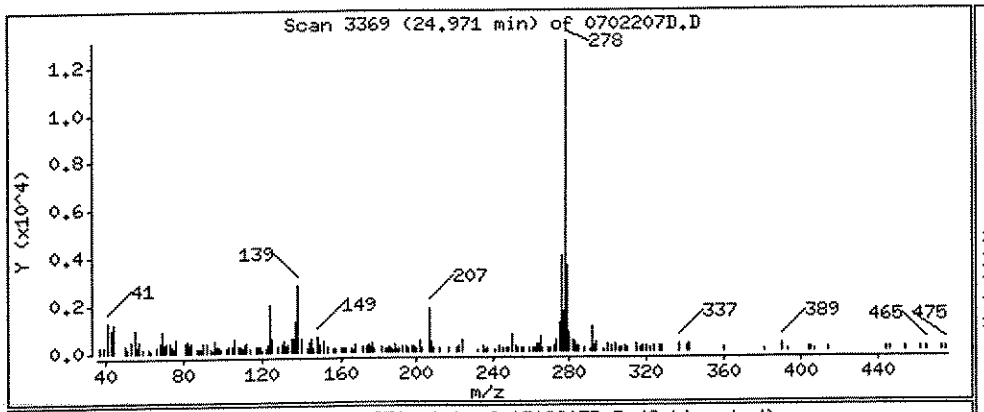
Operator: SDB

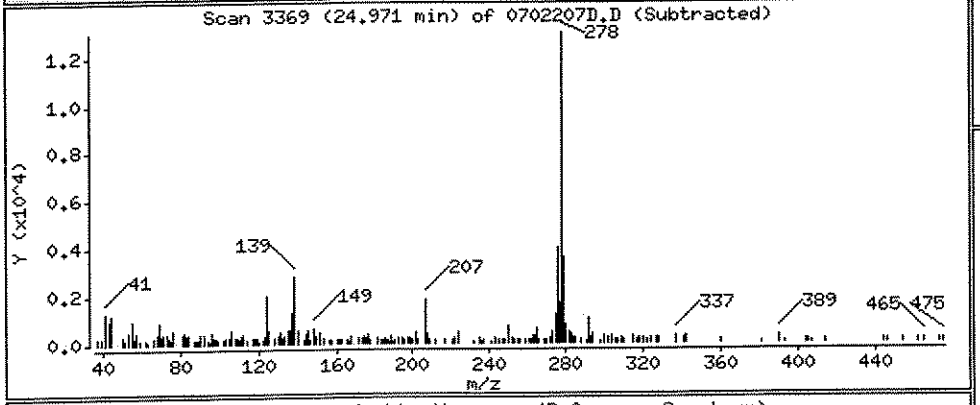
Column phase: fused silica

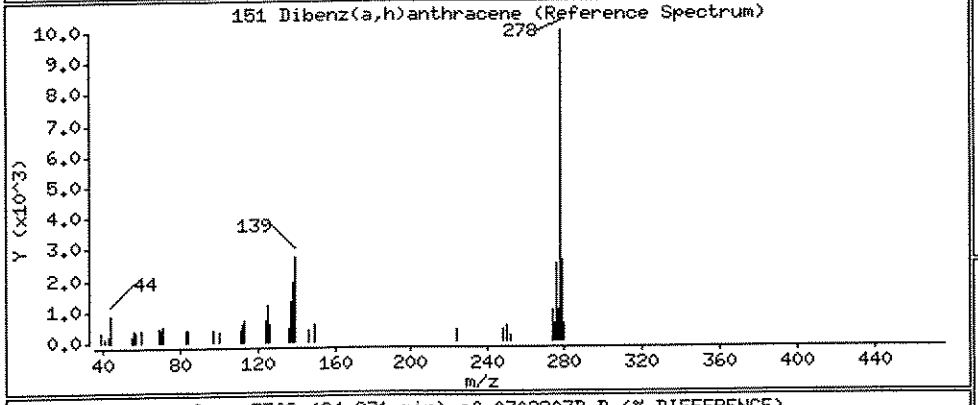
Column diameter: 0.25

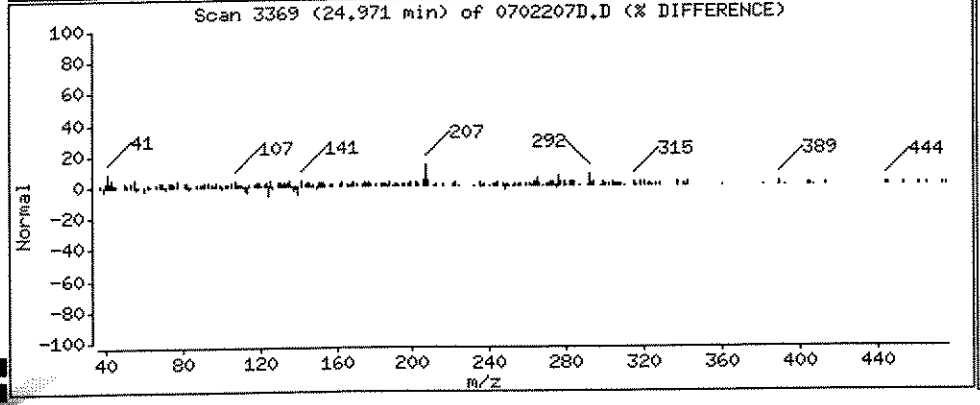
151 Dibenz(a,h)anthracene

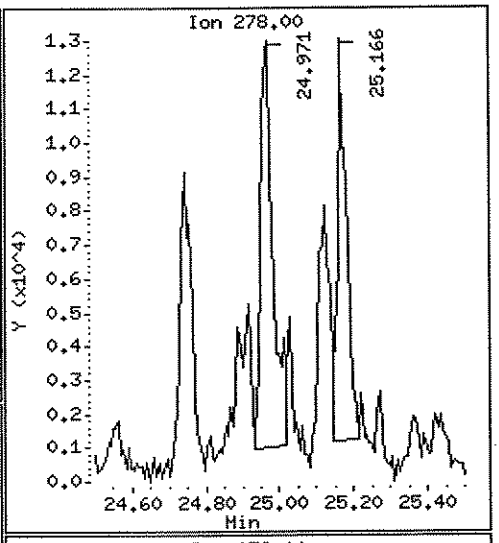
Concentration: 4383 UG/KG

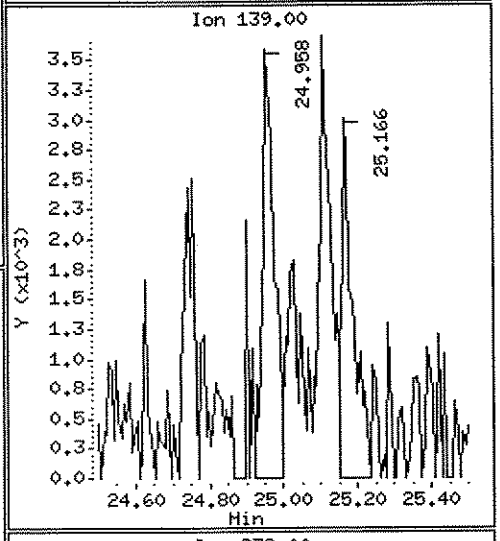


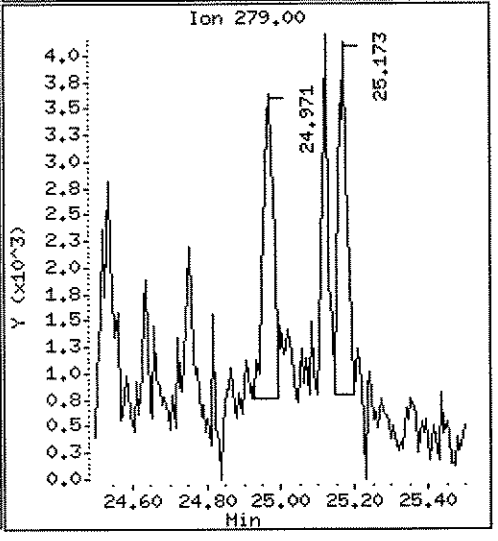












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702207D.D

Date : 11-JUL-2006 13:53

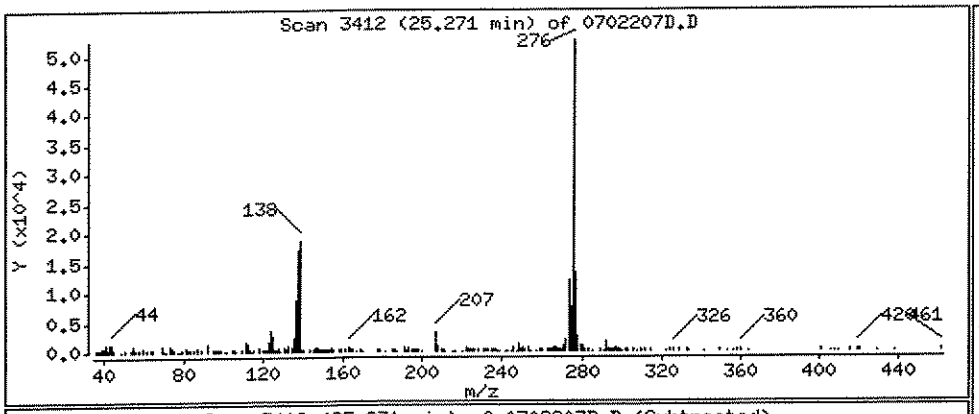
Client ID: 51CFM05S060706 Instrument: bna1.i

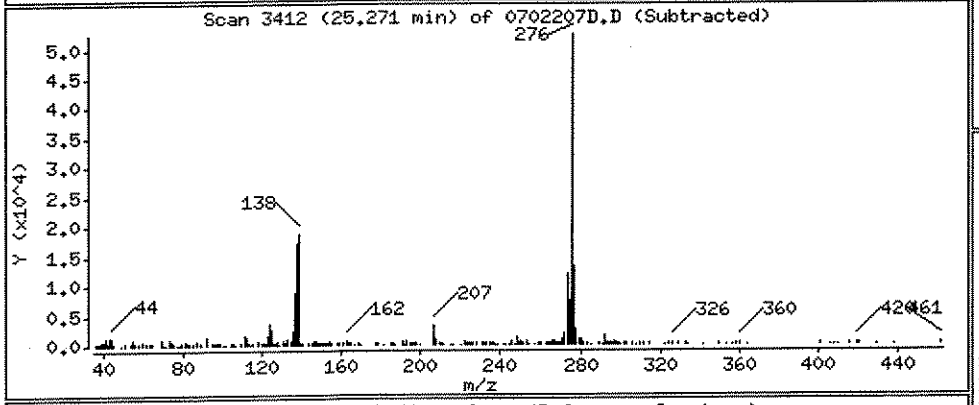
Sample Info: 0607022-07;15.1;500;1;UG/KG;10-JUL-2006

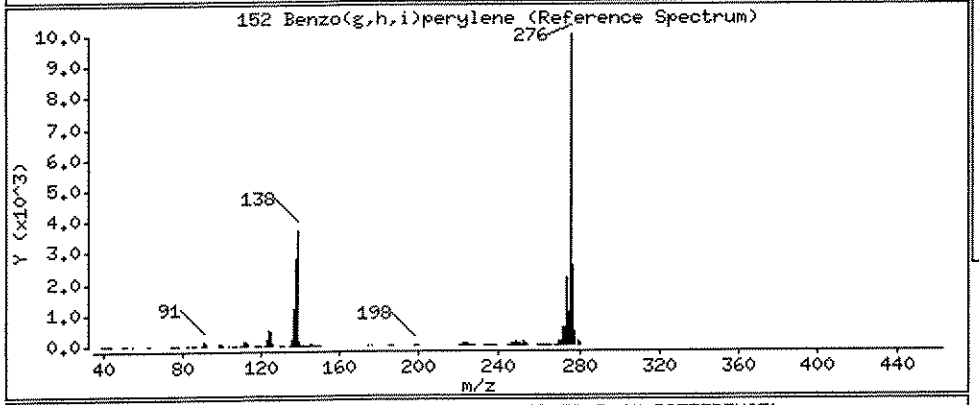
Volume Injected (uL): 0.5 Operator: SDB

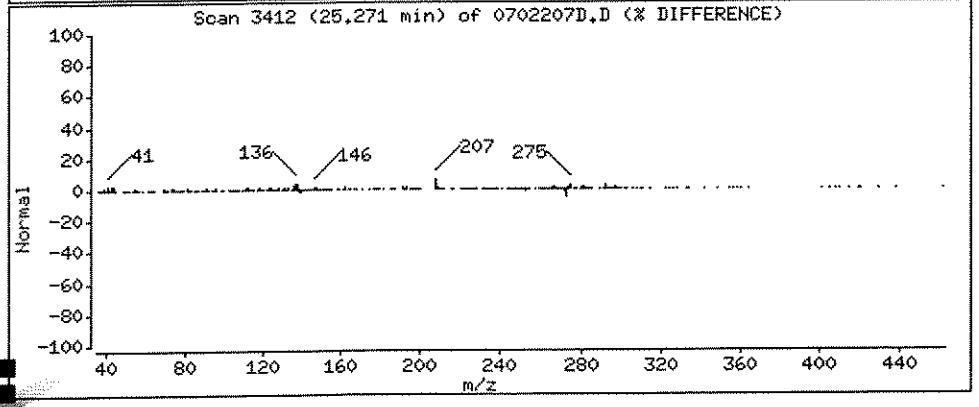
Column phase: fused silica Column diameter: 0.25

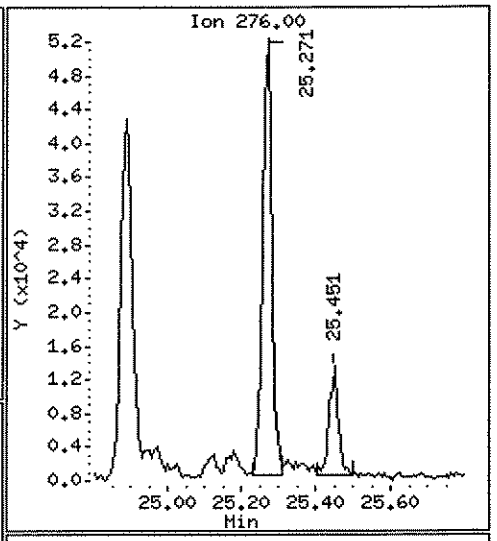
152 Benzo(g,h,i)perylene Concentration: 13680 UG/KG

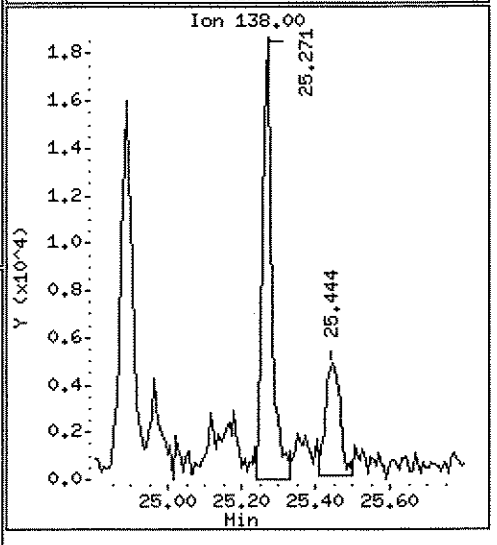












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:03

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170		U
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170		U
56-55-3	Benzo(a)anthracene	21	170		U
205-99-2	Benzo(b)fluoranthene	21	170		U
207-08-9	Benzo(k)fluoranthene	21	170		U
191-24-2	Benzo(g,h,i)perylene	21	170		U
50-32-8	Benzo(a)pyrene	21	100		U
218-01-9	Chrysene	21	170		U
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	170		U
86-73-7	Fluorene	21	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	170		U
91-57-6	2-Methylnaphthalene	21	170		U
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170		U
129-00-0	Pyrene	21	170		U

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Lab Smp Id: 0607022-08 Client Smp ID: 51CFM06S060706
Inj Date : 10-JUL-2006 18:03
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

7/11/06 (1000 low, 2

7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.277	4.276	(1.000)	498939	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	1742860	40.0000	
$ 32 Nitrobenzene-d5	82	4.702	4.709	(0.891)	1169183	61.4534	2135
* 65 Acenaphthene-d10	164	7.714	7.719	(1.000)	860611	40.0000	
$ 70 2-Fluorobiphenyl	172	6.614	6.617	(0.857)	1541865	56.2984	1956
* 97 Phenanthrene-d10	188	11.015	11.020	(1.000)	1078920	40.0000	
* 124 Chrysene-d12	240	18.432	18.441	(1.000)	369663	40.0000	
$ 127 Terphenyl-d14	244	15.656	15.647	(0.849)	999322	107.057	3720(A)
* 145 Perylene-d12	264	22.268	22.273	(1.000)	198523	40.0000	

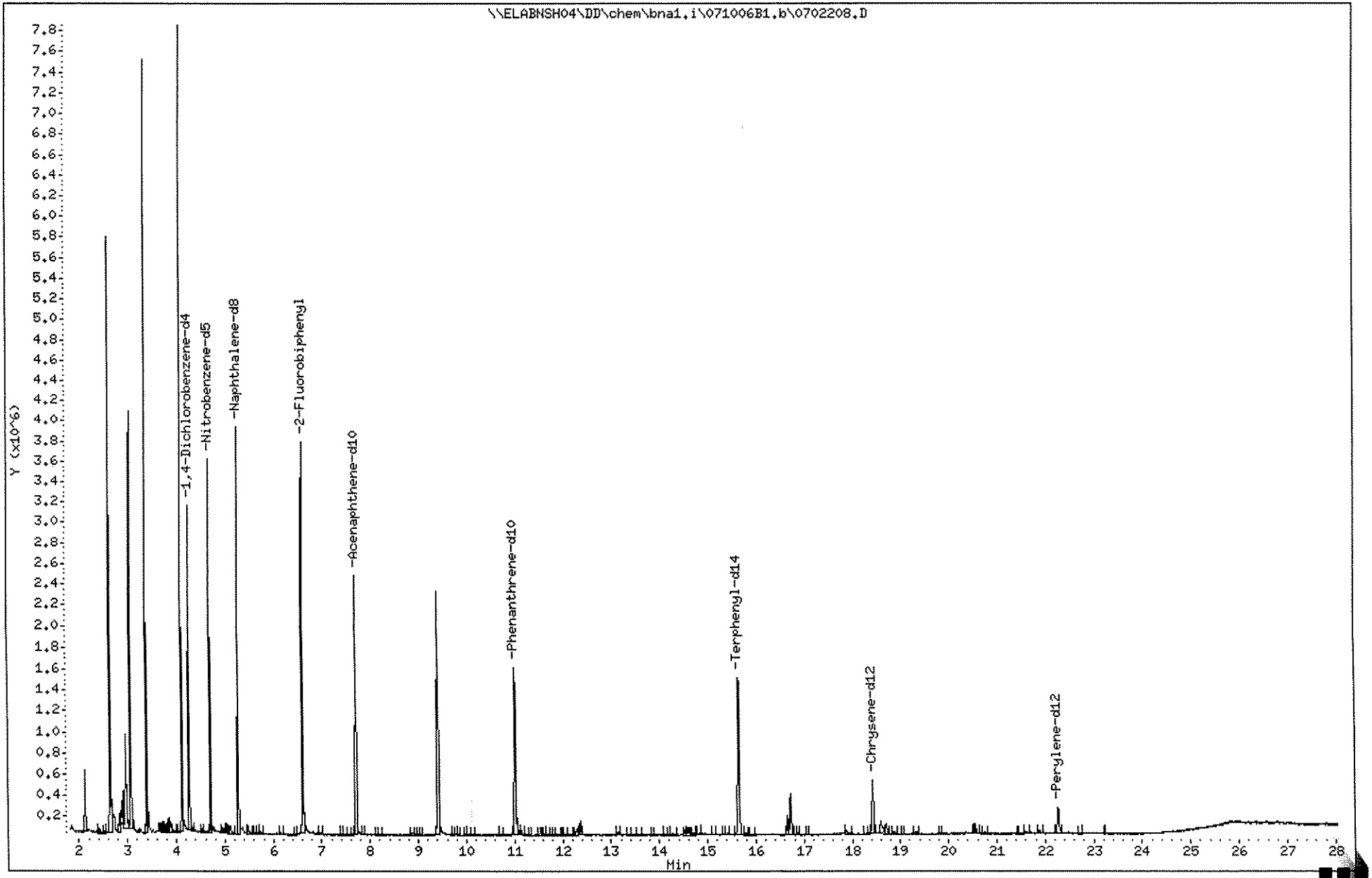
Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Report Date: 11-Jul-2006 13:57

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702208.D
Date : 10-JUL-2006 18:03
Client ID: 51CFM06S060706
Instrument: bna1.i
Sample Info: 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000225



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0702208D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:06

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350		UD
56-55-3	Benzo(a)anthracene	42	350		UD
205-99-2	Benzo(b)fluoranthene	42	350		UD
207-08-9	Benzo(k)fluoranthene	42	350		UD
191-24-2	Benzo(g,h,i)perylene	42	350		UD
50-32-8	Benzo(a)pyrene	42	210		UD
218-01-9	Chrysene	42	350		UD
53-70-3	Dibenz(a,h)anthracene	42	210		UD
206-44-0	Fluoranthene	42	350		UD
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350		UD
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	100	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350		UD
129-00-0	Pyrene	42	350		UD

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Lab Smp Id: 0607022-08 Client Smp ID: 51CFM06S060706
Inj Date : 11-JUL-2006 12:06
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.300	Percent Solids

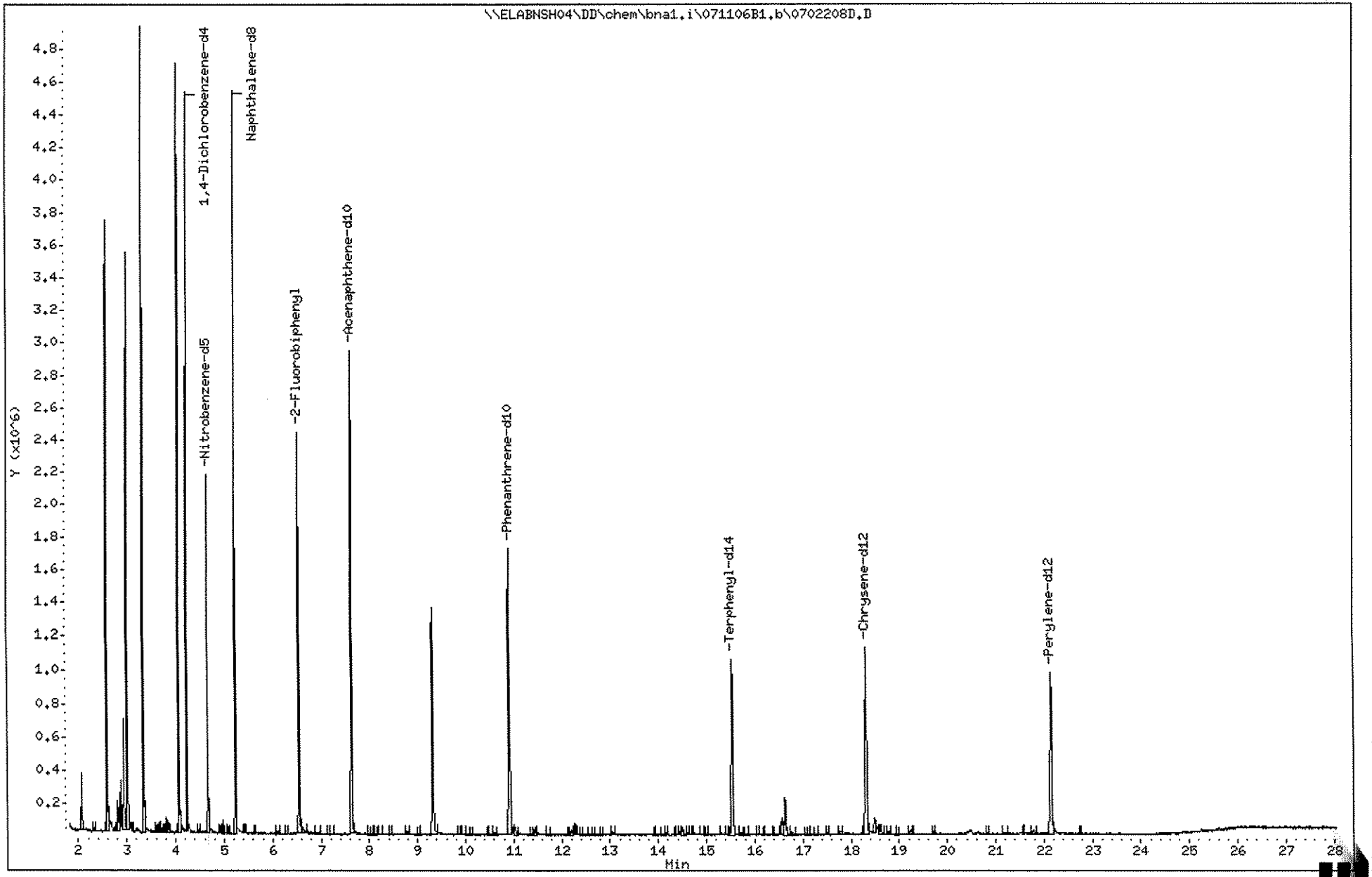
7/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.236	4.235	(1.000)	561867	40.0000	
* 31 Naphthalene-d8	136	5.232	5.240	(1.000)	1957507	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.891)	691492	32.3601	2249
* 65 Acenaphthene-d10	164	7.636	7.641	(1.000)	954793	40.0000	
$ 70 2-Fluorobiphenyl	172	6.548	6.555	(0.858)	890149	29.2961	2036
* 97 Phenanthrene-d10	188	10.919	10.923	(1.000)	1198277	40.0000	
* 124 Chrysene-d12	240	18.315	18.333	(1.000)	833738	40.0000	
$ 127 Terphenyl-d14	244	15.540	15.545	(0.848)	690844	32.8146	2280
* 145 Perylene-d12	264	22.157	22.175	(1.000)	770123	40.0000	

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702208D.D
Date : 11-JUL-2006 12:06
Client ID: 51CFM06S060706
Instrument: bna1.i
Sample Info: 0607022-08;15.1;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000228



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 18:38

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	1100	
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	1400	
56-55-3	Benzo(a)anthracene	20	170	4800	E
205-99-2	Benzo(b)fluoranthene	20	170	6000	E
207-08-9	Benzo(k)fluoranthene	20	170	3400	E
191-24-2	Benzo(g,h,i)perylene	20	170	1700	
50-32-8	Benzo(a)pyrene	20	100	4700	E
218-01-9	Chrysene	20	170	6100	E
53-70-3	Dibenz(a,h)anthracene	20	100	590	
206-44-0	Fluoranthene	20	170	7100	E
86-73-7	Fluorene	20	170	950	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1900	
91-57-6	2-Methylnaphthalene	20	170	300	
90-12-0	1-Methylnaphthalene	50	170	180	
91-20-3	Naphthalene	20	170	120	J
85-01-8	Phenanthrene	20	170	7400	E
129-00-0	Pyrene	20	170	13000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Report Date: 11-Jul-2006 13:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 10-JUL-2006 18:38
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.271	4.276	(1.000)	424515	40.0000	
*	31 Naphthalene-d8	136	5.282	5.287	(1.000)	1484378	40.0000	
$	32 Nitrobenzene-d5	82	4.704	4.709	(0.891)	978764	60.4031	2036
	47 Naphthalene	128	5.296	5.307	(1.003)	131253	3.55640	119.9(a)
	51 2-Methylnaphthalene	141	6.054	6.062	(1.146)	192164	9.06149	305.4
	52 1-Methylnaphthalene	141	6.192	6.203	(1.172)	107105	5.29067	178.3
*	65 Acenaphthene-d10	164	7.709	7.719	(1.000)	732415	40.0000	
$	70 2-Fluorobiphenyl	172	6.614	6.617	(0.858)	1342465	57.5974	1941
	76 Acenaphthene	153	7.771	7.781	(1.008)	665307	31.4747	1061
	84 Fluorene	166	8.806	8.814	(1.142)	638603	28.2467	952.0
*	97 Phenanthrene-d10	188	11.026	11.020	(1.000)	820238	40.0000	
	106 Phenanthrene	178	11.116	11.082	(1.008)	5137213	219.663	7403(A)
	107 Anthracene	178	11.207	11.192	(1.016)	969086	41.9719	1415

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Report Date: 11-Jul-2006 13:58

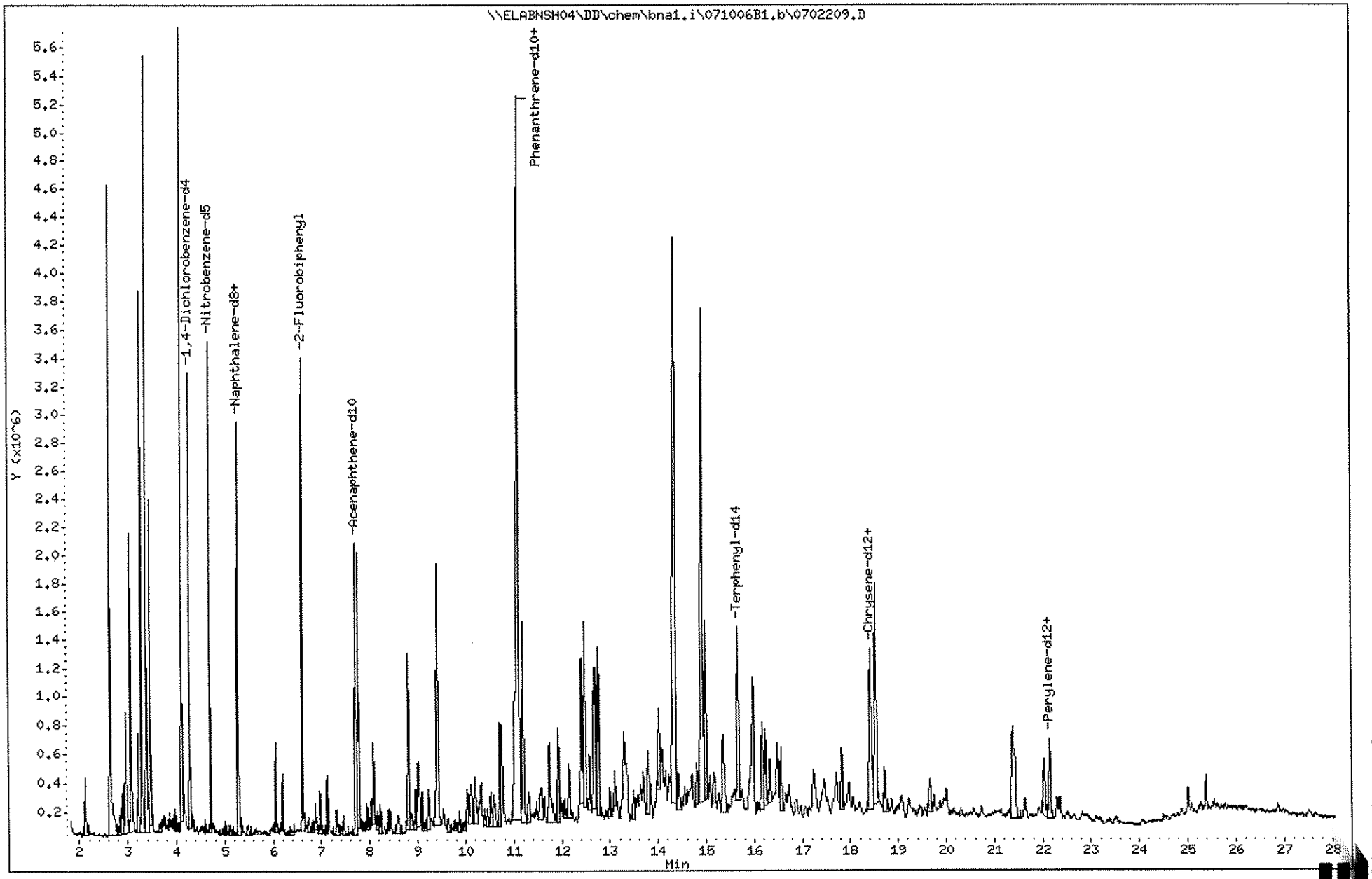
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)	
110 Fluoranthene	202	14.370	14.296	(1.303)	4882933	210.891	7108(A)	OCM
* 124 Chrysene-d12	240	18.467	18.441	(1.000)	244512	40.0000		
126 Pyrene	202	14.942	14.878	(0.809)	3865653	395.870	13340(A)	OCM
$ 127 Terphenyl-d14	244	15.668	15.647	(0.848)	637775	103.296	3481(A)	
130 Benzo(a)anthracene	228	18.432	18.400	(0.998)	1119431	142.092	4789(A)	OCM
131 Chrysene	228	18.551	18.510	(1.005)	1297117	180.266	6076(A)	OCM
* 145 Perylene-d12	264	22.298	22.273	(1.000)	129670	40.0000		
147 Benzo(b)fluoranthene	252	21.387	21.352	(0.959)	717736	179.686	6056(AM)	OCM
148 Benzo(k)fluoranthene	252	21.429	21.421	(0.961)	424495	102.431	3452(AM)	
149 Benzo(a)pyrene	252	22.158	22.121	(0.994)	482329	140.033	4720(A)	OCM
150 Indeno(1,2,3-cd)pyrene	276	25.016	24.990	(1.122)	168448	57.3207	1932	
151 Dibenz(a,h)anthracene	278	25.087	25.065	(1.125)	51814	17.5139	590.3	
152 Benzo(g,h,i)perylene	276	25.383	25.361	(1.138)	150900	49.4817	1668	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D
Date : 10-JUL-2006 18:38
Client ID: 51CFM07S060706
Instrument: bna1.i
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000232



Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

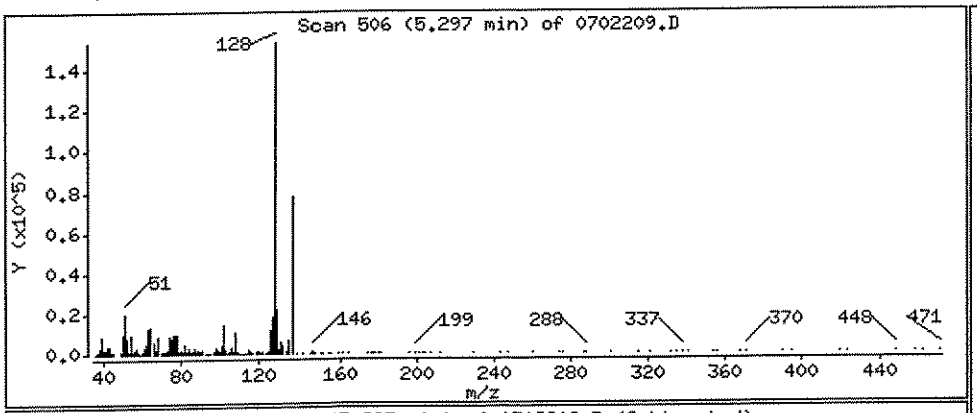
Operator: SDB

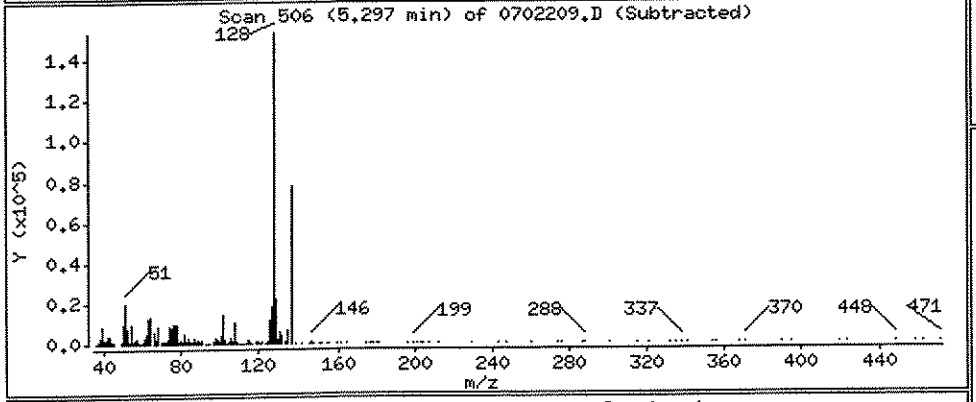
Column phase: fused silica

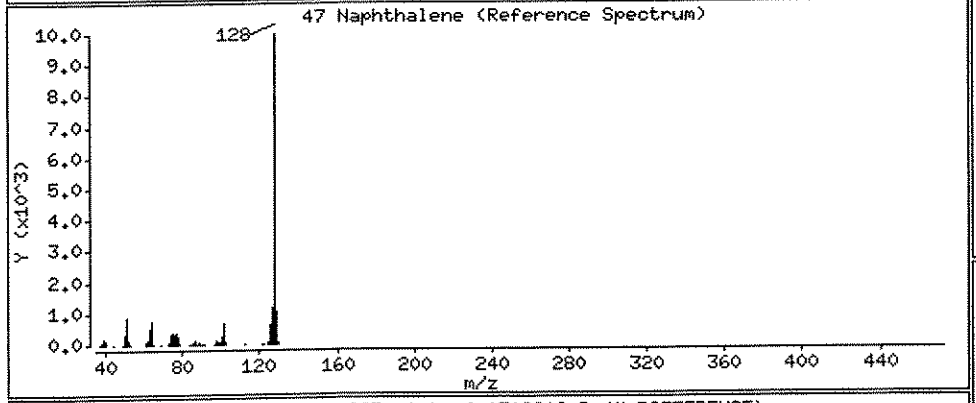
Column diameter: 0.25

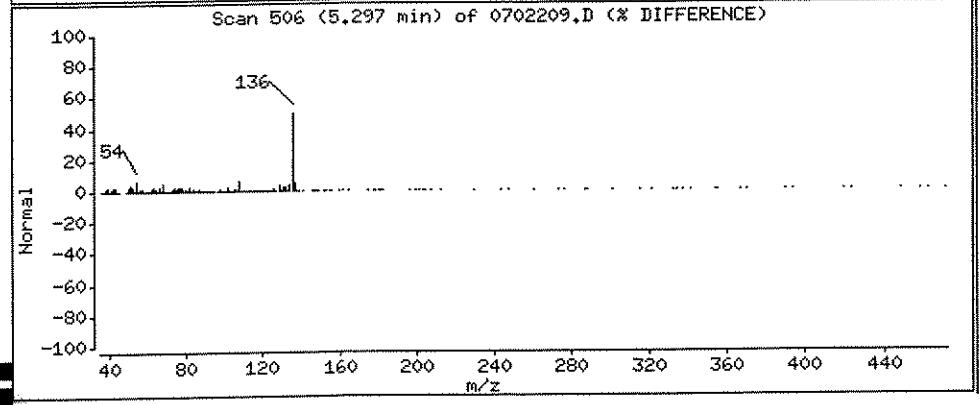
47 Naphthalene

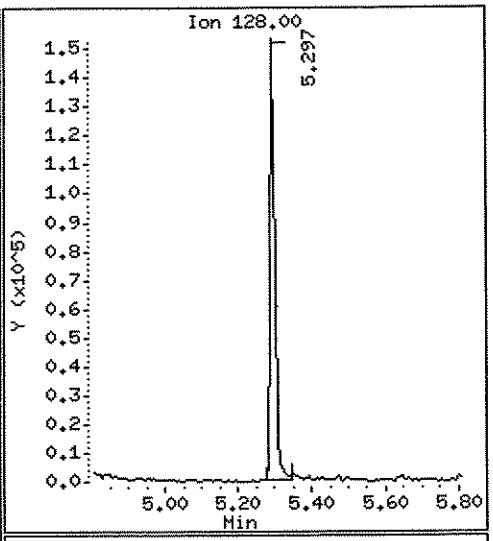
Concentration: 119.9 UG/KG

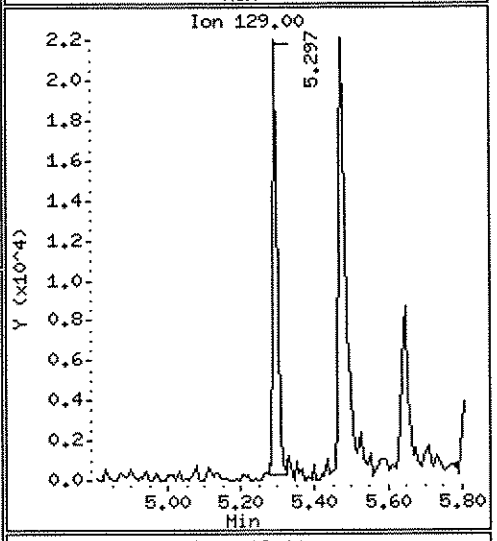


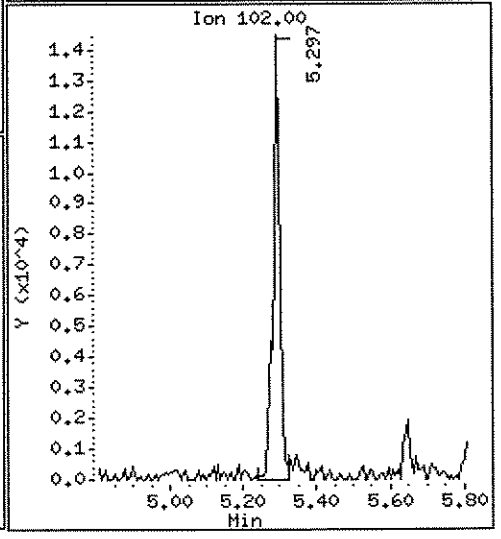












Empirical Laboratories

000233

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

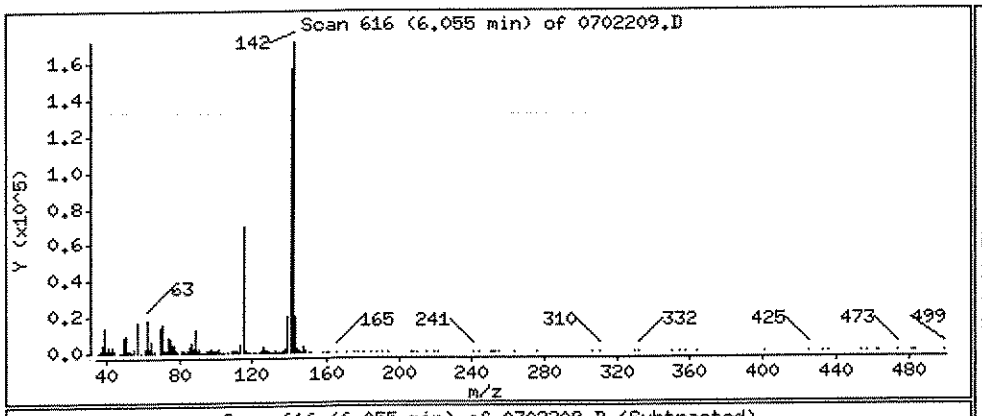
Client ID: 51CFM07S060706 Instrument: bna1.i

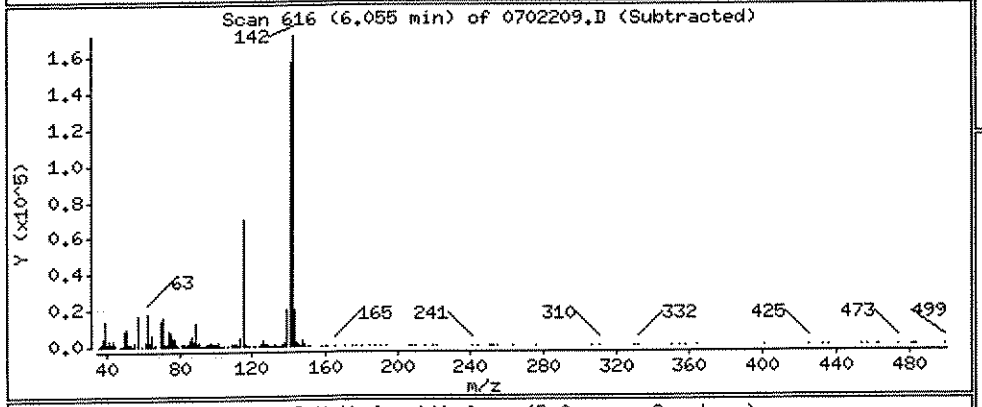
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

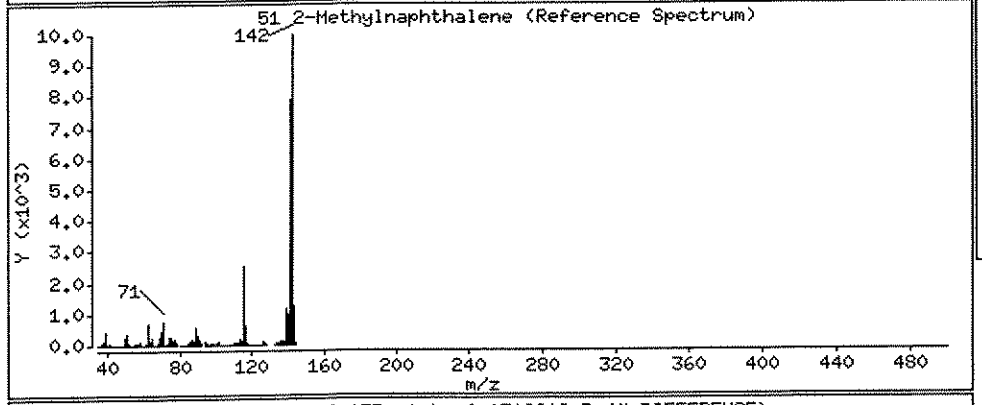
Volume Injected (uL): 0.5 Operator: SDB

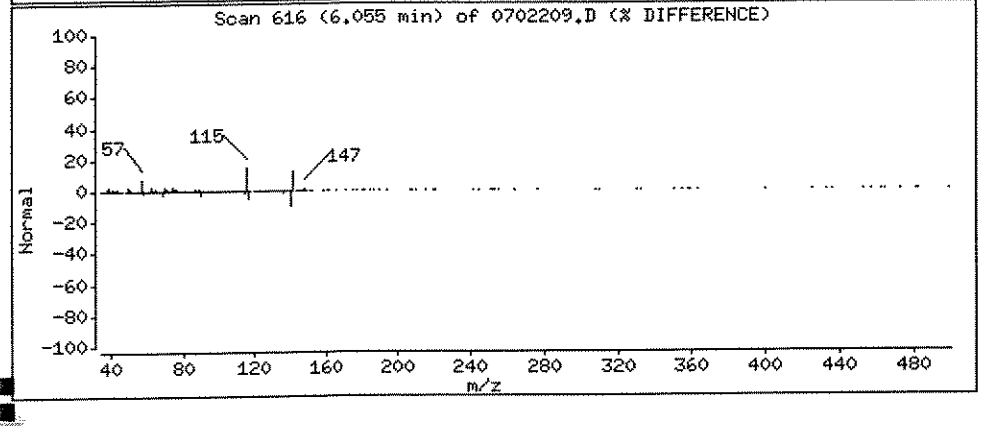
Column phase: fused silica Column diameter: 0.25

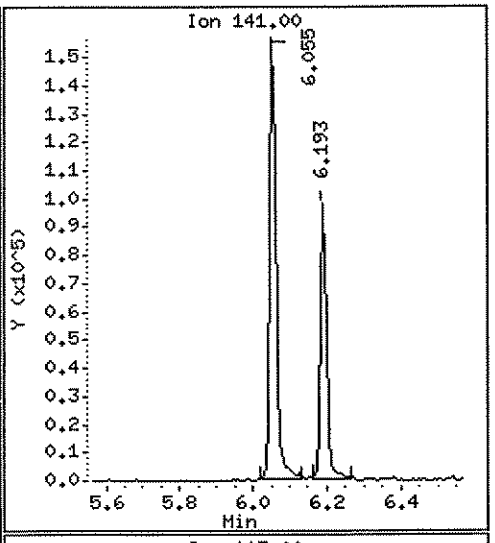
51 2-Methylnaphthalene Concentration: 305.4 UG/KG

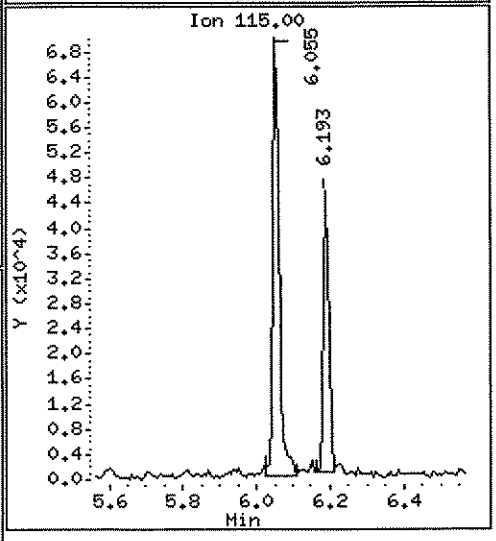












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

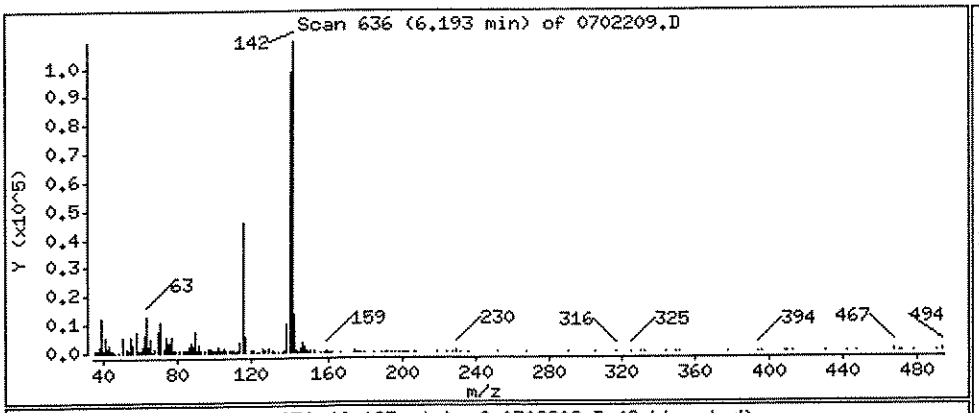
Client ID: 51CFM07S060706 Instrument: bna1.i

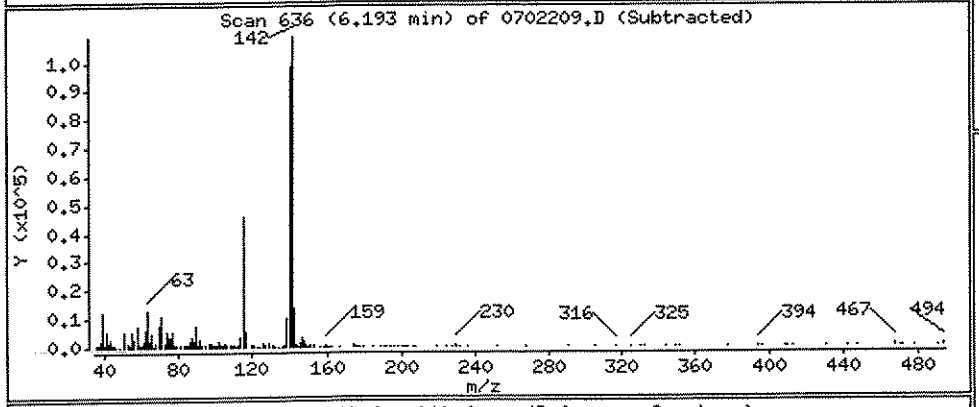
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

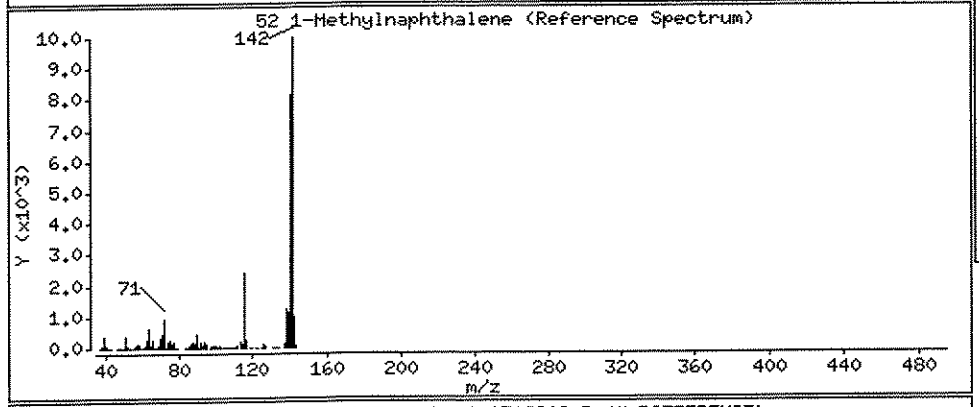
Volume Injected (uL): 0.5 Operator: SDB

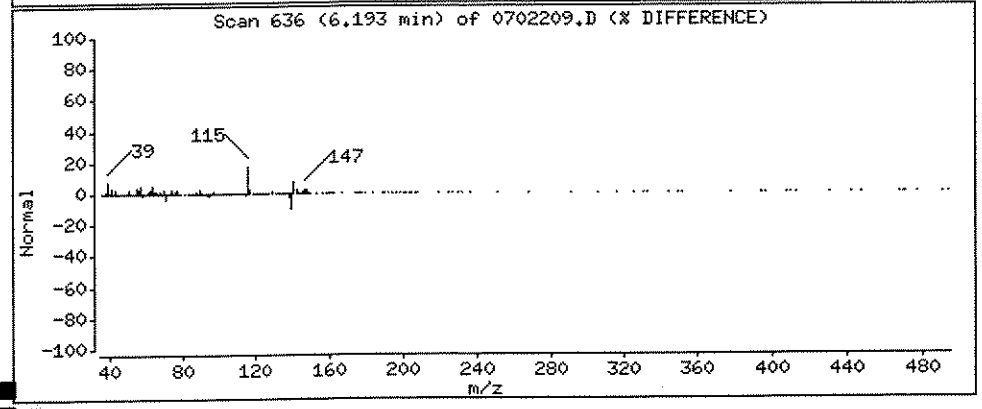
Column phase: fused silica Column diameter: 0.25

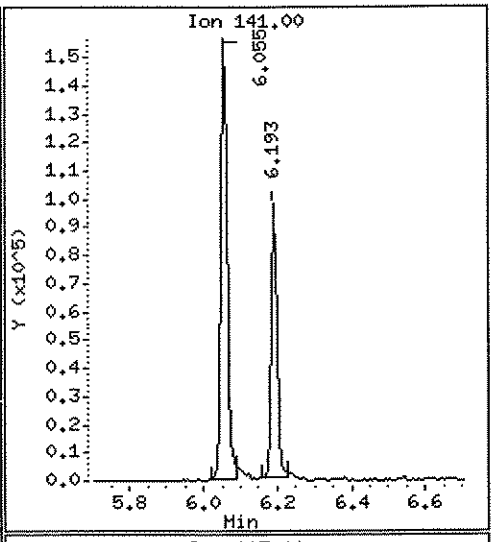
52 1-Methylnaphthalene Concentration: 178.3 UG/KG

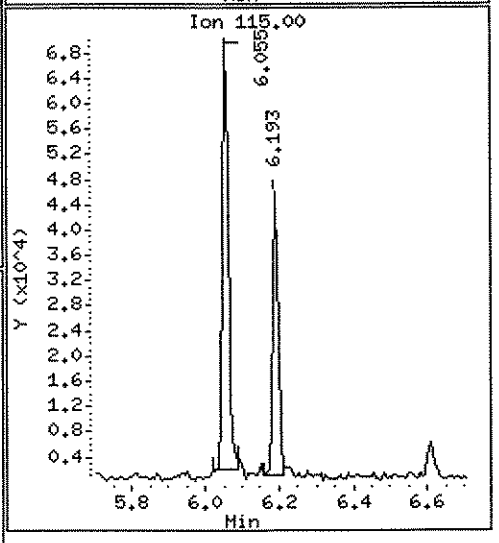












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

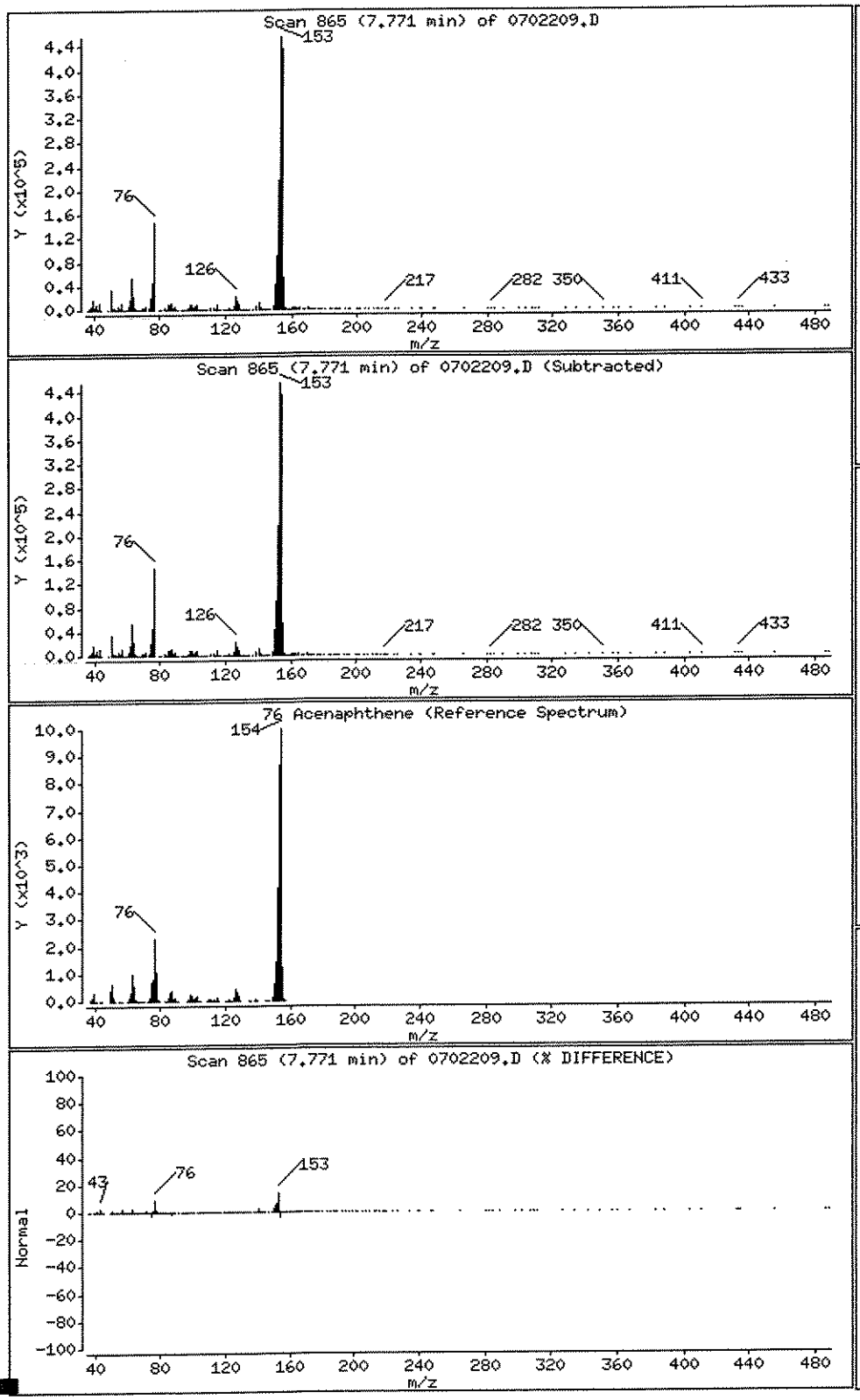
Client ID: 51CFM07S060706 Instrument: bna1.i

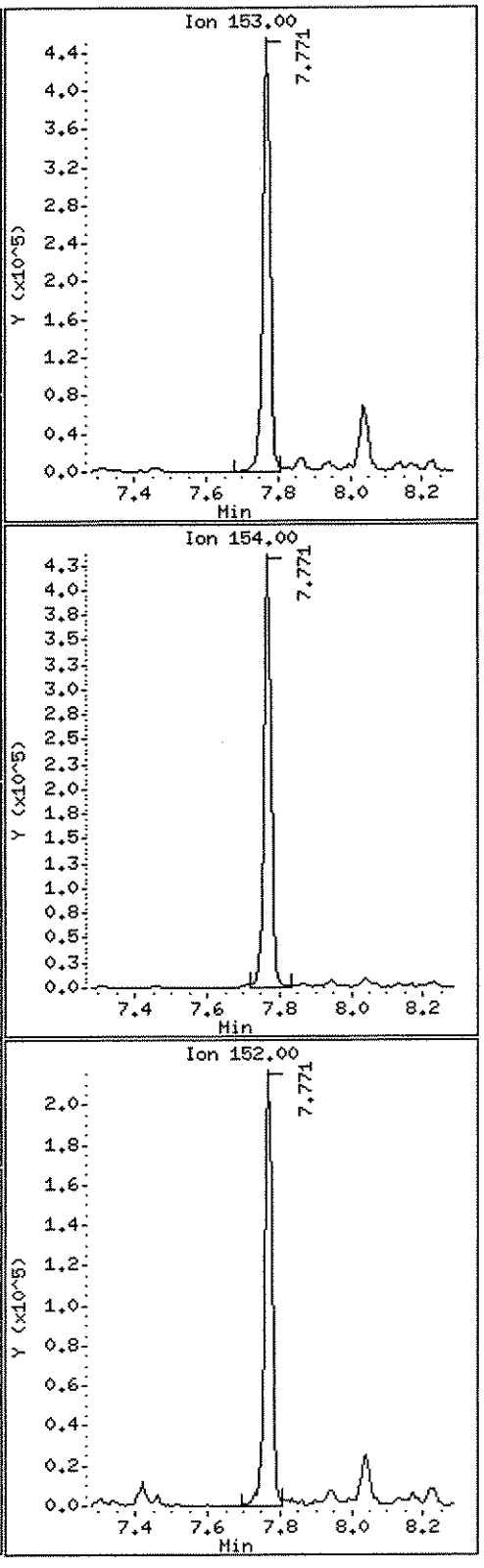
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5 Operator: SDB

Column phase: fused silica Column diameter: 0.25

76 Acenaphthene Concentration: 1061 UG/KG





Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

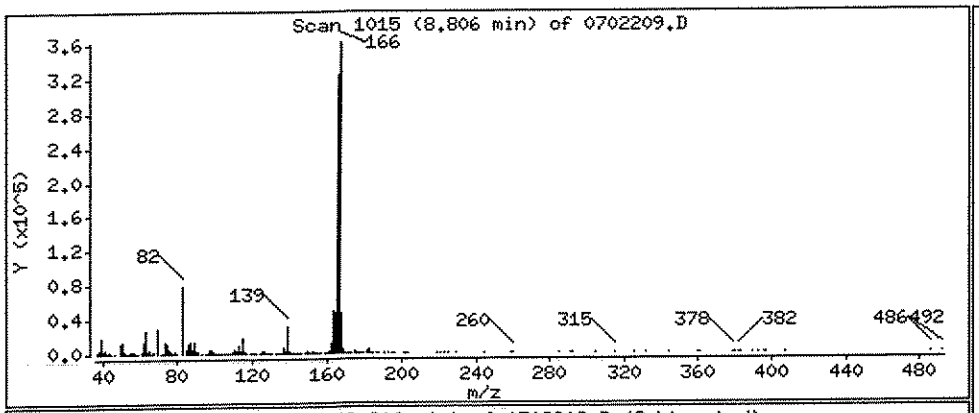
Operator: SDB

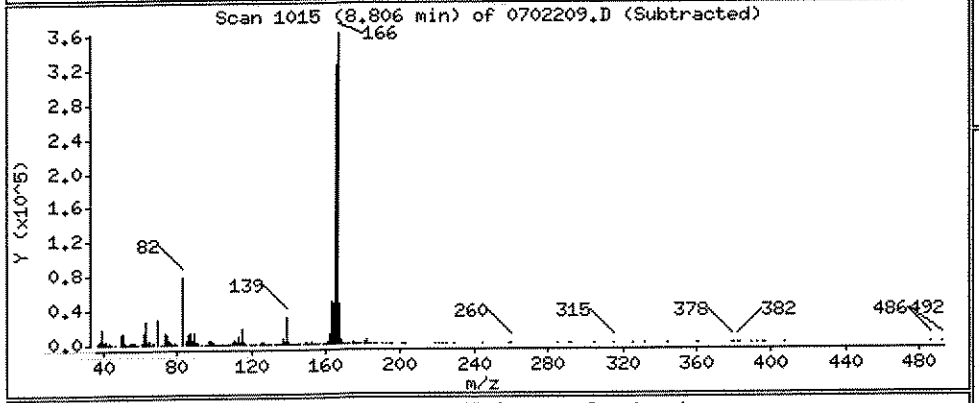
Column phase: fused silica

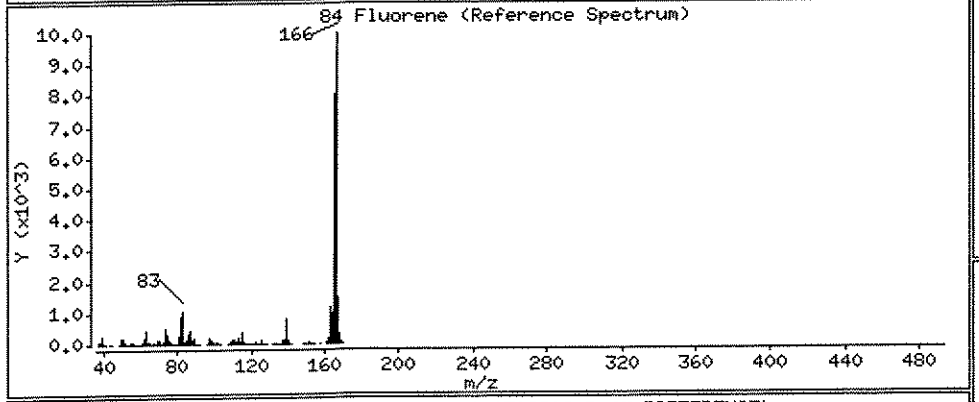
Column diameter: 0.25

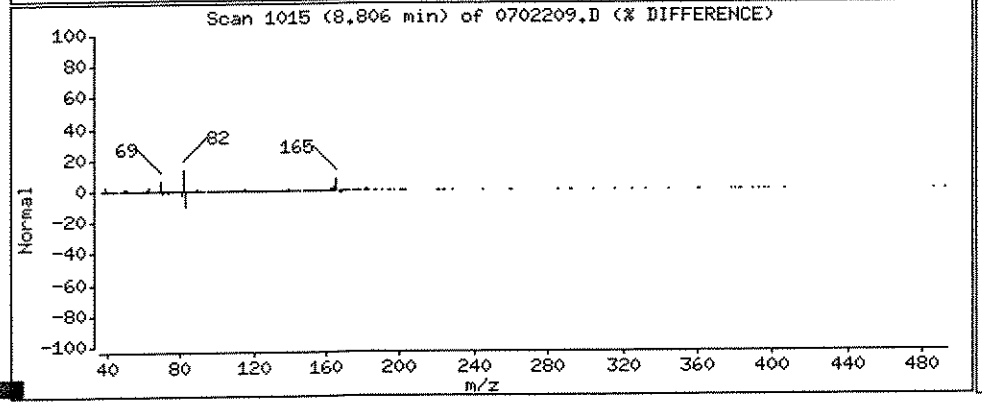
84 Fluorene

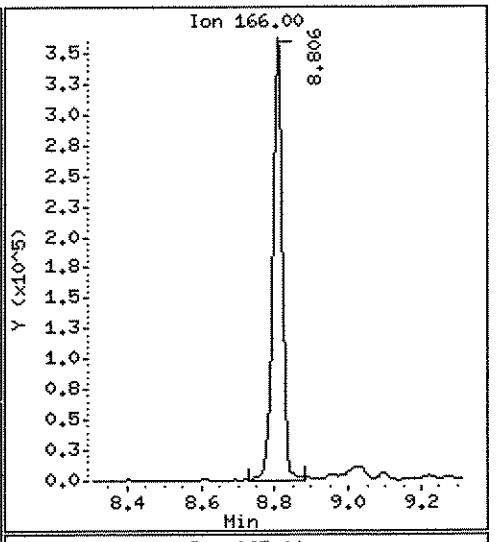
Concentration: 952.0 UG/KG

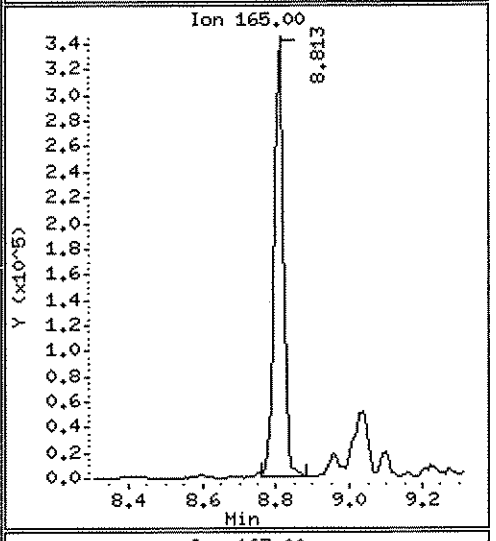


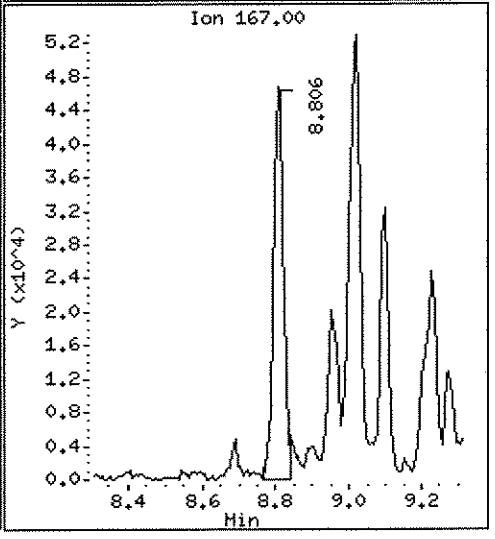












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000237

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

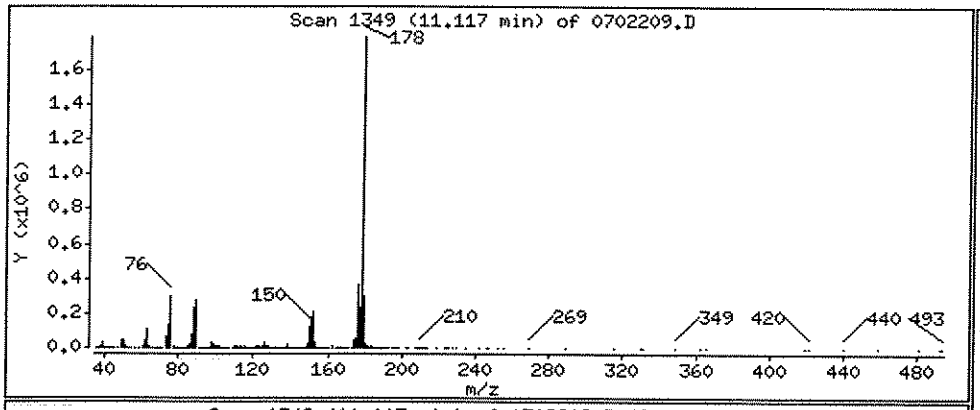
Client ID: 51CFM07S060706 Instrument: bna1.i

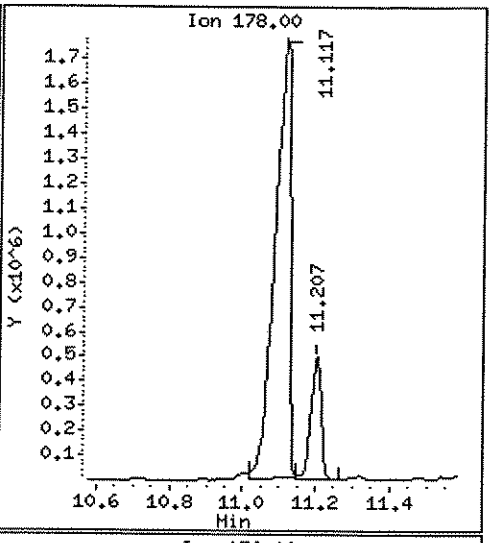
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

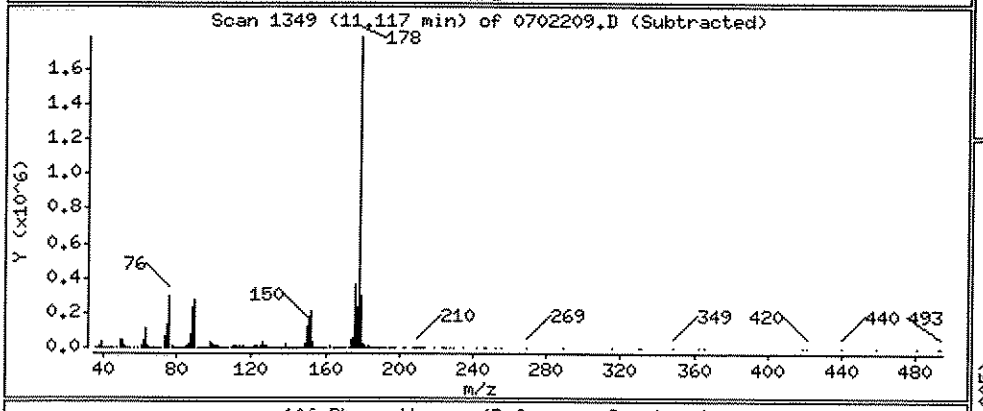
Volume Injected (uL): 0.5 Operator: SDB

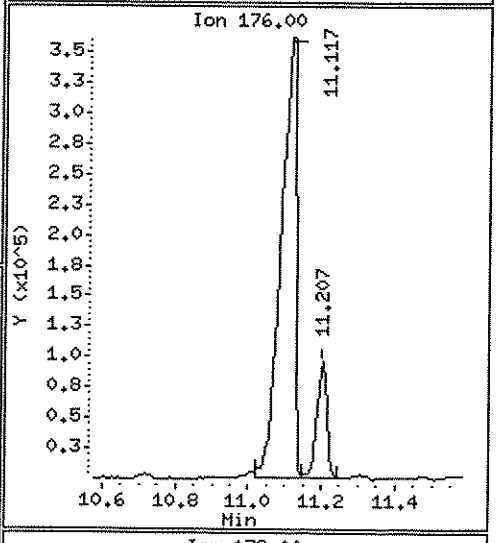
Column phase: fused silica Column diameter: 0.25

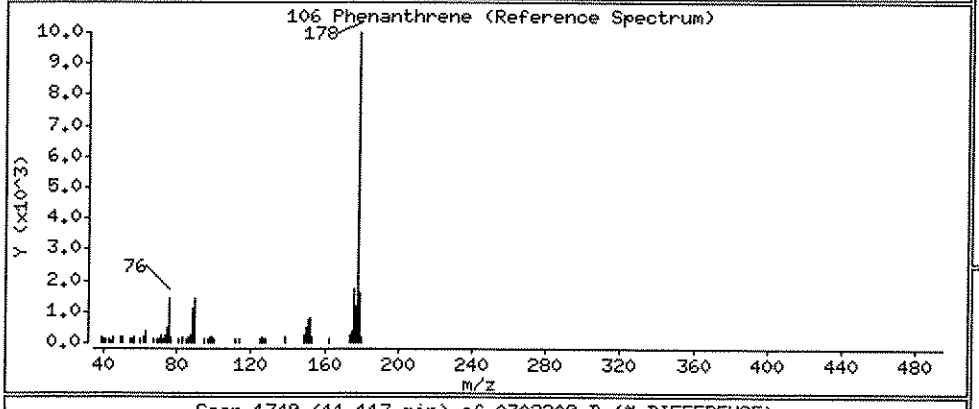
106 Phenanthrene Concentration: 7403 UG/KG

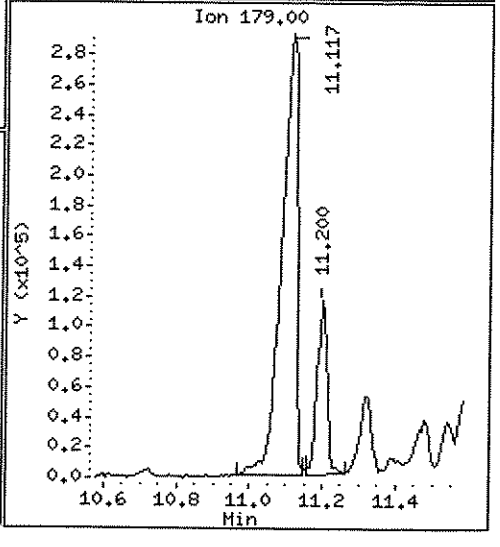


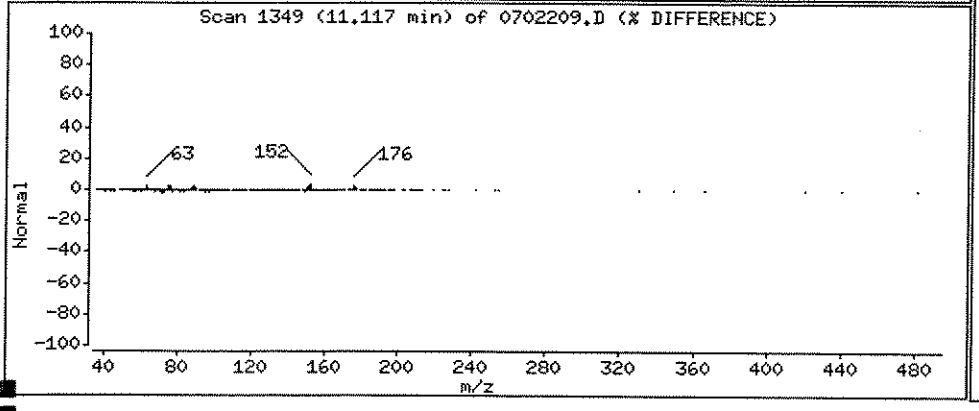












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

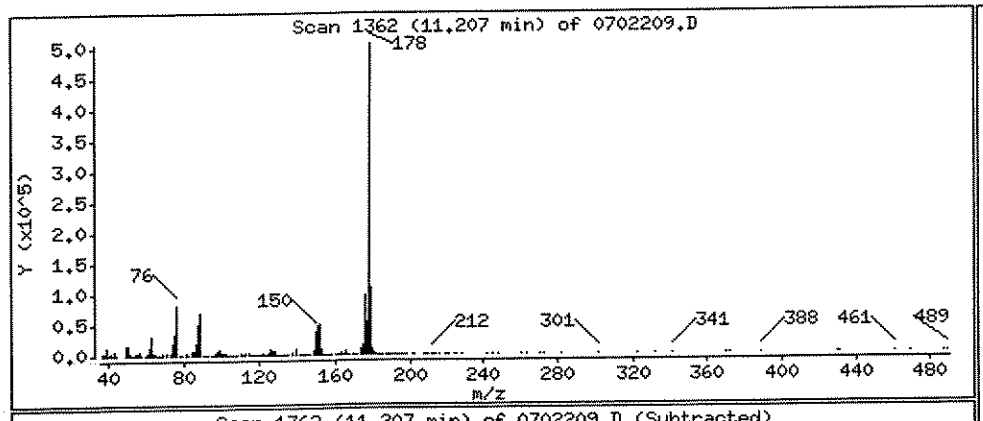
Operator: SDB

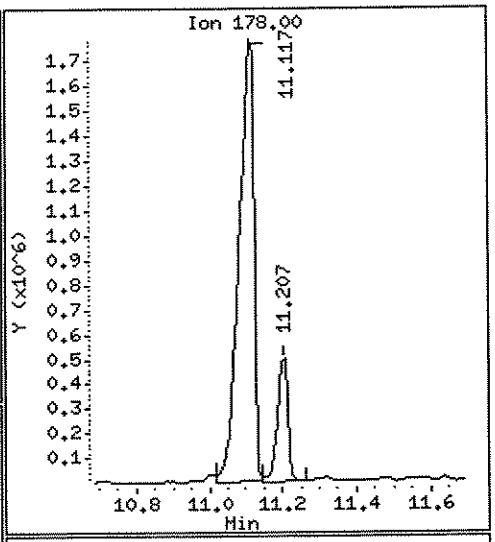
Column phase: fused silica

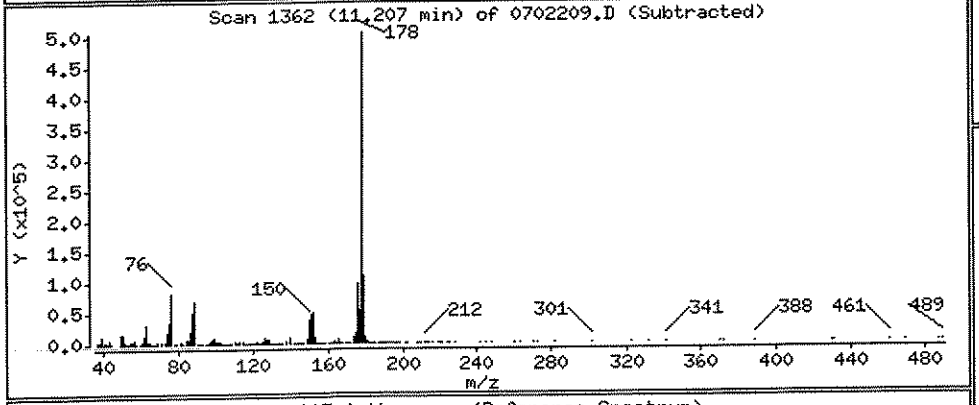
Column diameter: 0.25

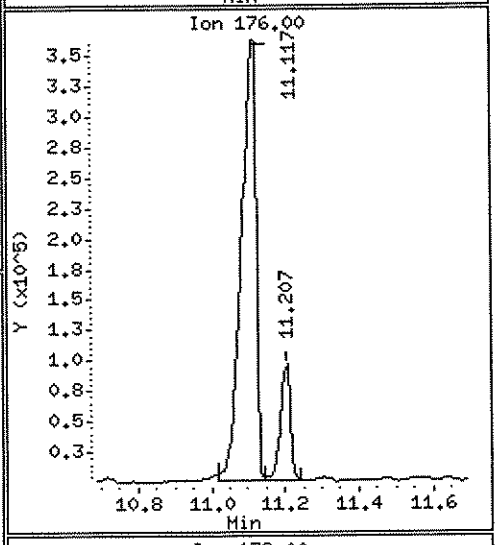
107 Anthracene

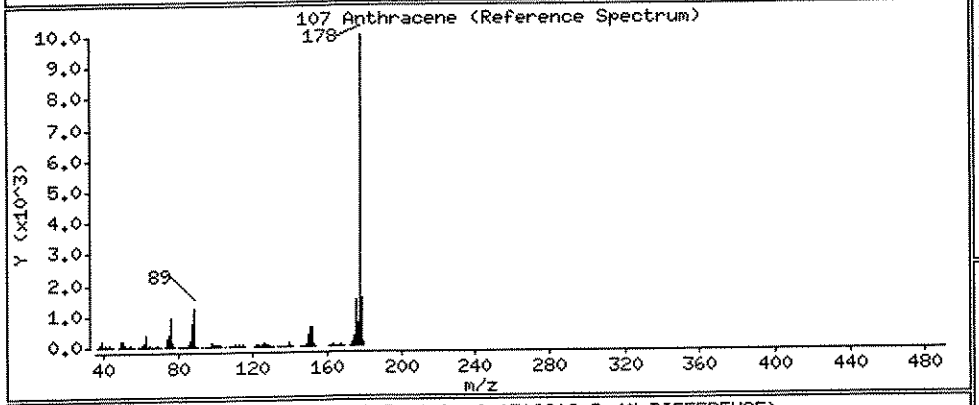
Concentration: 1415 UG/KG

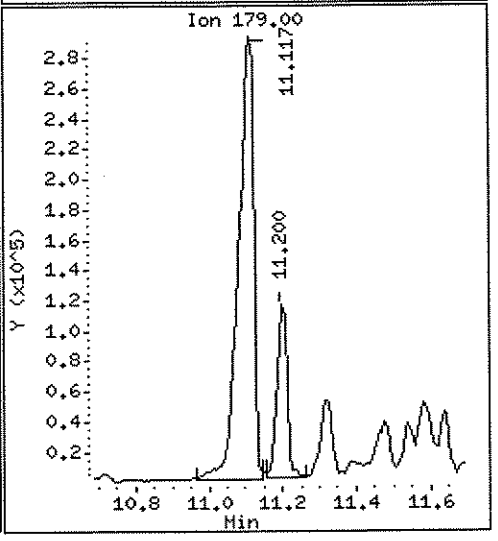


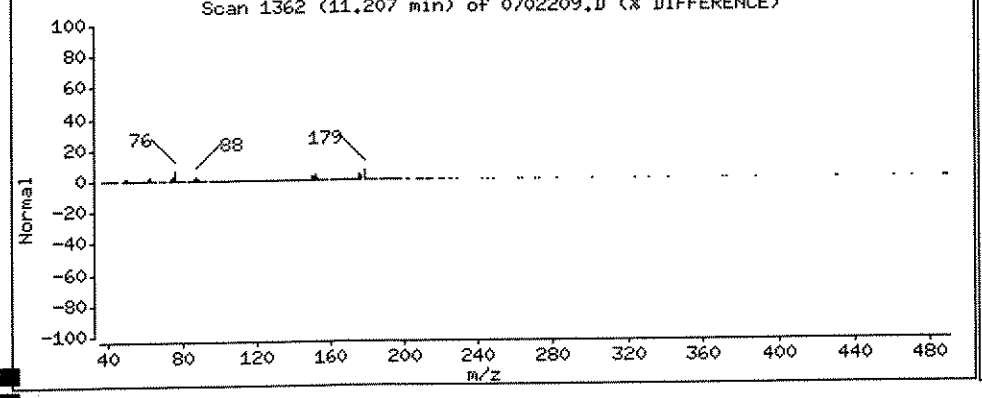












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

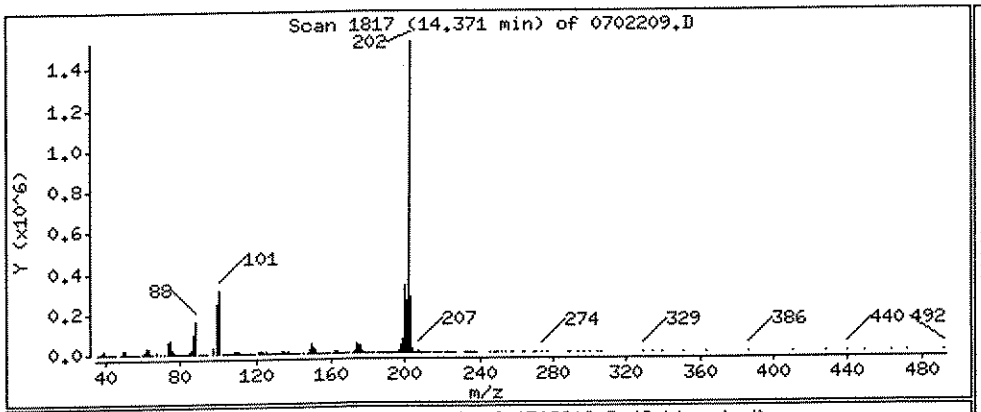
Operator: SDB

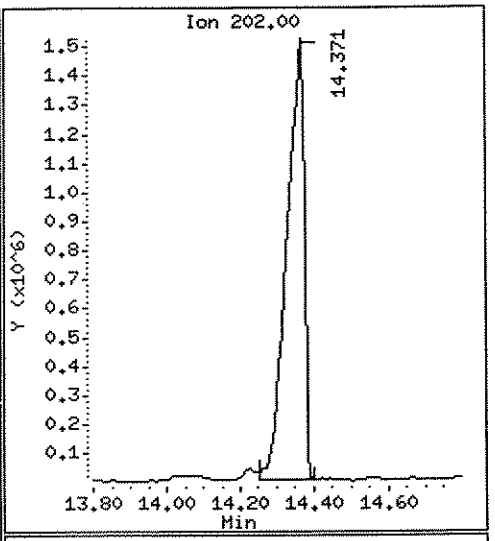
Column phase: fused silica

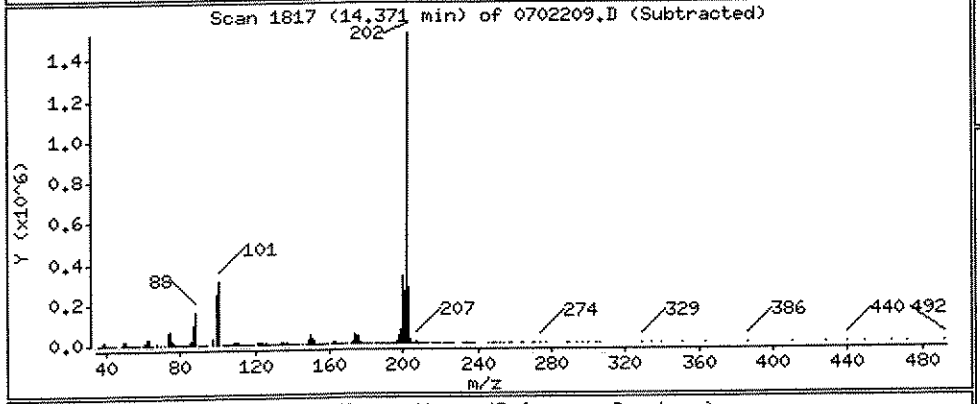
Column diameter: 0.25

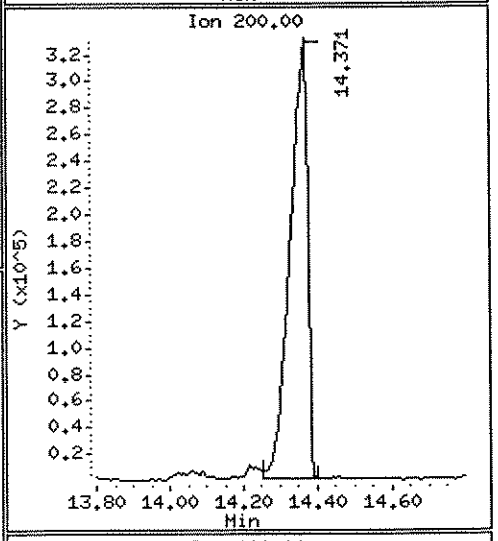
110 Fluoranthene

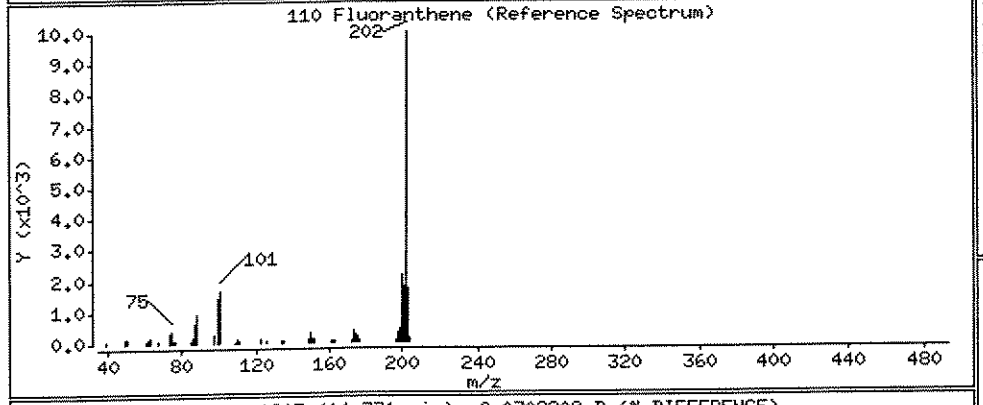
Concentration: 7108 UG/KG

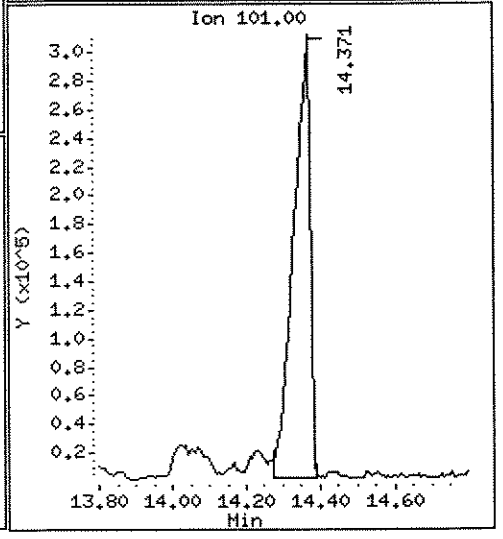


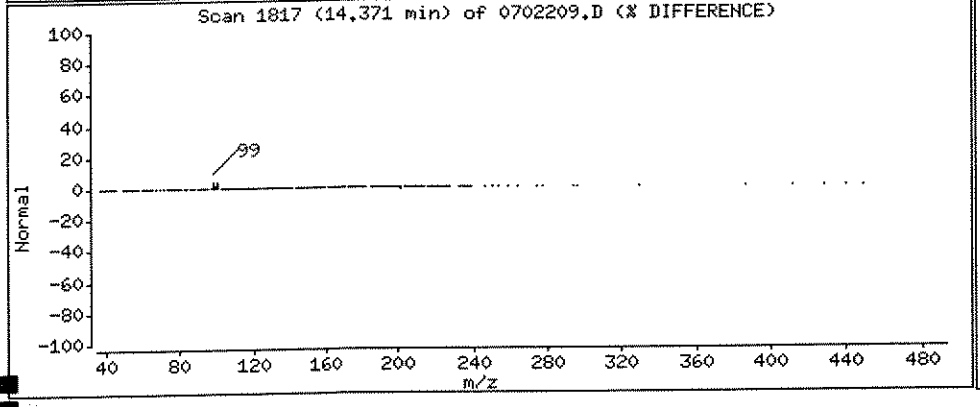












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

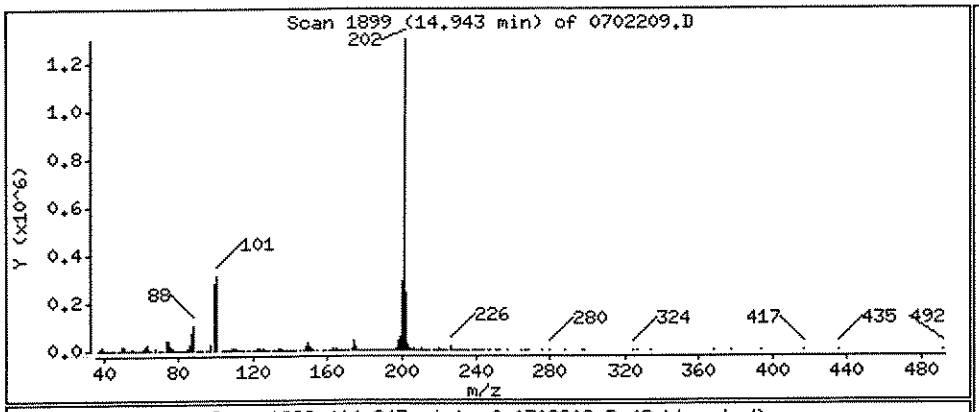
Client ID: 51CFM07S060706 Instrument: bna1.i

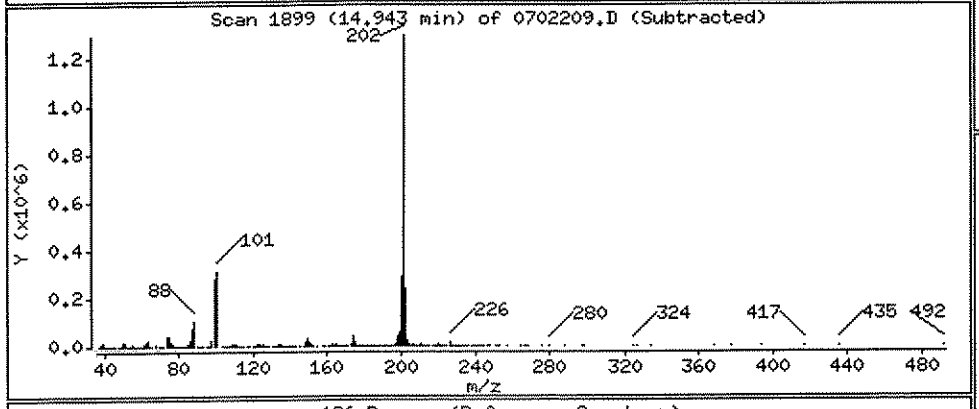
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

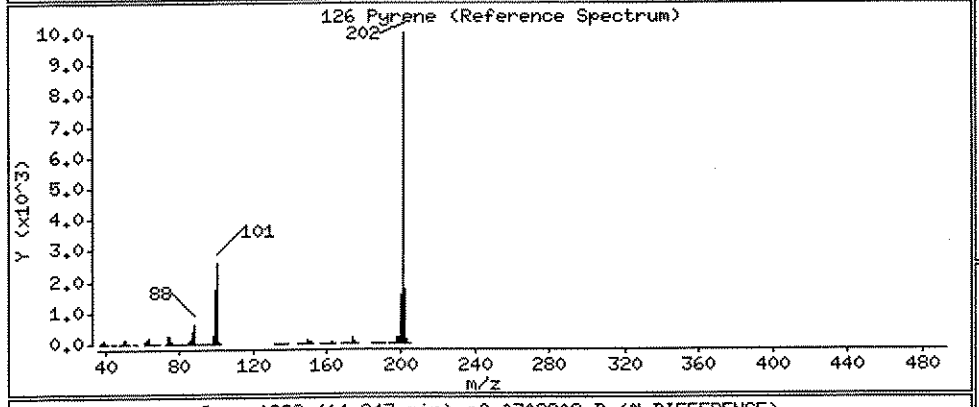
Volume Injected (uL): 0.5 Operator: SDB

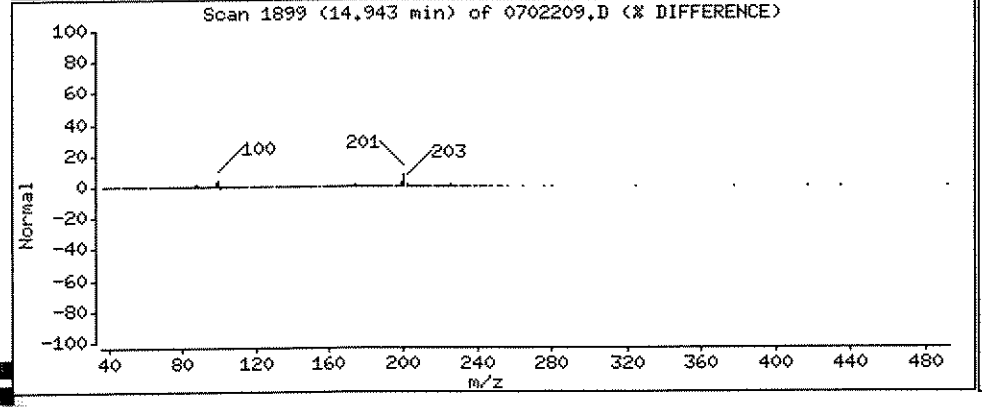
Column phase: fused silica Column diameter: 0.25

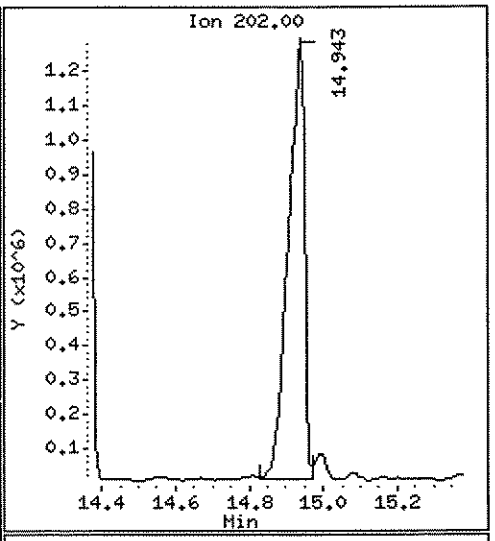
126 Pyrene Concentration: 13340 UG/KG

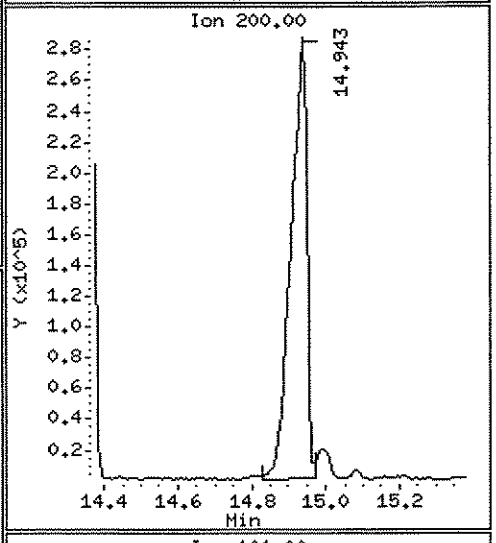


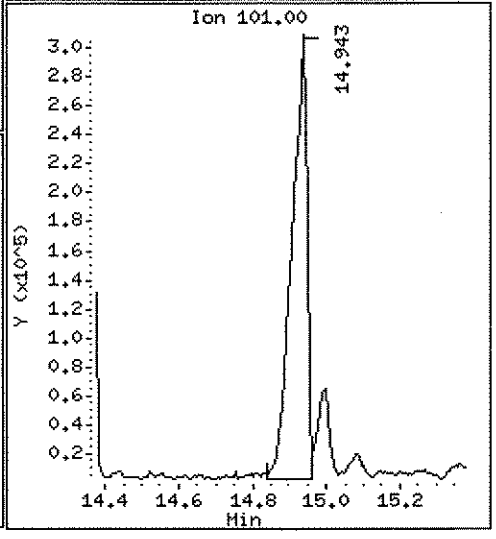












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

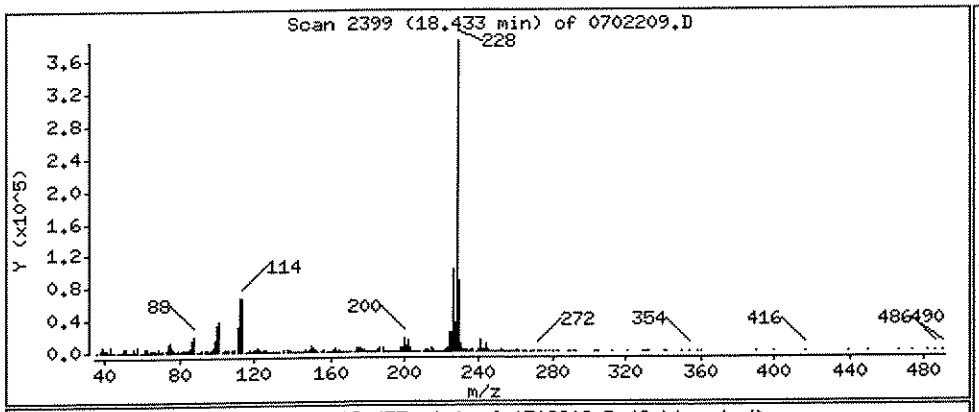
Client ID: 51CFM07S060706 Instrument: bna1.i

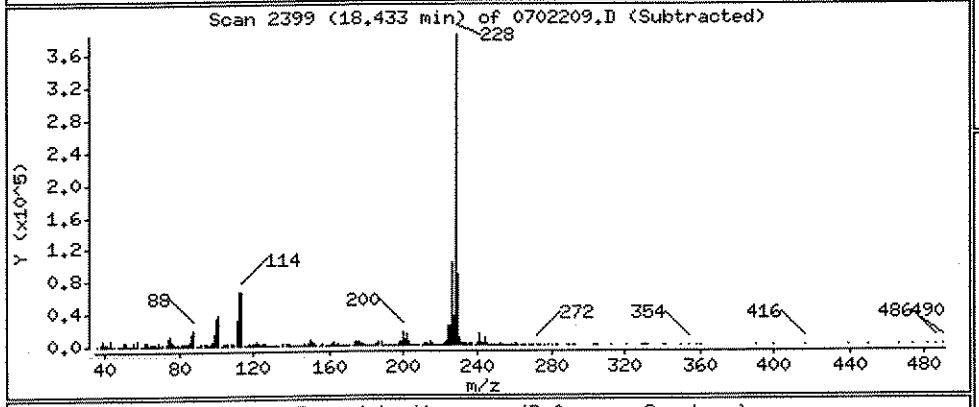
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

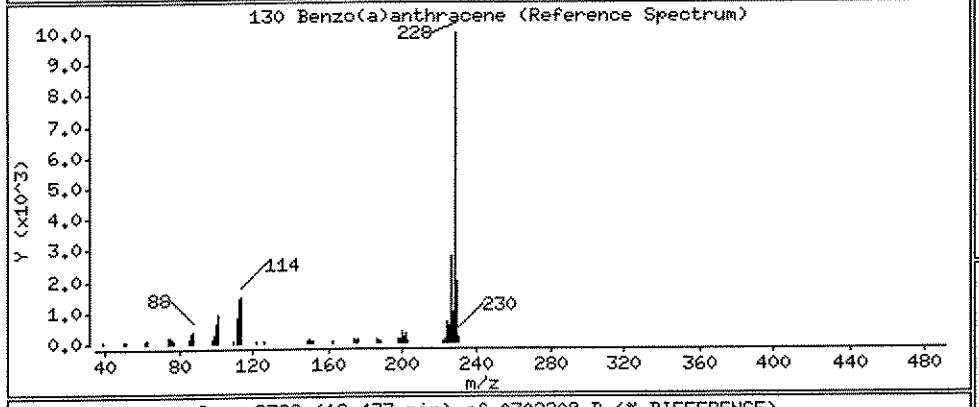
Volume Injected (uL): 0.5 Operator: SDB

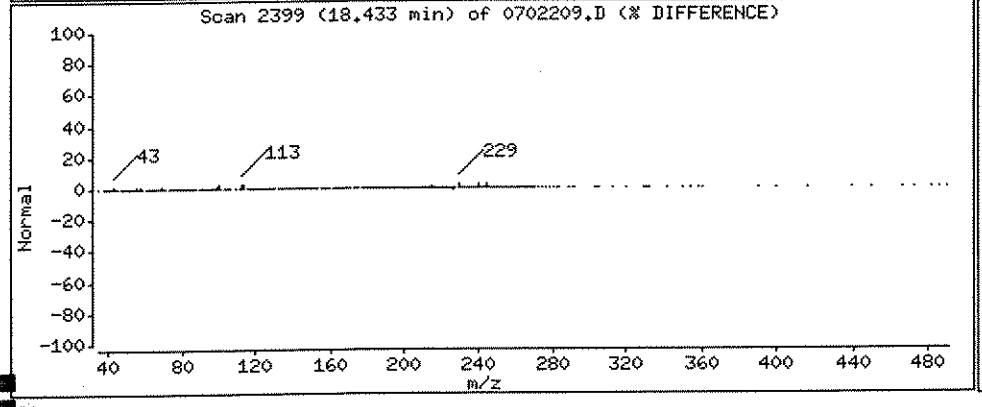
Column phase: fused silica Column diameter: 0.25

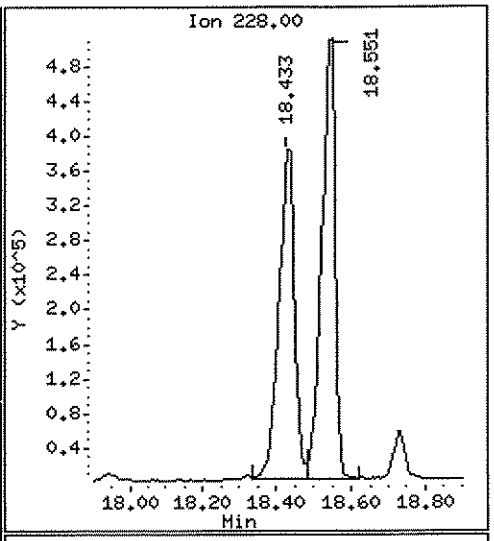
130 Benzo(a)anthracene Concentration: 4789 UG/KG

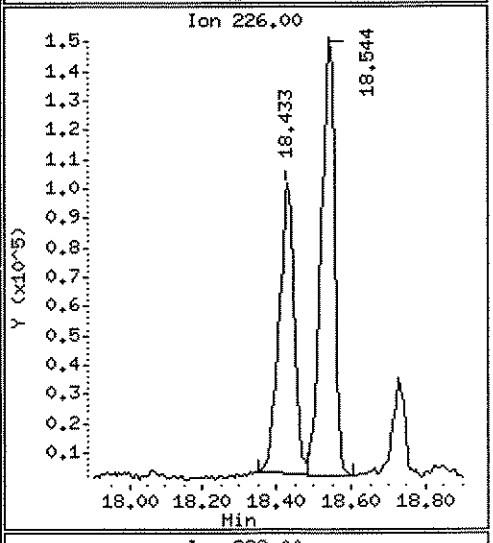


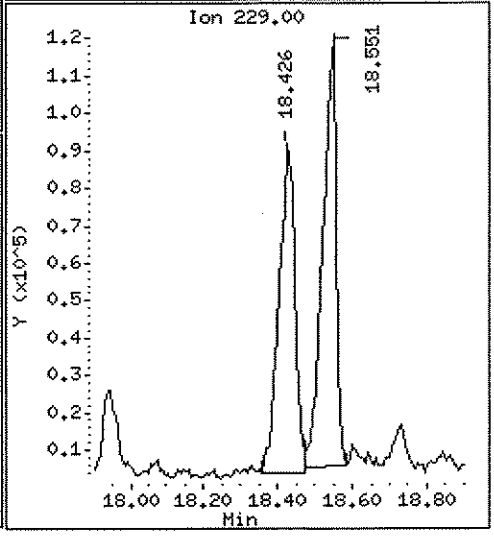












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Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

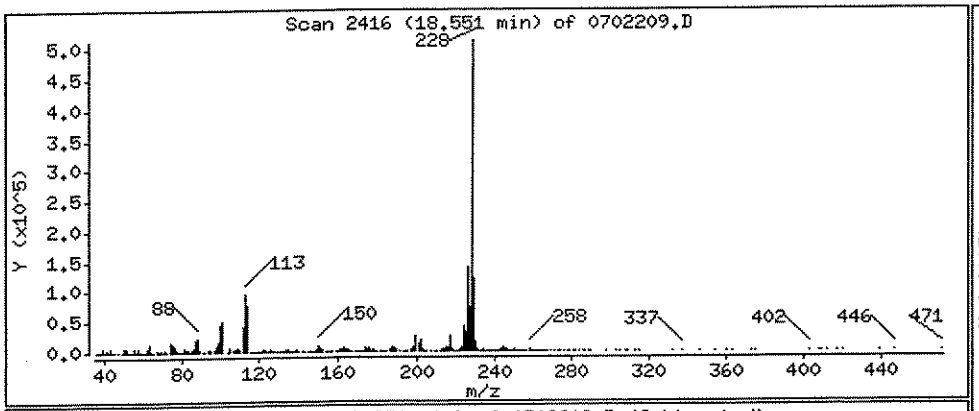
Operator: SDB

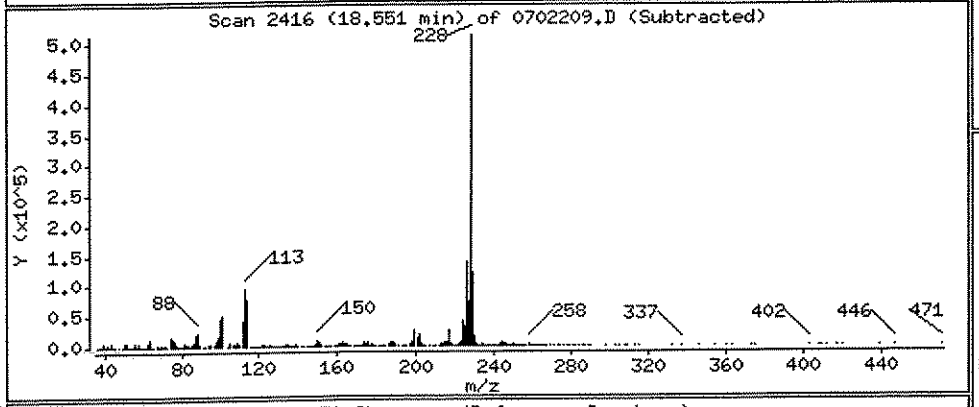
Column phase: fused silica

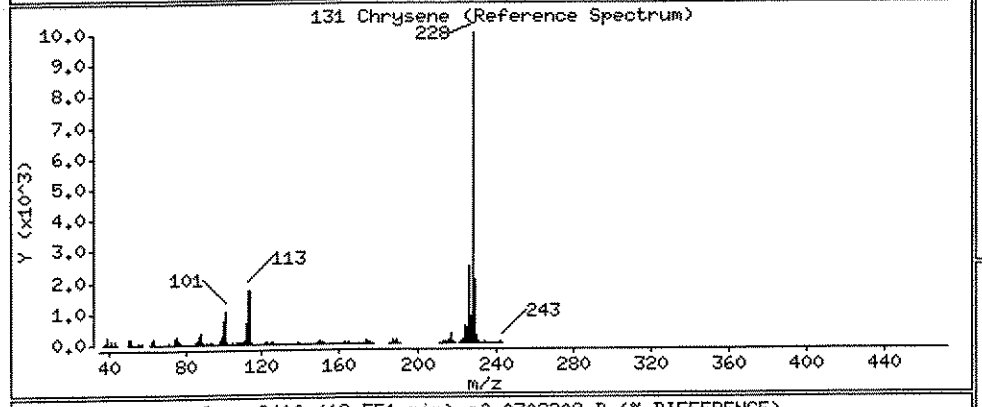
Column diameter: 0.25

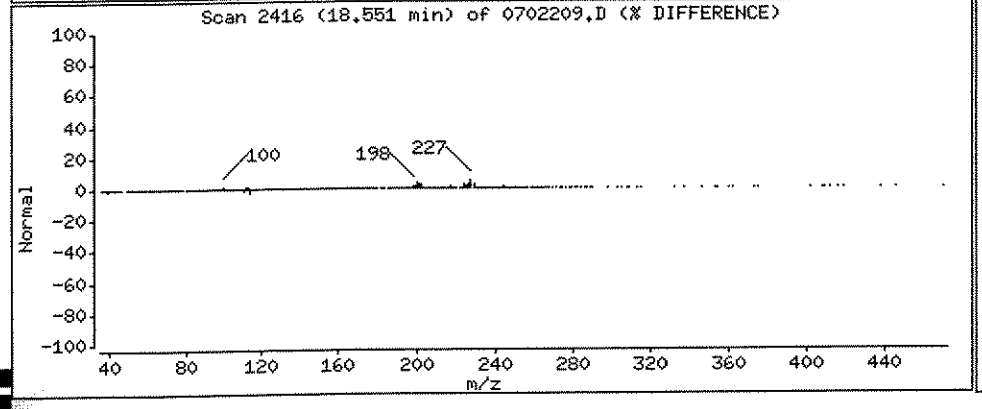
131 Chrysene

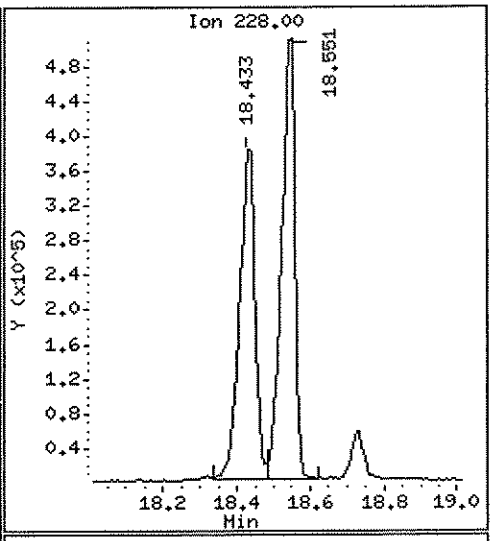
Concentration: 6076 UG/KG

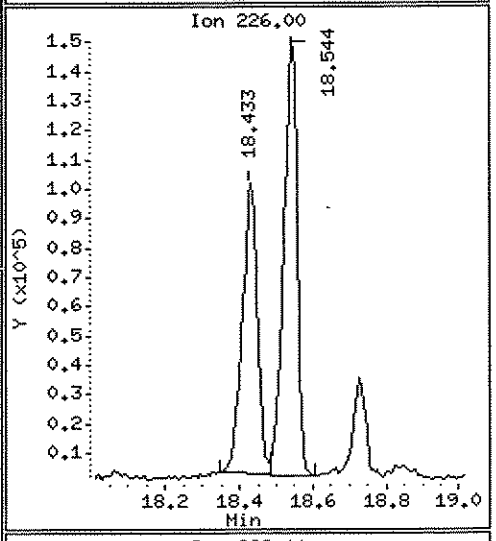


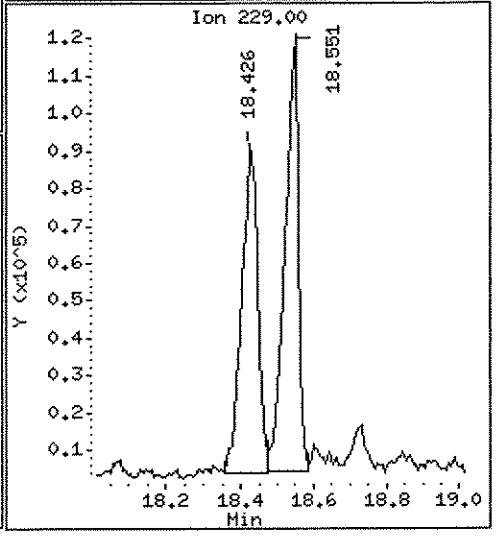












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

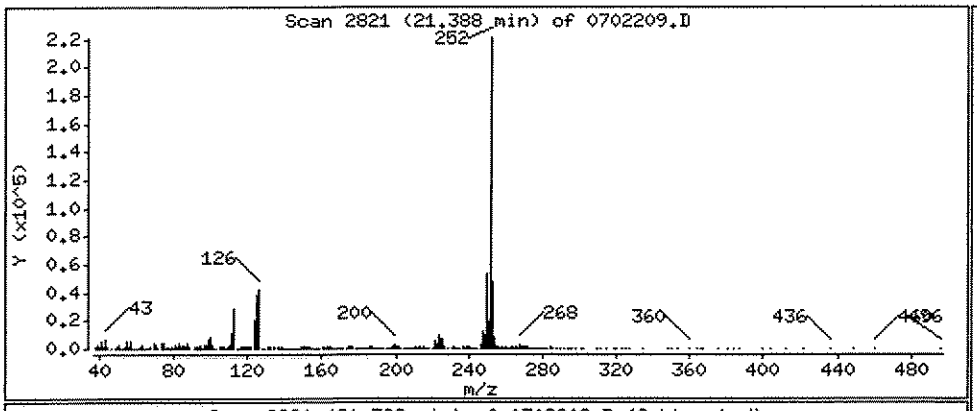
Client ID: 51CFM07S060706 Instrument: bna1.i

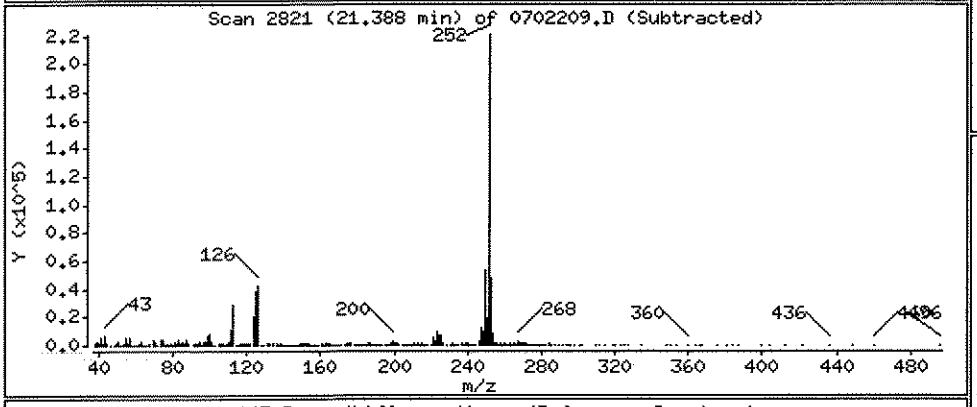
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

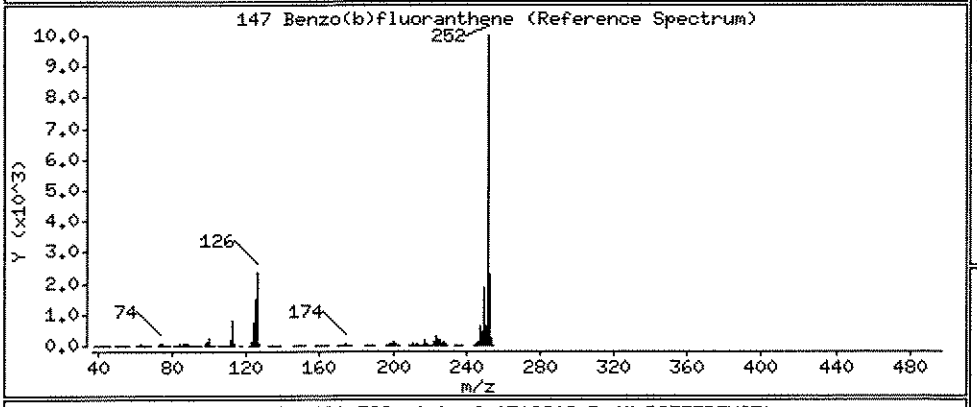
Volume Injected (uL): 0.5 Operator: SDB

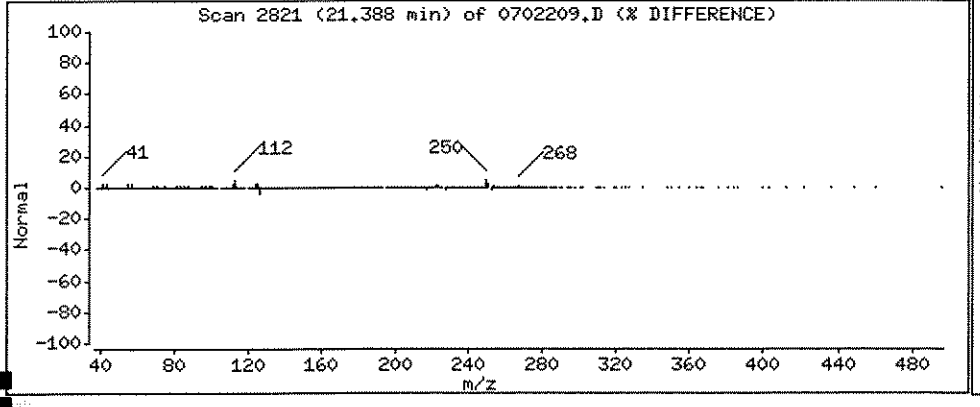
Column phase: fused silica Column diameter: 0.25

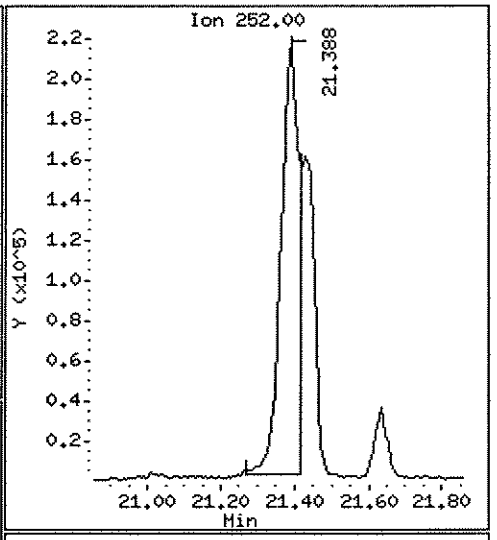
147 Benzo(b)fluoranthene Concentration: 6056 UG/KG

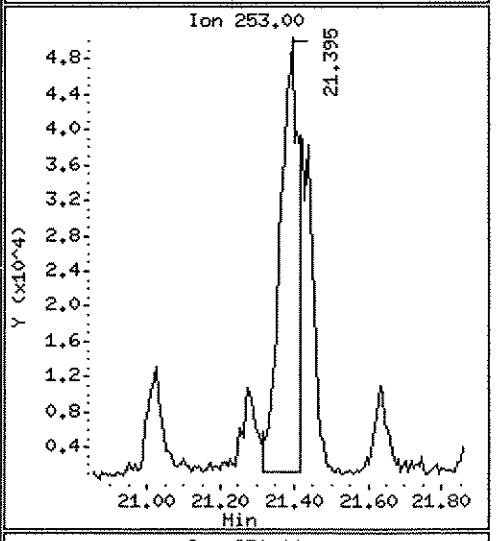


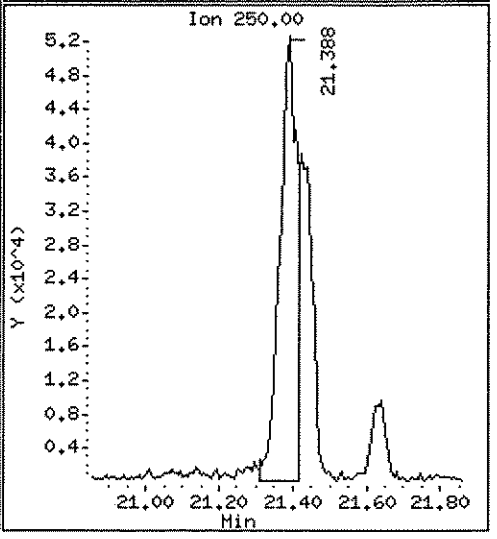












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

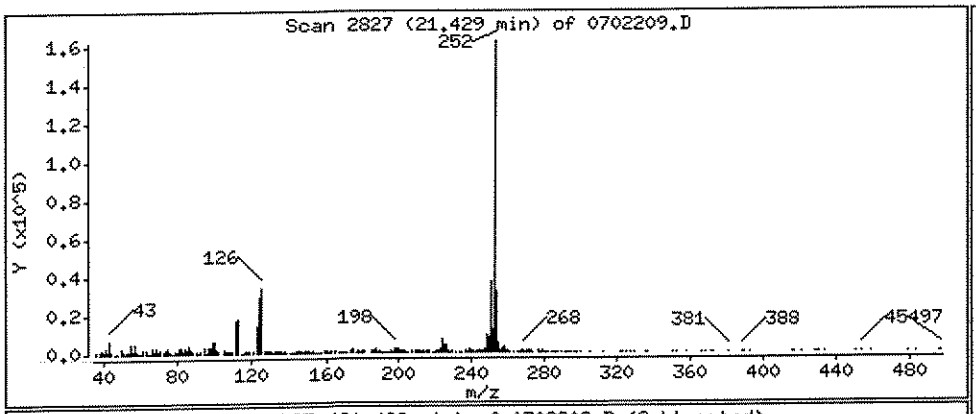
Client ID: 51CFM07S060706 Instrument: bna1.i

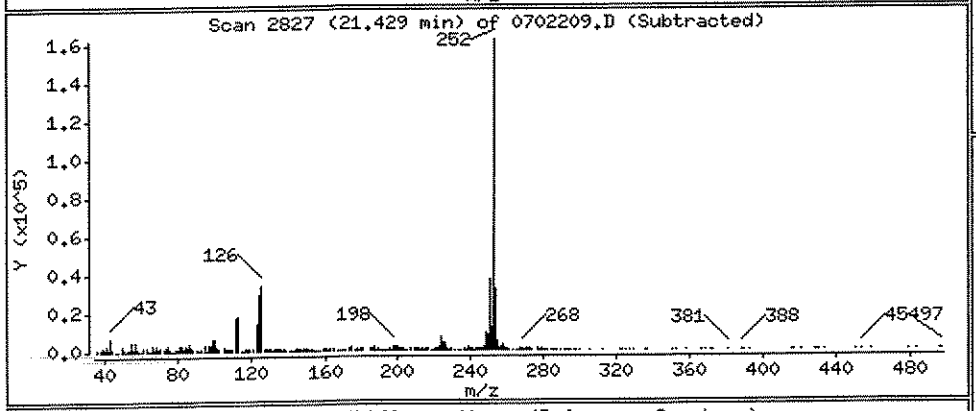
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

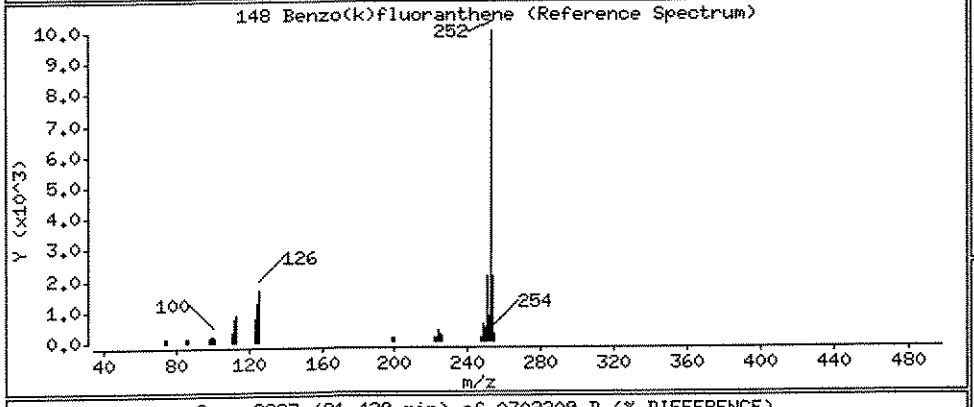
Volume Injected (uL): 0.5 Operator: SDB

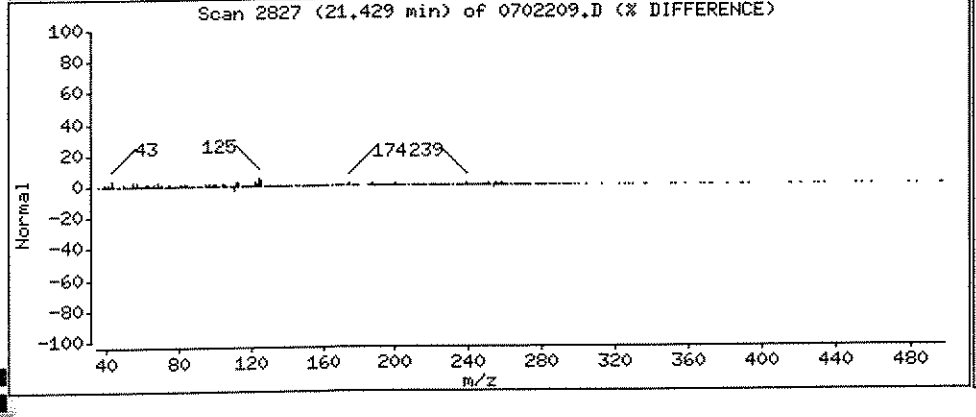
Column phase: fused silica Column diameter: 0.25

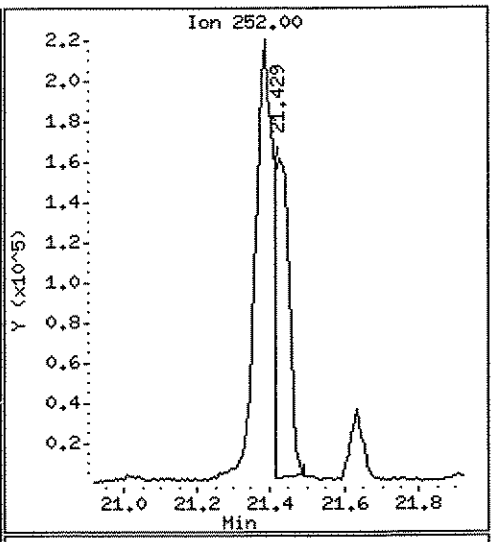
148 Benzo(k)fluoranthene Concentration: 3452 UG/KG

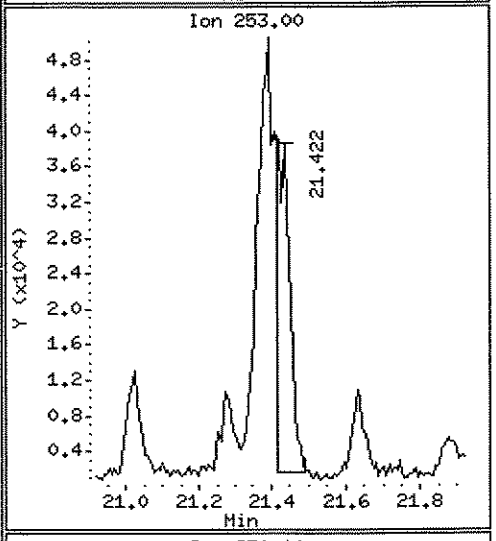


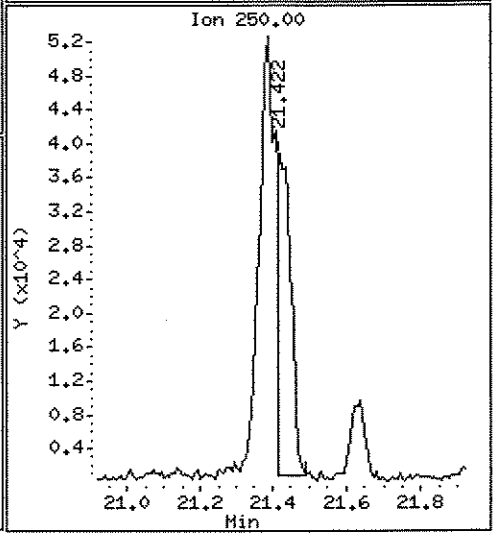












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

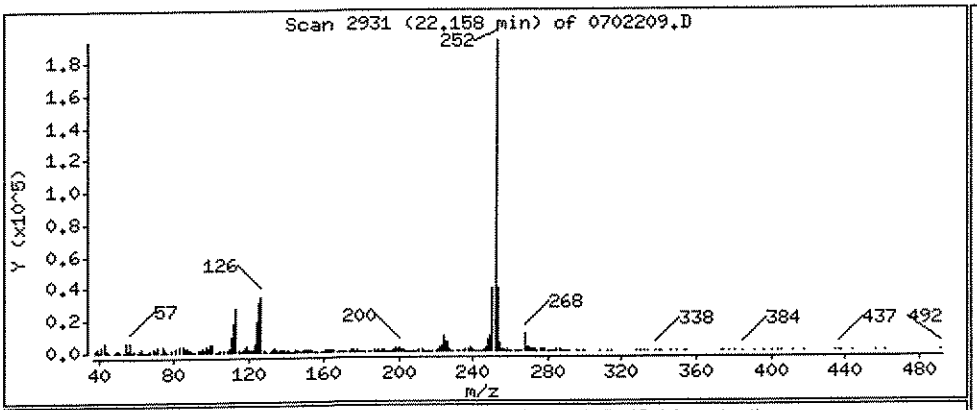
Operator: SDB

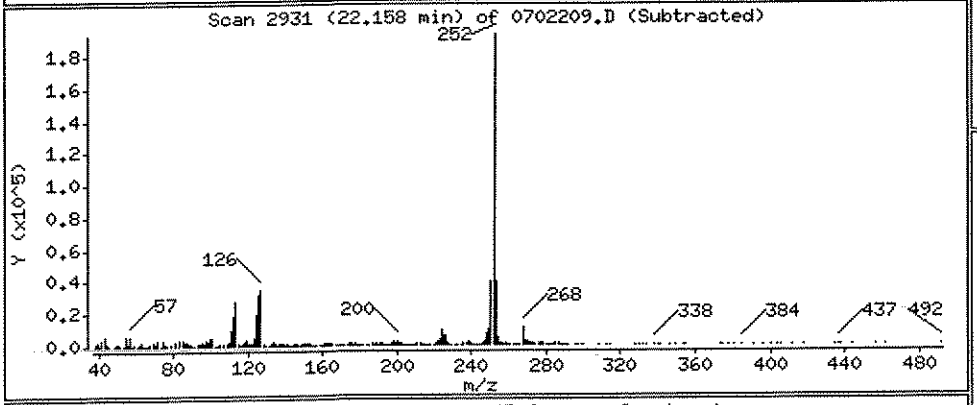
Column phase: fused silica

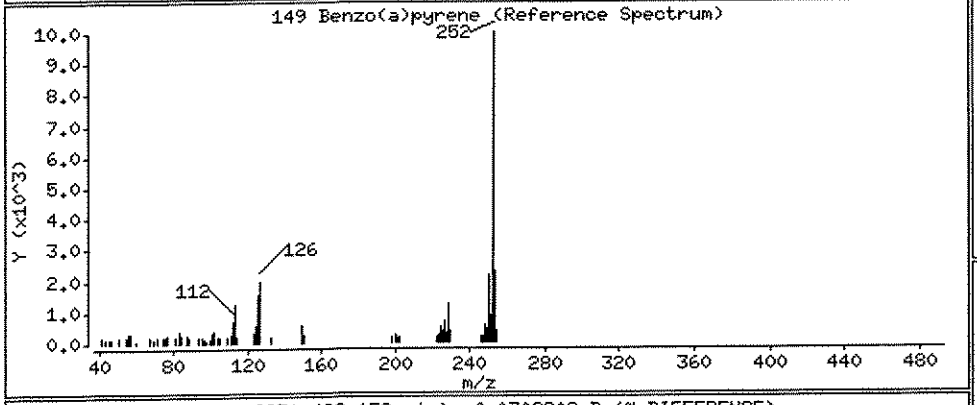
Column diameter: 0.25

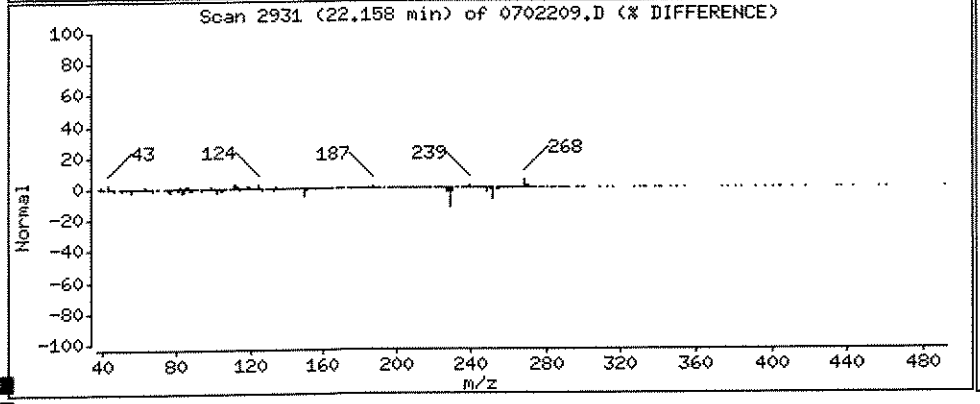
149 Benzo(a)pyrene

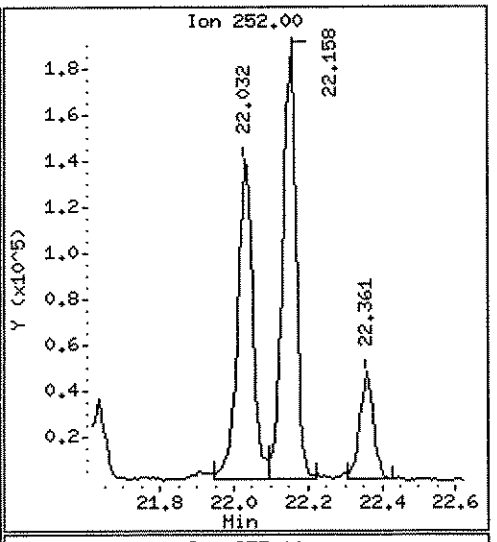
Concentration: 4720 UG/KG

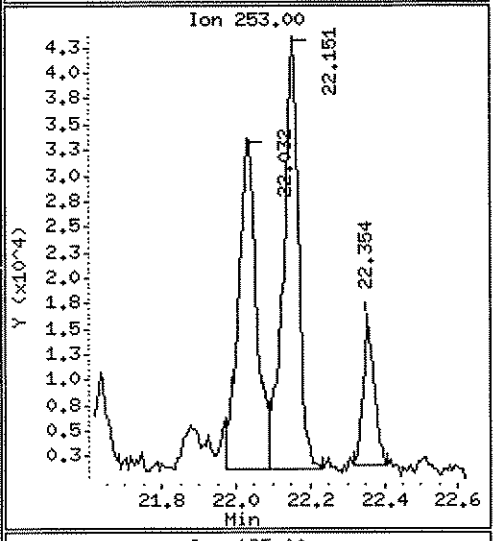


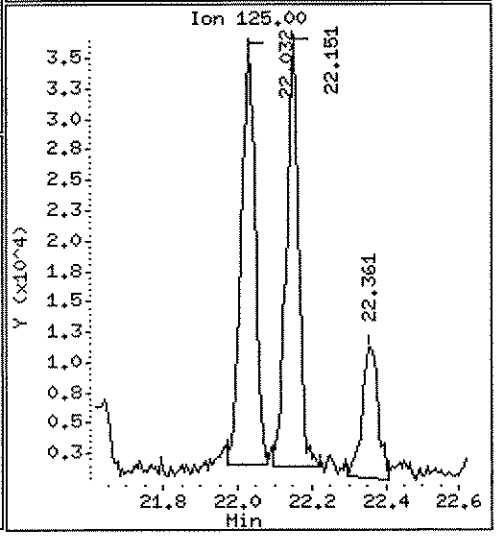












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

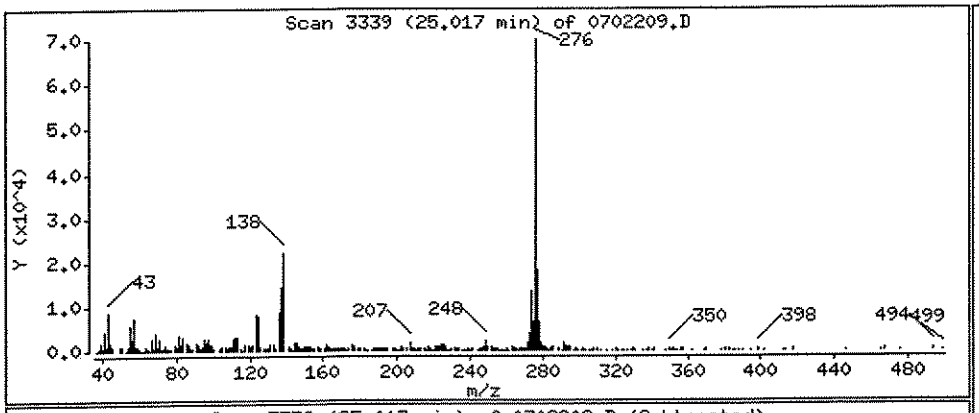
Client ID: 51CFM07S060706 Instrument: bna1.i

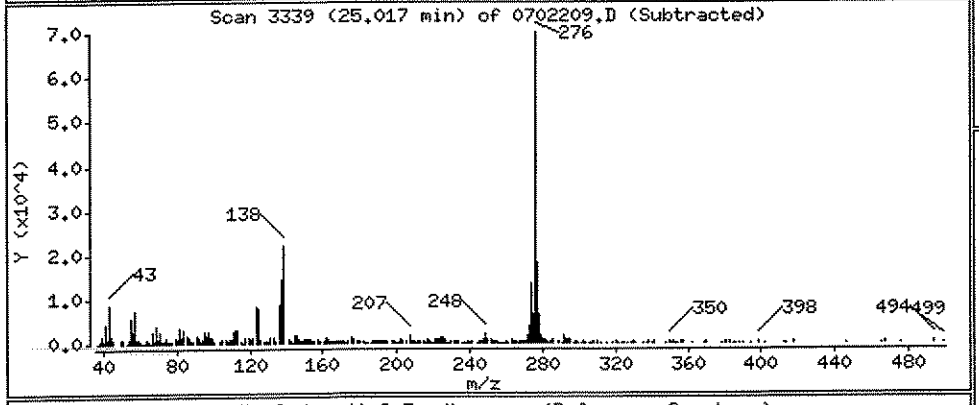
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

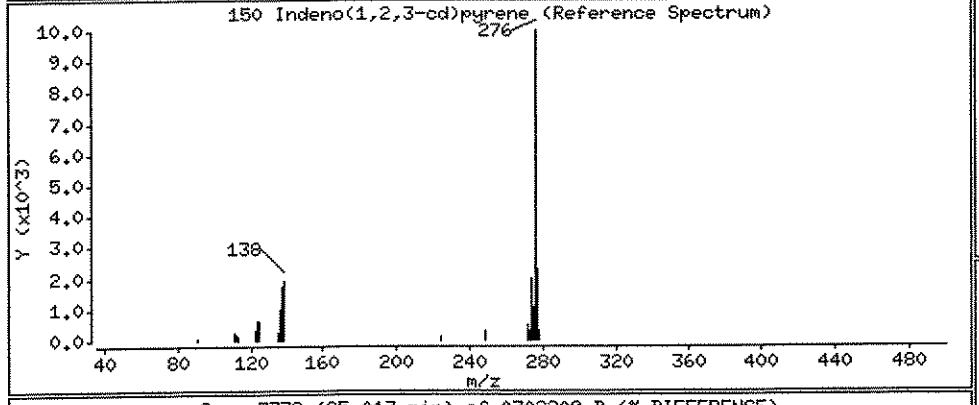
Volume Injected (uL): 0.5 Operator: SDB

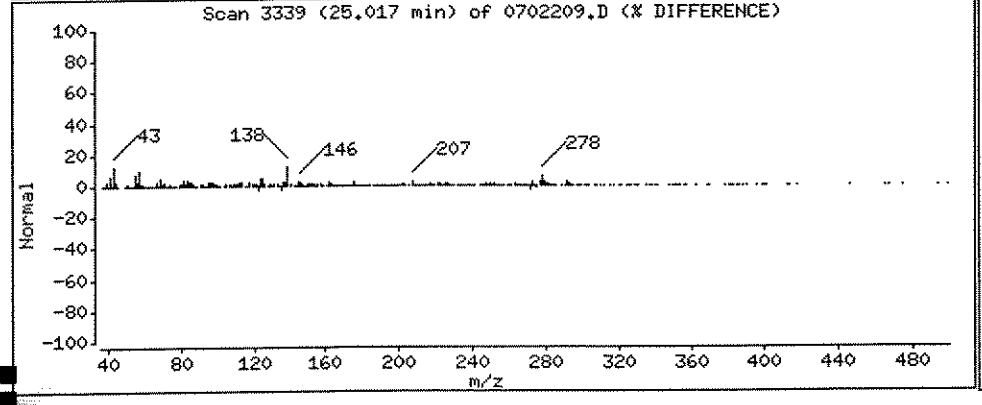
Column phase: fused silica Column diameter: 0.25

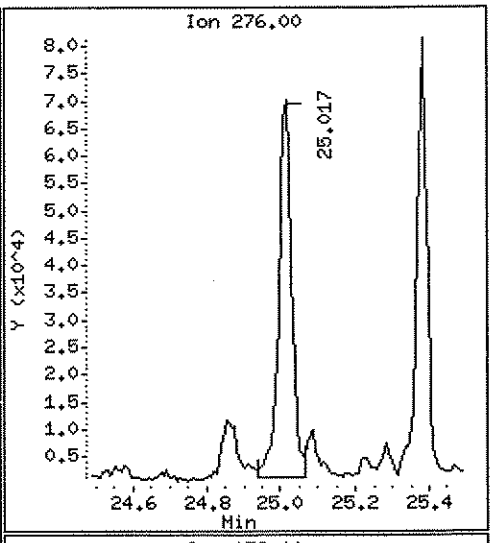
150 Indeno(1,2,3-cd)pyrene Concentration: 1932 UG/KG

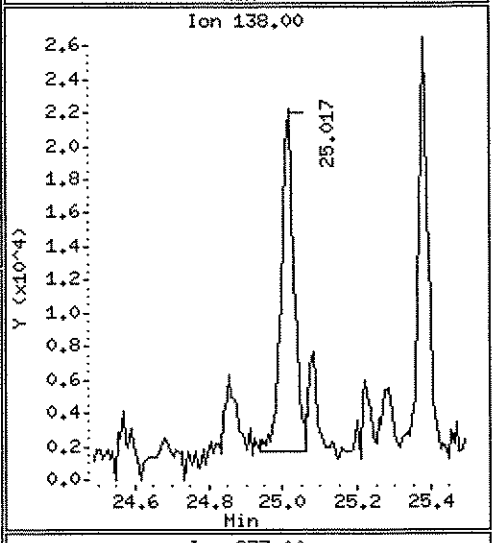


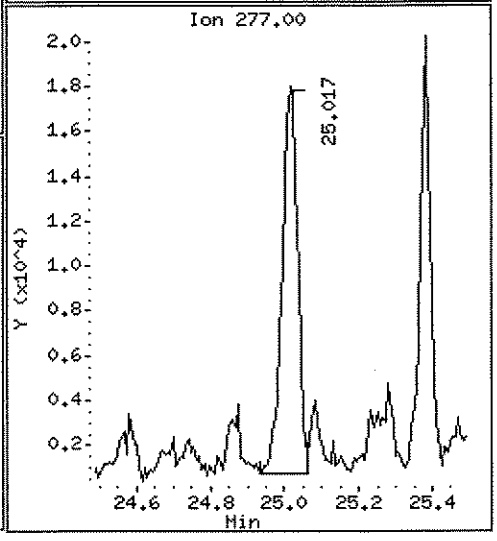












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Date : 10-JUL-2006 18:38

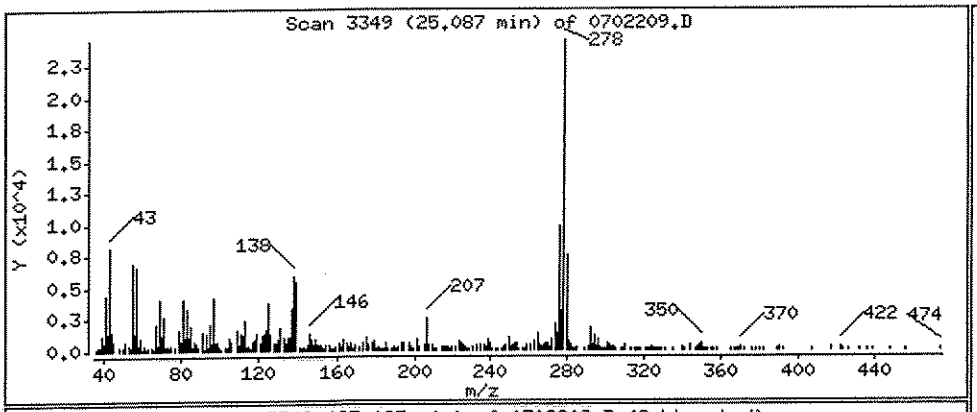
Client ID: 51CFM07S060706 Instrument: bna1.i

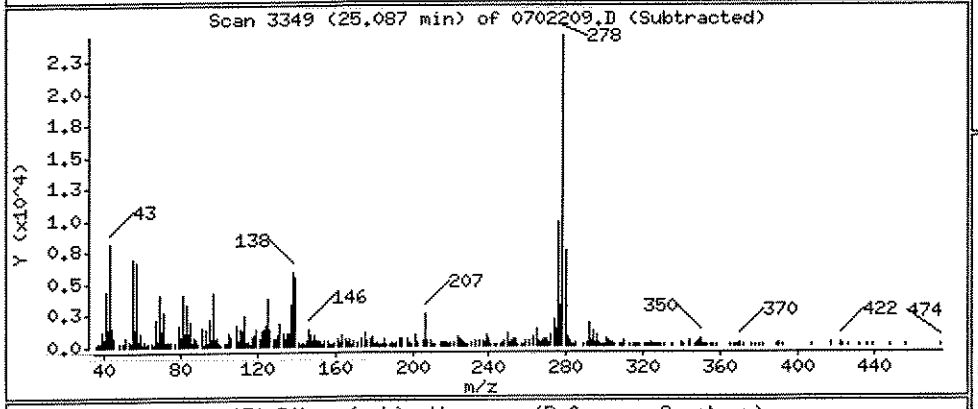
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

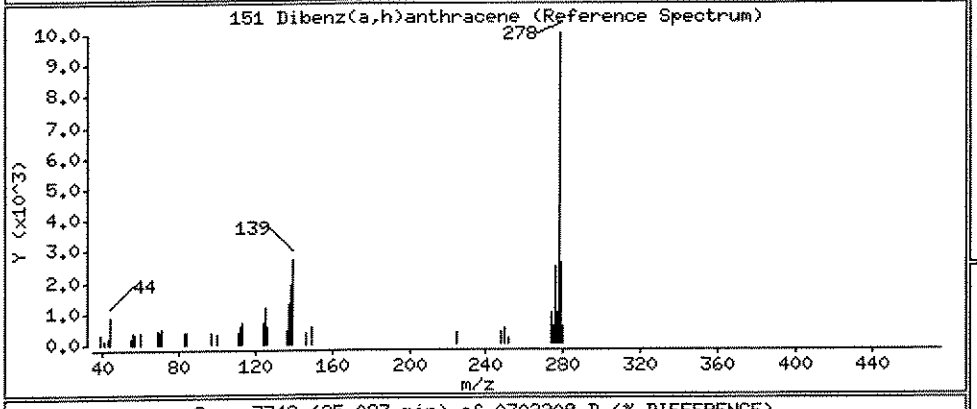
Volume Injected (uL): 0.5 Operator: SDB

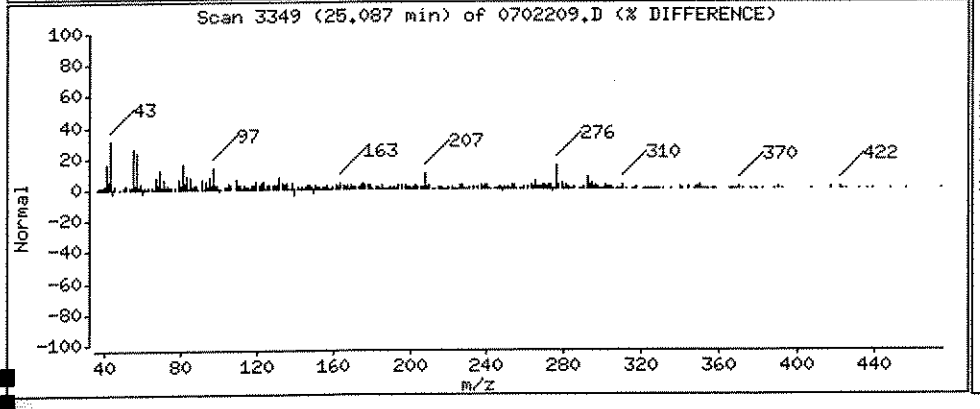
Column phase: fused silica Column diameter: 0.25

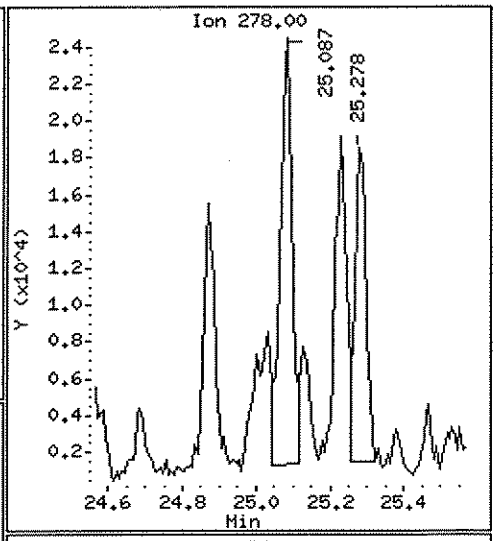
151 Dibenz(a,h)anthracene Concentration: 590.3 UG/KG

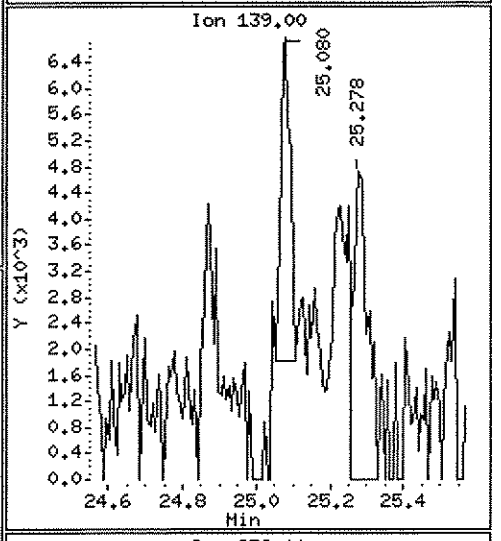


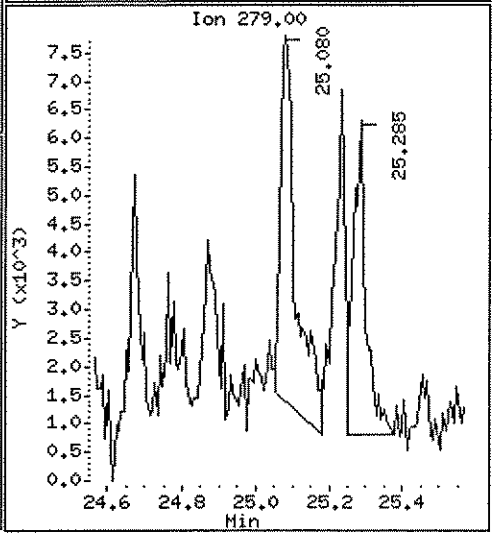












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702209.D

Date : 10-JUL-2006 18:38

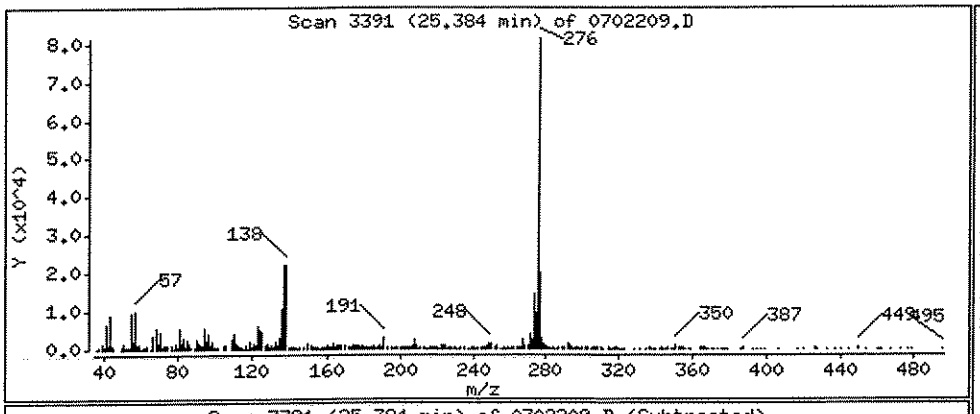
Client ID: 51CFM07S060706 Instrument: bna1.i

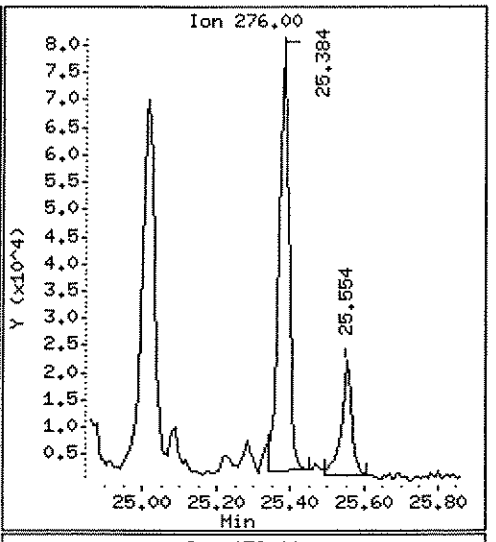
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

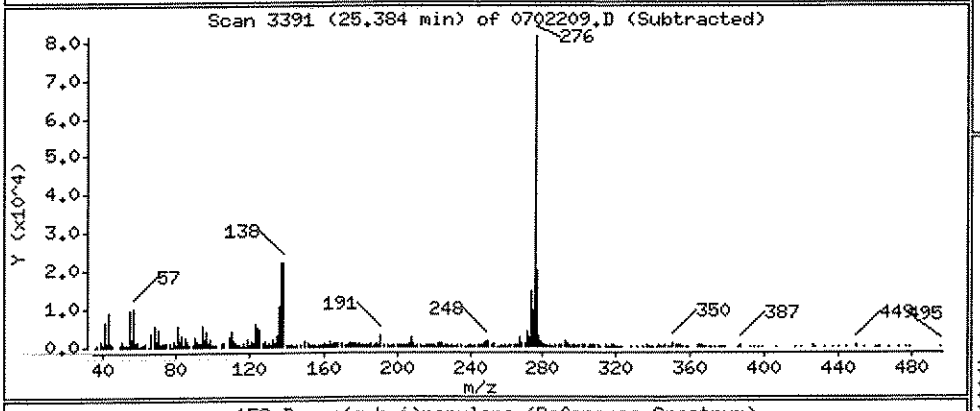
Volume Injected (uL): 0.5 Operator: SDB

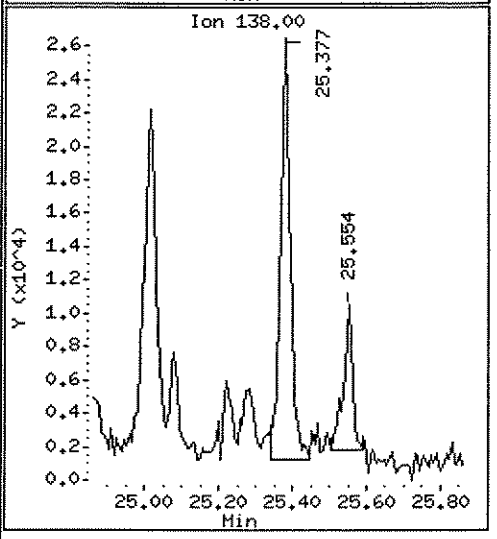
Column phase: fused silica Column diameter: 0.25

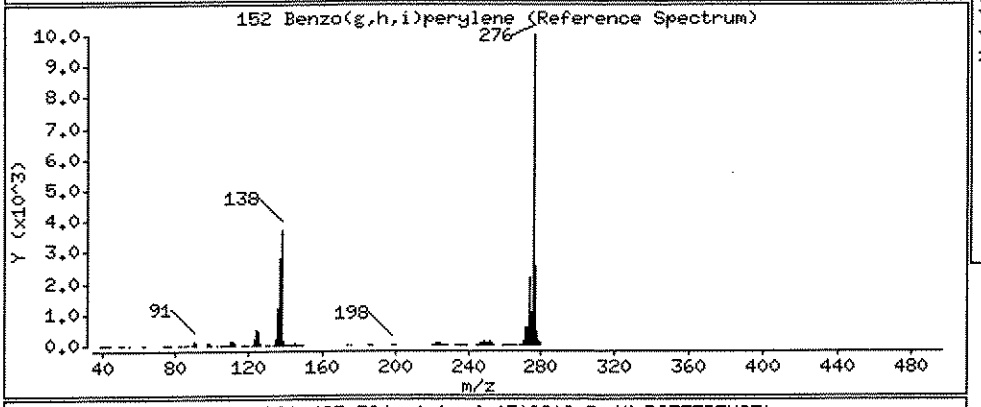
152 Benzo(g,h,i)perylene Concentration: 1668 UG/KG

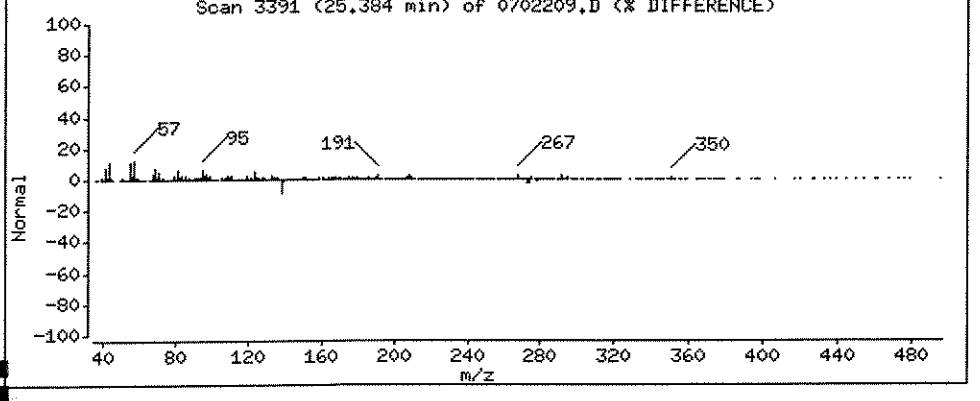












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM07S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702209D

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 15:04

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	200	1700	1000	JD
208-96-8	Acenaphthylene	200	1700		UD
120-12-7	Anthracene	200	1700	1300	JD
56-55-3	Benzo(a)anthracene	200	1700	4400	D
205-99-2	Benzo(b)fluoranthene	200	1700	5000	D
207-08-9	Benzo(k)fluoranthene	200	1700	2200	D
191-24-2	Benzo(g,h,i)perylene	200	1700	2200	D
50-32-8	Benzo(a)pyrene	200	1000	4300	D
218-01-9	Chrysene	200	1700	5400	D
53-70-3	Dibenz(a,h)anthracene	200	1000	700	JD
206-44-0	Fluoranthene	200	1700	9700	D
86-73-7	Fluorene	200	1700	960	JD
193-39-5	Indeno(1,2,3-cd)pyrene	200	1700	2400	D
91-57-6	2-Methylnaphthalene	200	1700	270	JD
90-12-0	1-Methylnaphthalene	500	1700		UD
91-20-3	Naphthalene	200	1700		UD
85-01-8	Phenanthrene	200	1700	7500	D
129-00-0	Pyrene	200	1700	7400	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 11-JUL-2006 15:04
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	97.600	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.235	4.235	(1.000)	541204	40.0000	
* 31 Naphthalene-d8	136	5.236	5.240	(1.000)	1862652	40.0000	
$ 32 Nitrobenzene-d5	82	4.668	4.668	(0.892)	116344	5.72187	1928
51 2-Methylnaphthalene	141	5.996	6.004	(1.145)	21119	0.79362	267.5(a)
* 65 Acenaphthene-d10	164	7.640	7.641	(1.000)	930885	40.0000	
$ 70 2-Fluorobiphenyl	172	6.544	6.555	(0.857)	160915	5.43197	1831
76 Acenaphthene	153	7.688	7.703	(1.006)	79618	2.96355	998.8(a)
84 Fluorene	166	8.716	8.727	(1.141)	81781	2.84610	959.2(a)
* 97 Phenanthrene-d10	188	10.926	10.923	(1.000)	1267737	40.0000	
106 Phenanthrene	178	10.975	10.986	(1.004)	808314	22.3625	7537
107 Anthracene	178	11.078	11.096	(1.014)	137306	3.84766	1297(a)
110 Fluoranthene	202	14.191	14.195	(1.299)	1028549	28.7417	9687
* 124 Chrysene-d12	240	18.336	18.333	(1.000)	1006098	40.0000	

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Report Date: 12-Jul-2006 12:13

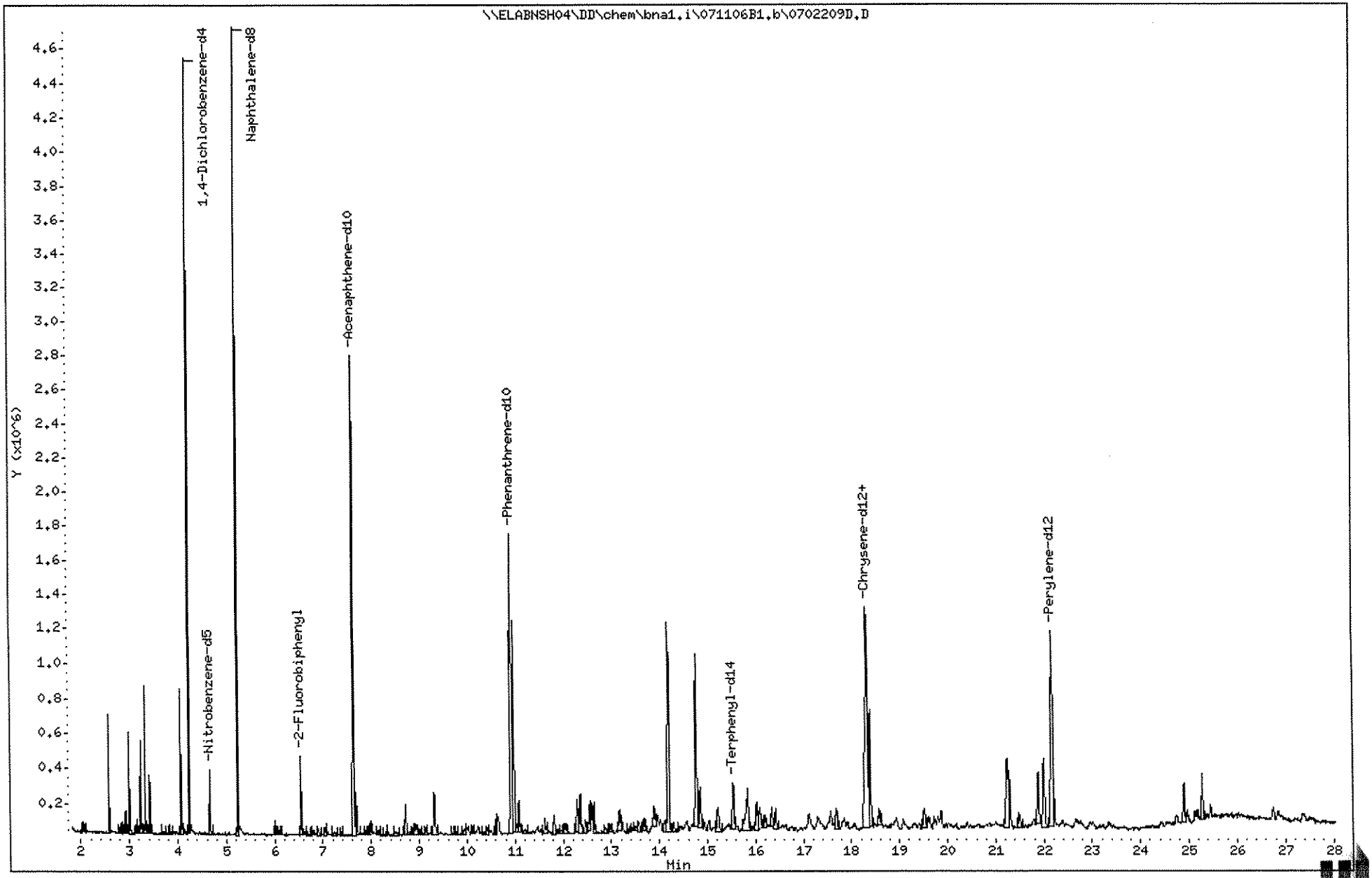
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.772	14.770	(0.806)	877292	21.8340	7359
$ 127 Terphenyl-d14	244	15.539	15.545	(0.847)	124553	4.90264	1652(aR)
130 Benzo(a)anthracene	228	18.287	18.291	(0.997)	419531	12.9419	4362
131 Chrysene	228	18.398	18.409	(1.003)	471383	15.9209	5366
* 145 Perylene-d12	264	22.181	22.175	(1.000)	1014347	40.0000	
147 Benzo(b)fluoranthene	252	21.236	21.248	(0.957)	468758	15.0020	5056(M)
148 Benzo(k)fluoranthene	252	21.285	21.317	(0.960)	208980	6.44639	2173(M)
149 Benzo(a)pyrene	252	22.001	22.017	(0.992)	345657	12.8288	4324
150 Indeno(1,2,3-cd)pyrene	276	24.902	24.921	(1.123)	166241	7.23164	2437
151 Dibenz(a,h)anthracene	278	24.972	24.998	(1.126)	48202	2.08283	702.0(a)
152 Benzo(g,h,i)perylene	276	25.280	25.301	(1.140)	158551	6.64626	2240

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D
Date : 11-JUL-2006 15:04
Client ID: 51CFM07S060706
Instrument: bna1.i
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000253



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Date : 11-JUL-2006 15:04

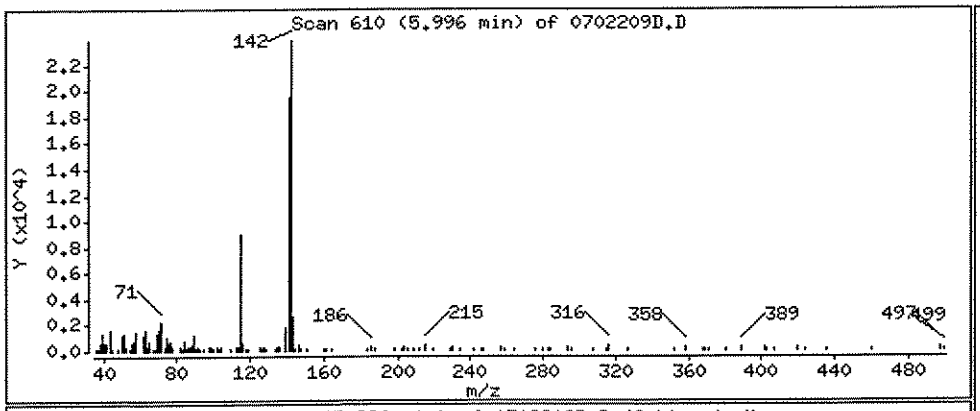
Client ID: 51CFM07S060706 Instrument: bna1.i

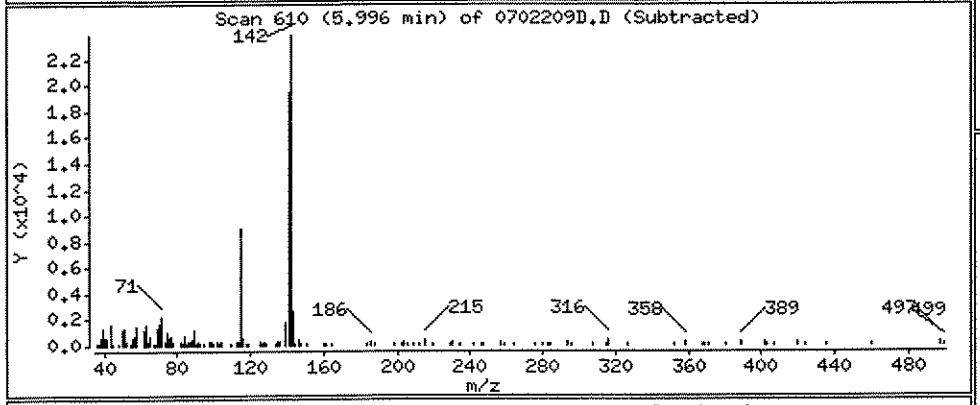
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

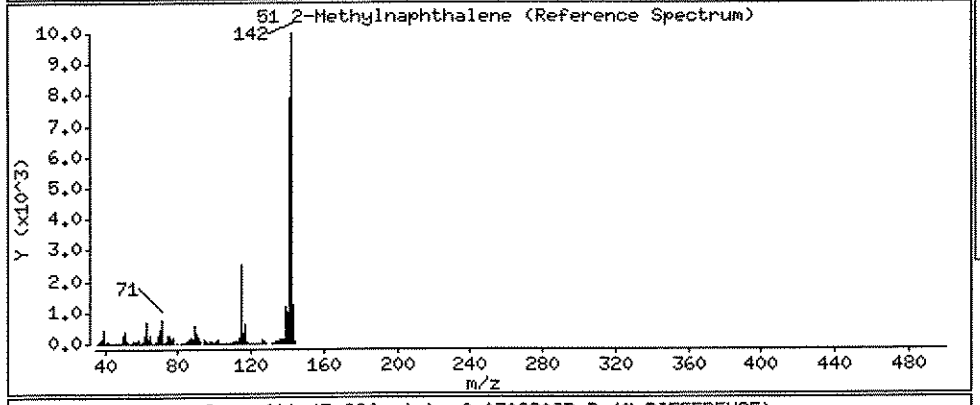
Volume Injected (uL): 0.5 Operator: SDB

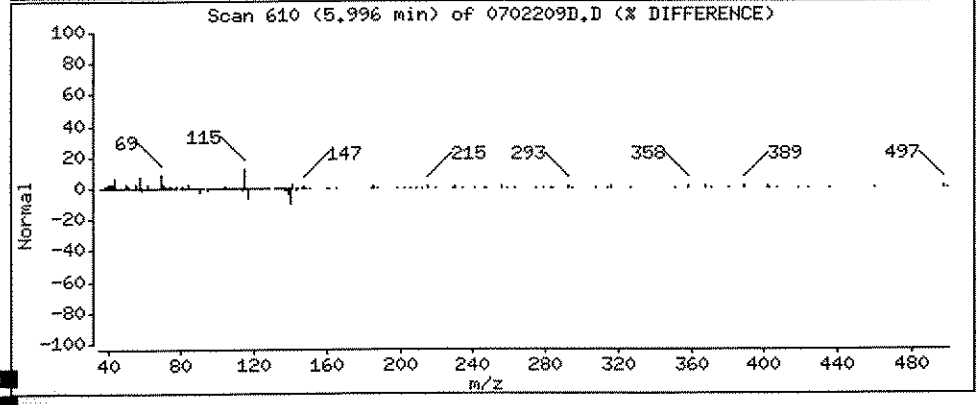
Column phase: fused silica Column diameter: 0.25

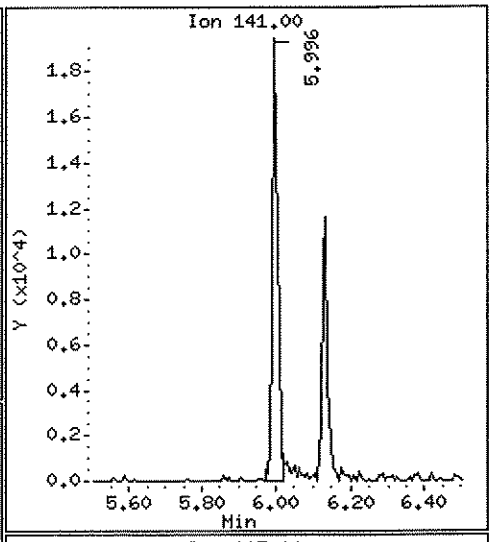
51 2-Methylnaphthalene Concentration: 267.5 UG/KG

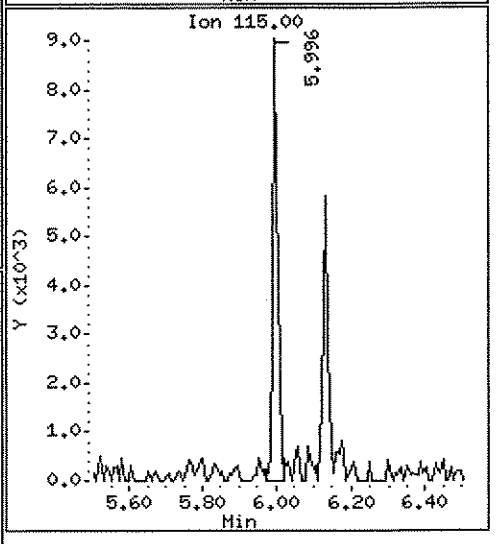












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Date : 11-JUL-2006 15:04

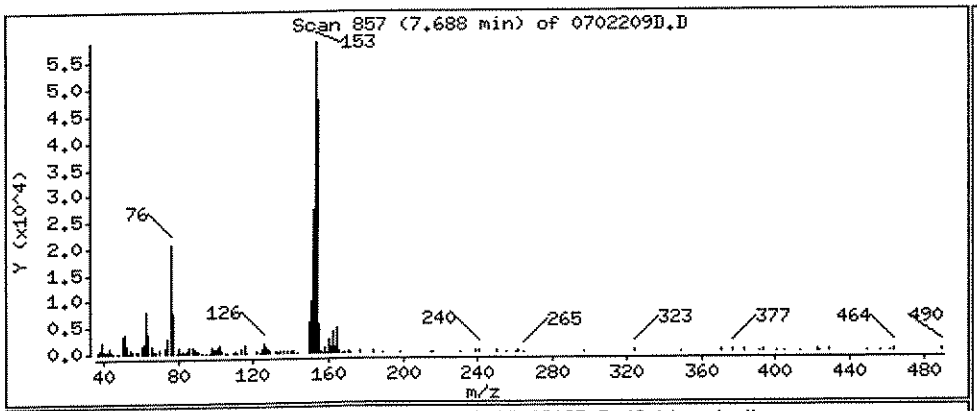
Client ID: 51CFM07S060706 Instrument: bna1.i

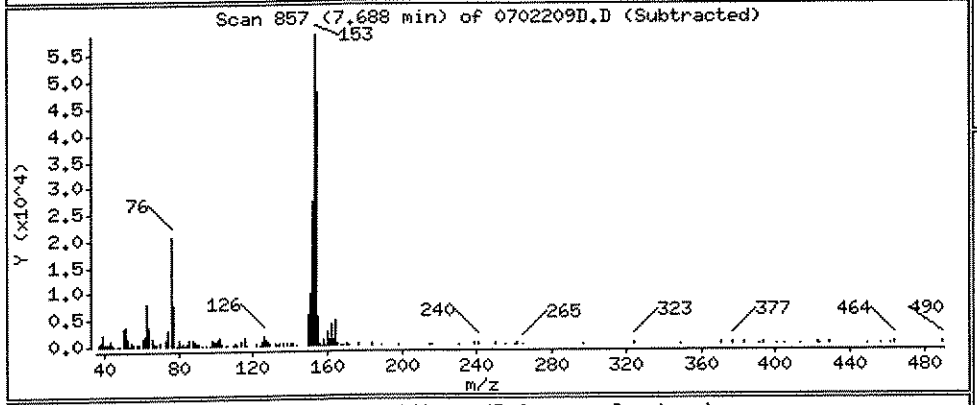
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

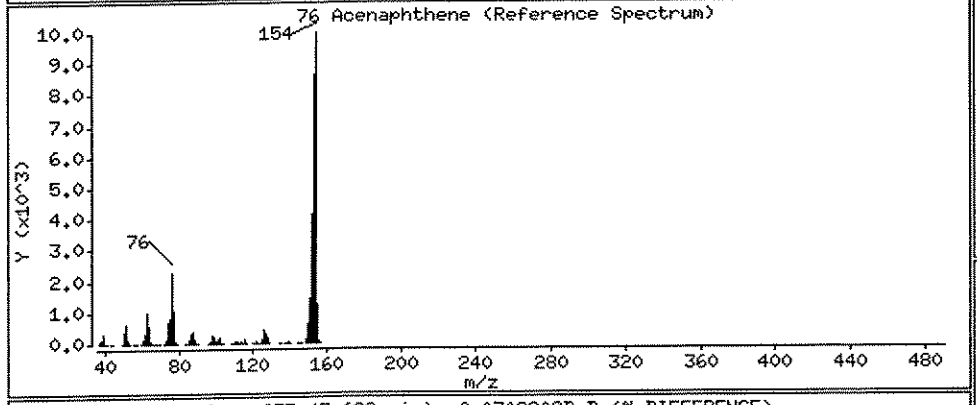
Volume Injected (uL): 0.5 Operator: SDB

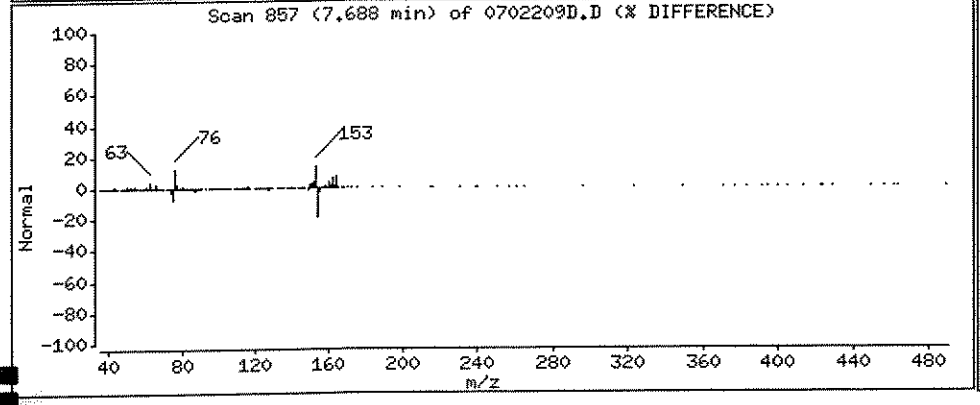
Column phase: fused silica Column diameter: 0.25

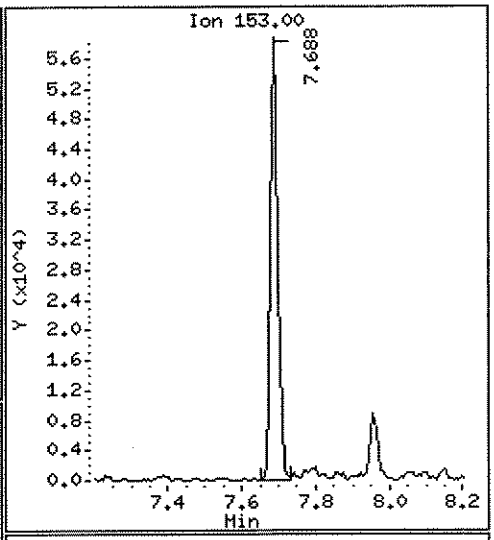
76 Acenaphthene Concentration: 998.8 UG/KG

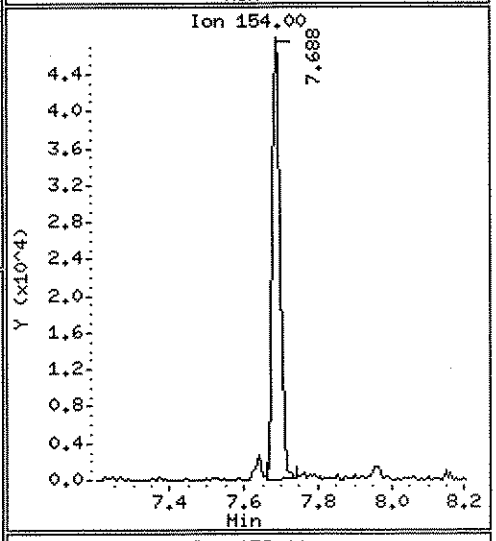


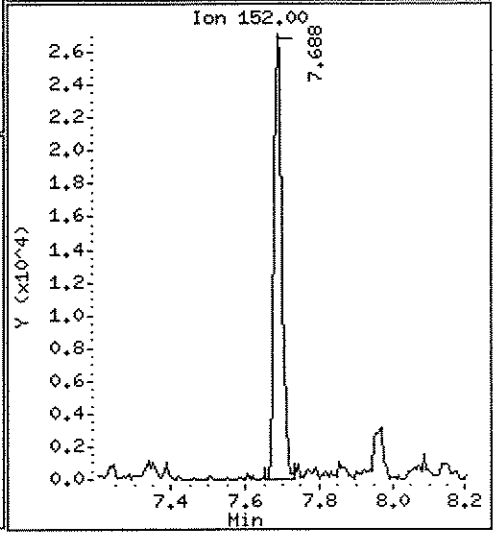












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000255

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Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

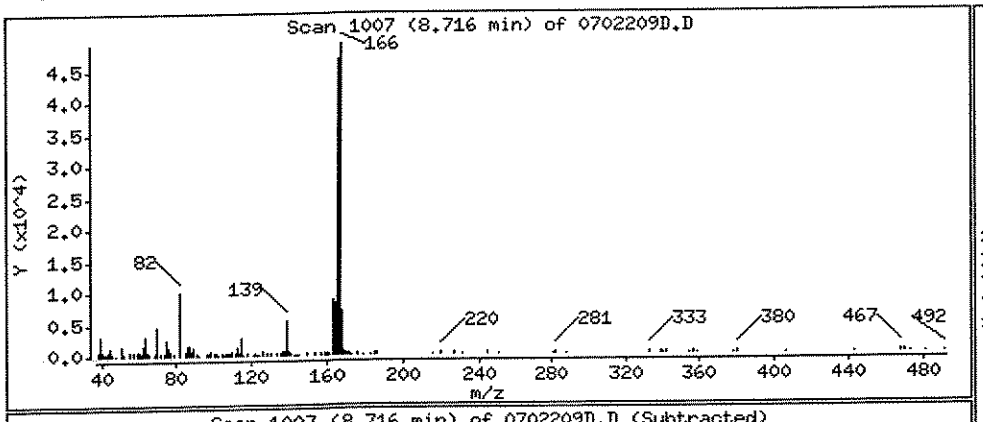
Operator: SDB

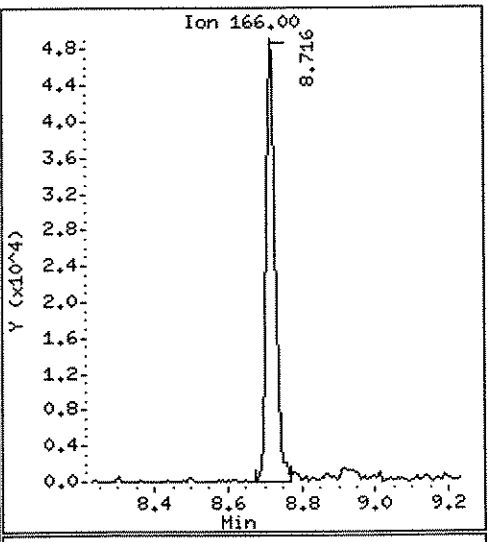
Column phase: fused silica

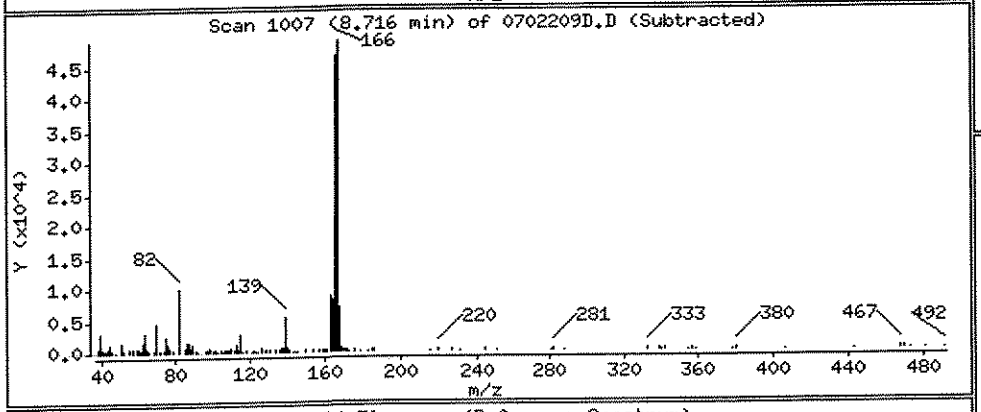
Column diameter: 0.25

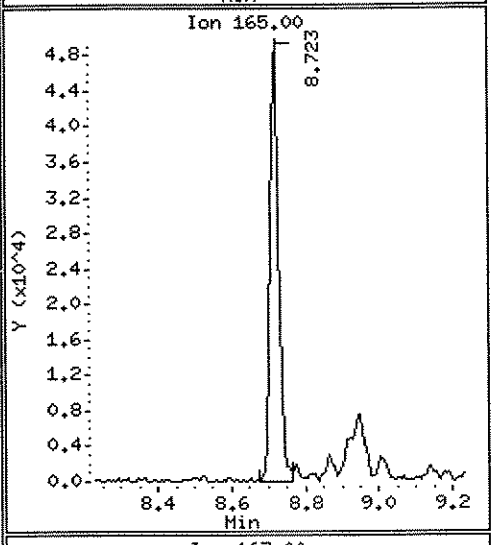
84 Fluorene

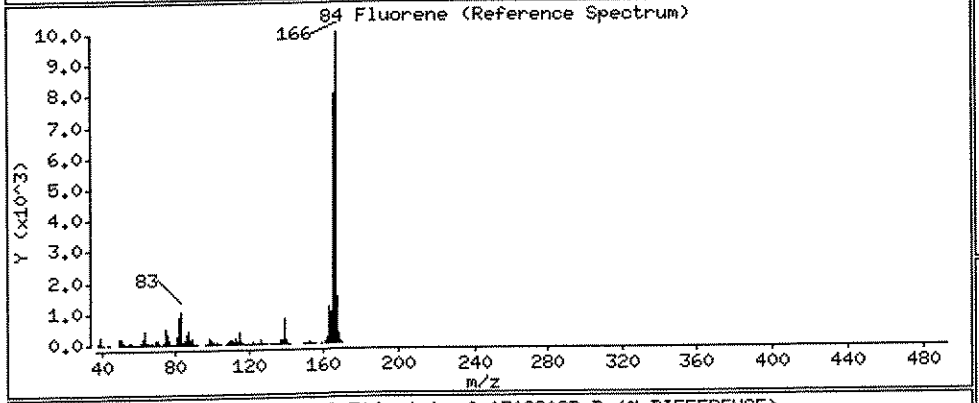
Concentration: 959.2 UG/KG

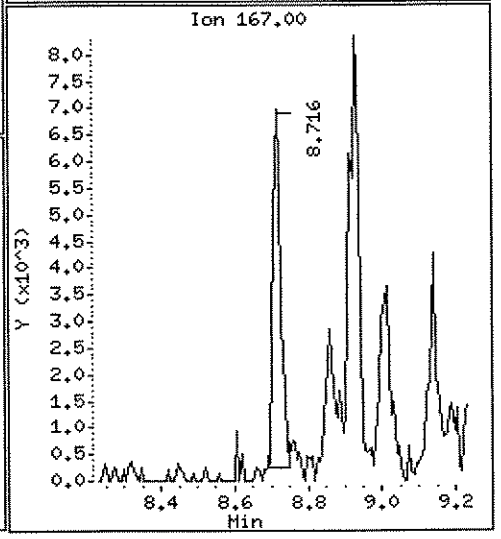


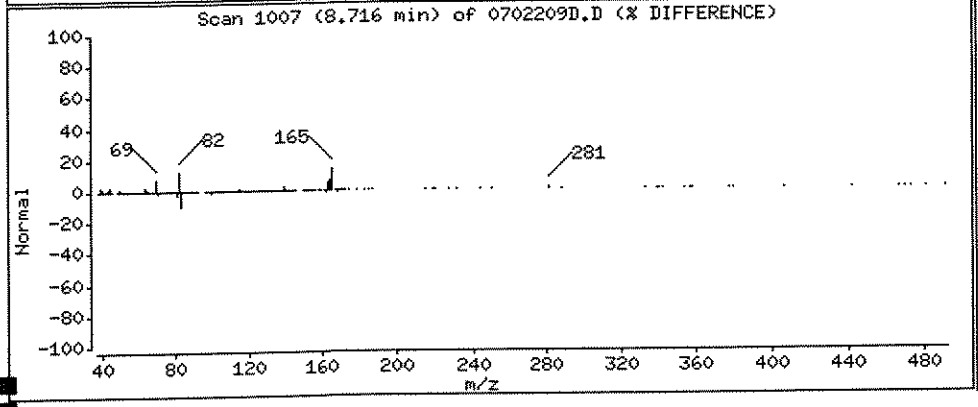












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

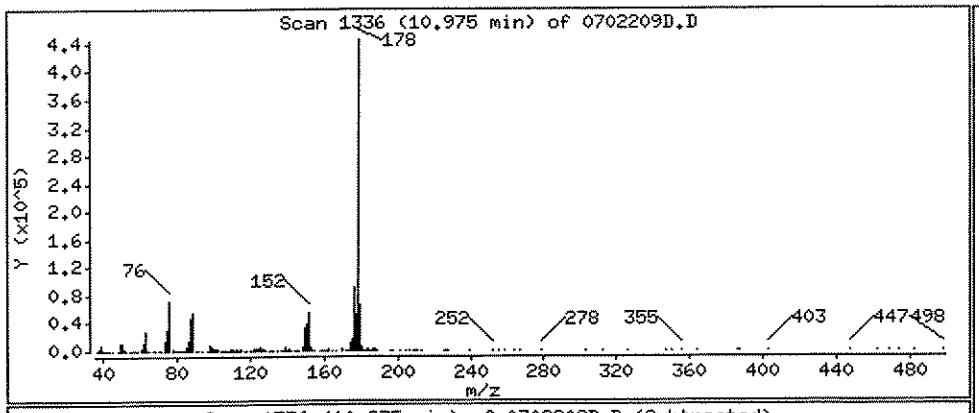
Client ID: 51CFM07S060706 Instrument: bna1.i

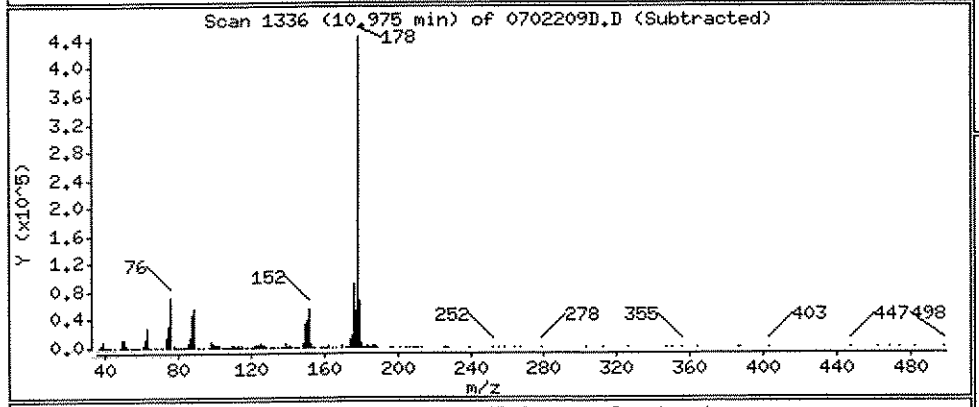
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

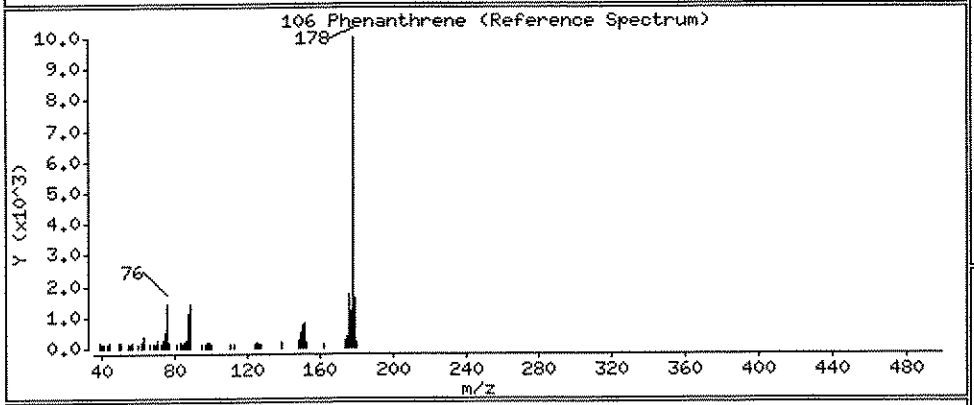
Volume Injected (uL): 0.5 Operator: SDB

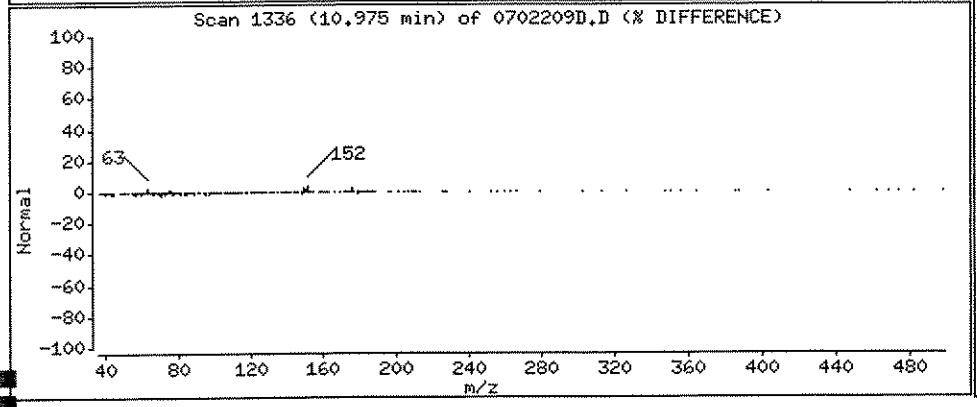
Column phase: fused silica Column diameter: 0.25

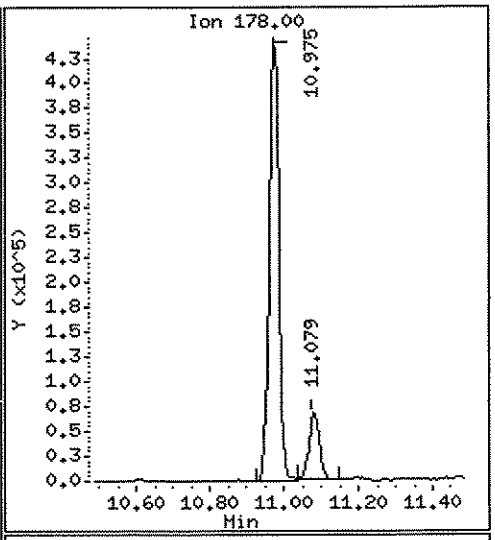
106 Phenanthrene Concentration: 7537 UG/KG

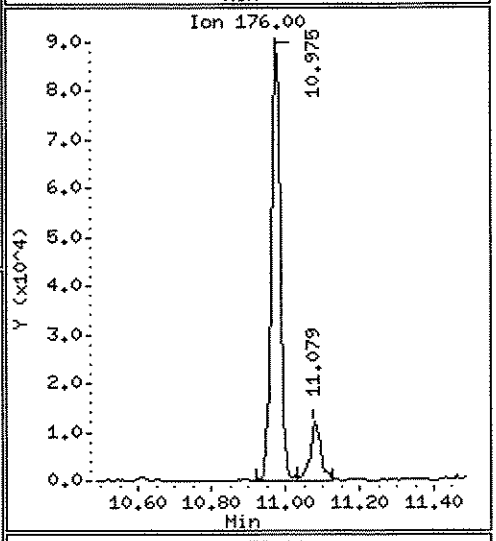


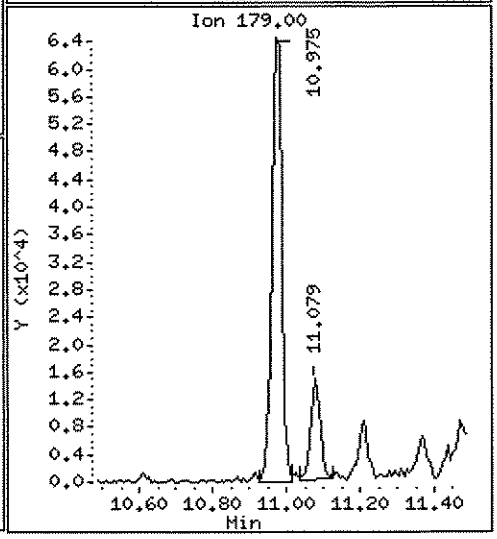












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

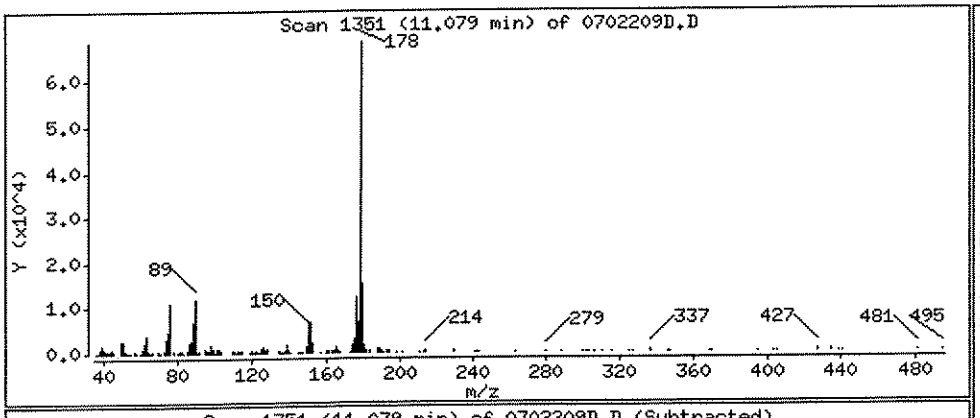
Client ID: 51CFM07S060706 Instrument: bna1.i

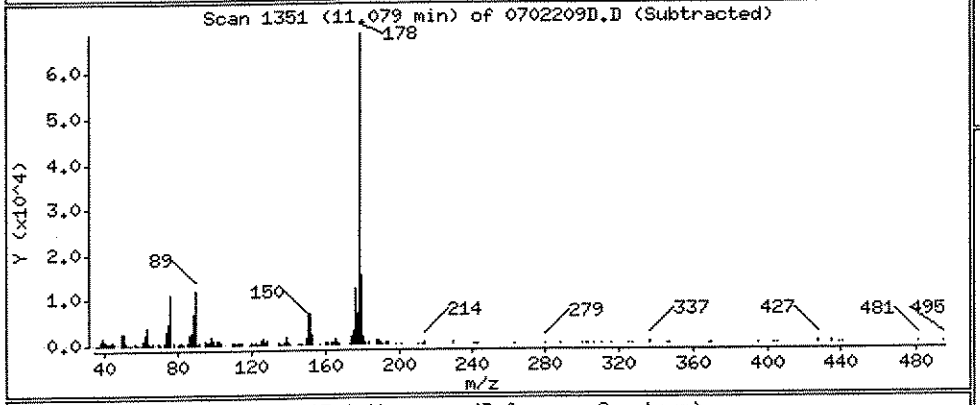
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

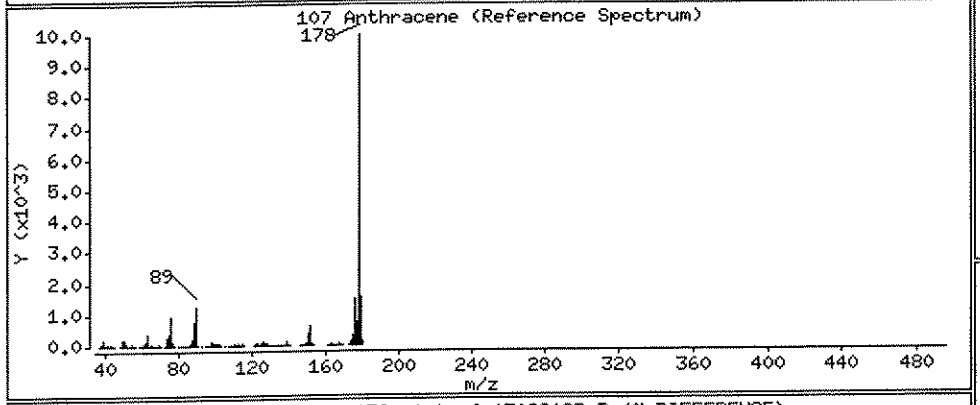
Volume Injected (uL): 0.5 Operator: SDB

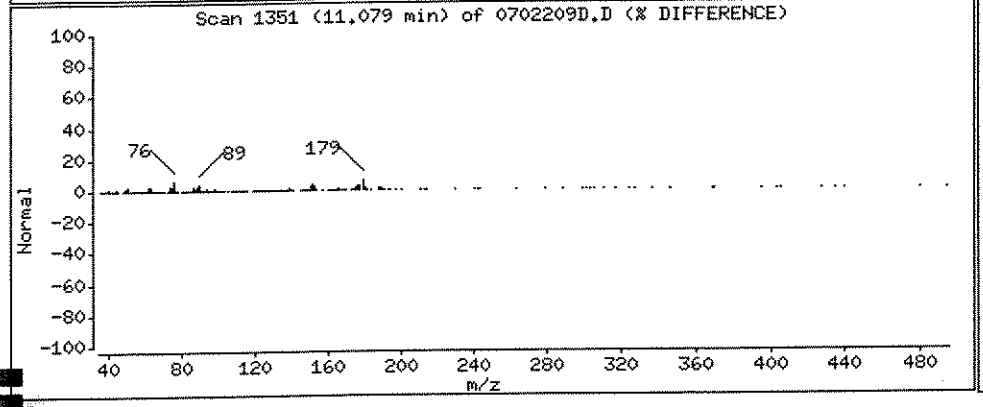
Column phase: fused silica Column diameter: 0.25

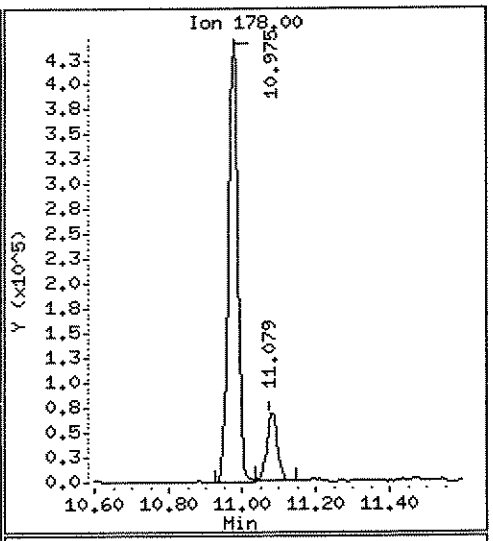
107 Anthracene Concentration: 1297 UG/KG

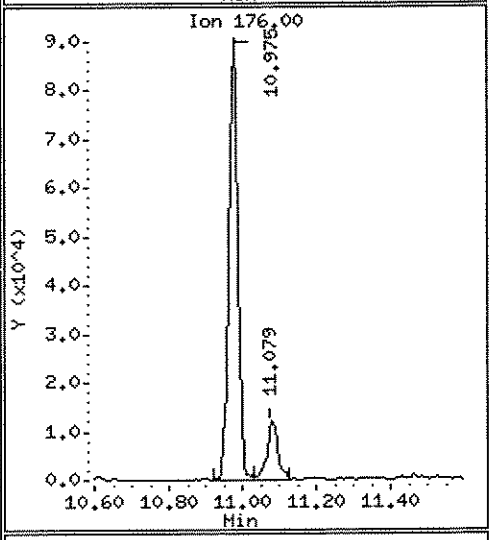


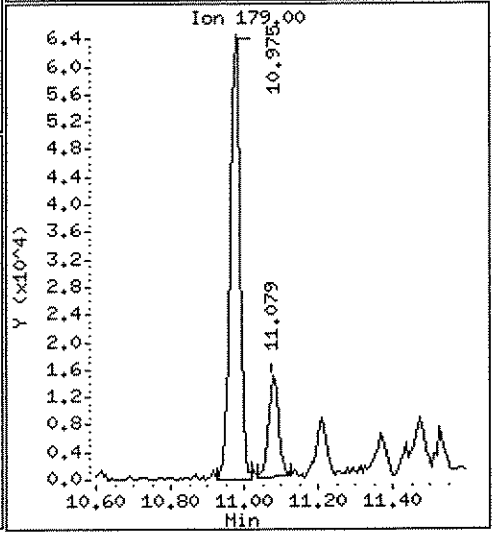












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

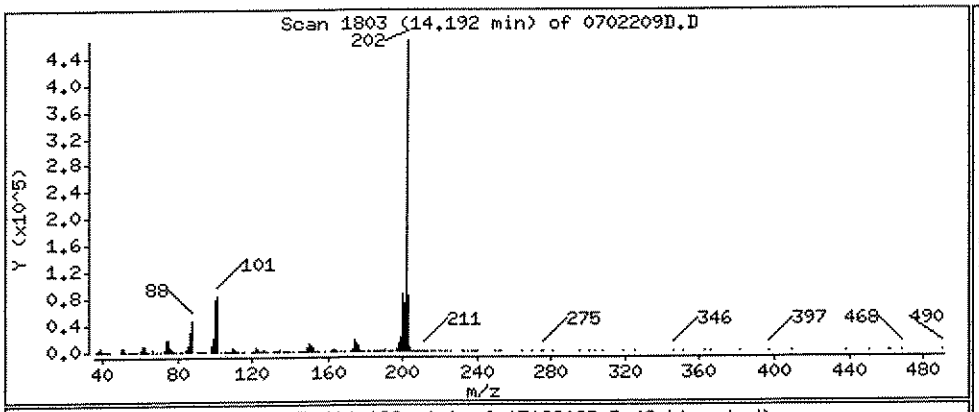
Client ID: 51CFM07S060706 Instrument: bna1.i

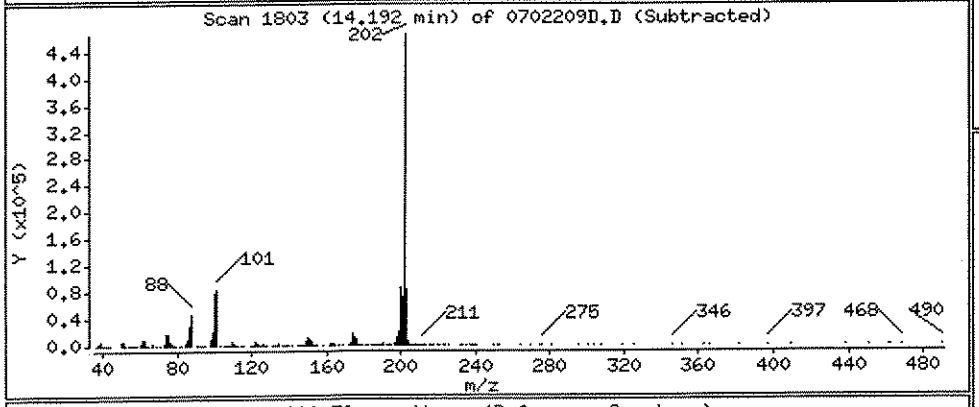
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

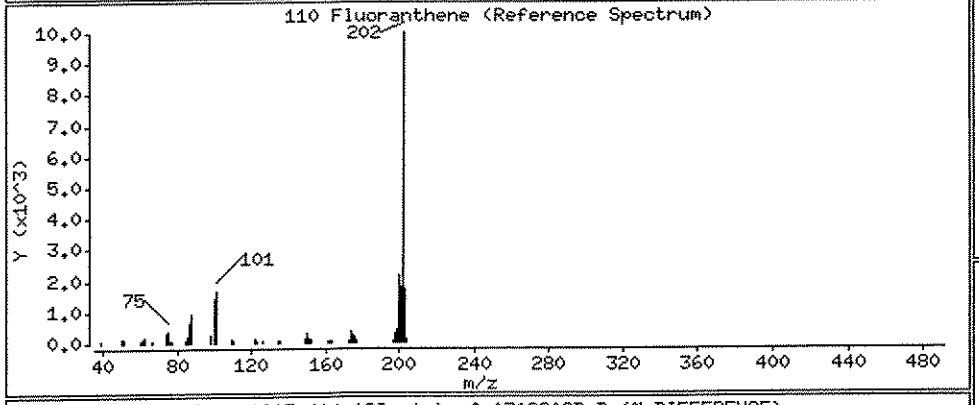
Volume Injected (uL): 0.5 Operator: SDB

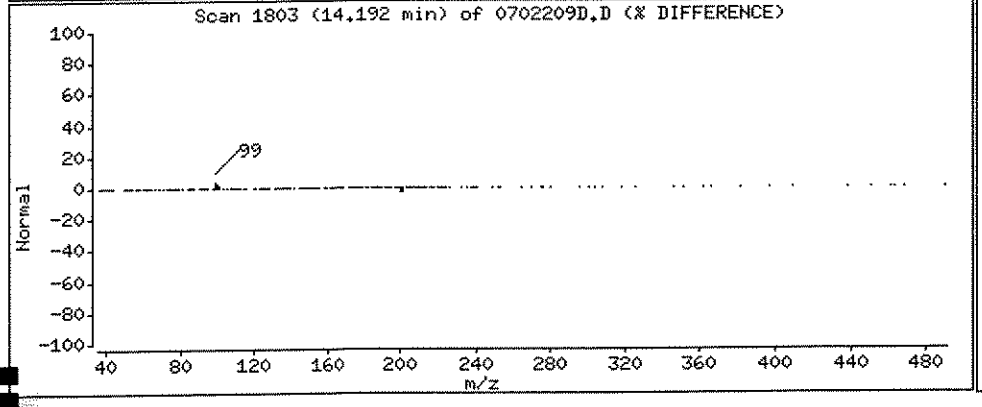
Column phase: fused silica Column diameter: 0.25

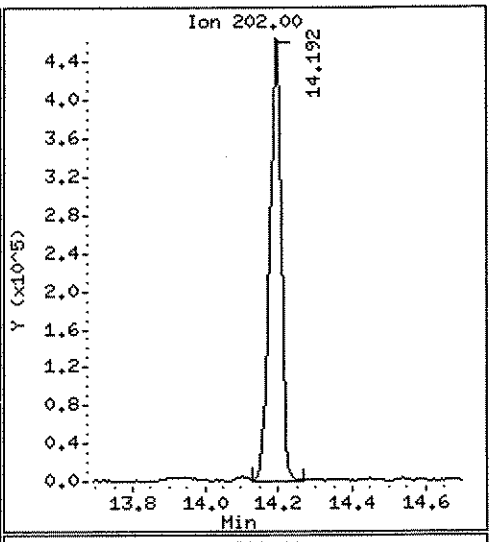
110 Fluoranthene Concentration: 9687 UG/KG

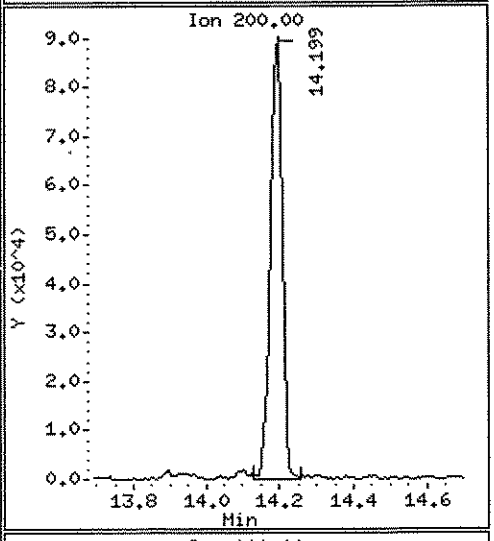


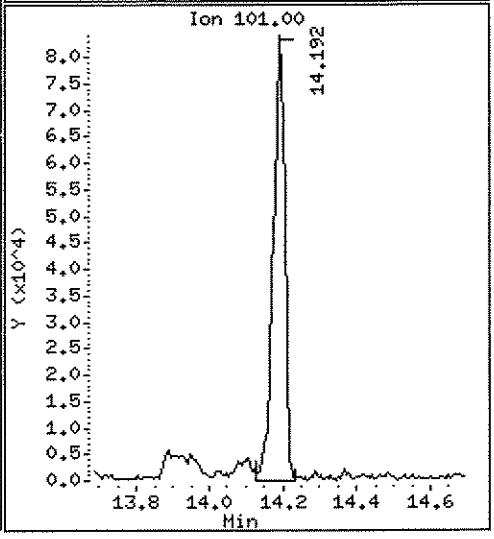












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

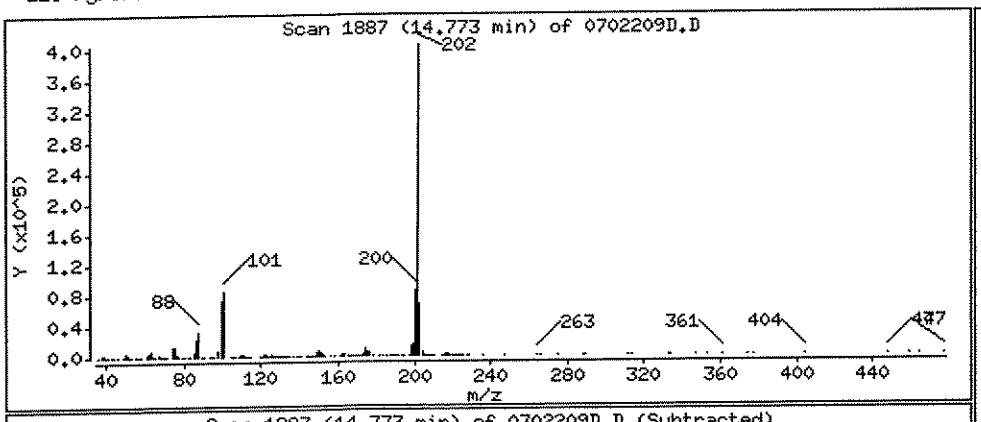
Operator: SDB

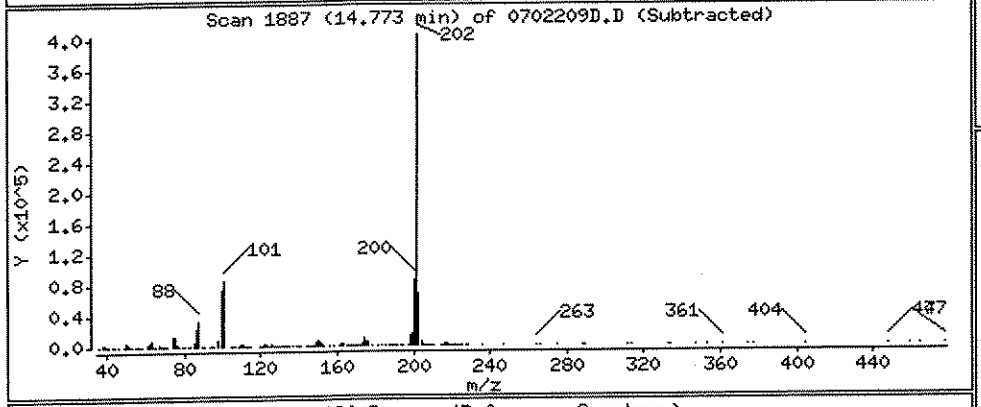
Column phase: fused silica

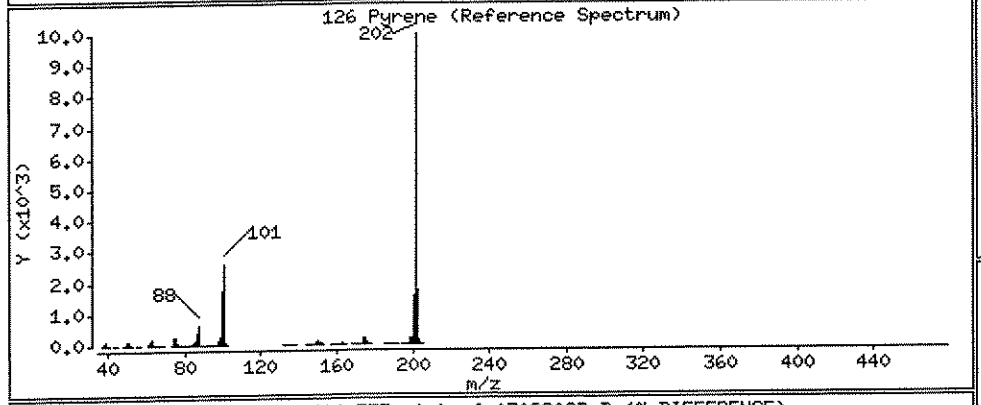
Column diameter: 0.25

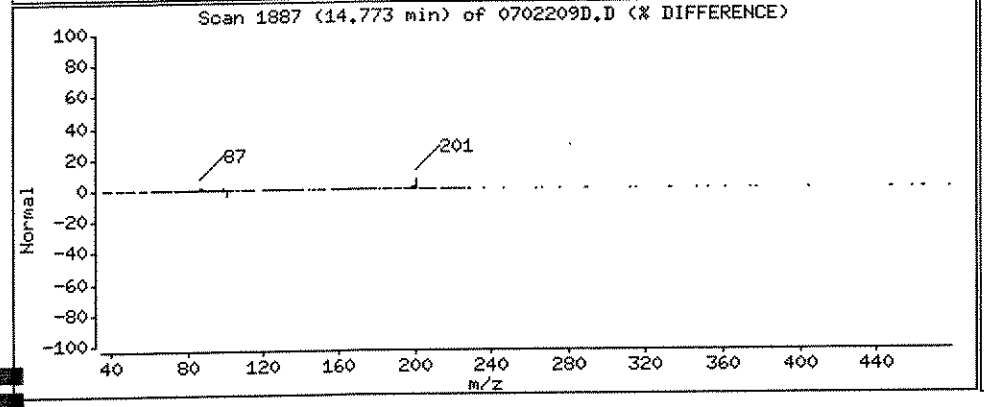
126 Pyrene

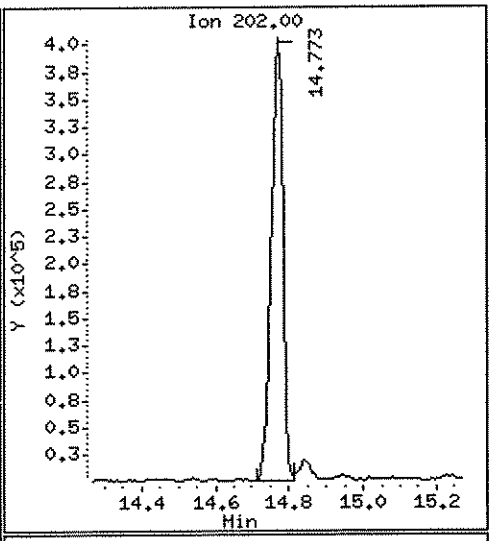
Concentration: 7359 UG/KG

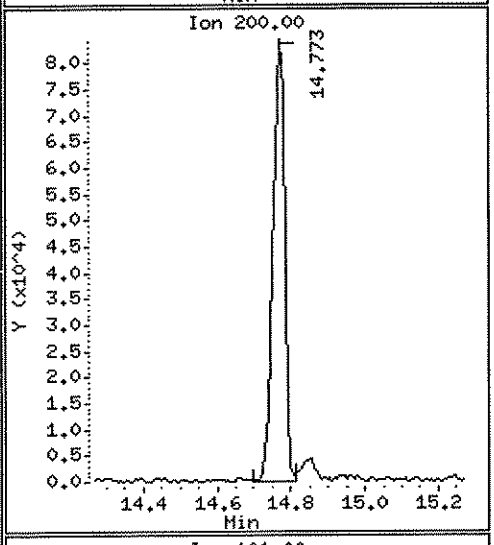


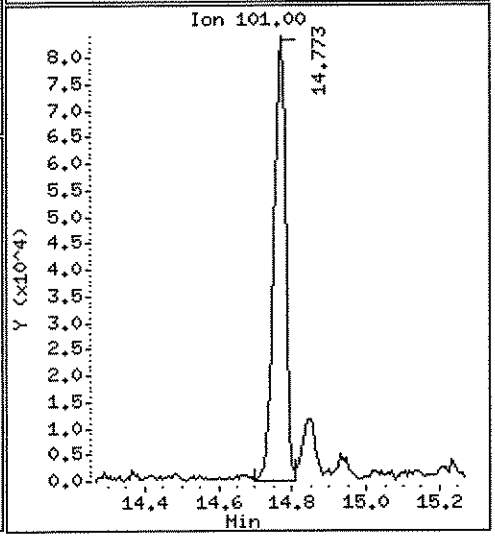












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000260

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

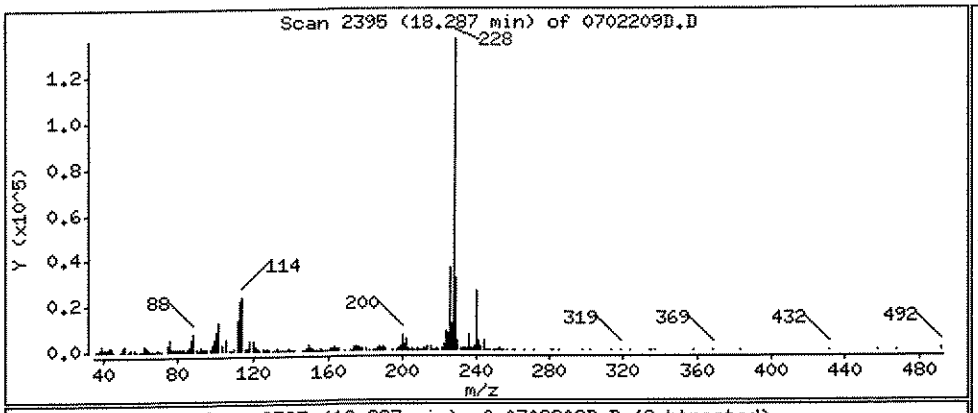
Client ID: 51CFM07S060706 Instrument: bna1.i

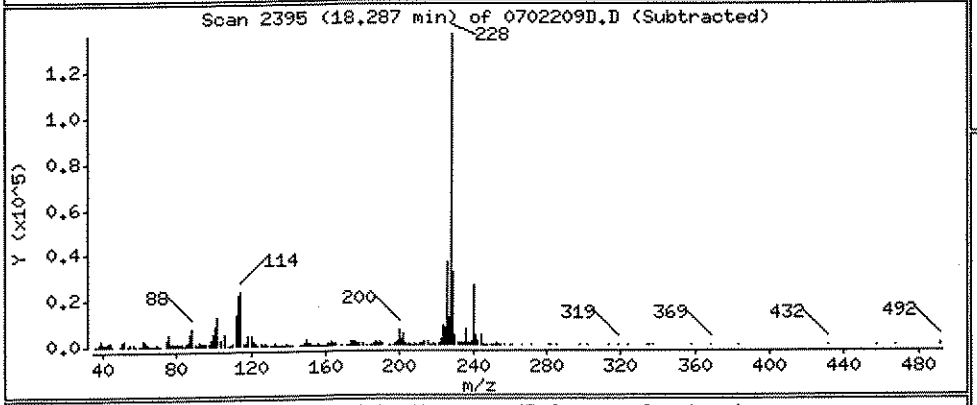
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

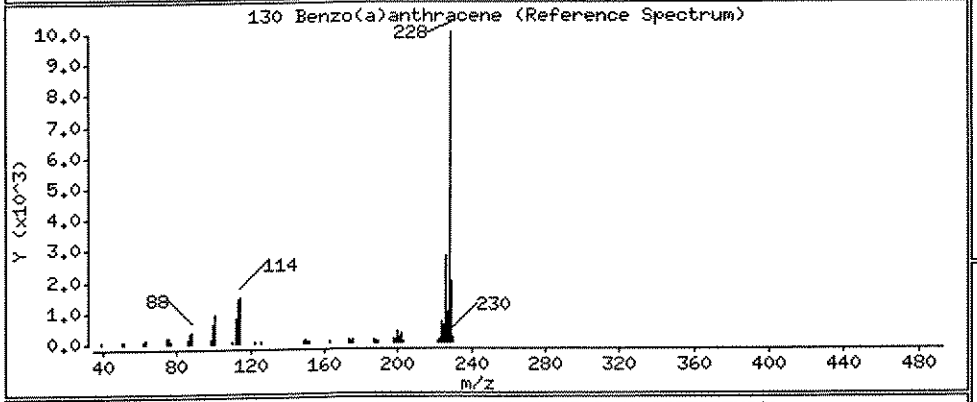
Volume Injected (uL): 0.5 Operator: SDB

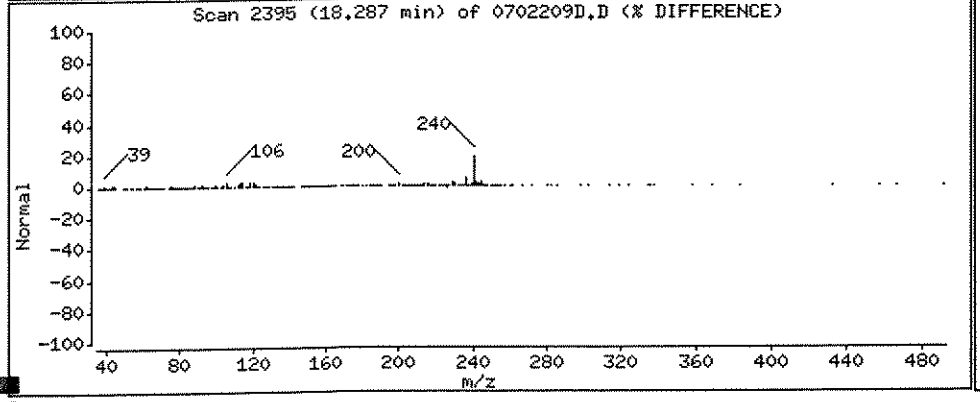
Column phase: fused silica Column diameter: 0.25

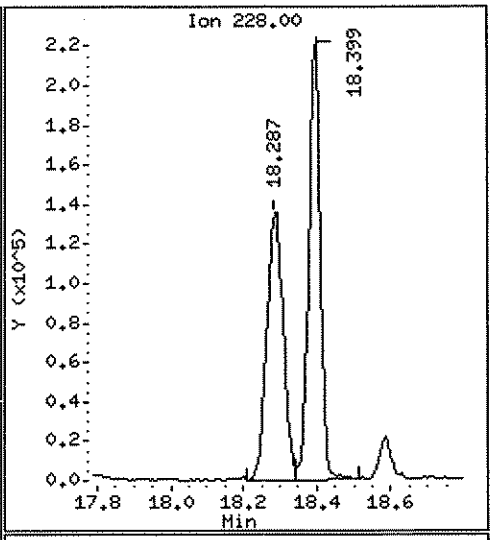
130 Benzo(a)anthracene Concentration: 4362 UG/KG

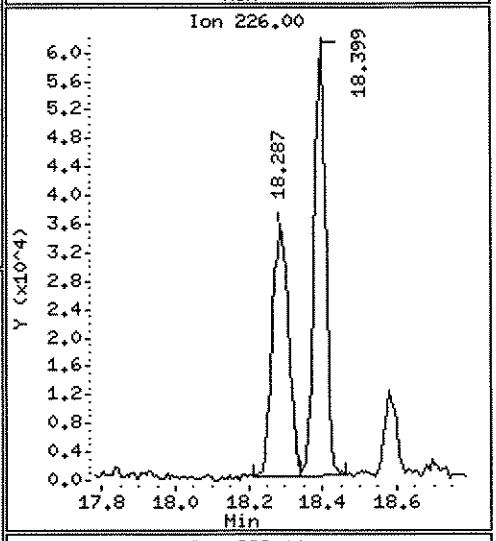


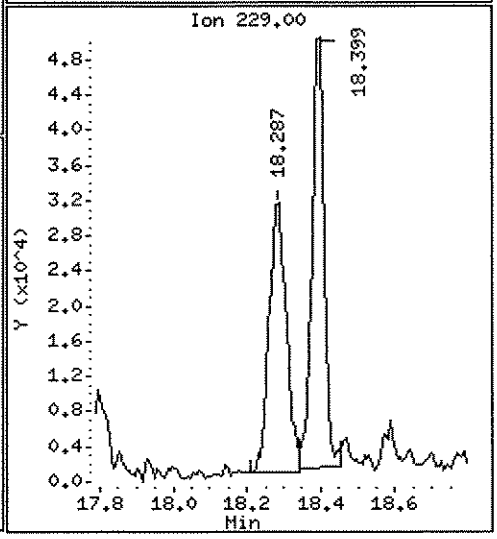












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

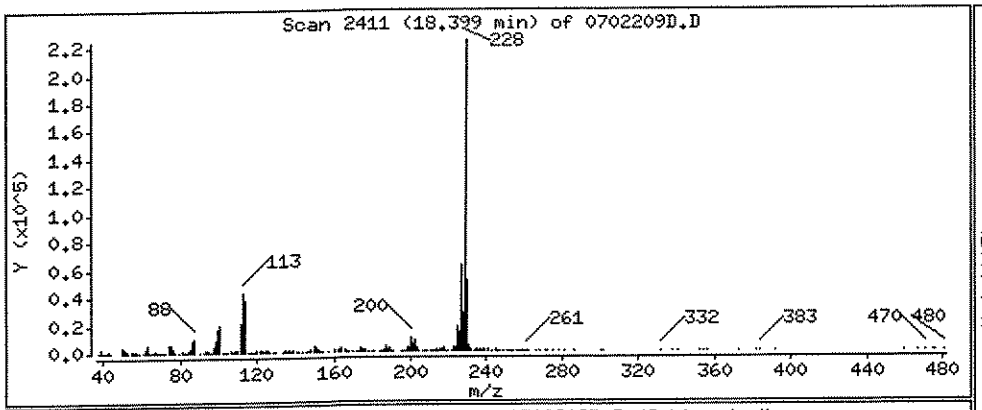
Client ID: 51CFM07S060706 Instrument: bna1.i

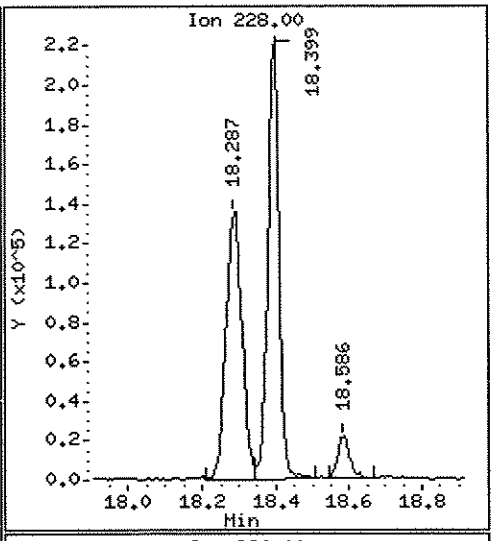
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

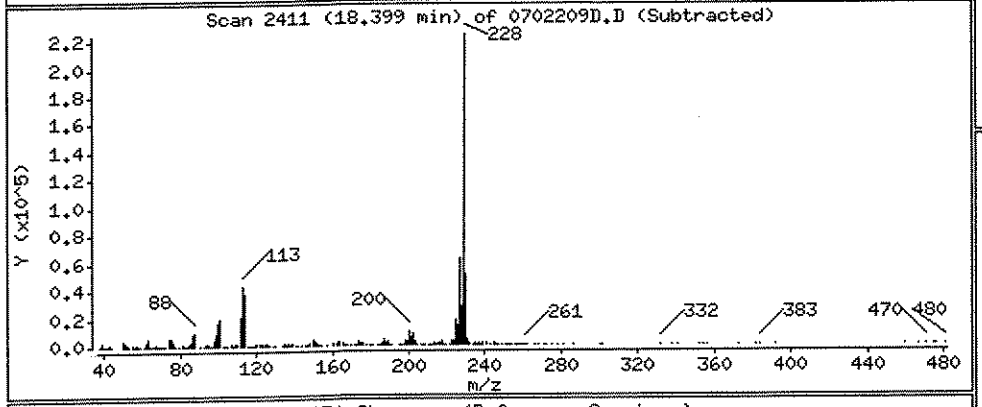
Volume Injected (uL): 0.5 Operator: SDB

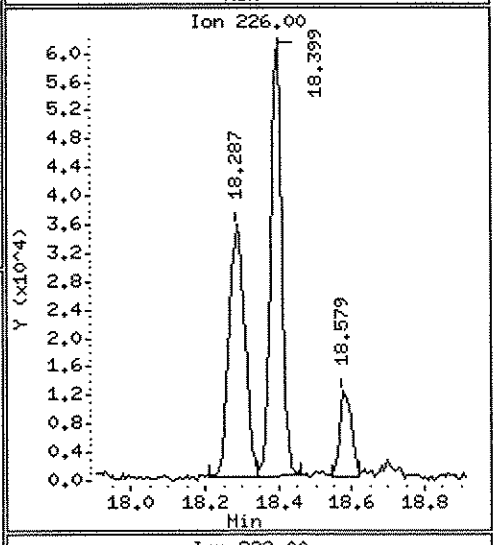
Column phase: fused silica Column diameter: 0.25

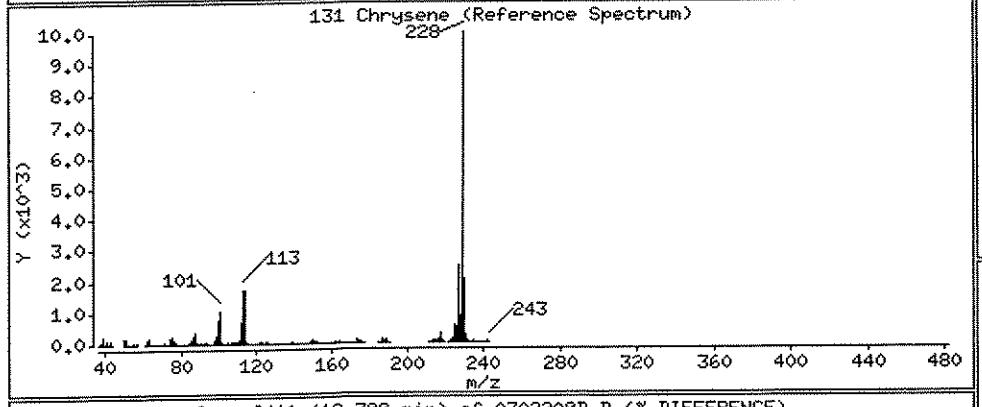
131 Chrysene Concentration: 5366 UG/KG

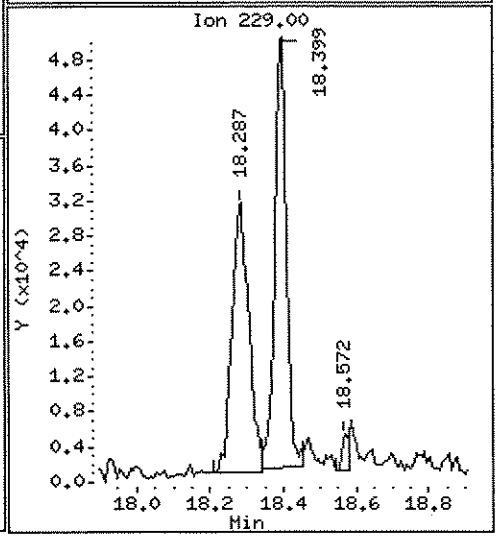


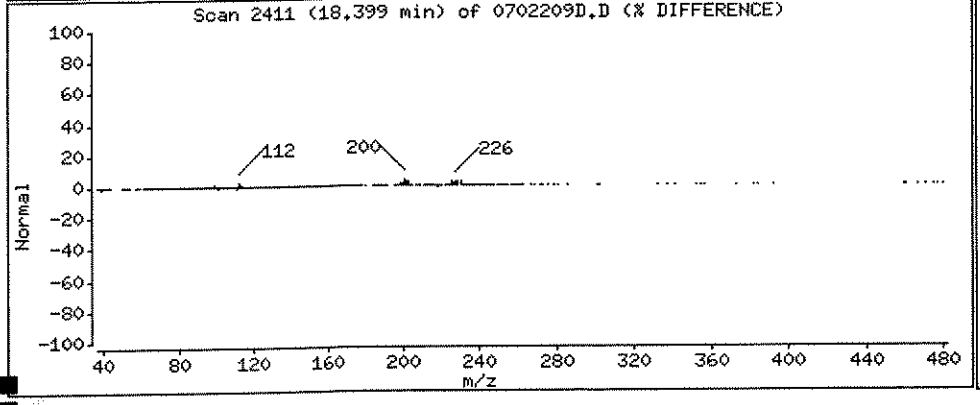












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

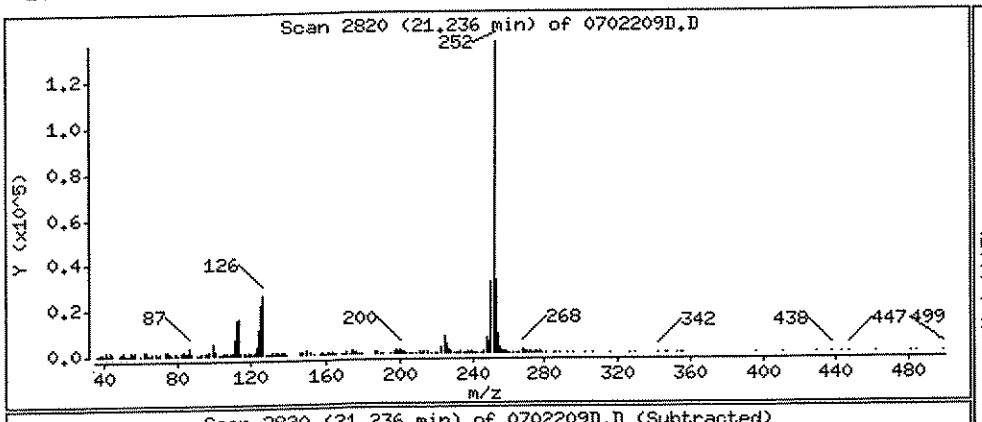
Operator: SDB

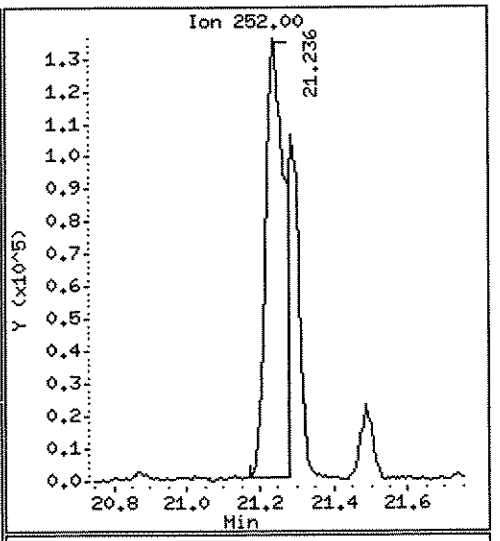
Column phase: fused silica

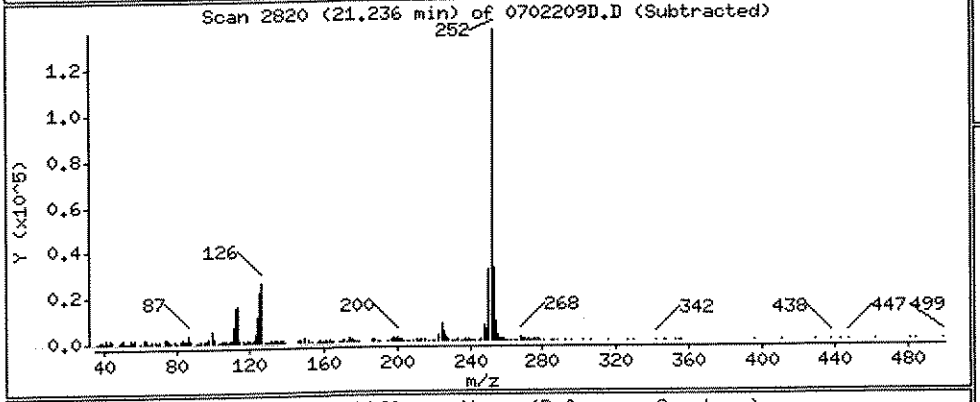
Column diameter: 0.25

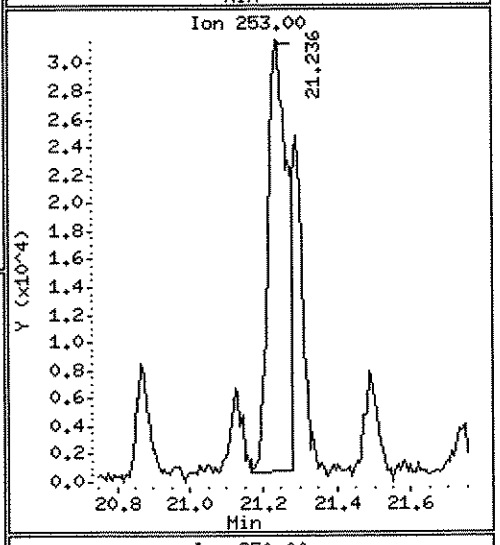
147 Benzo(b)fluoranthene

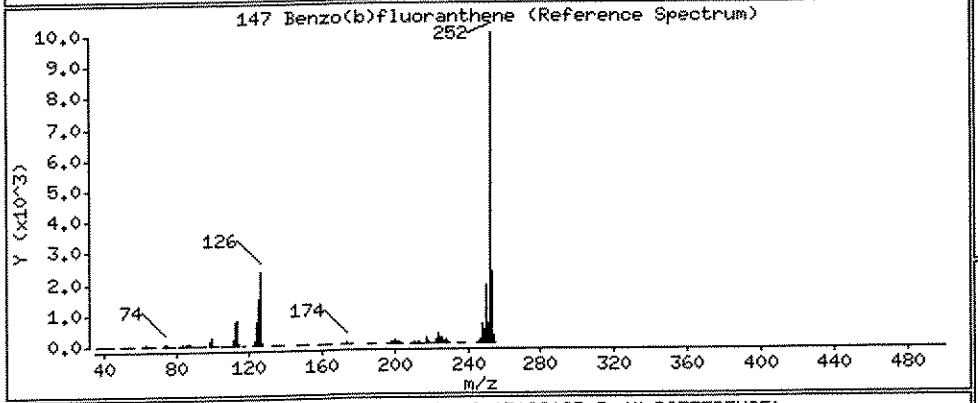
Concentration: 5056 UG/KG

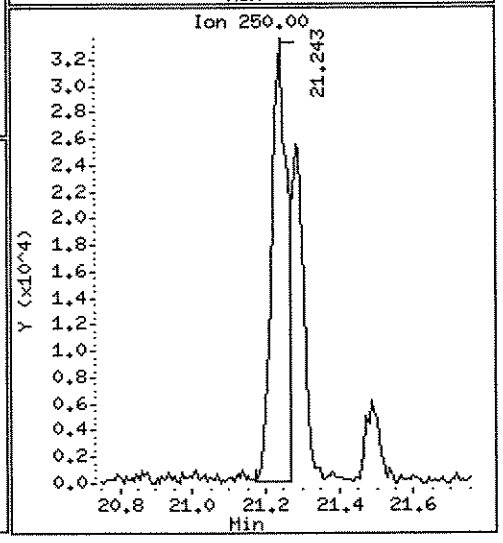


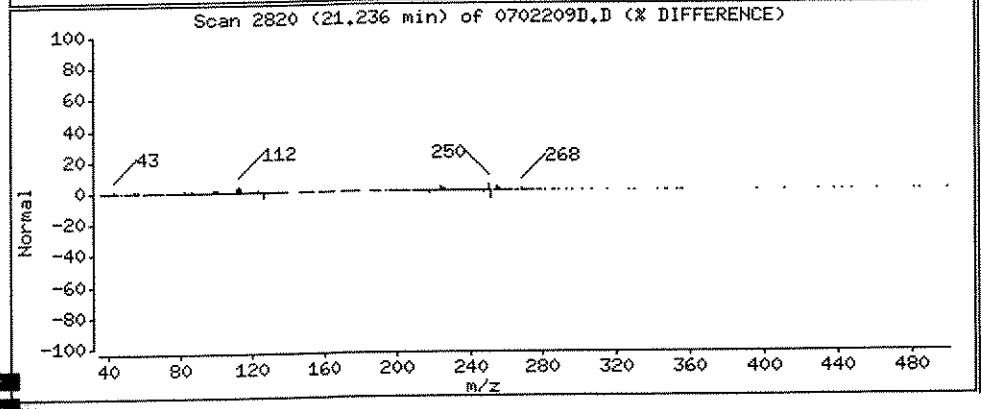












Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

Client ID: 51CFM07S060706

Instrument: bna1.i

Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

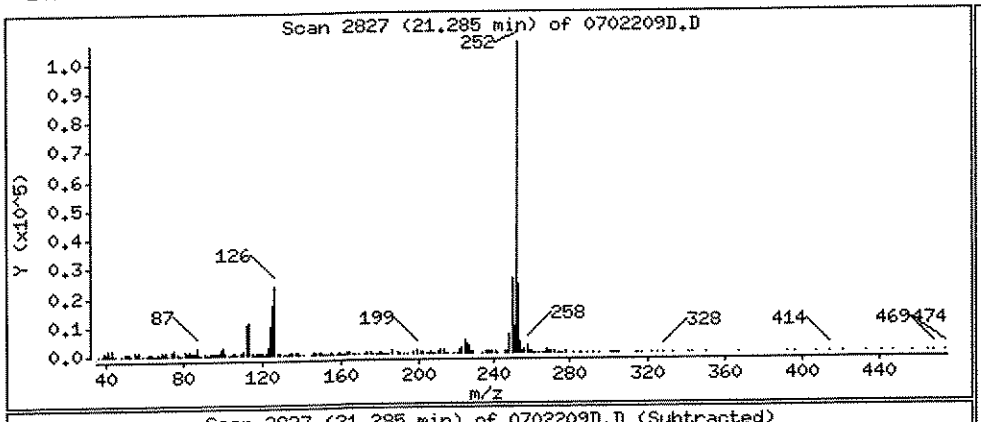
Operator: SDB

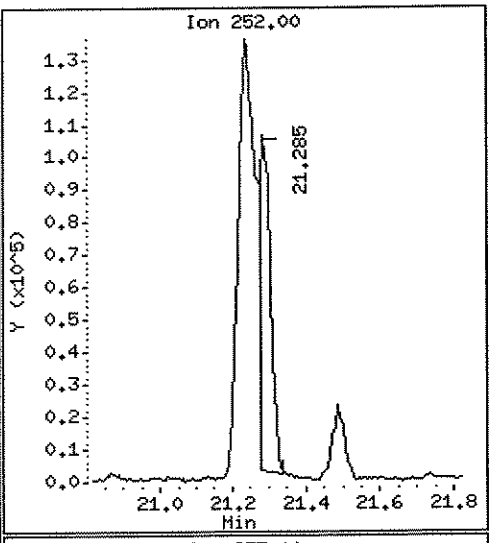
Column phase: fused silica

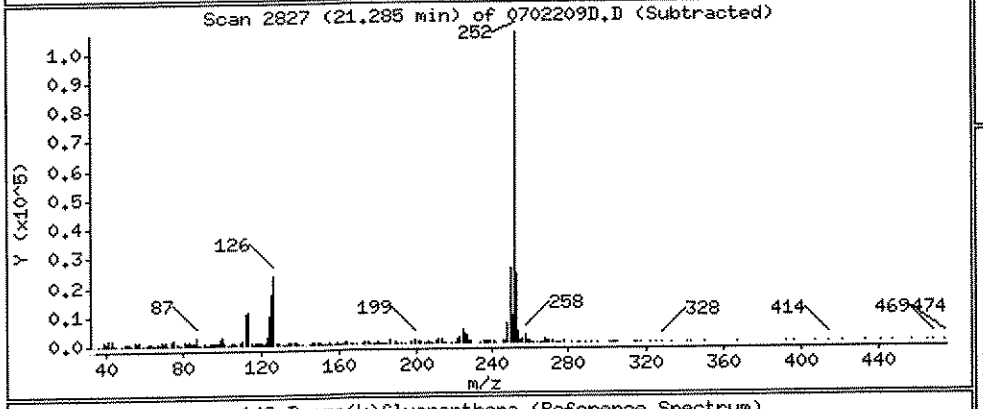
Column diameter: 0.25

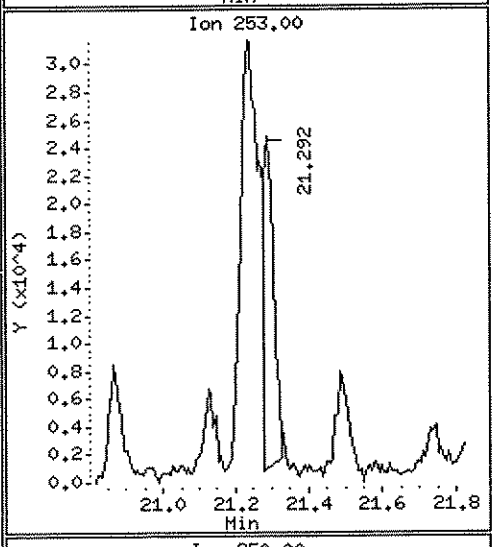
148 Benzo(k)fluoranthene

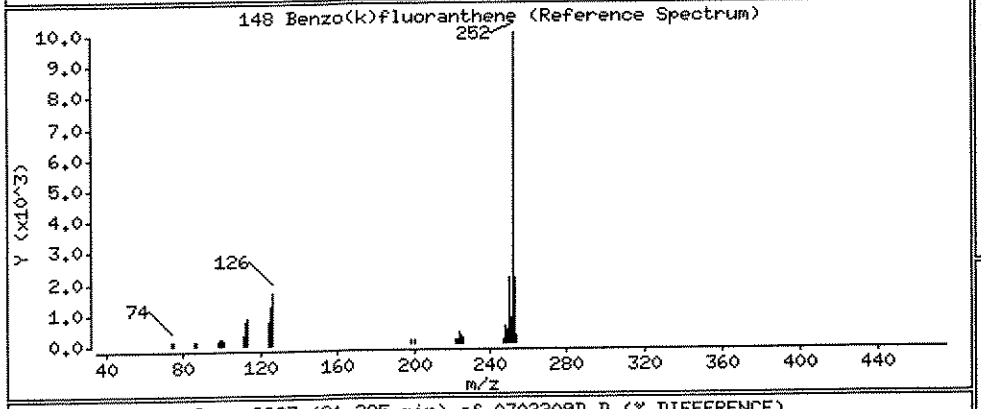
Concentration: 2173 UG/KG

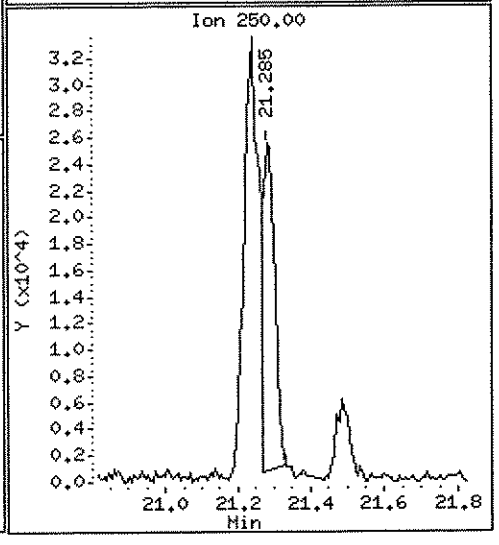


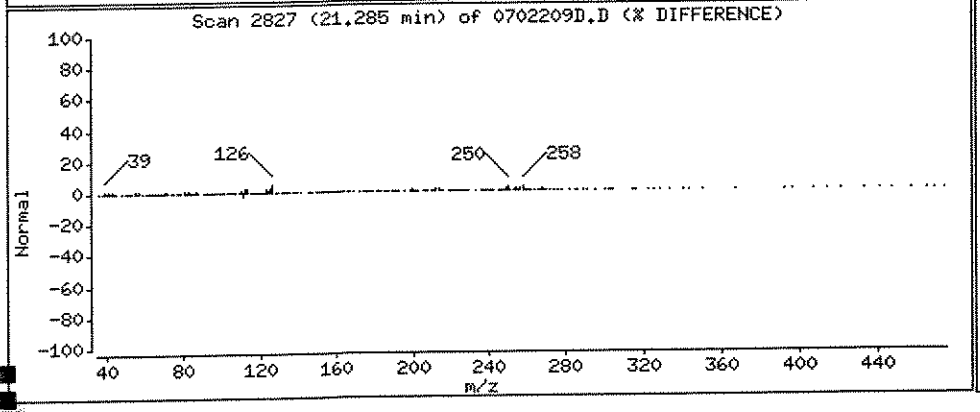












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

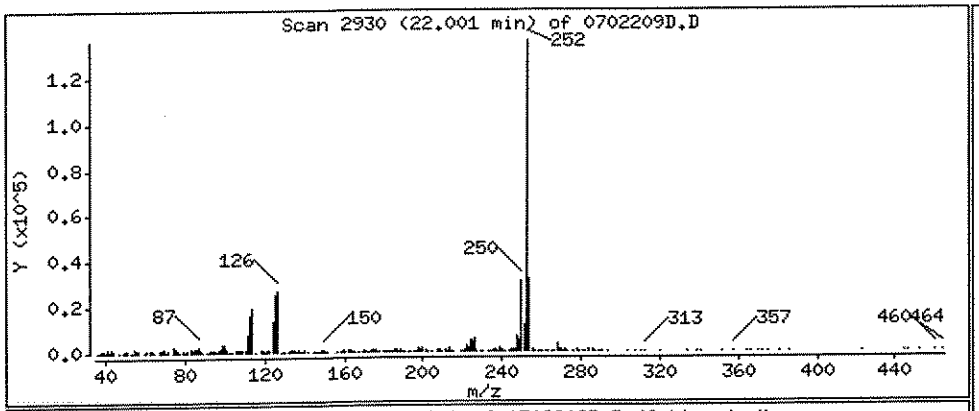
Client ID: 51CFM07S060706 Instrument: bna1.i

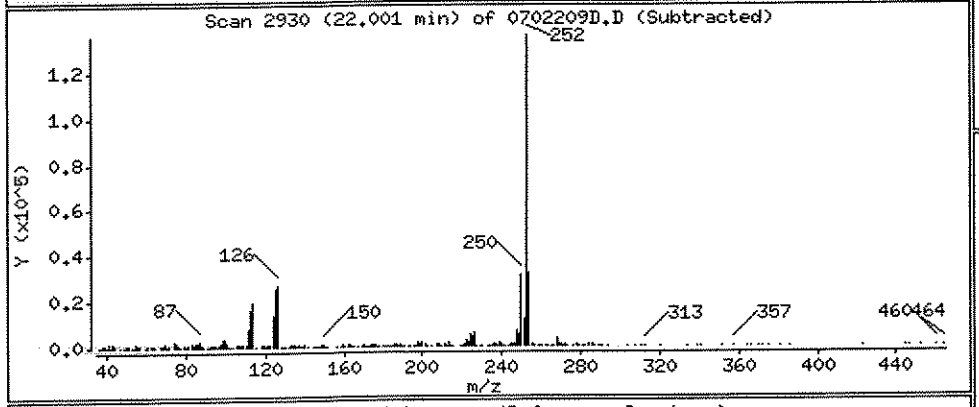
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

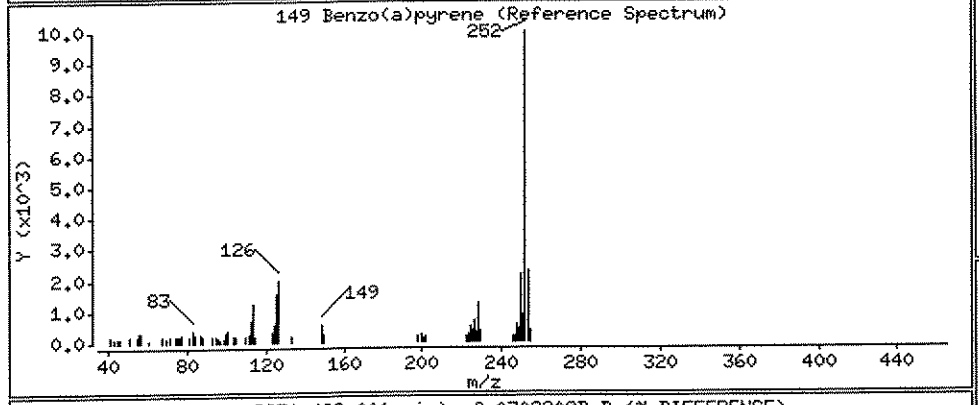
Volume Injected (uL): 0.5 Operator: SDB

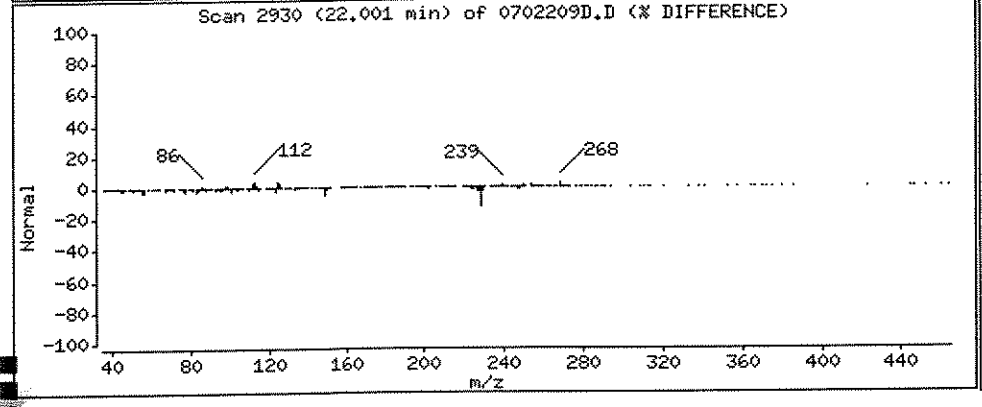
Column phase: fused silica Column diameter: 0.25

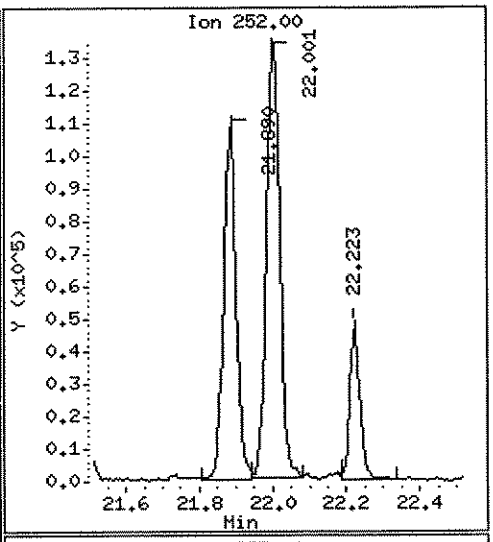
149 Benzo(a)pyrene Concentration: 4324 UG/KG

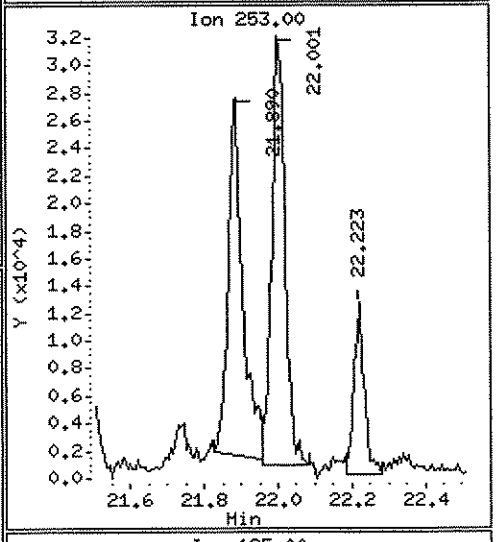


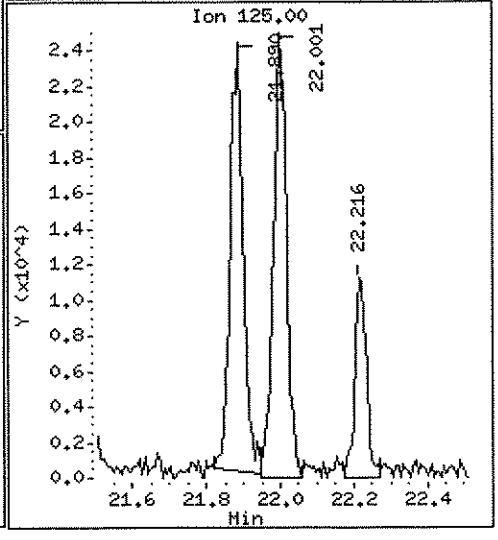












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

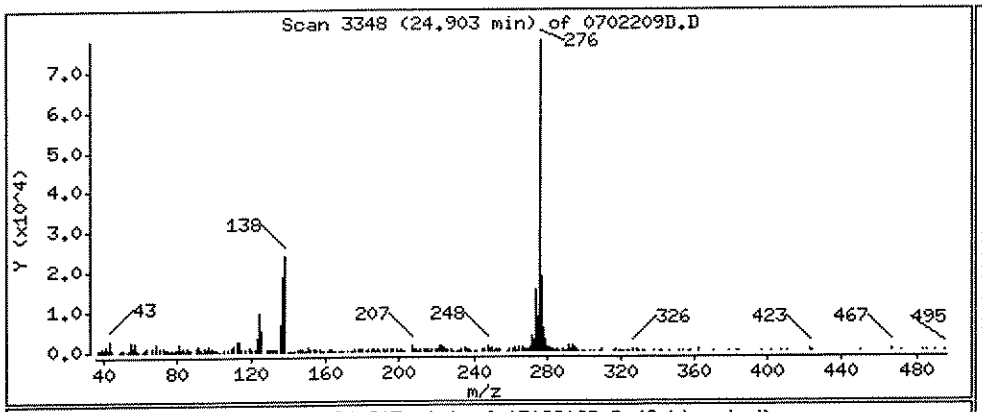
Client ID: 51CFM07S060706 Instrument: bna1.i

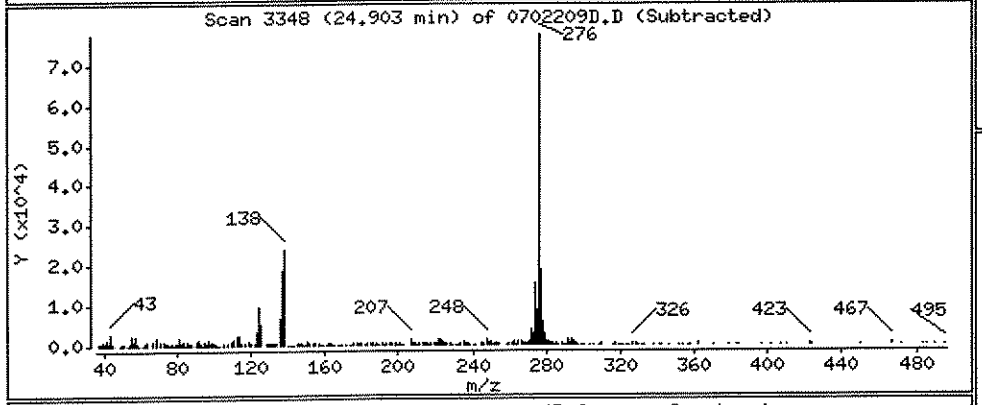
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

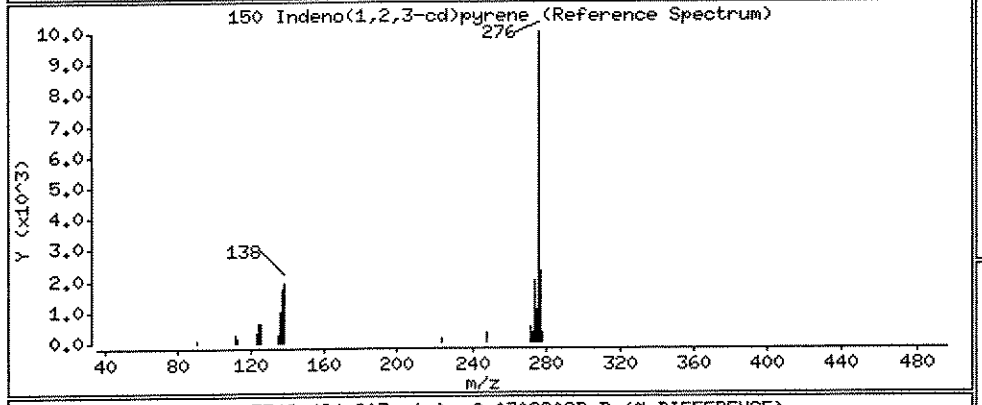
Volume Injected (uL): 0.5 Operator: SDB

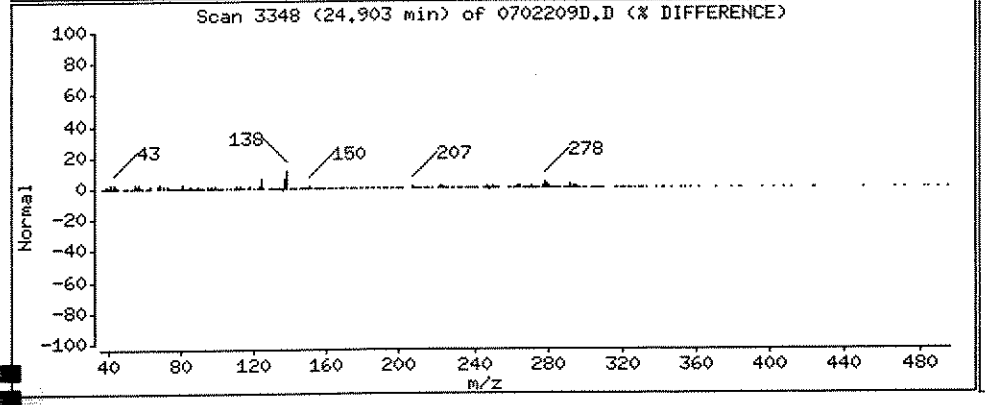
Column phase: fused silica Column diameter: 0.25

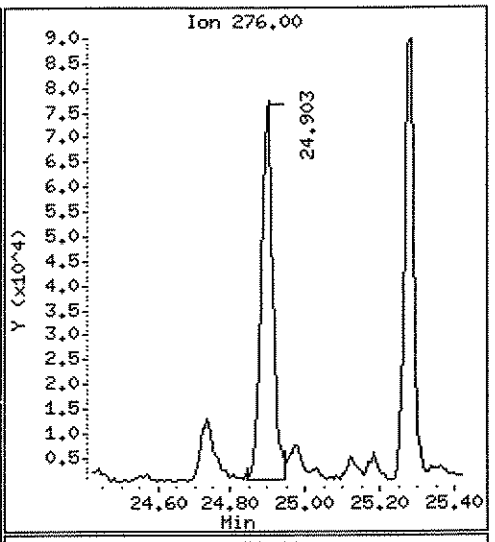
150 Indeno(1,2,3-cd)pyrene Concentration: 2437 UG/KG

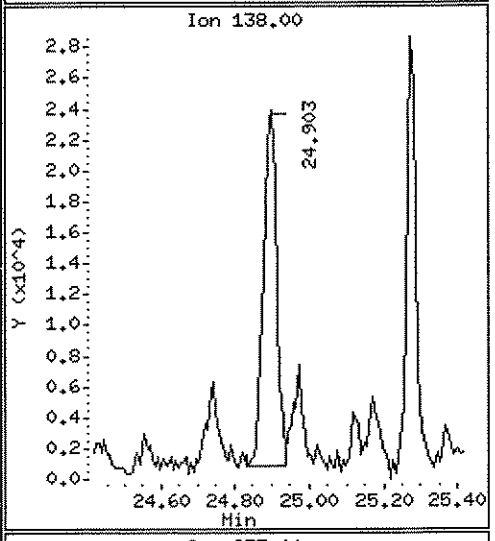


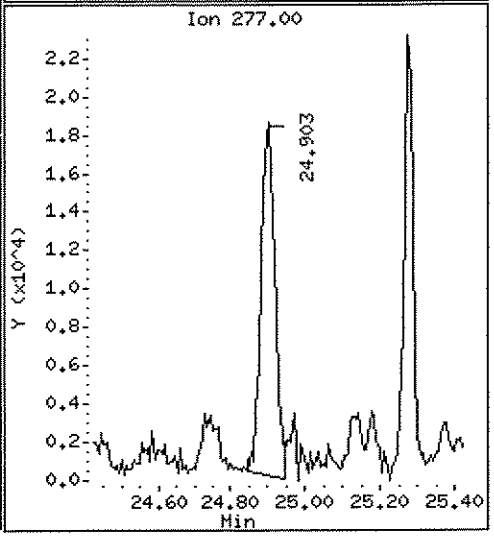












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

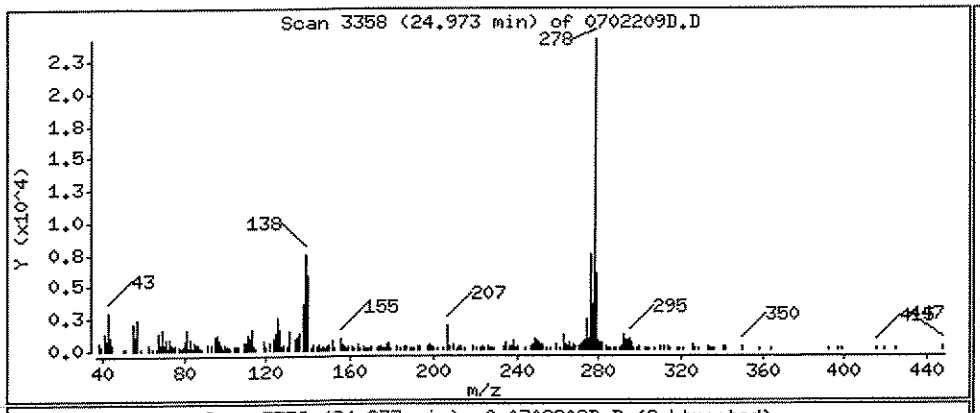
Client ID: 51CFM07S060706 Instrument: bna1.i

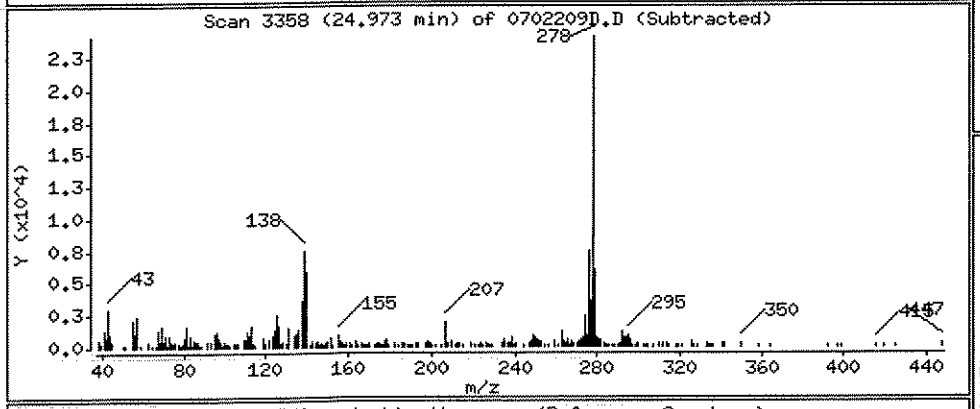
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

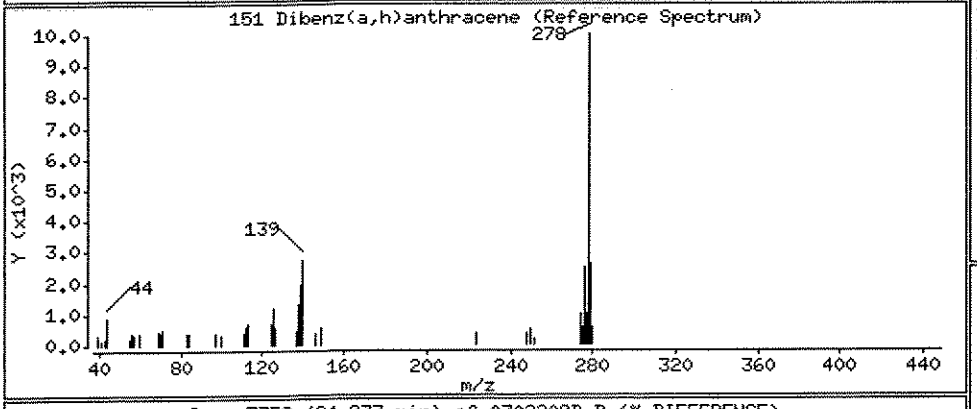
Volume Injected (uL): 0.5 Operator: SDB

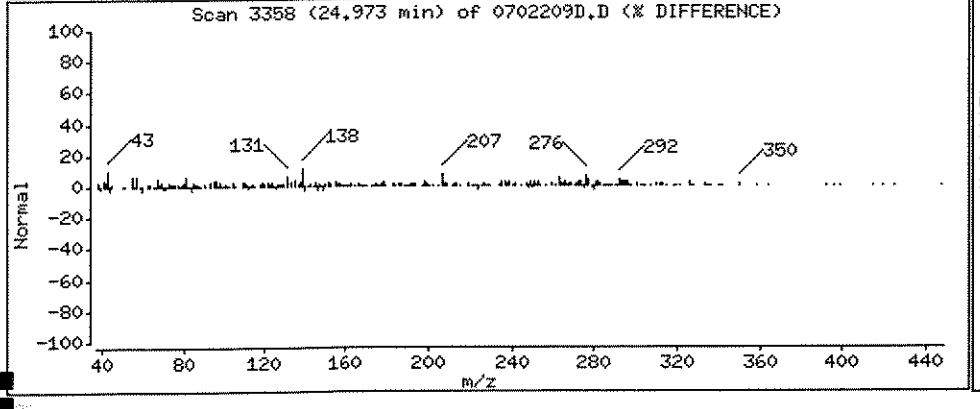
Column phase: fused silica Column diameter: 0.25

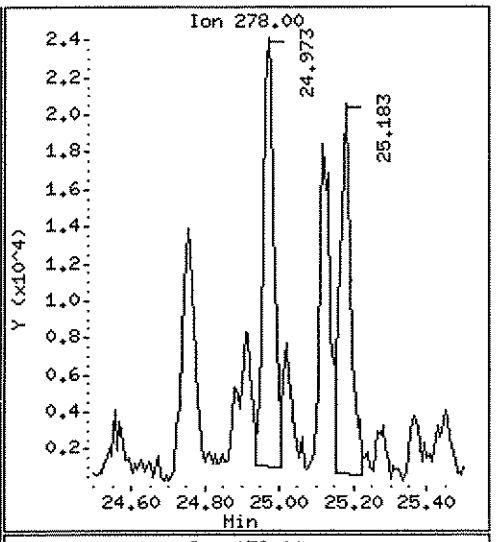
151 Dibenz(a,h)anthracene Concentration: 702.0 UG/KG

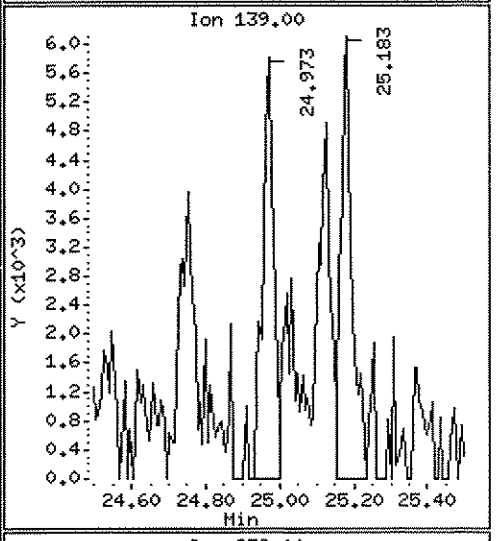


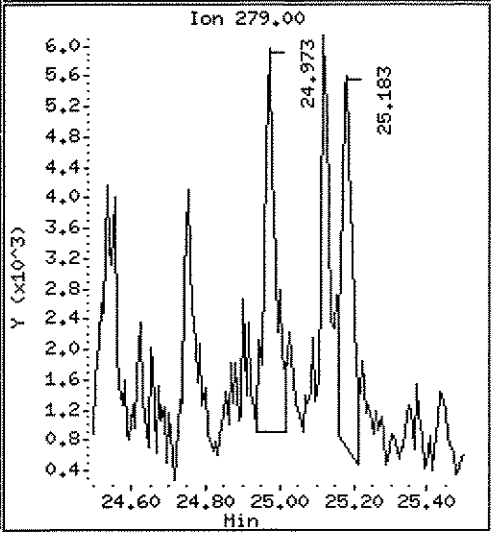












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702209D.D

Date : 11-JUL-2006 15:04

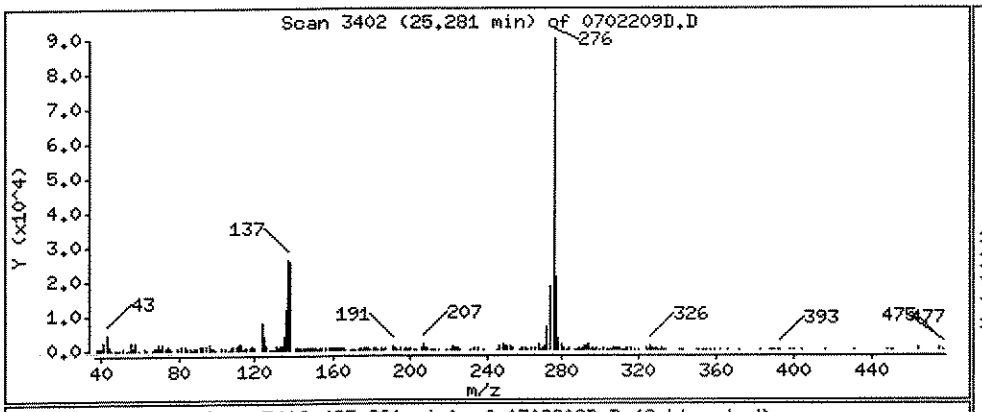
Client ID: 51CFM07S060706 Instrument: bna1.i

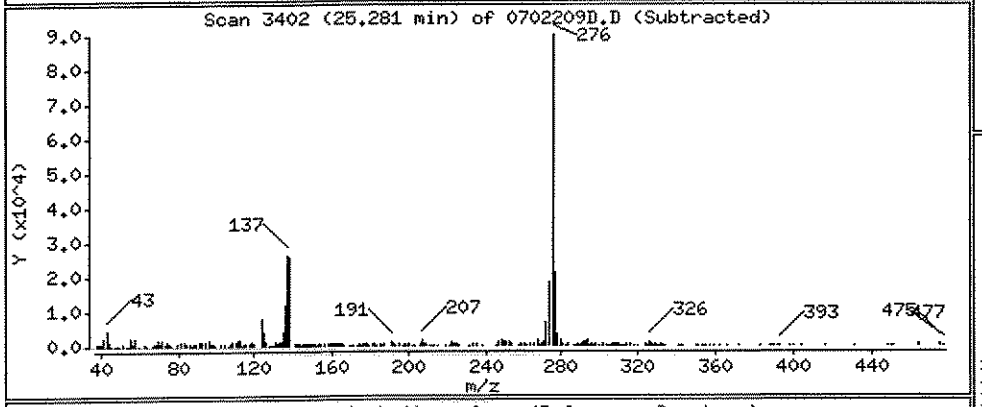
Sample Info: 0607022-09;15.2;500;1;UG/KG;10-JUL-2006

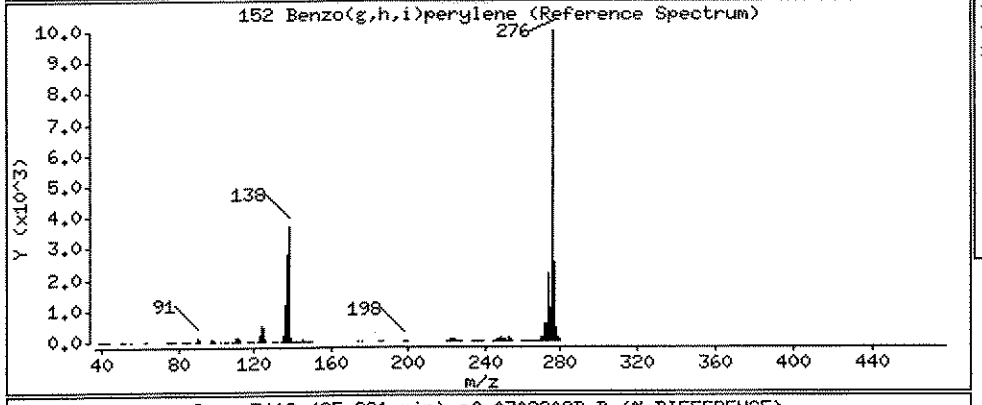
Volume Injected (uL): 0.5 Operator: SDB

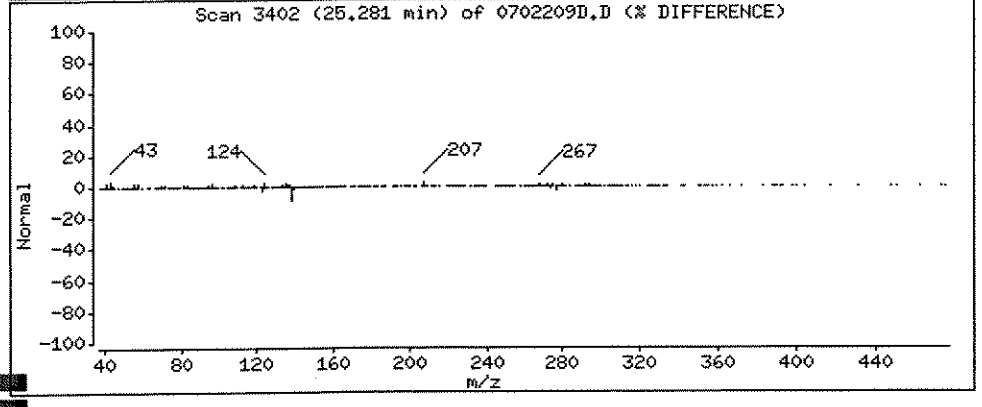
Column phase: fused silica Column diameter: 0.25

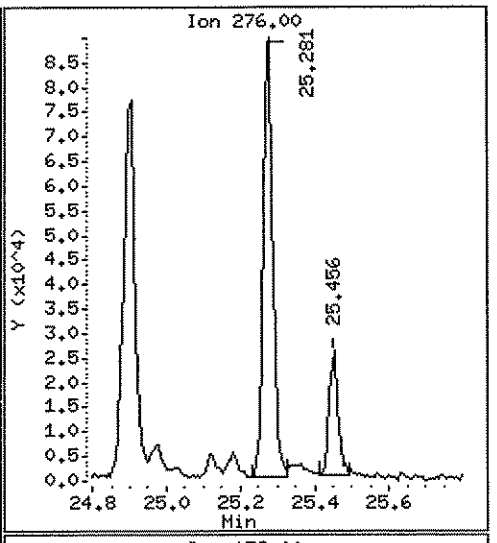
152 Benzo(g,h,i)perylene Concentration: 2240 UG/KG

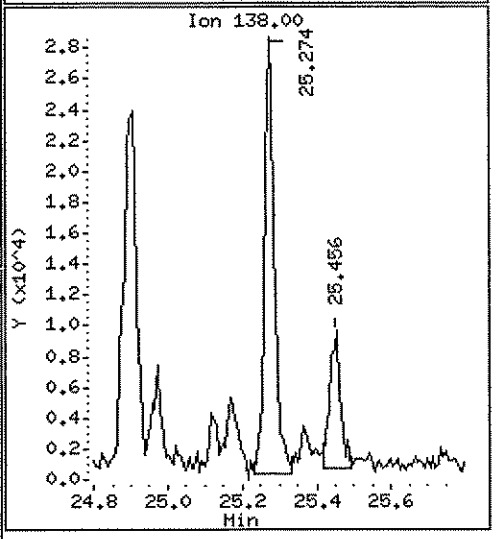












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:14

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	24	J
56-55-3	Benzo(a)anthracene	21	180	240	
205-99-2	Benzo(b)fluoranthene	21	180	390	
207-08-9	Benzo(k)fluoranthene	21	180	240	
191-24-2	Benzo(g,h,i)perylene	21	180		U
50-32-8	Benzo(a)pyrene	21	110	280	
218-01-9	Chrysene	21	180	320	
53-70-3	Dibenz(a,h)anthracene	21	110		U
206-44-0	Fluoranthene	21	180	380	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	170	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	120	J
129-00-0	Pyrene	21	180	1000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Report Date: 11-Jul-2006 13:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Lab Smp Id: 0607022-10 Client Smp ID: 51CFM08S060706
Inj Date : 10-JUL-2006 19:14
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	91.800	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	522925	40.0000	
* 31 Naphthalene-d8	136	5.279	5.287	(1.000)	1821101	40.0000	
$ 32 Nitrobenzene-d5	82	4.708	4.709	(0.892)	1133174	57.0018	2029
* 65 Acenaphthene-d10	164	7.711	7.719	(1.000)	886023	40.0000	
$ 70 2-Fluorobiphenyl	172	6.611	6.617	(0.857)	1598451	56.6906	2018
* 97 Phenanthrene-d10	188	11.019	11.020	(1.000)	1052422	40.0000	
106 Phenanthrene	178	11.060	11.082	(1.004)	104434	3.48034	123.9(a)
107 Anthracene	178	11.170	11.192	(1.014)	19626	0.66249	23.58(a)
110 Fluoranthene	202	14.290	14.296	(1.297)	313209	10.5429	375.3
* 124 Chrysene-d12	240	18.437	18.441	(1.000)	299916	40.0000	
126 Pyrene	202	14.874	14.878	(0.807)	340183	28.4016	1011
$ 127 Terphenyl-d14	244	15.659	15.647	(0.849)	1039048	137.199	4884(AR)
130 Benzo(a)anthracene	228	18.396	18.400	(0.998)	64889	6.71498	239.0

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Report Date: 11-Jul-2006 13:58

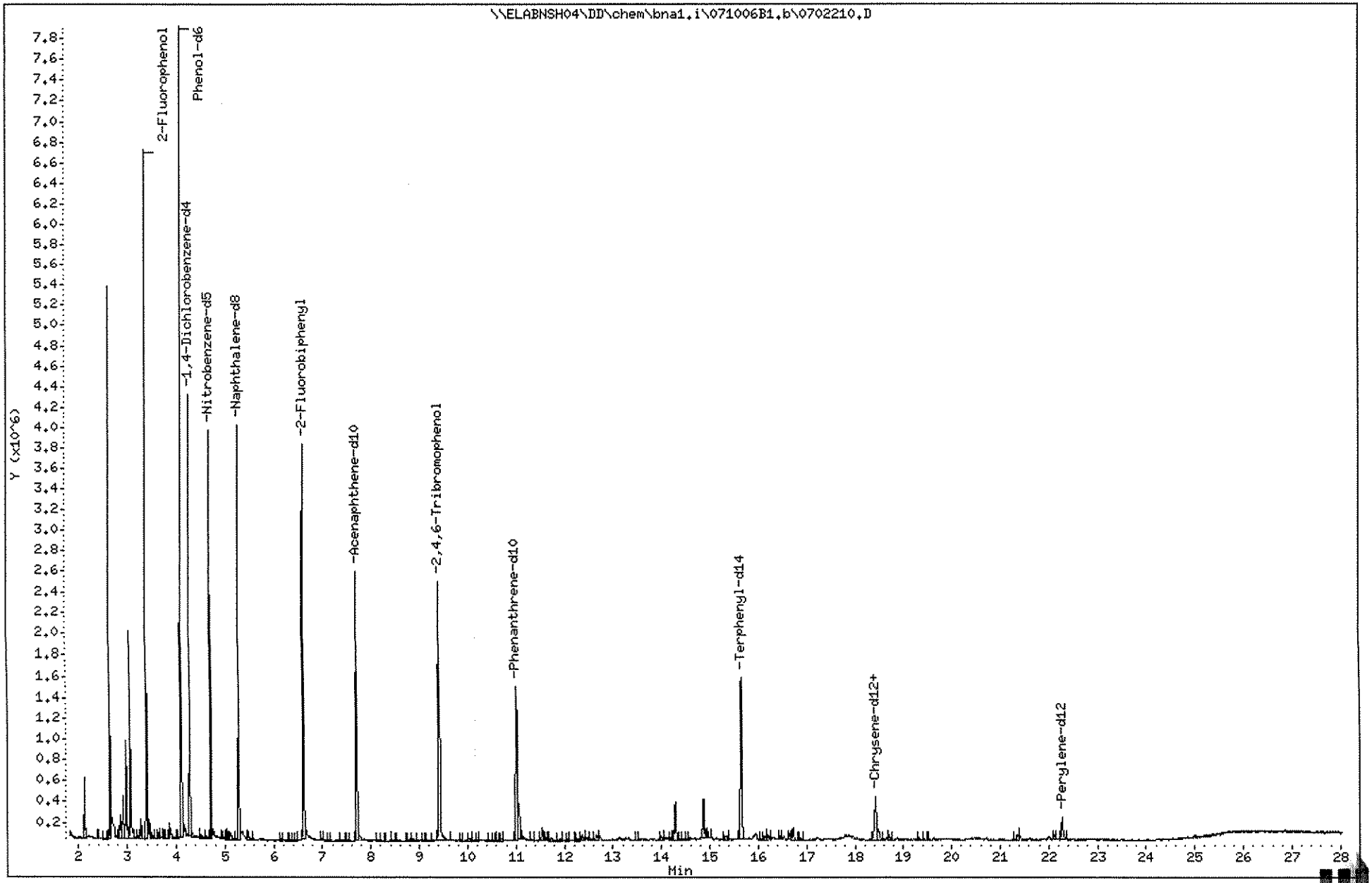
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
131 Chrysene	228	18.500	18.510	(1.003)	78343	8.87637	316.0
* 145 Perylene-d12	264	22.280	22.273	(1.000)	157786	40.0000	
147 Benzo(b)fluoranthene	252	21.349	21.352	(0.958)	53239	10.9534	389.9(M)
148 Benzo(k)fluoranthene	252	21.383	21.421	(0.960)	34797	6.90036	245.6(M)
149 Benzo(a)pyrene	252	22.115	22.121	(0.993)	32787	7.82278	278.5
150 Indeno(1,2,3-cd)pyrene	276	25.003	24.990	(1.122)	16675	4.66319	166.0(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D
Date : 10-JUL-2006 19:14
Client ID: 51CFM08S060706
Instrument: bna1.i
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000272



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

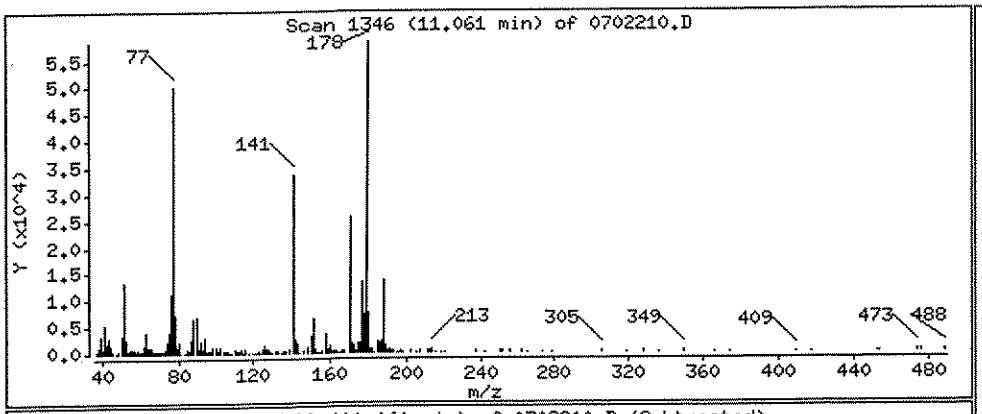
Operator: SDB

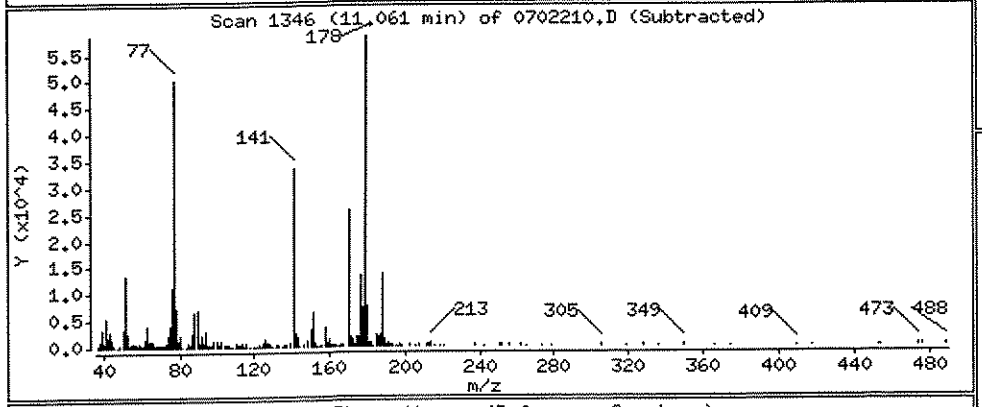
Column phase: fused silica

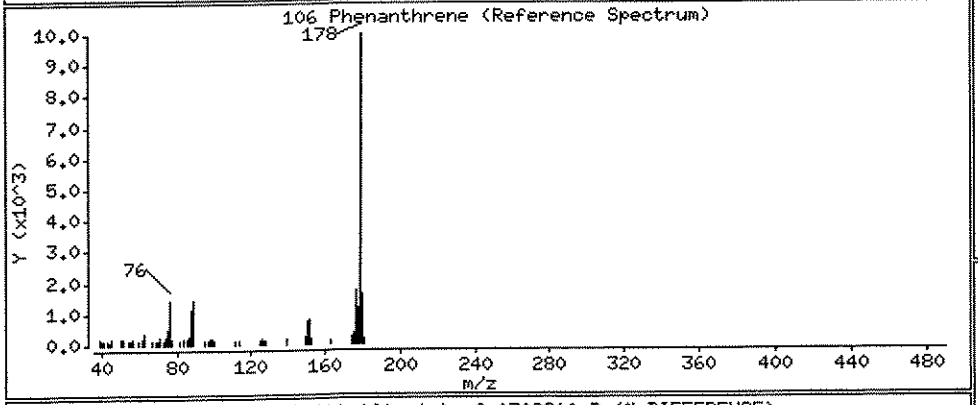
Column diameter: 0.25

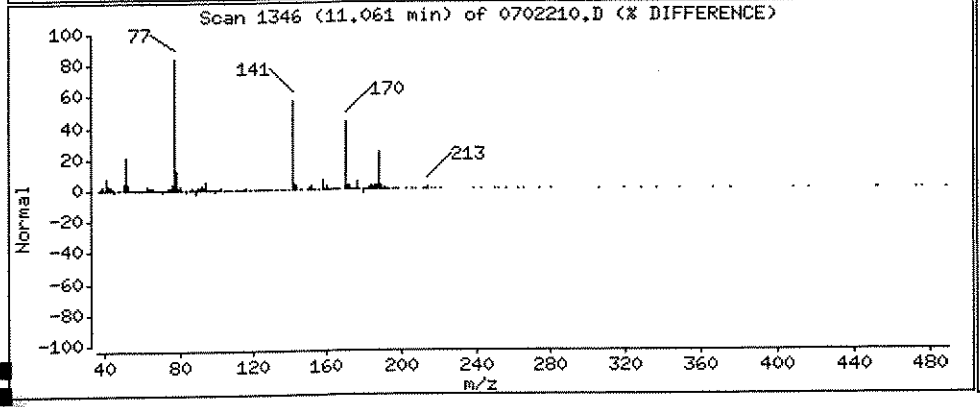
106 Phenanthrene

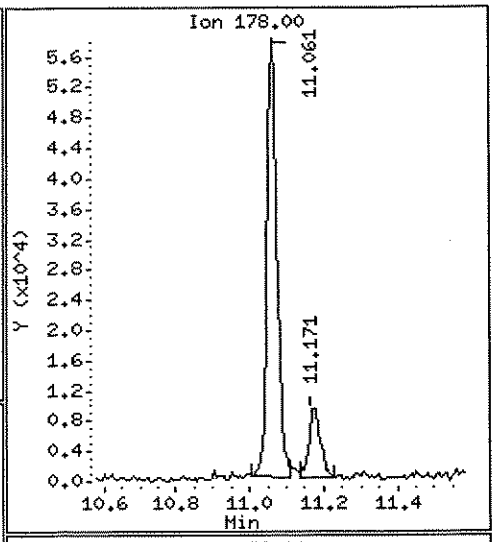
Concentration: 123.9 UG/KG

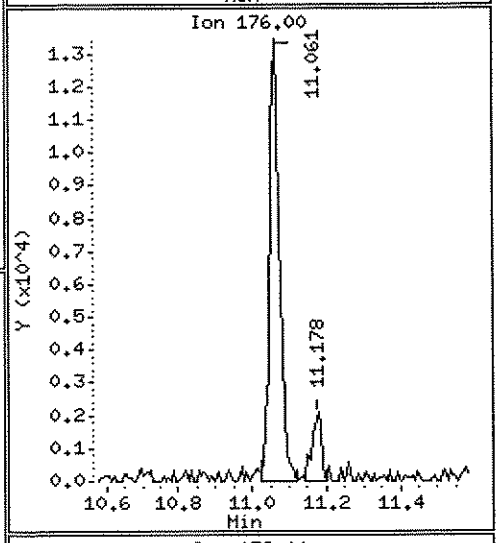


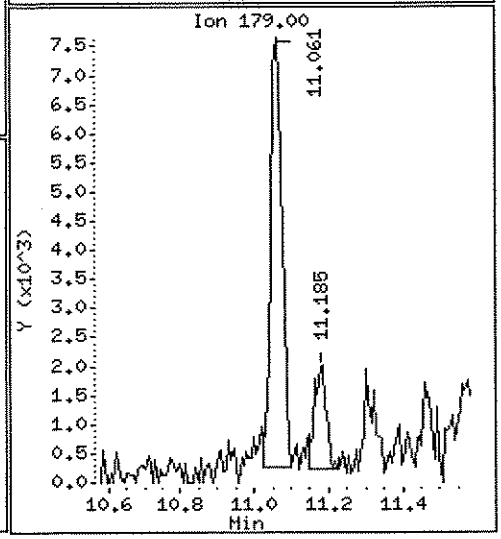












Empirical Laboratories

000273

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFH08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

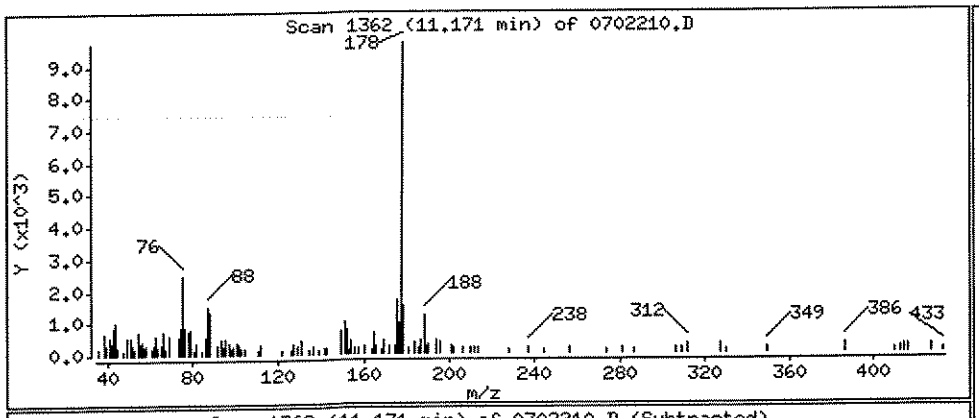
Operator: SDB

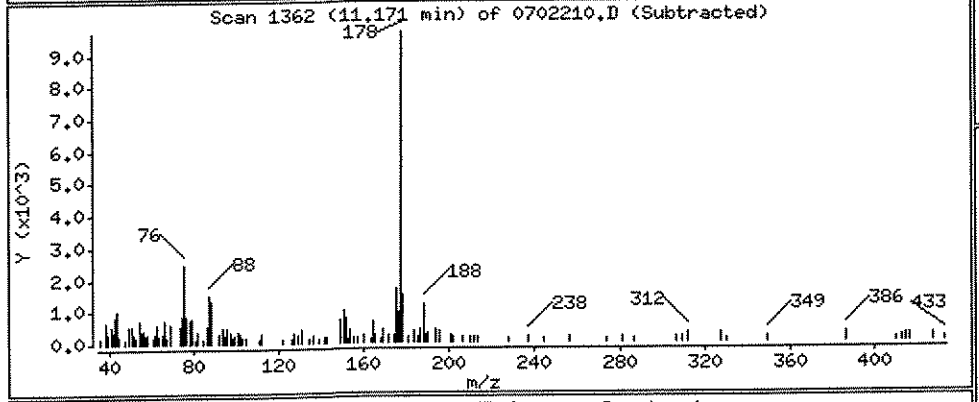
Column phase: fused silica

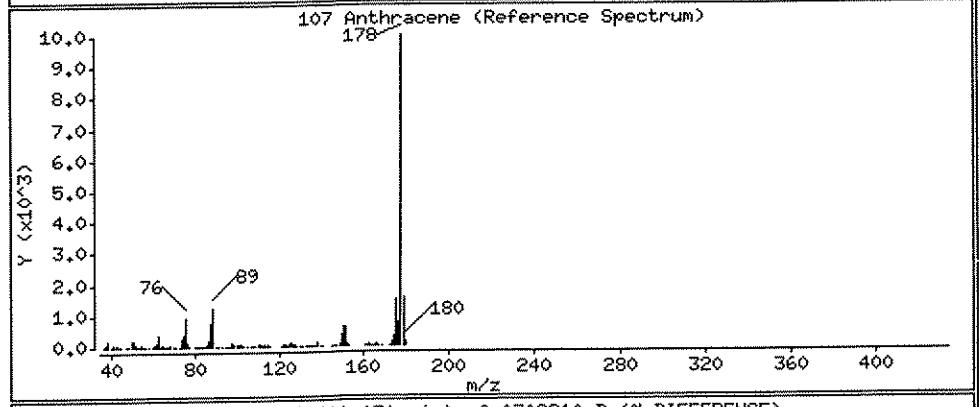
Column diameter: 0.25

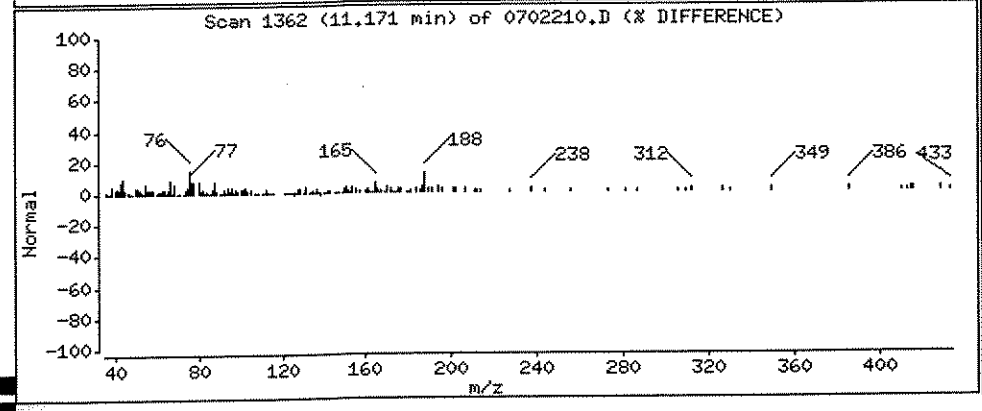
107 Anthracene

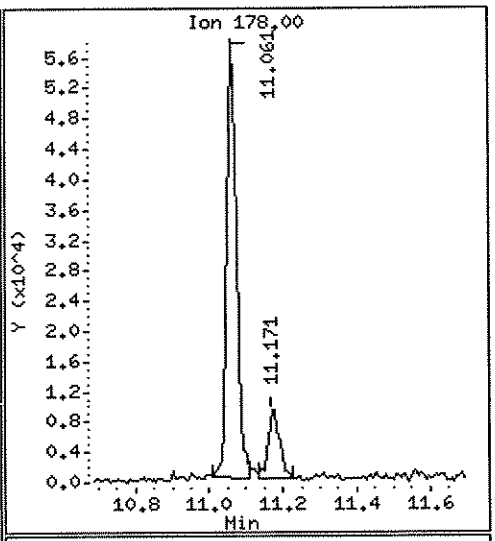
Concentration: 23.58 UG/KG

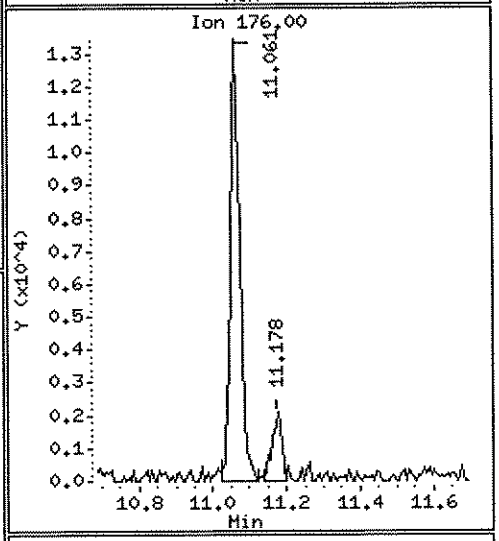


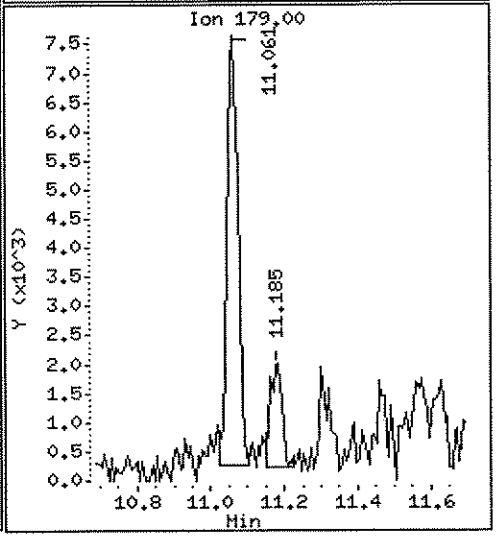












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

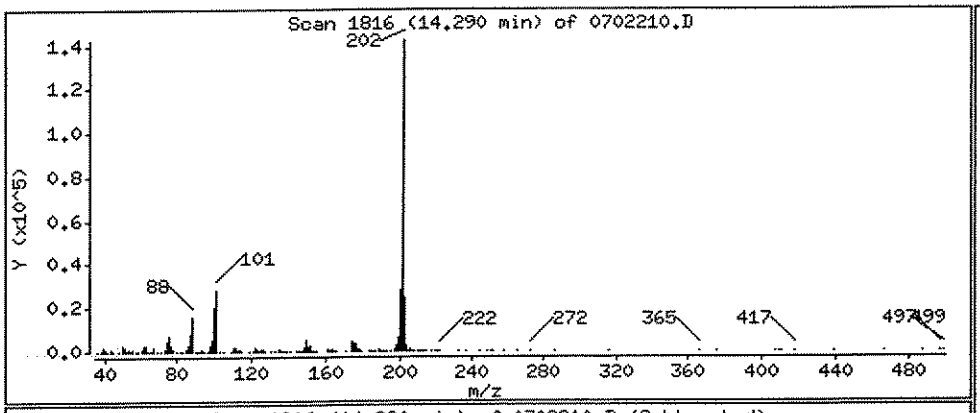
Client ID: 51CFM08S060706 Instrument: bna1.i

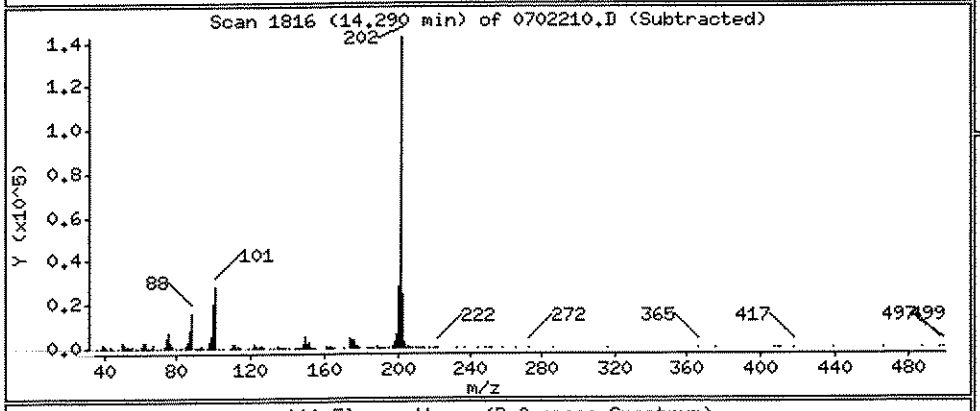
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

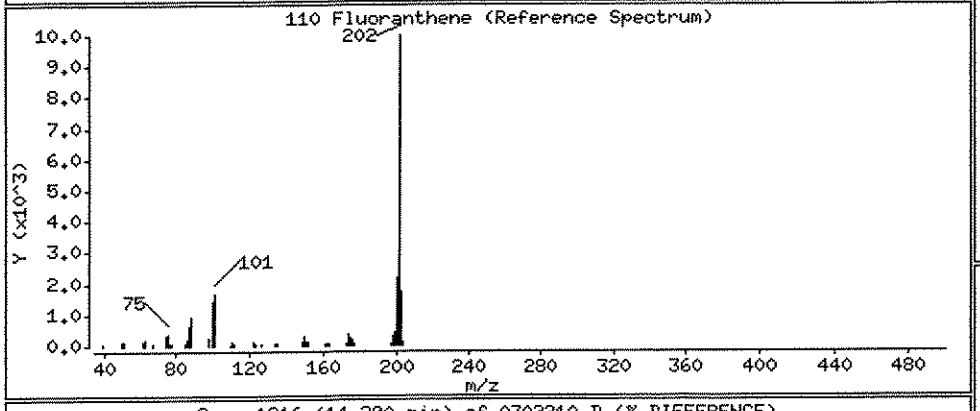
Volume Injected (uL): 0.5 Operator: SDB

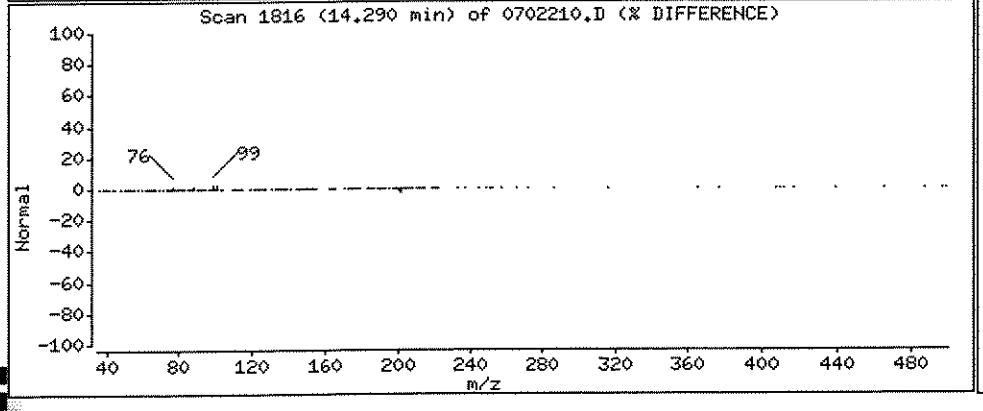
Column phase: fused silica Column diameter: 0.25

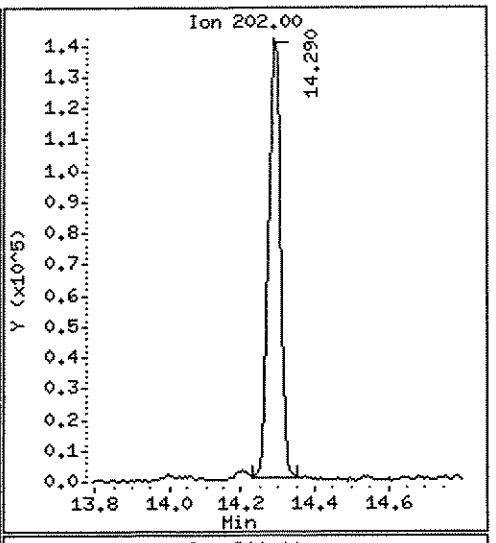
110 Fluoranthene Concentration: 375.3 UG/KG

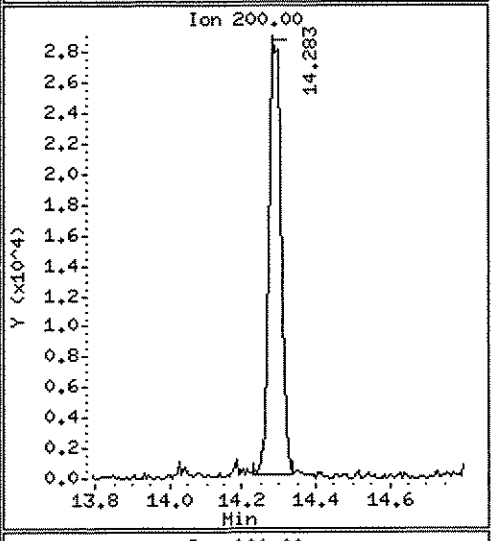


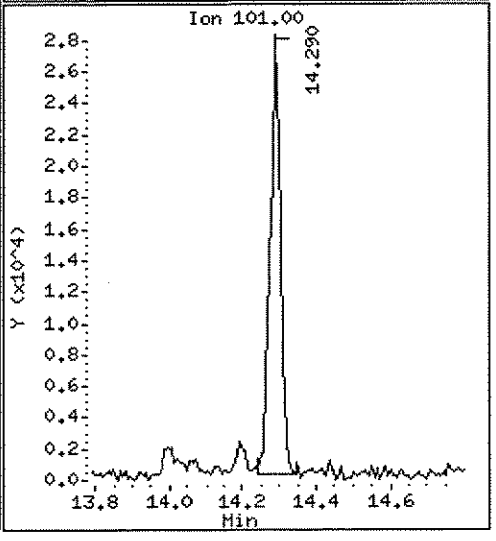












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

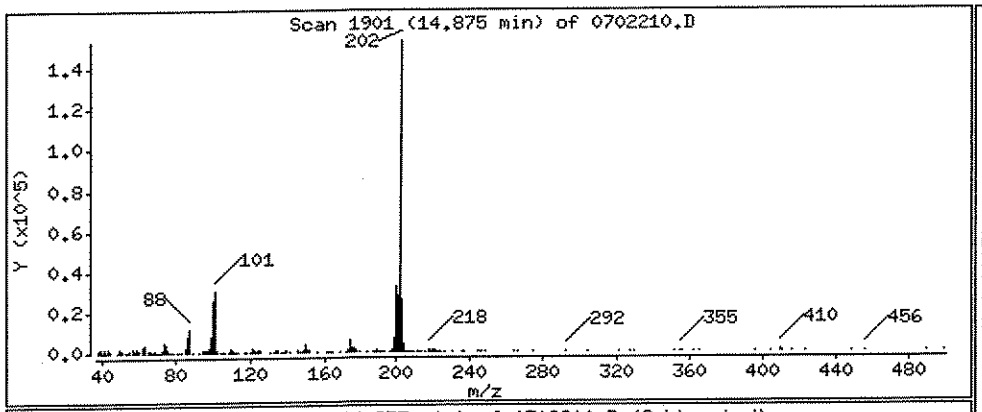
Operator: SDB

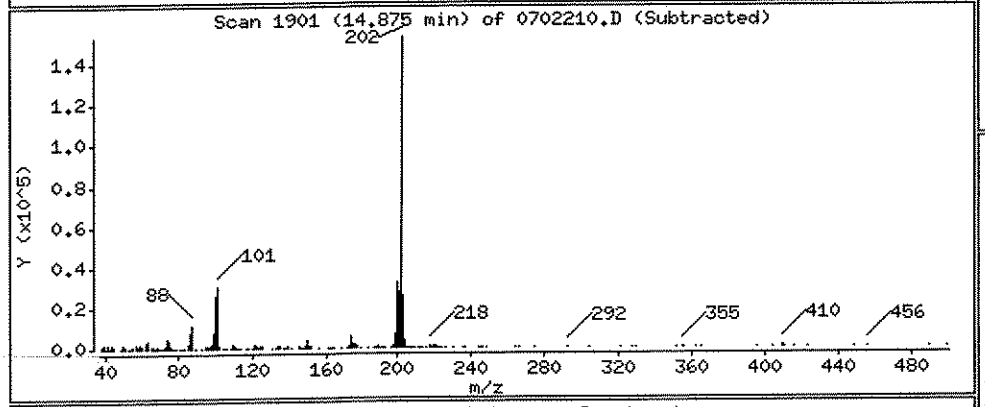
Column phase: fused silica

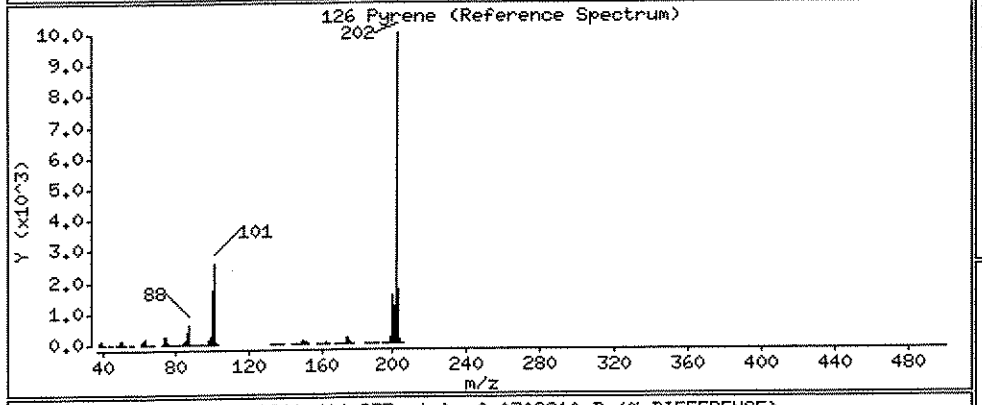
Column diameter: 0.25

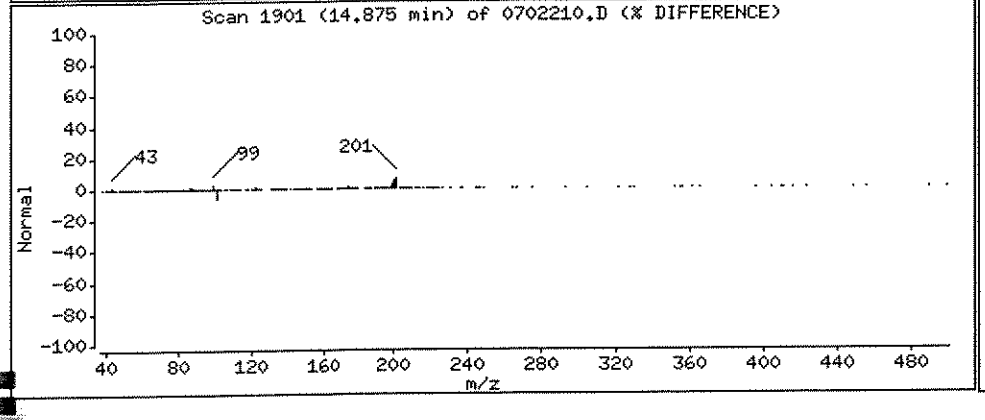
126 Pyrene

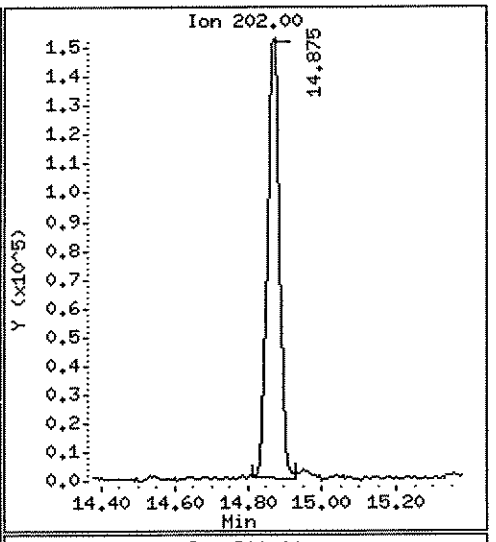
Concentration: 1011 UG/KG

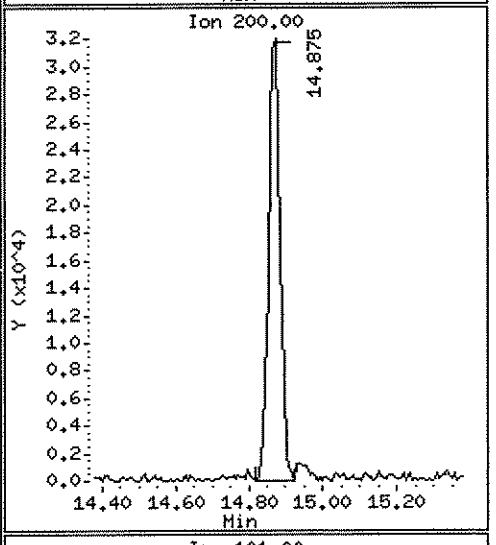


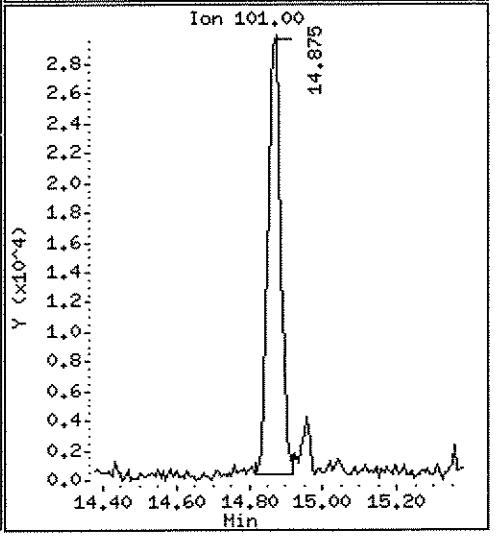












Empirical Laboratories

000276

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

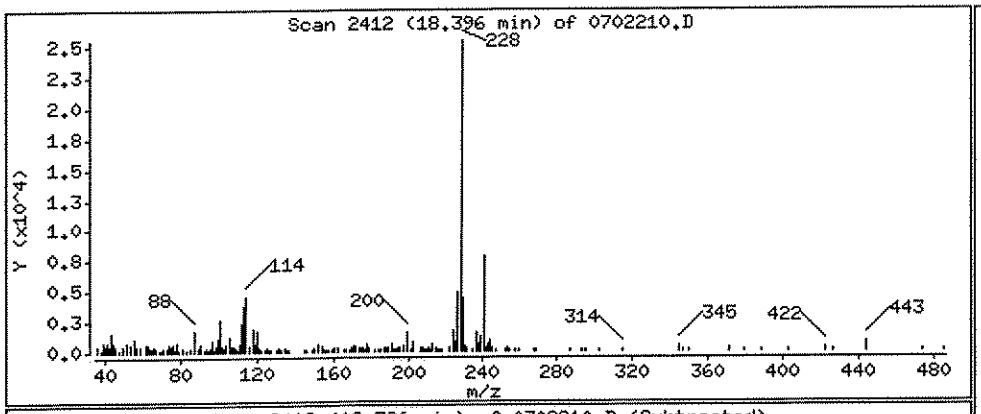
Client ID: 51CFM08S060706 Instrument: bna1.i

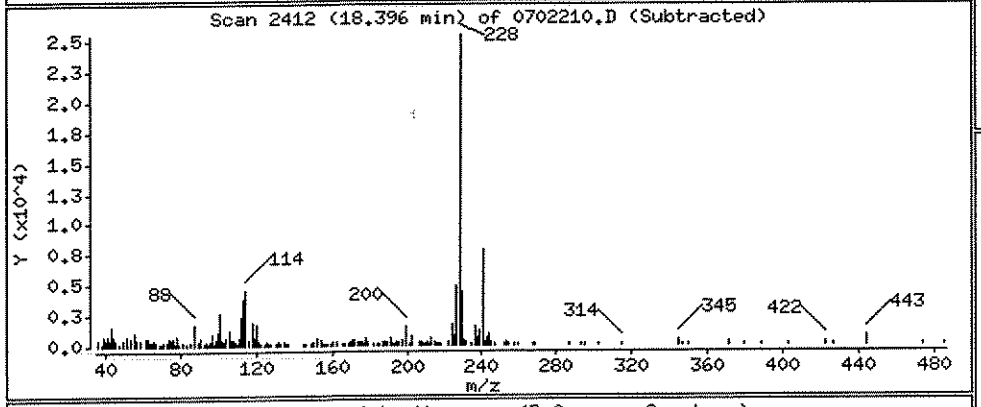
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

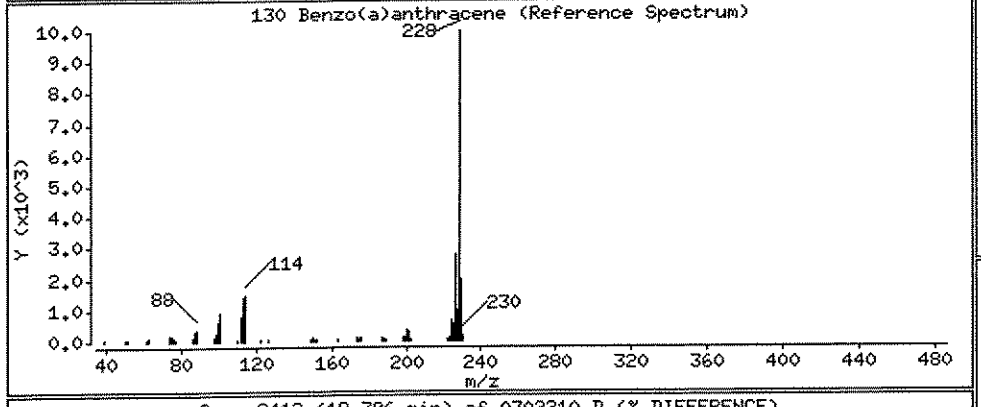
Volume Injected (uL): 0.5 Operator: SDB

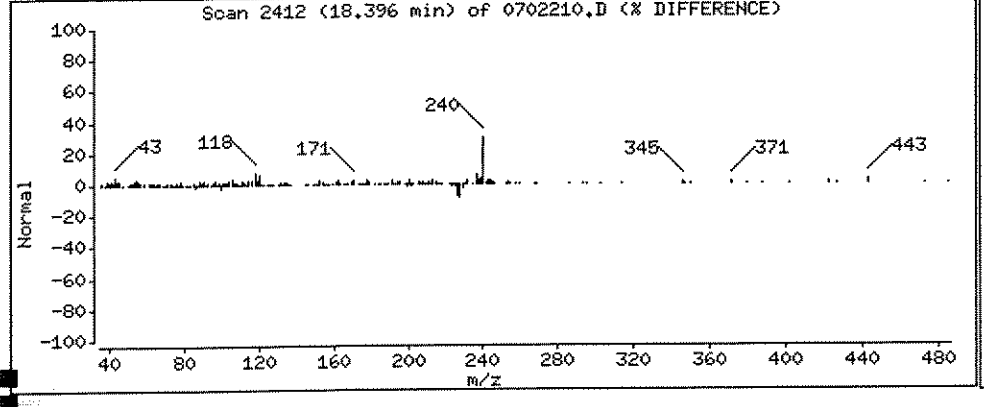
Column phase: fused silica Column diameter: 0.25

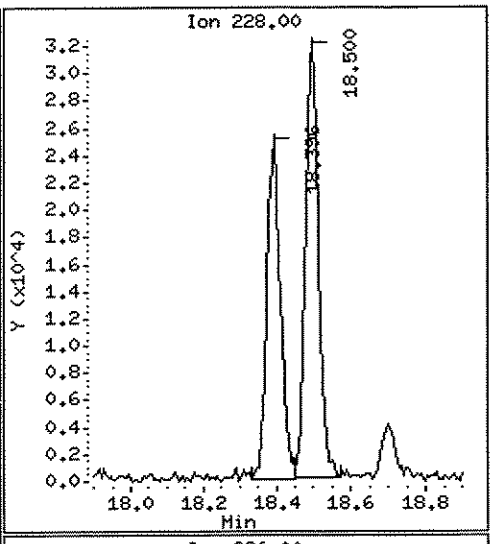
130 Benzo(a)anthracene Concentration: 239.0 UG/KG

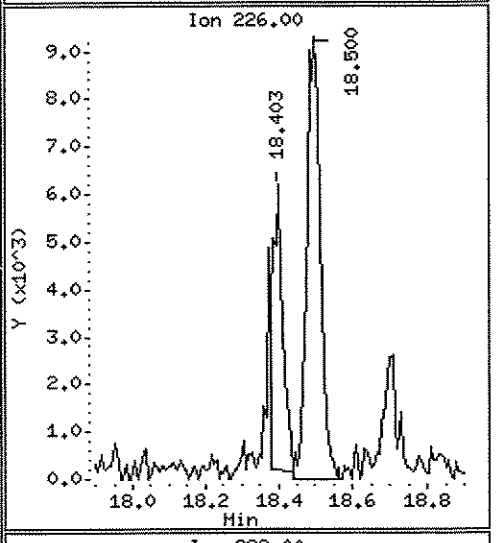


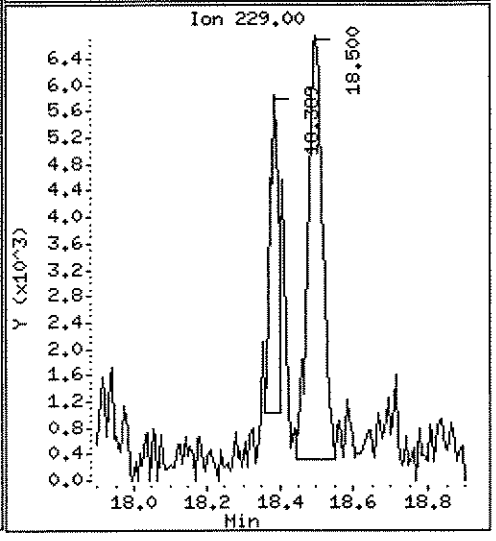












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

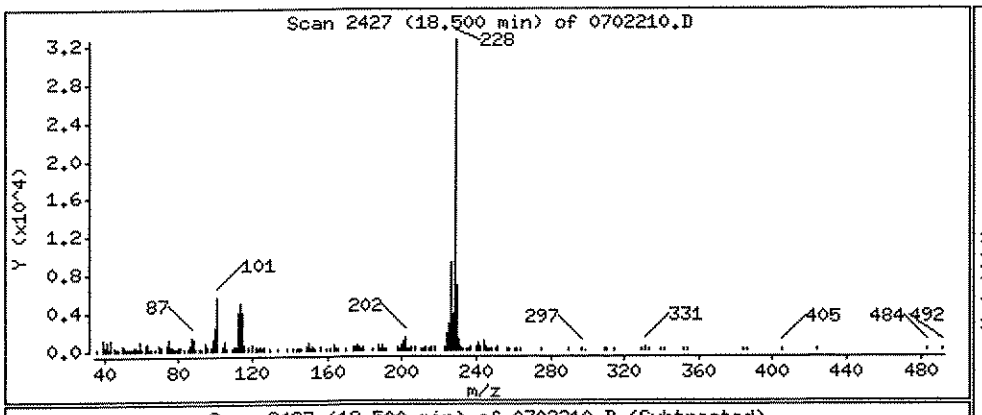
Client ID: 51CFM08S060706 Instrument: bna1.i

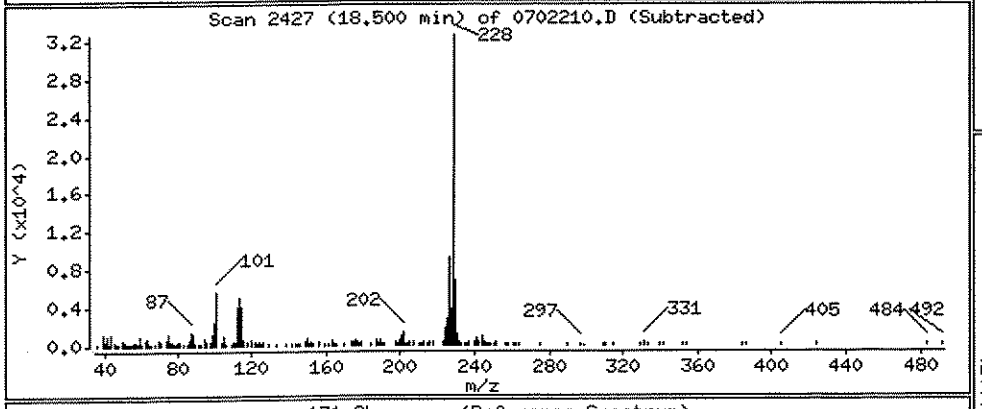
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

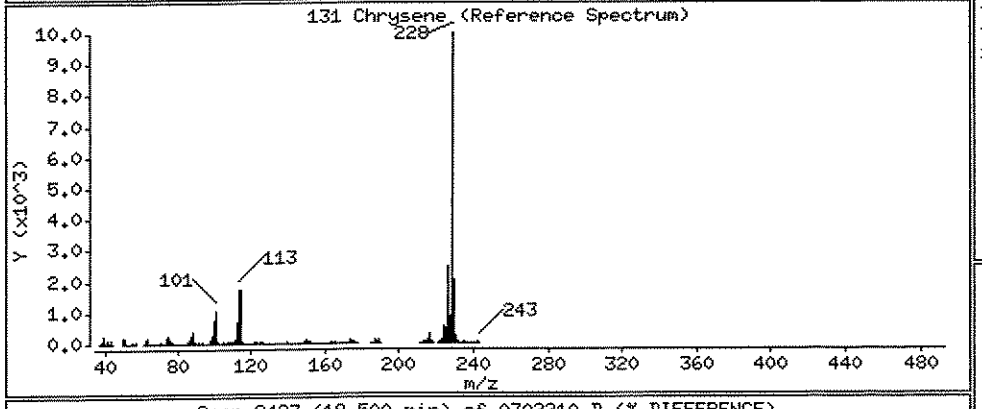
Volume Injected (uL): 0.5 Operator: SDB

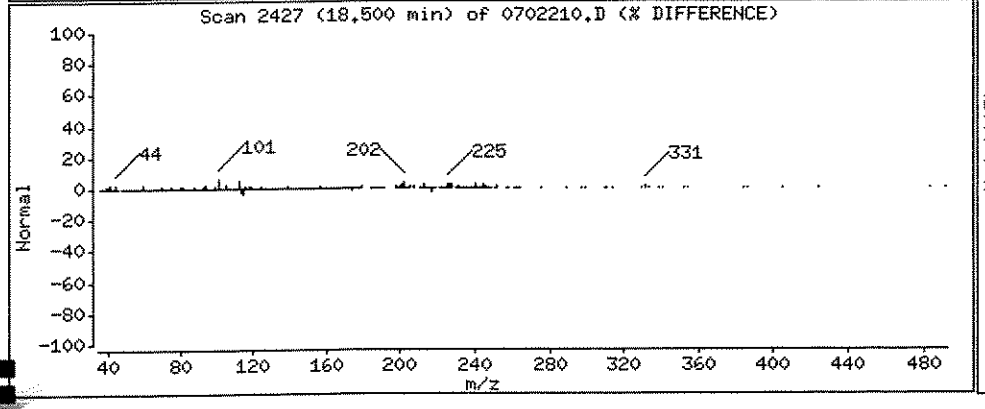
Column phase: fused silica Column diameter: 0.25

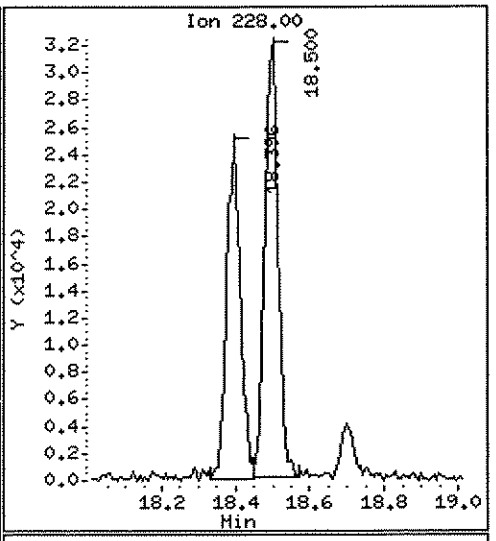
131 Chrysene Concentration: 316.0 UG/KG

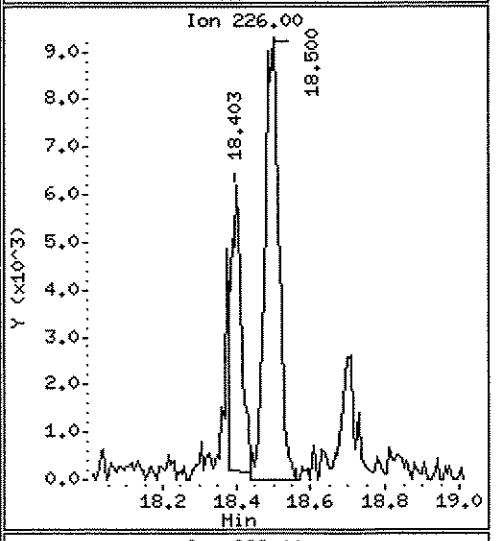


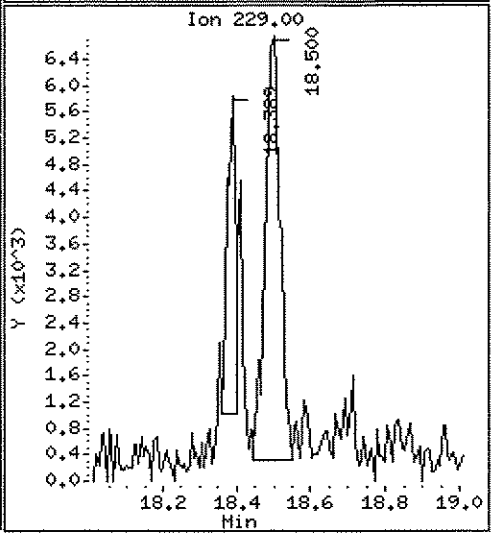












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

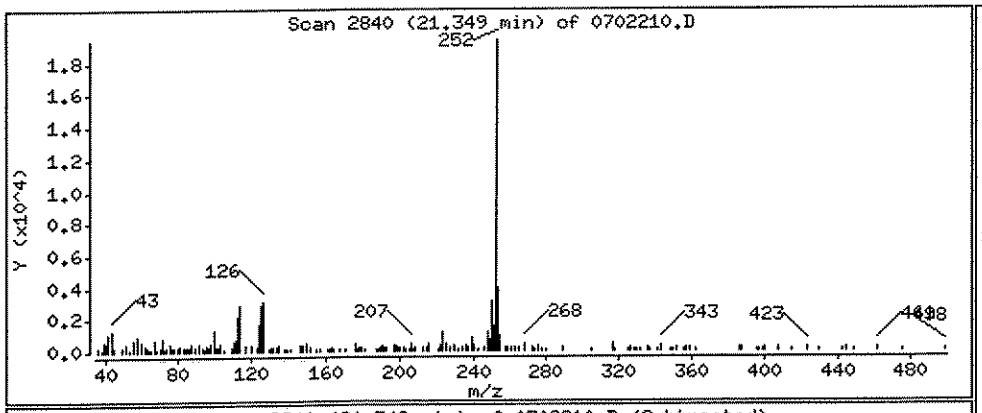
Client ID: 51CFM08S060706 Instrument: bna1.i

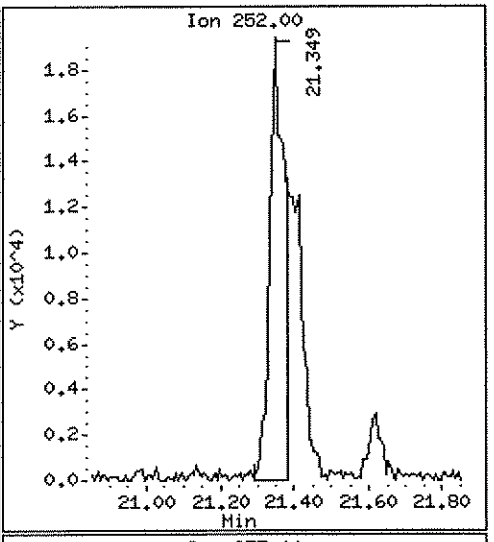
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

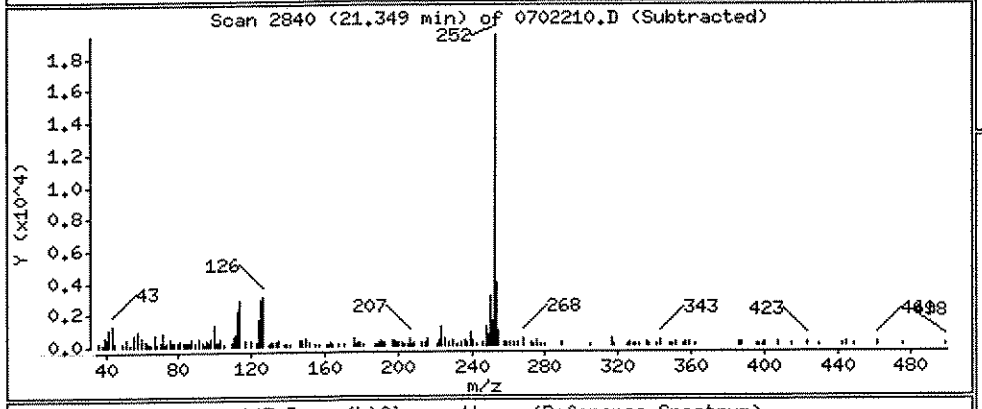
Volume Injected (uL): 0.5 Operator: SDB

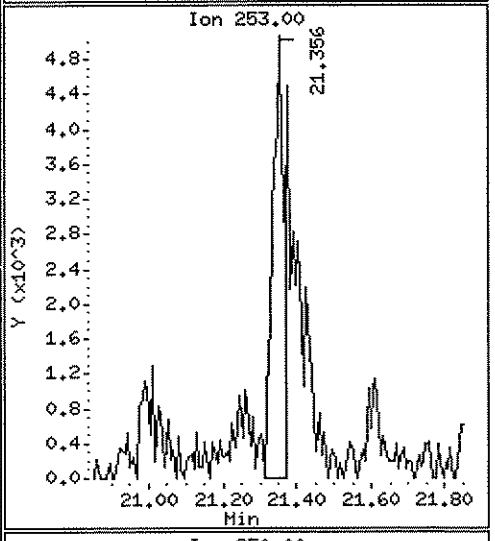
Column phase: fused silica Column diameter: 0.25

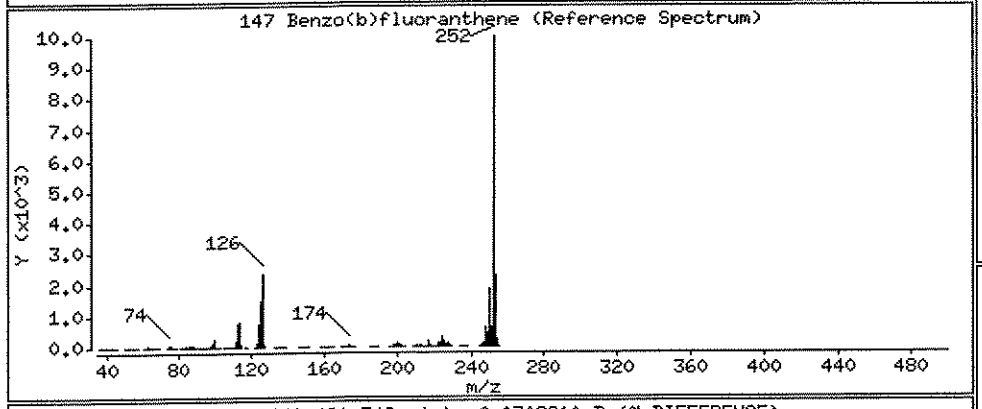
147 Benzo(b)fluoranthene Concentration: 389.9 UG/KG

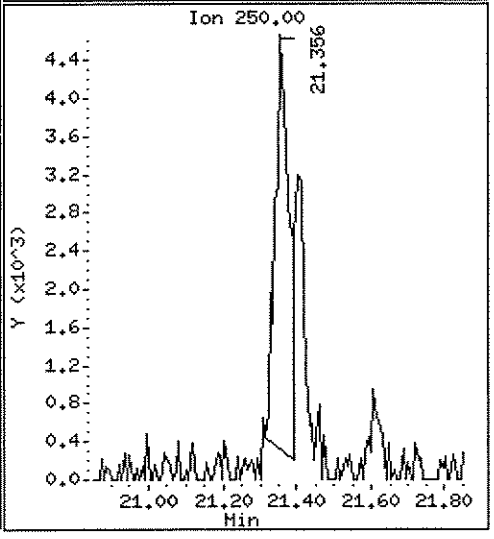


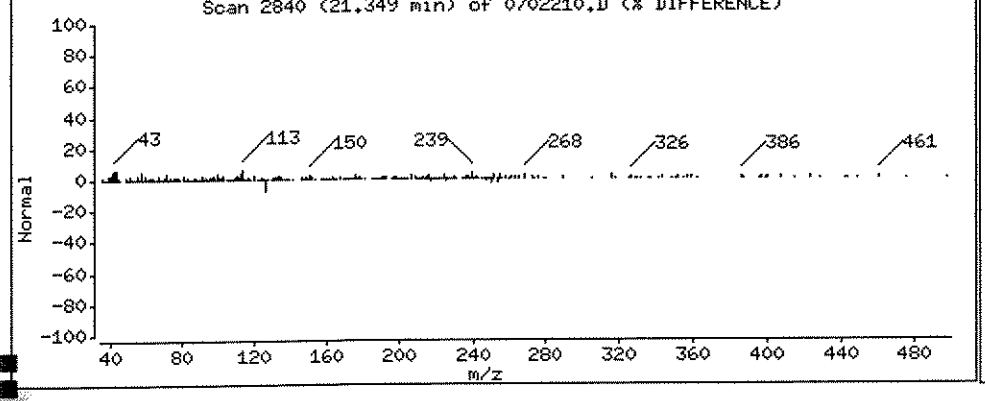












Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

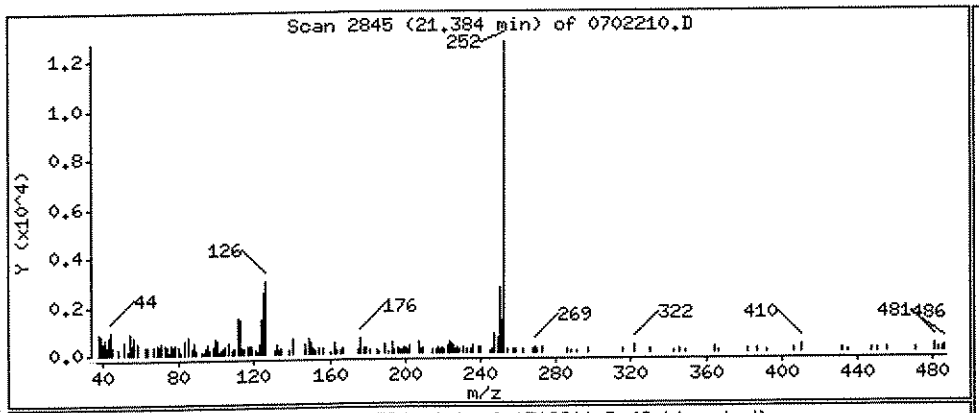
Operator: SDB

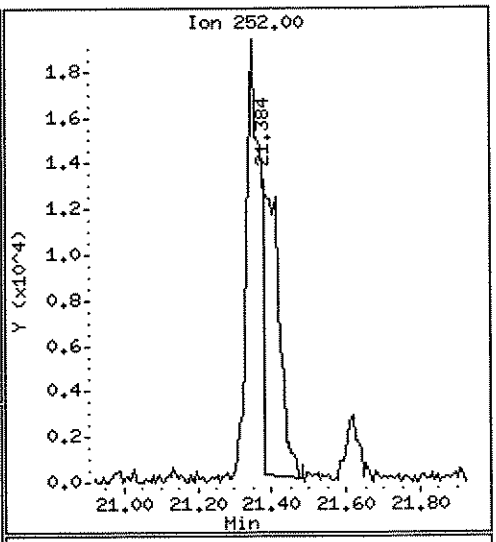
Column phase: fused silica

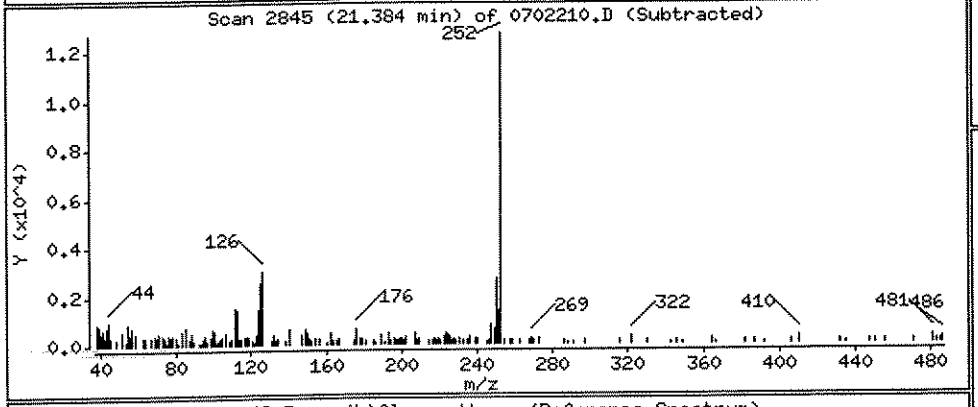
Column diameter: 0.25

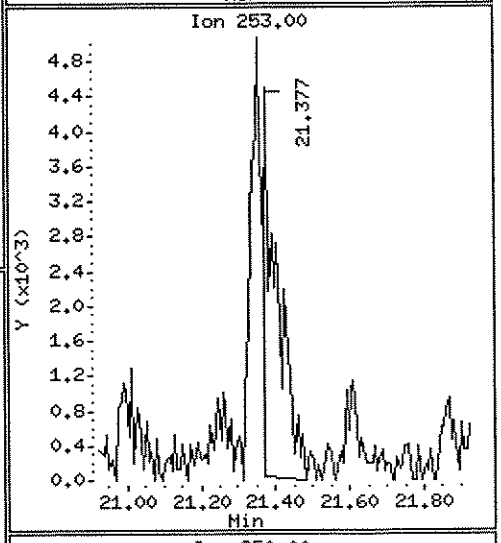
148 Benzo(k)fluoranthene

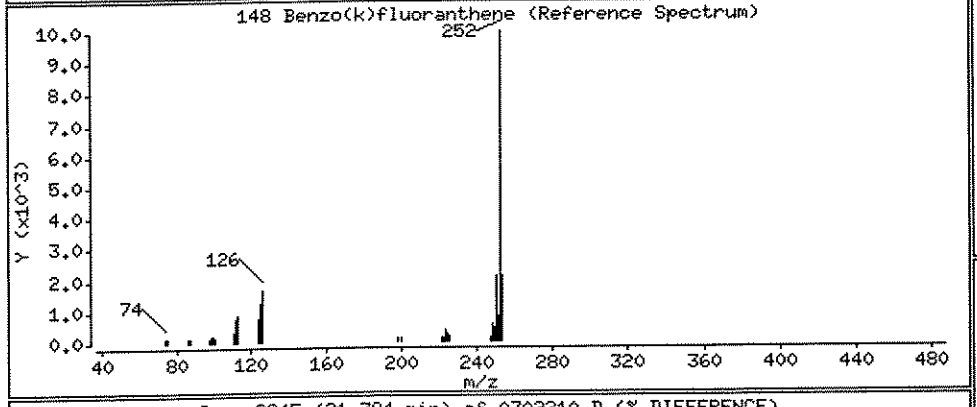
Concentration: 245.6 UG/KG

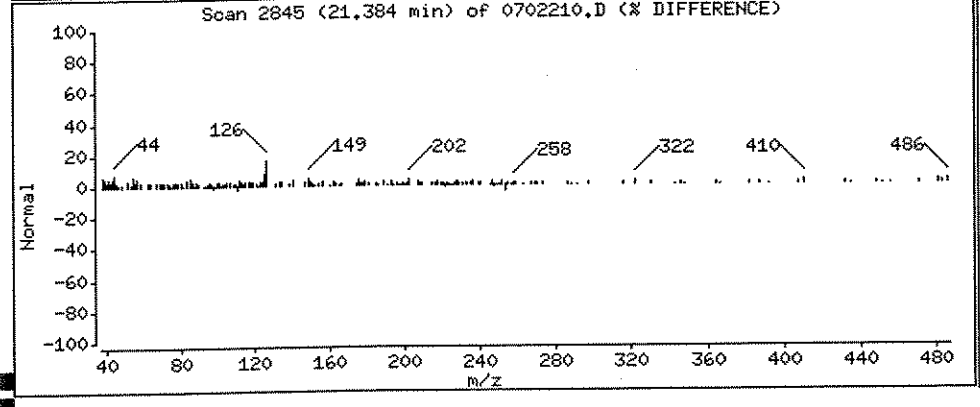


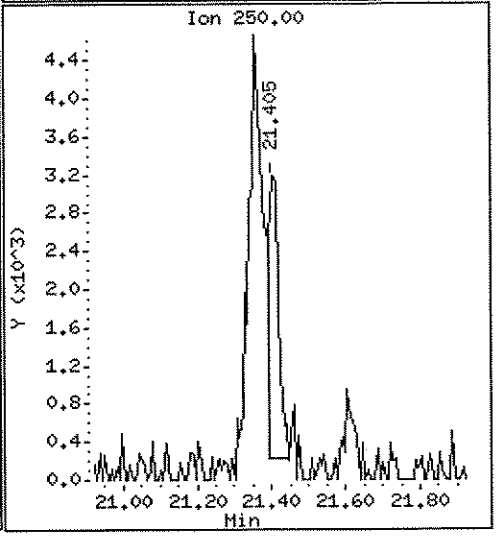












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000280

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

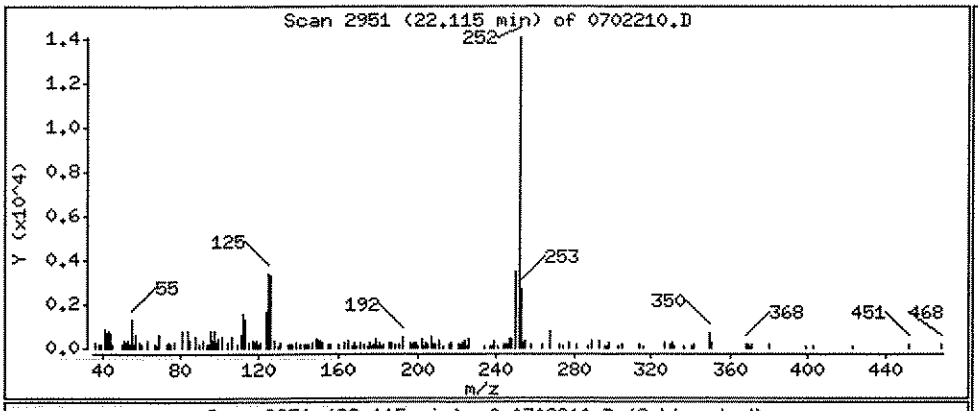
Client ID: 51CFM08S060706 Instrument: bna1.i

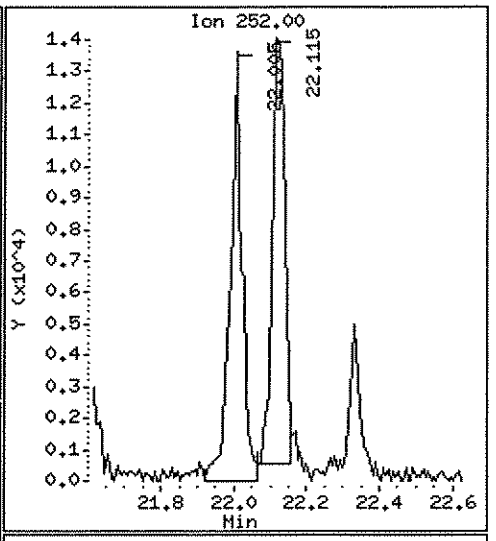
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

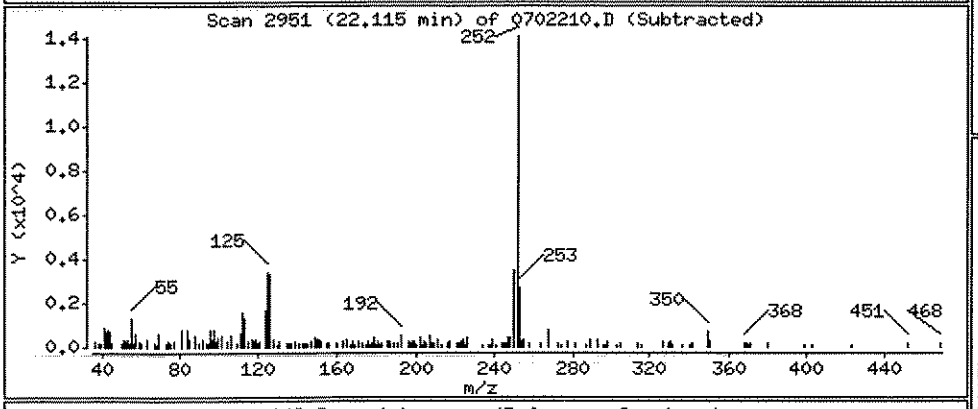
Volume Injected (uL): 0.5 Operator: SDB

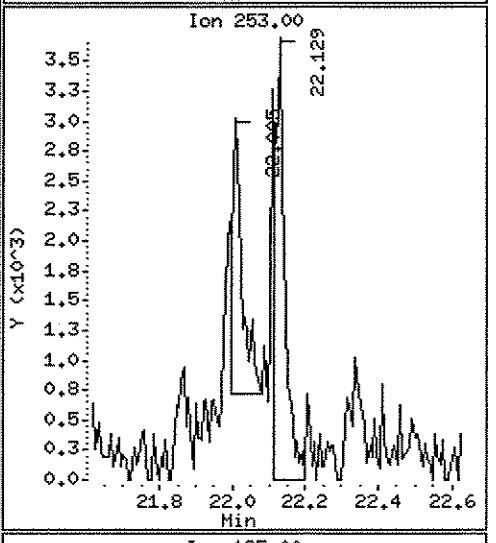
Column phase: fused silica Column diameter: 0.25

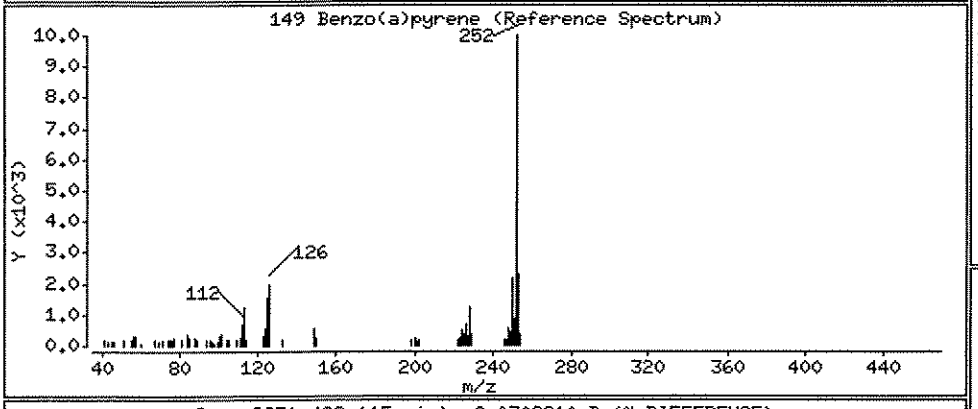
149 Benzo(a)pyrene Concentration: 278.5 UG/KG

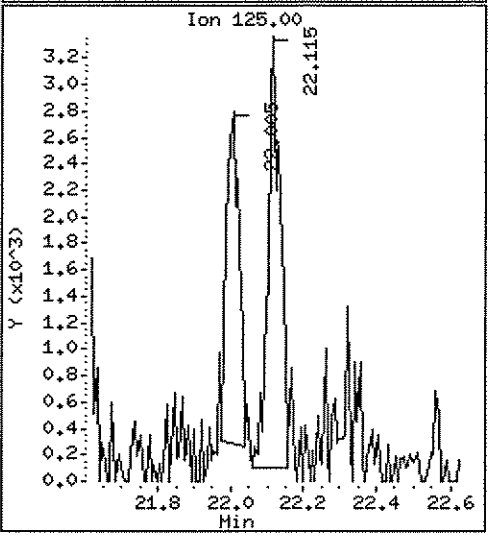


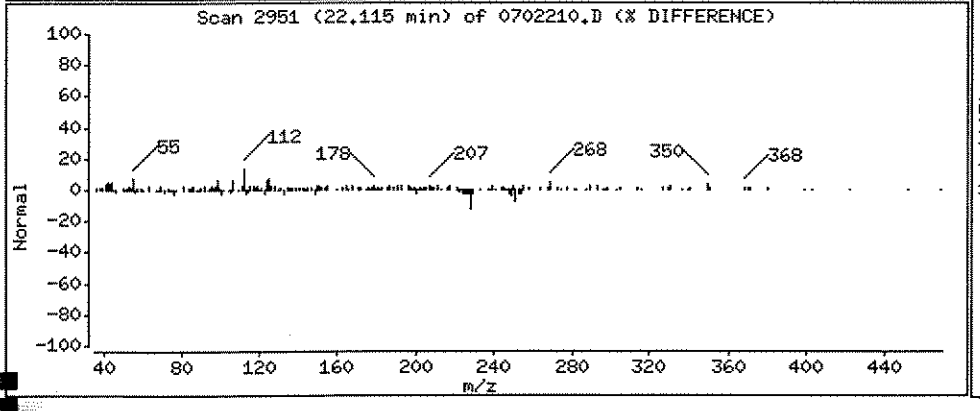












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702210.D

Date : 10-JUL-2006 19:14

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

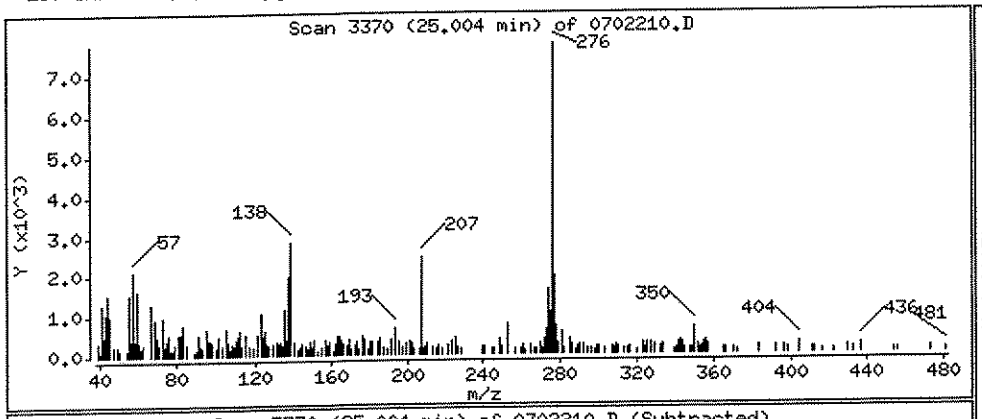
Operator: SDB

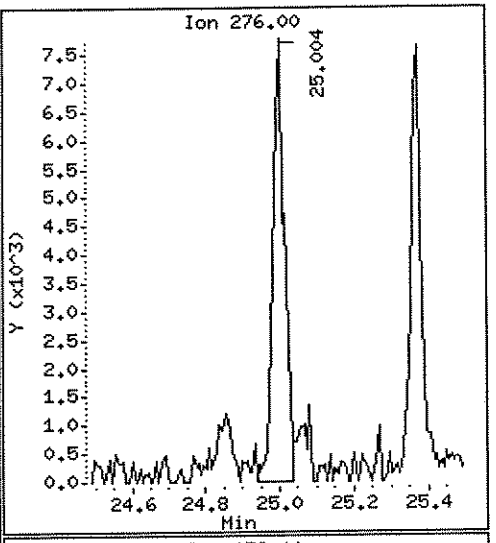
Column phase: fused silica

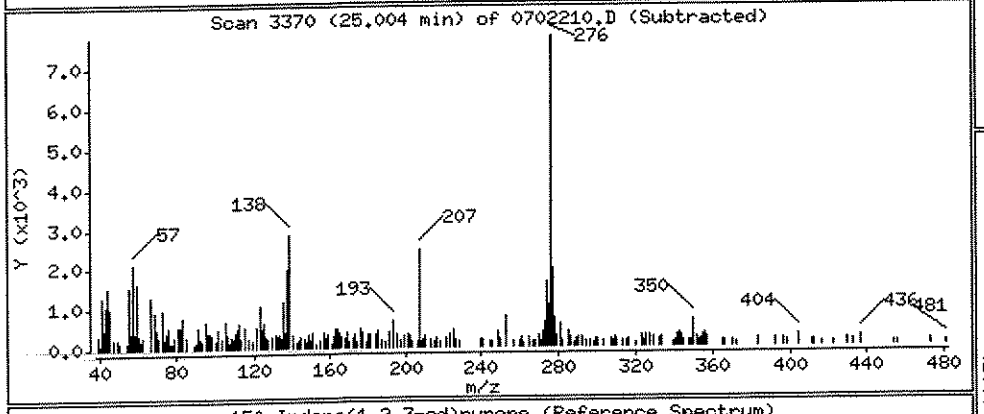
Column diameter: 0.25

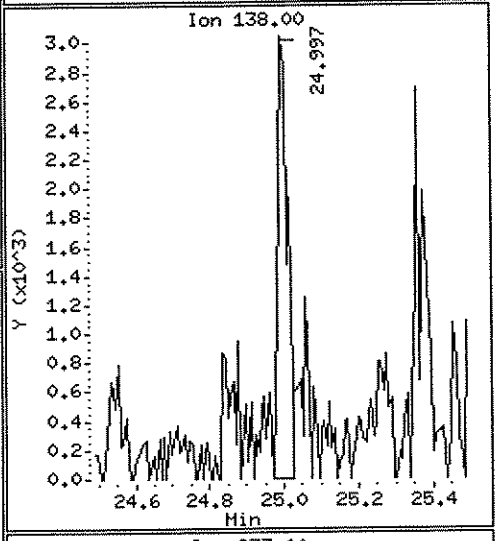
150 Indeno(1,2,3-cd)pyrene

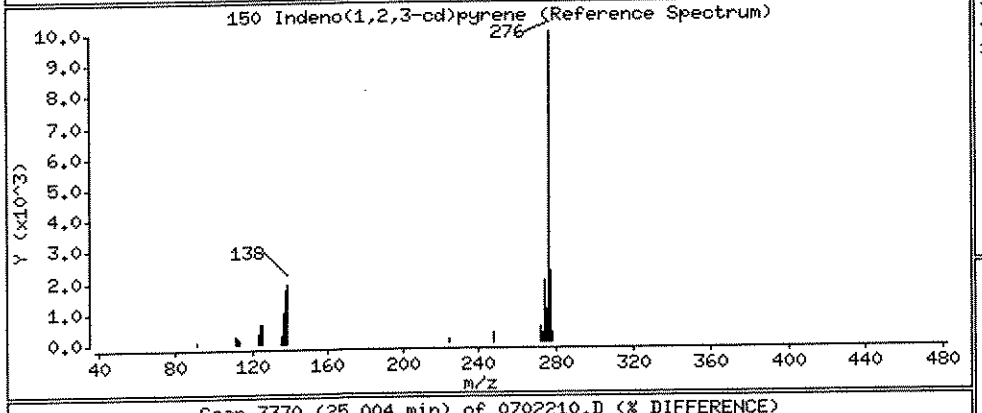
Concentration: 166.0 UG/KG

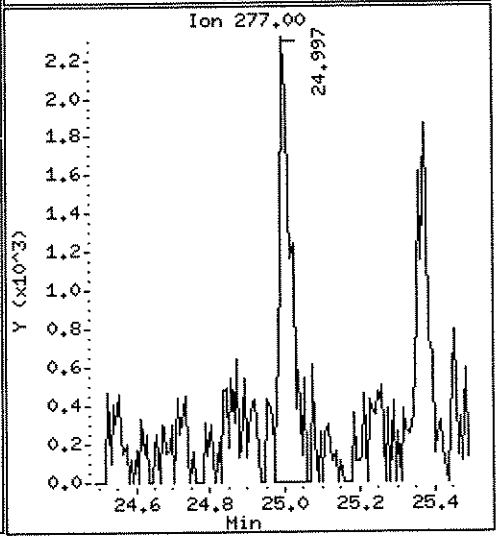


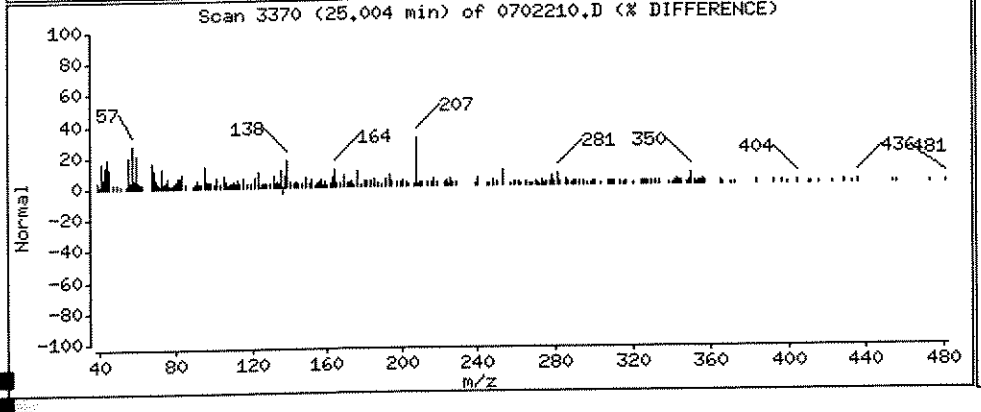












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM08S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0702210D

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 12:42

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	43	360		UD
208-96-8	Acenaphthylene	43	360		UD
120-12-7	Anthracene	43	360		UD
56-55-3	Benzo(a)anthracene	43	360	230	JD
205-99-2	Benzo(b)fluoranthene	43	360	330	JD
207-08-9	Benzo(k)fluoranthene	43	360	190	JD
191-24-2	Benzo(g,h,i)perylene	43	360	180	JD
50-32-8	Benzo(a)pyrene	43	210	310	D
218-01-9	Chrysene	43	360	340	JD
53-70-3	Dibenz(a,h)anthracene	43	210		UD
206-44-0	Fluoranthene	43	360	490	D
86-73-7	Fluorene	43	360		UD
193-39-5	Indeno(1,2,3-cd)pyrene	43	360	170	JD
91-57-6	2-Methylnaphthalene	43	360		UD
90-12-0	1-Methylnaphthalene	110	360		UD
91-20-3	Naphthalene	43	360		UD
85-01-8	Phenanthrene	43	360	110	JD
129-00-0	Pyrene	43	360	590	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Lab Smp Id: 0607022-10 Client Smp ID: 51CFM08S060706
Inj Date : 11-JUL-2006 12:42
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7
Dil Factor: 2.00000 Compound Sublist: ch2pah.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	91.800	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	576810	40.0000	
* 31 Naphthalene-d8	136	5.232	5.240	(1.000)	1935806	40.0000	
$ 32 Nitrobenzene-d5	82	4.662	4.668	(0.891)	688728	32.5921	2320
* 65 Acenaphthene-d10	164	7.637	7.641	(1.000)	991861	40.0000	
$ 70 2-Fluorobiphenyl	172	6.547	6.555	(0.857)	947915	30.0314	2138
* 97 Phenanthrene-d10	188	10.919	10.923	(1.000)	1290131	40.0000	
106 Phenanthrene	178	10.960	10.986	(1.004)	59090	1.60639	114.4(a)
110 Fluoranthene	202	14.172	14.195	(1.298)	252705	6.93900	494.0
* 124 Chrysene-d12	240	18.326	18.333	(1.000)	867995	40.0000	
126 Pyrene	202	14.750	14.770	(0.805)	289370	8.34768	594.3
$ 127 Terphenyl-d14	244	15.547	15.545	(0.848)	847362	38.6605	2752
130 Benzo(a)anthracene	228	18.270	18.291	(0.997)	91800	3.28245	233.7(a)
131 Chrysene	228	18.382	18.409	(1.003)	122355	4.79004	341.0(a)

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Report Date: 12-Jul-2006 12:13

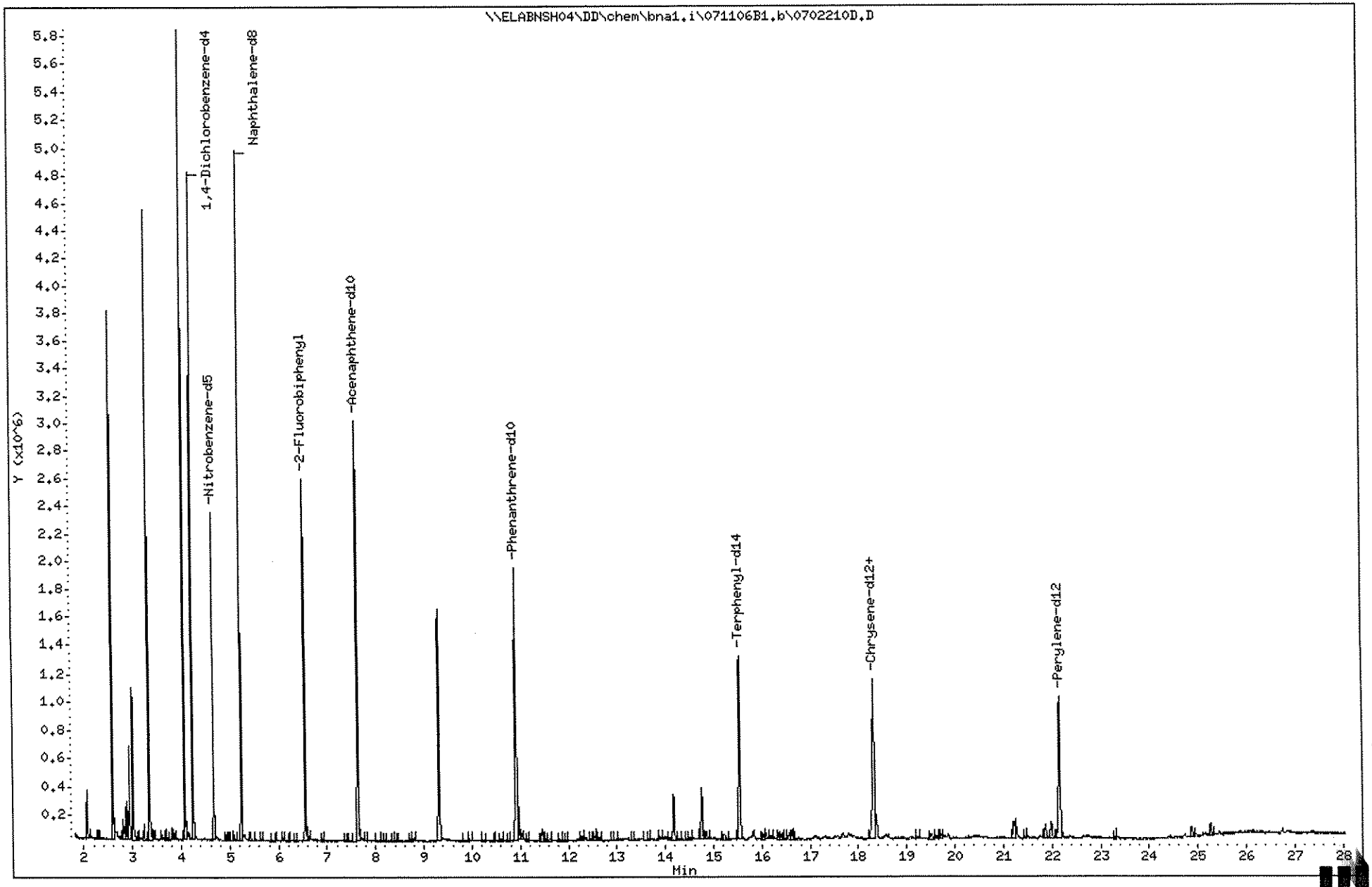
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	22.160	22.175	(1.000)	850543	40.0000	
147 Benzo(b)fluoranthene	252	21.217	21.248	(0.957)	122375	4.67073	332.5(aM)
148 Benzo(k)fluoranthene	252	21.265	21.317	(0.960)	73989	2.72188	193.8(aM)
149 Benzo(a)pyrene	252	21.988	22.017	(0.992)	98996	4.38177	312.0(a)
150 Indeno(1,2,3-cd)pyrene	276	24.880	24.921	(1.123)	46749	2.42528	172.7(a)
152 Benzo(g,h,i)perylene	276	25.268	25.301	(1.140)	49344	2.46680	175.6(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D
Date : 11-JUL-2006 12:42
Client ID: 51CFM08S060706
Instrument: bna1.i
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000286



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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

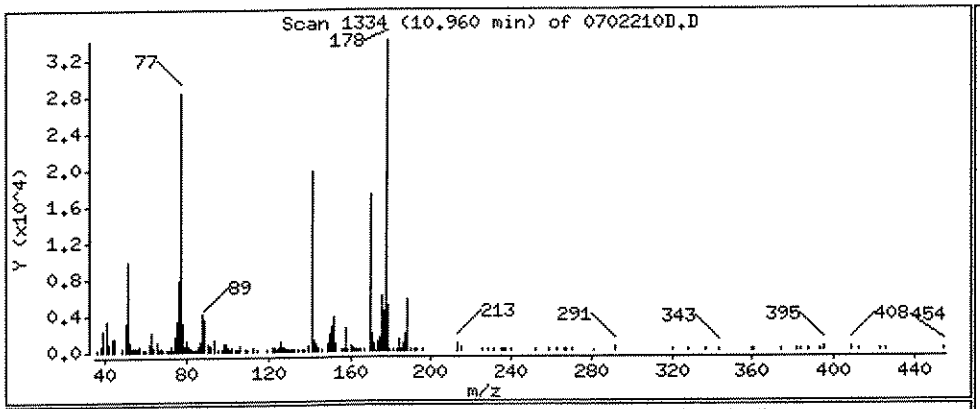
Client ID: 51CFM08S060706 Instrument: bna1.i

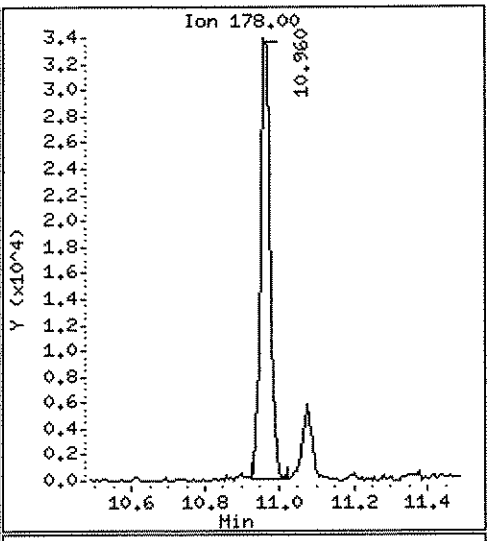
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

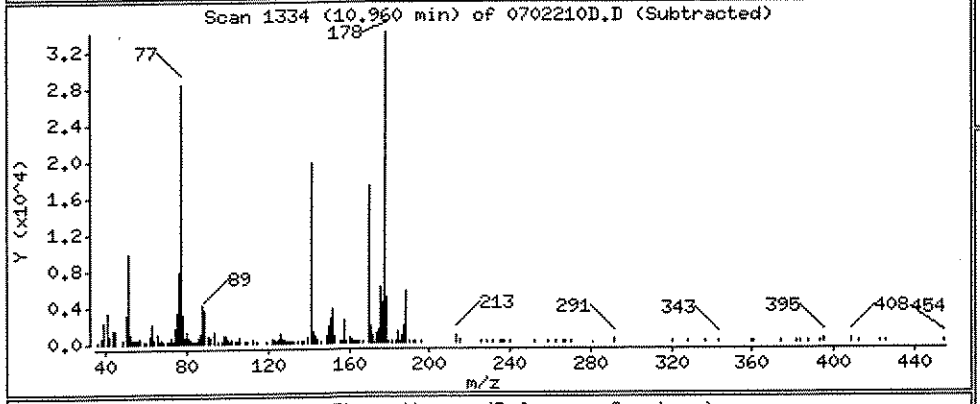
Volume Injected (uL): 0.5 Operator: SDB

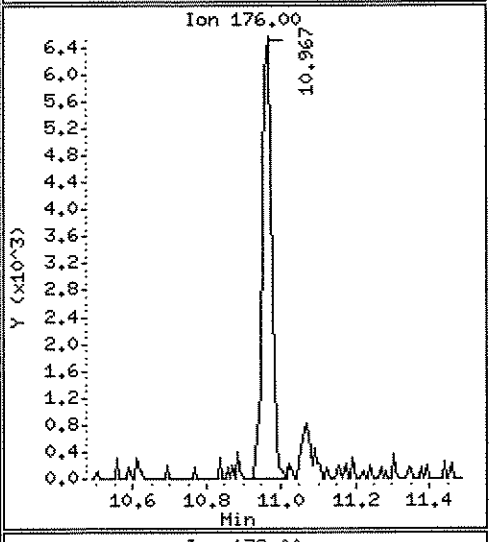
Column phase: fused silica Column diameter: 0.25

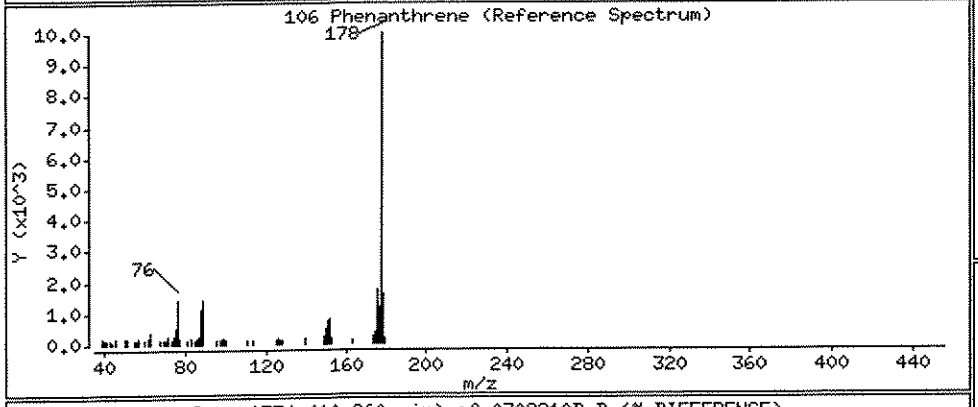
106 Phenanthrene Concentration: 114.4 UG/KG

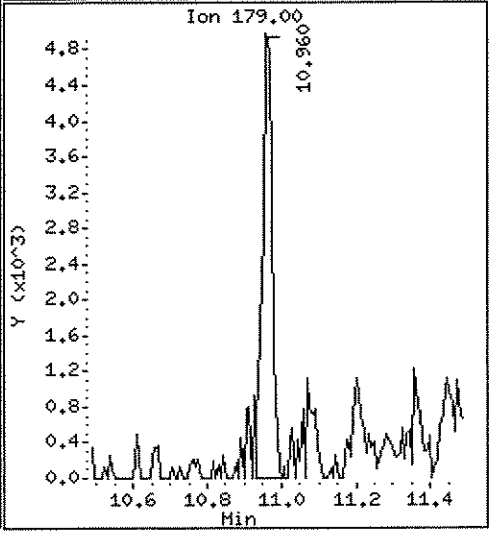


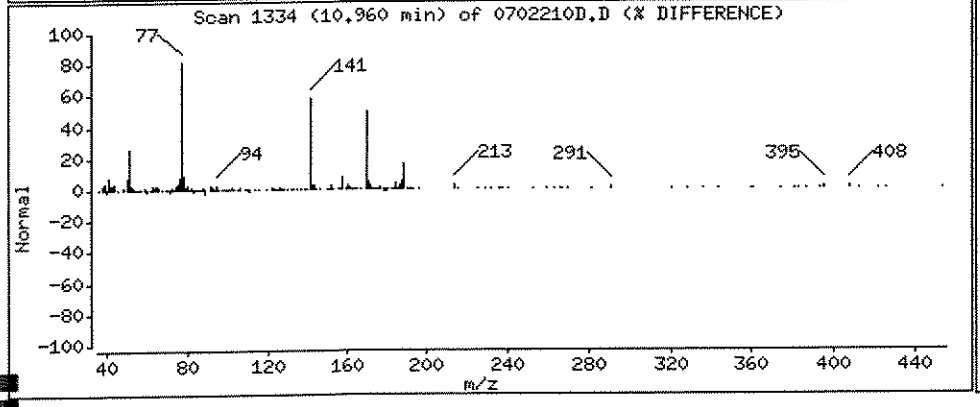












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Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

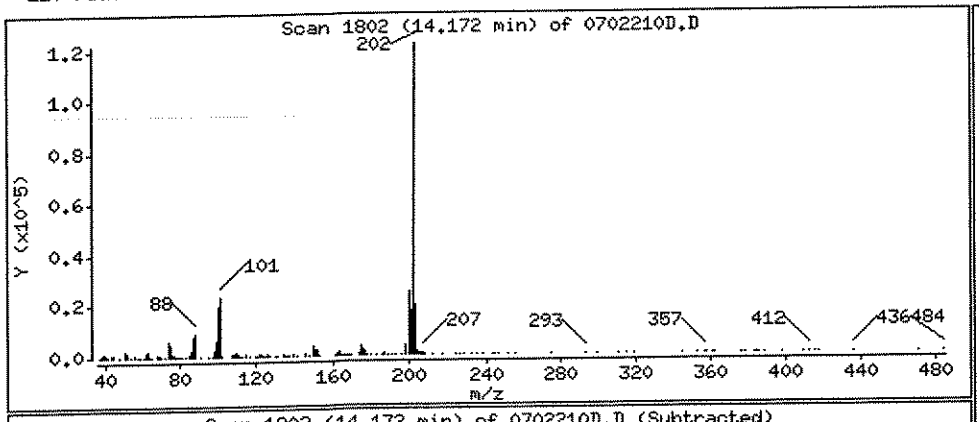
Operator: SDB

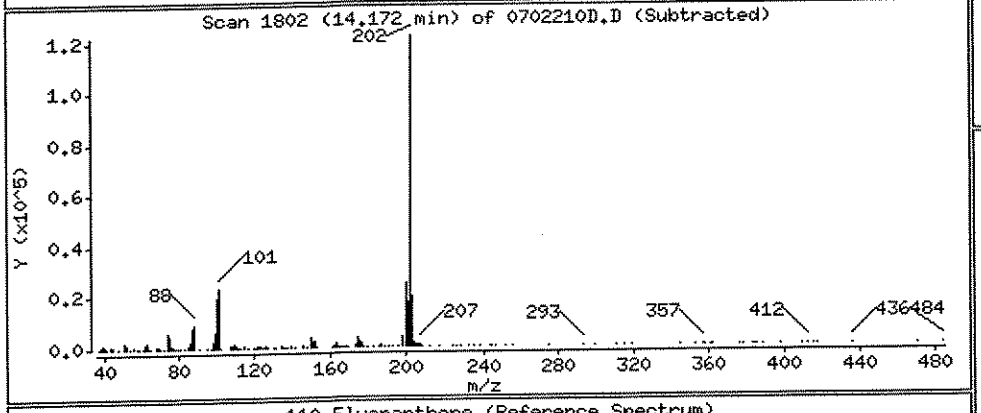
Column phase: fused silica

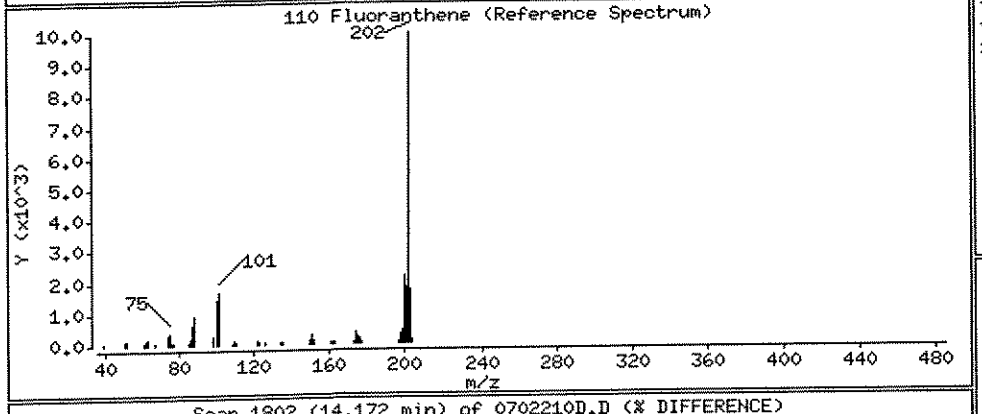
Column diameter: 0.25

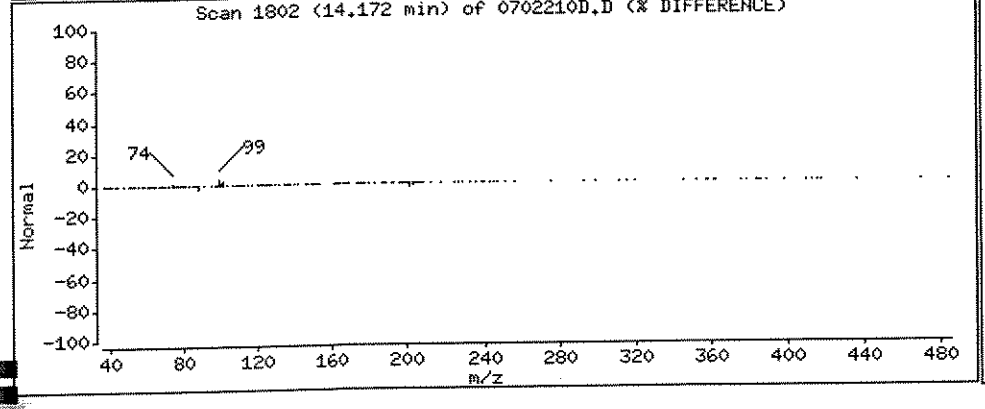
110 Fluoranthene

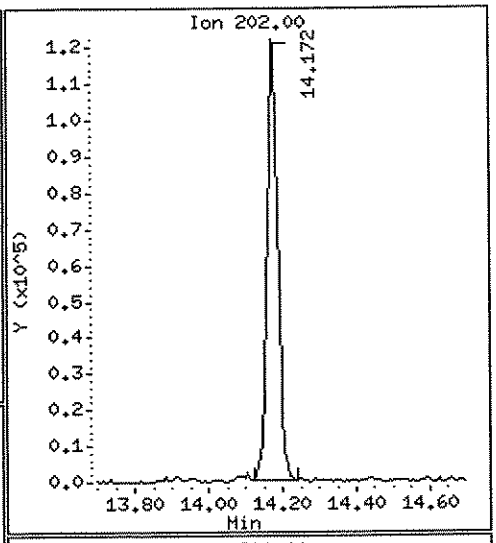
Concentration: 494.0 UG/KG

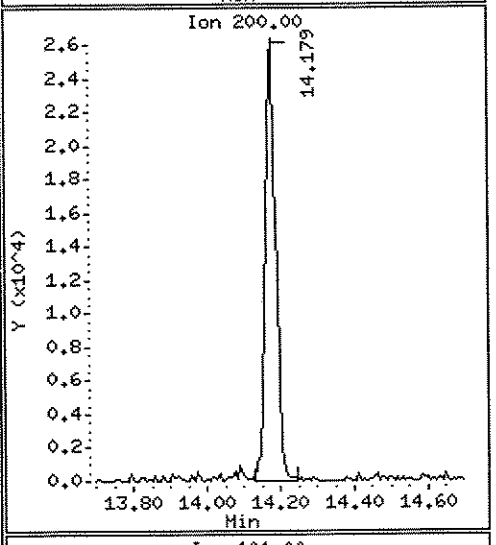


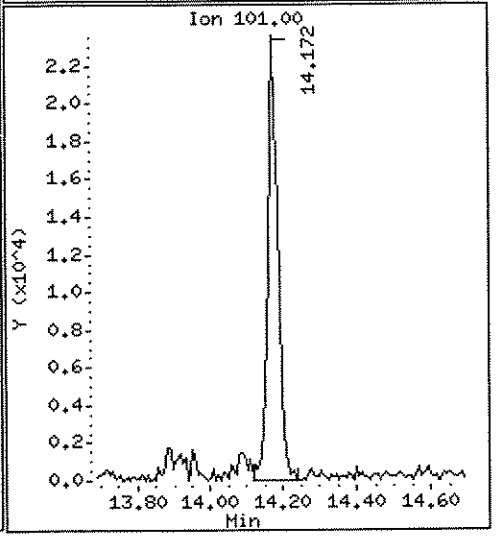












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

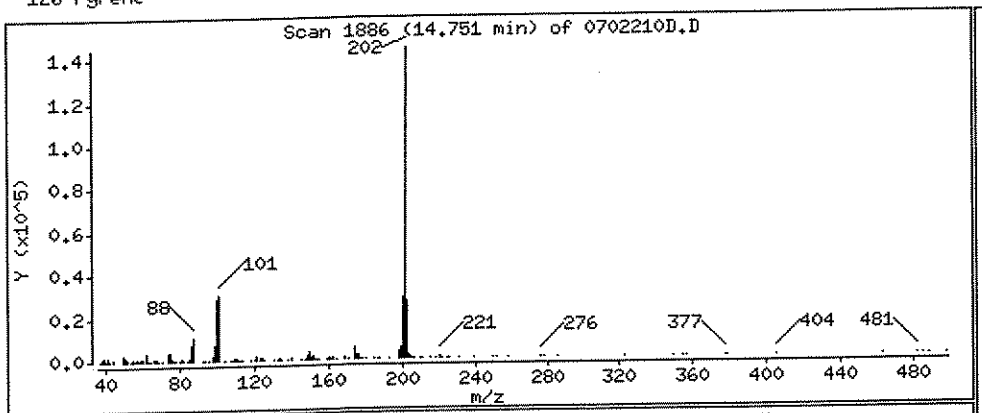
Operator: SDB

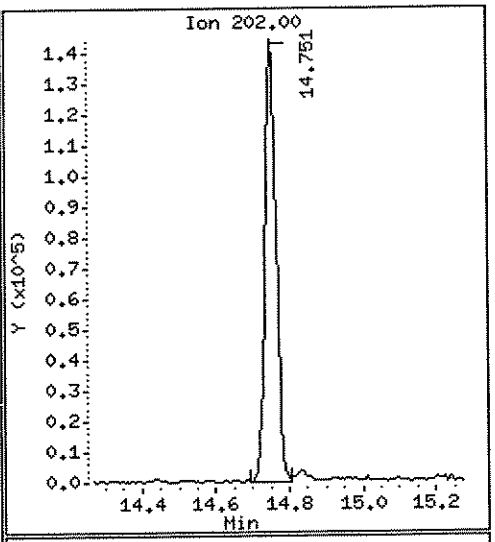
Column phase: fused silica

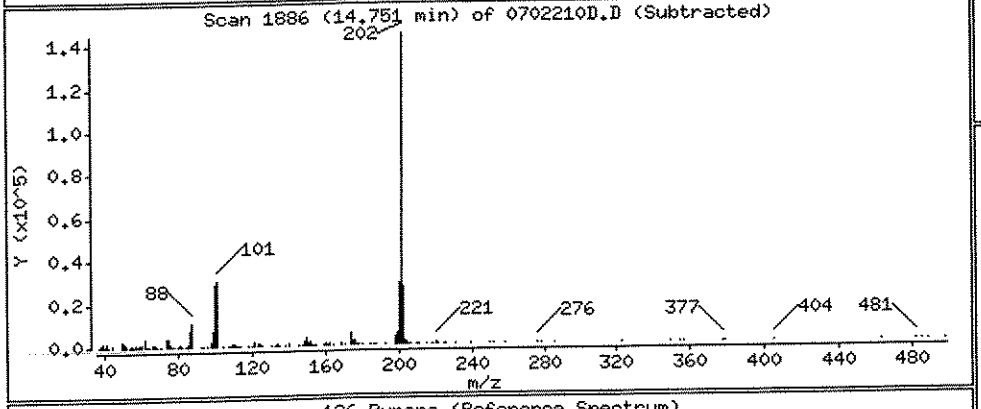
Column diameter: 0.25

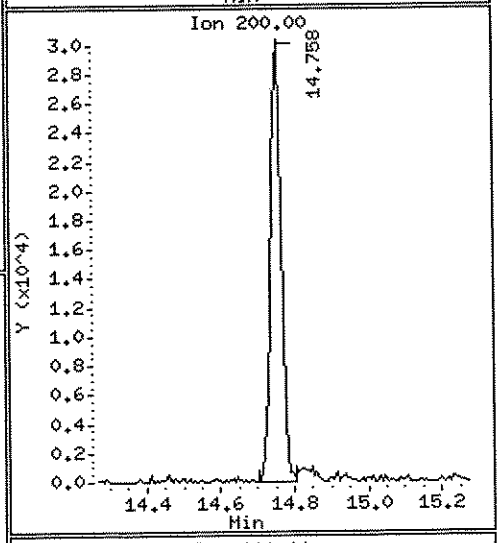
126 Pyrene

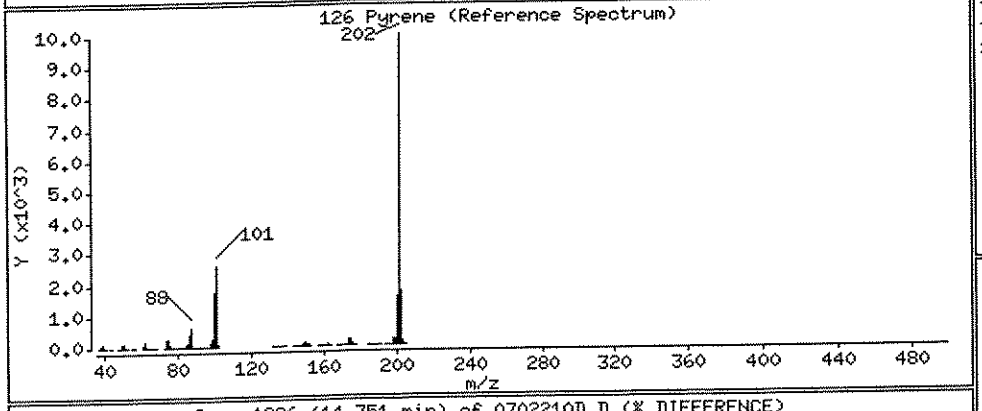
Concentration: 594.3 UG/KG

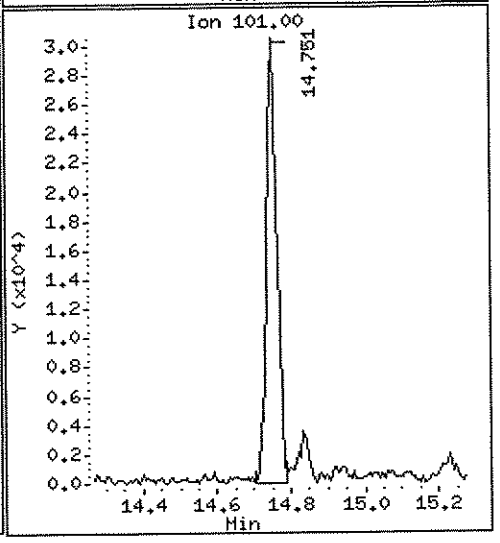


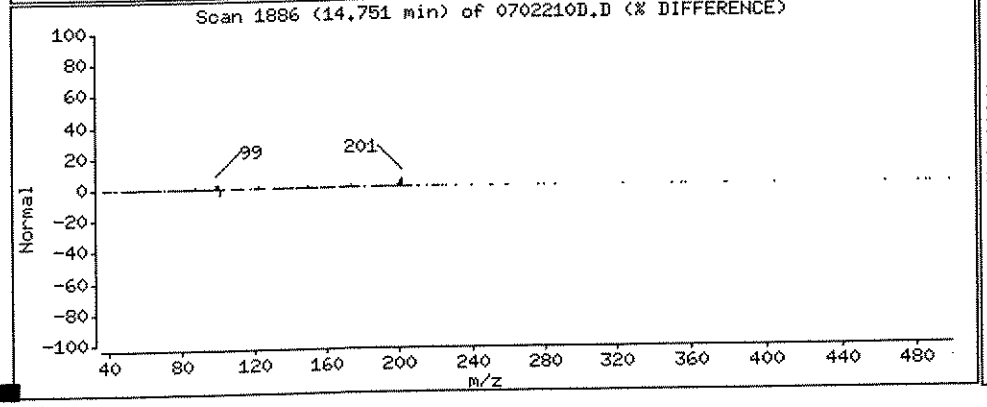












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

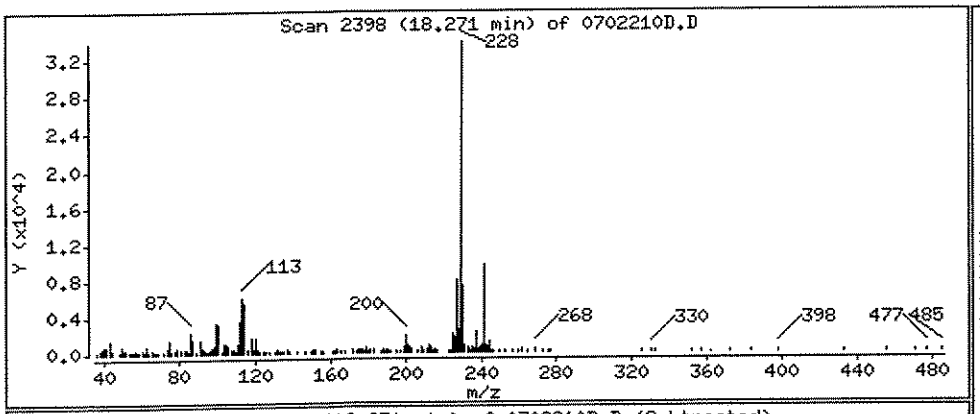
Operator: SDB

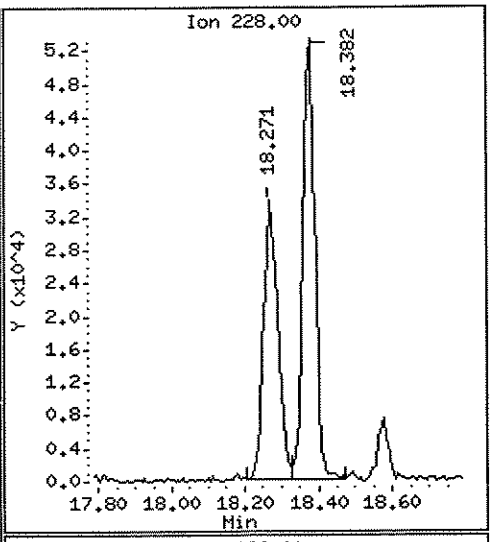
Column phase: fused silica

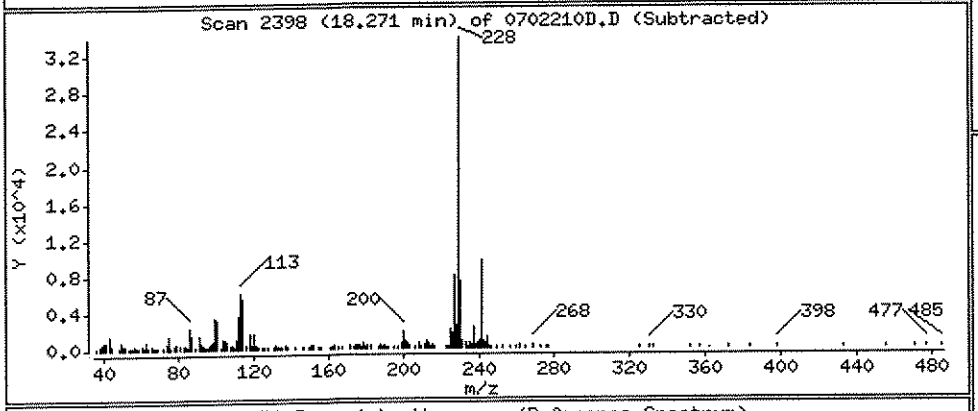
Column diameter: 0.25

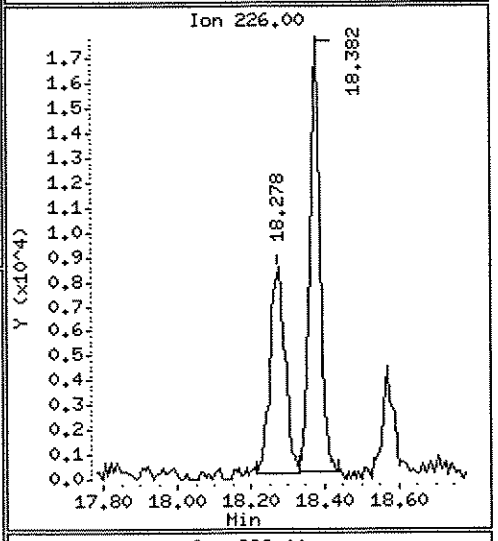
130 Benzo(a)anthracene

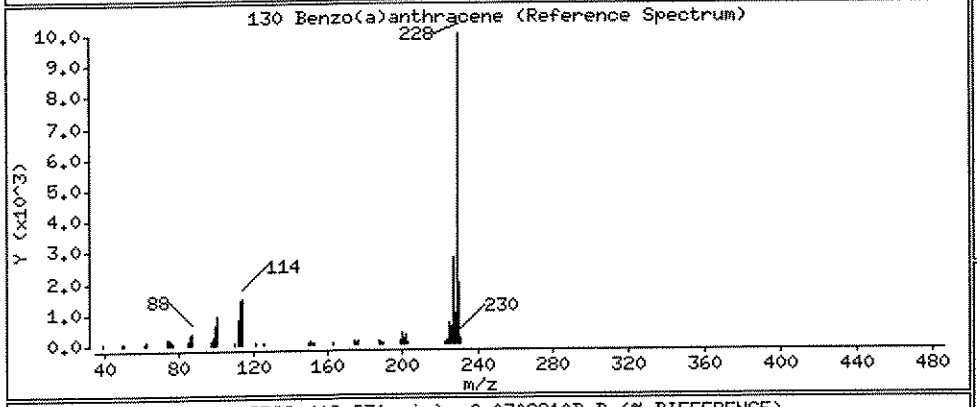
Concentration: 233.7 UG/KG

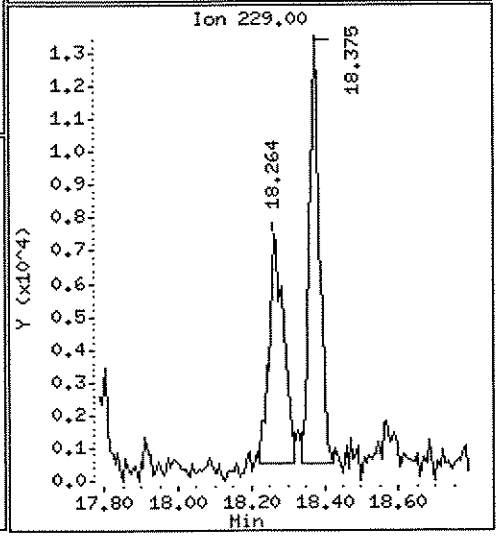


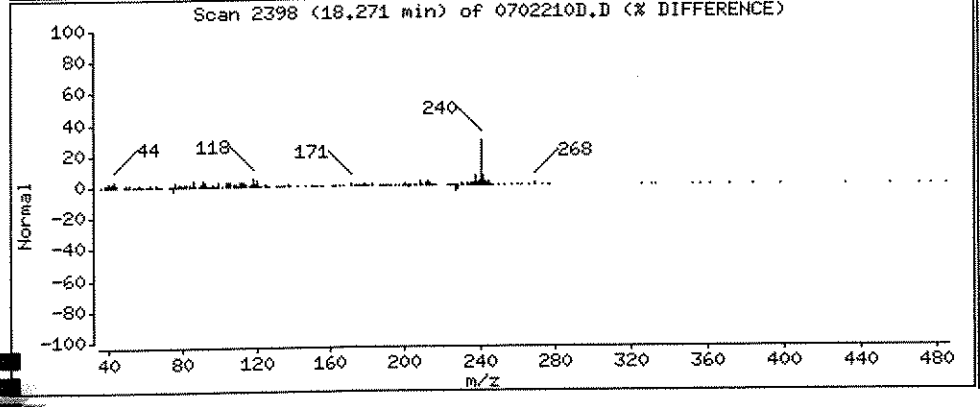












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

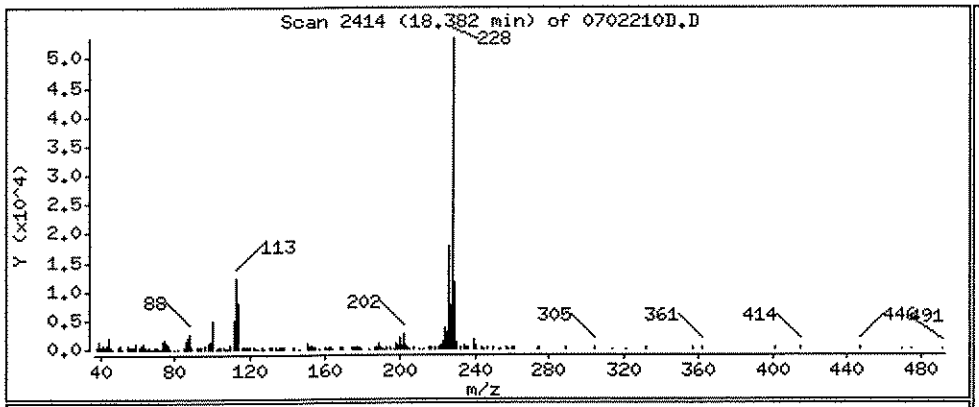
Client ID: 51CFM08S060706 Instrument: bna1.i

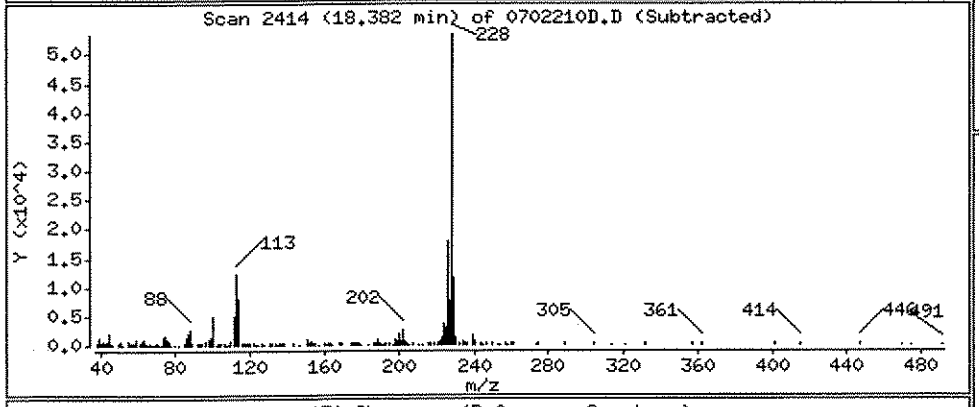
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

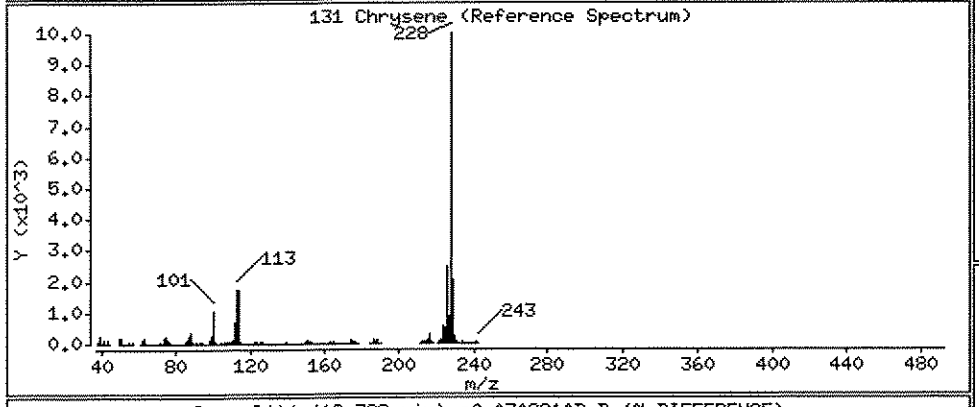
Volume Injected (uL): 0.5 Operator: SDB

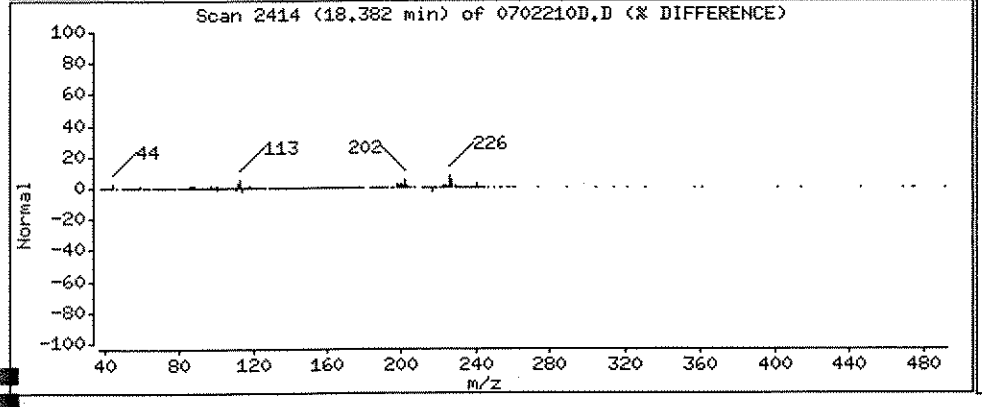
Column phase: fused silica Column diameter: 0.25

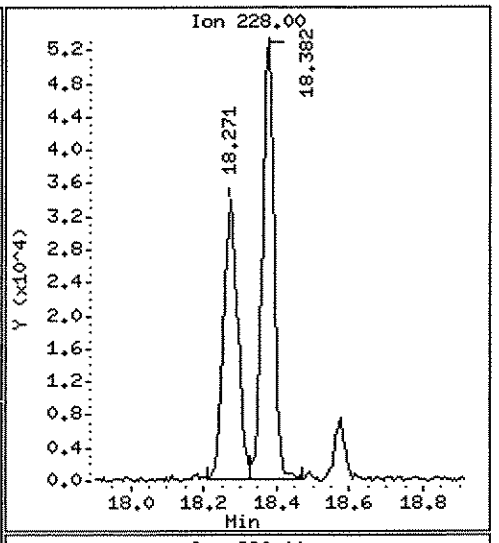
131 Chrysene Concentration: 341.0 UG/KG

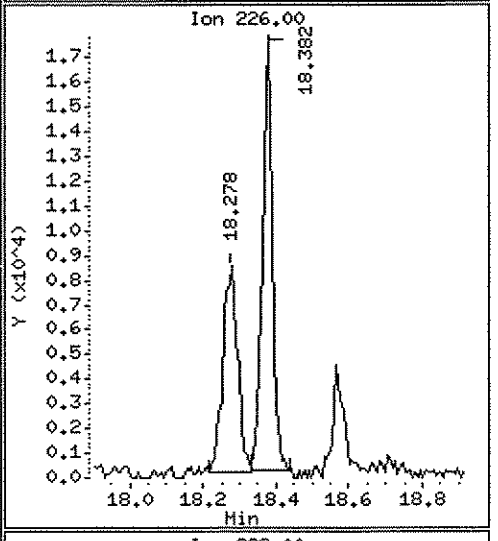


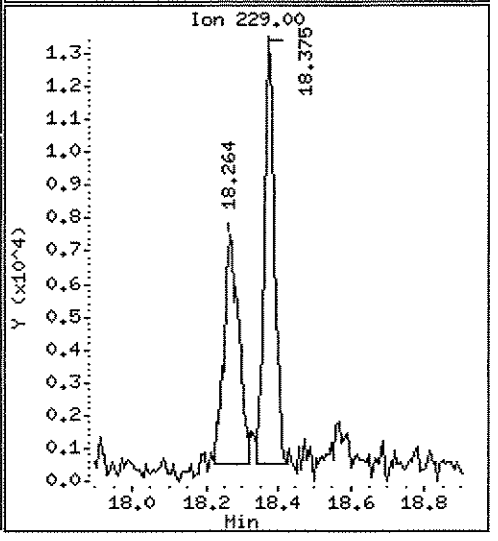












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

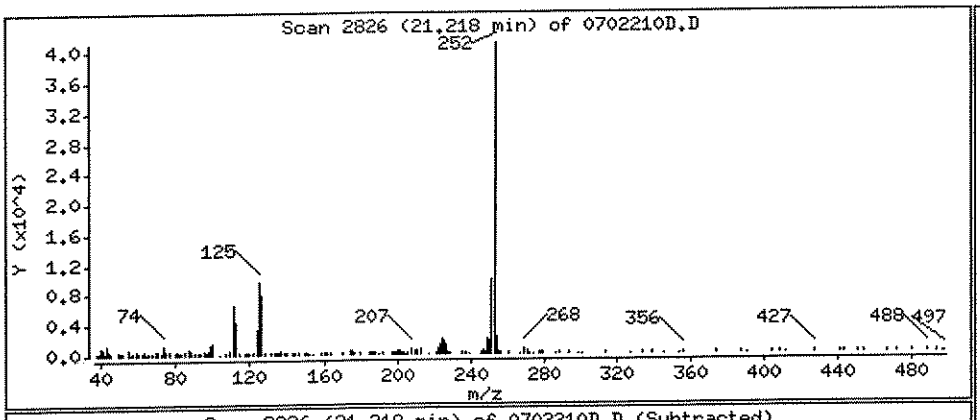
Operator: SDB

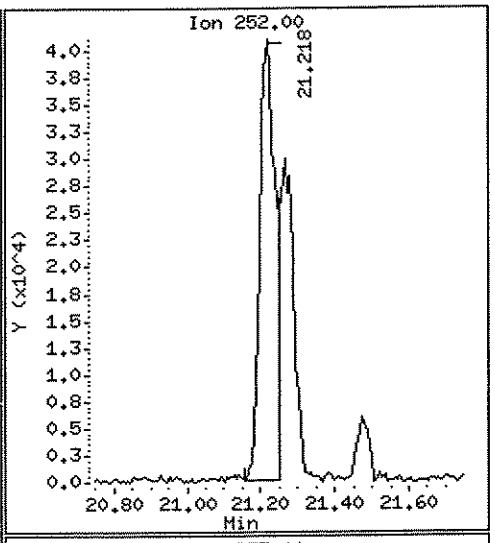
Column phase: fused silica

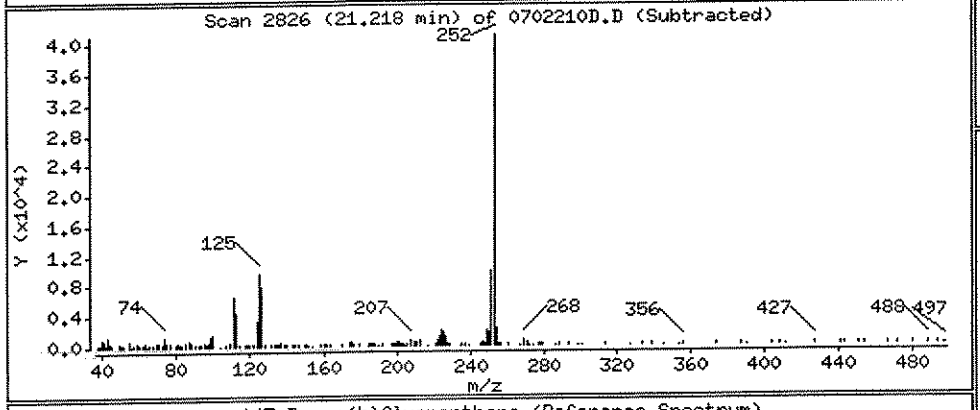
Column diameter: 0.25

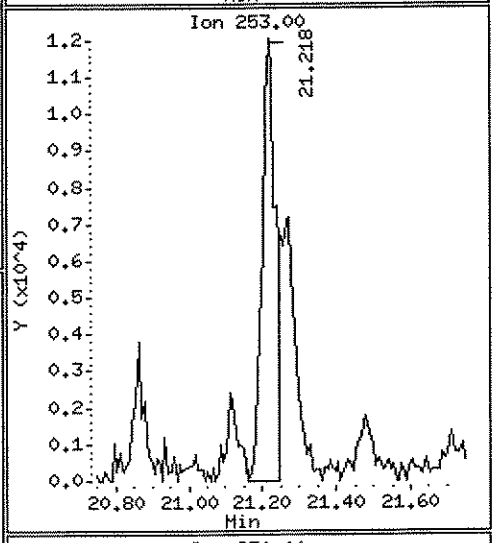
147 Benzo(b)fluoranthene

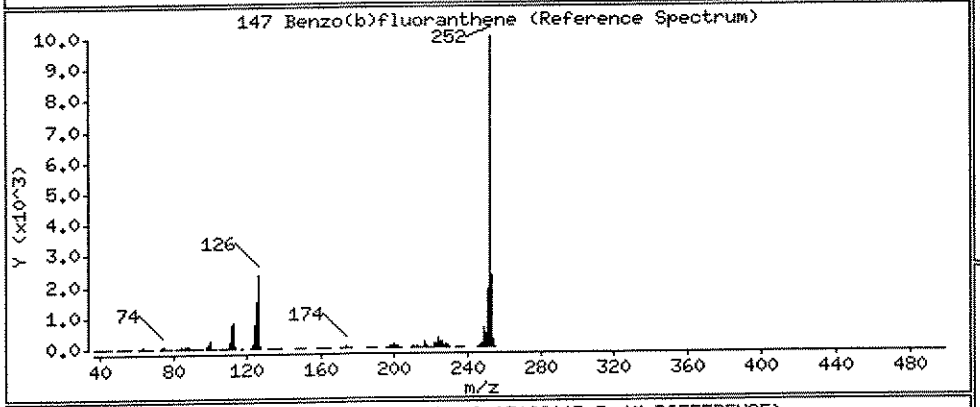
Concentration: 332.5 UG/KG

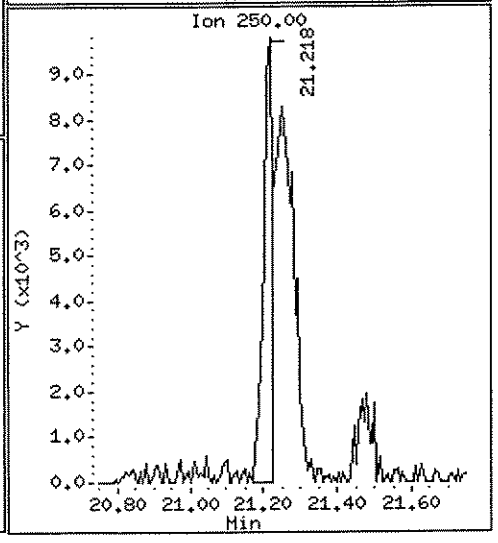


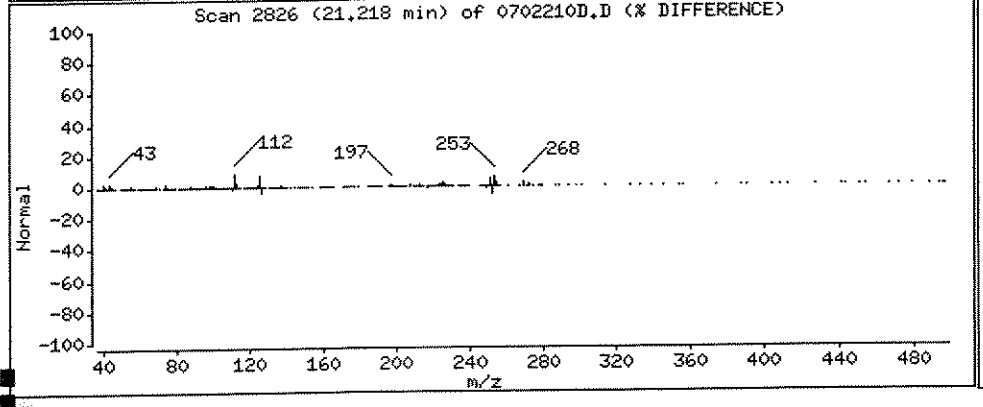












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Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

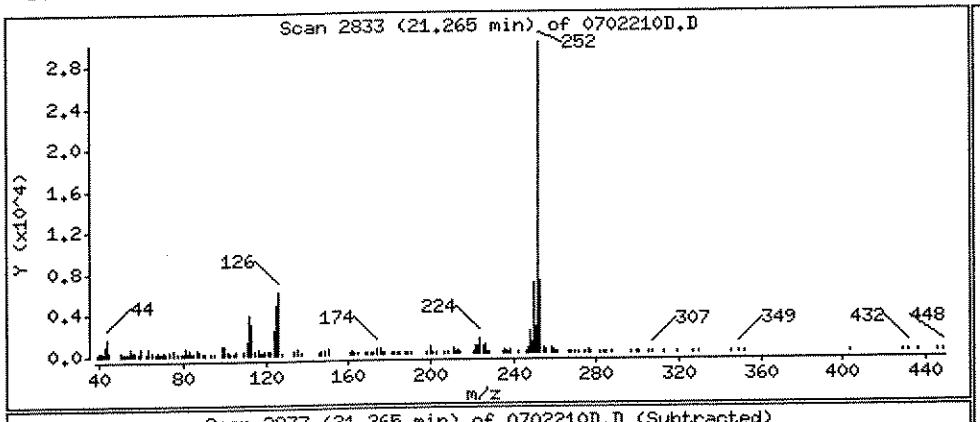
Operator: SDB

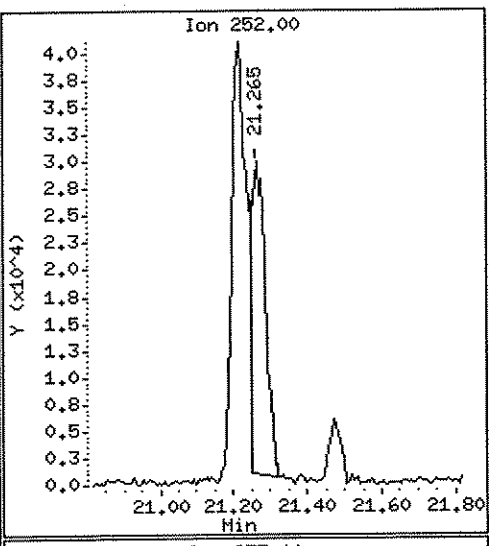
Column phase: fused silica

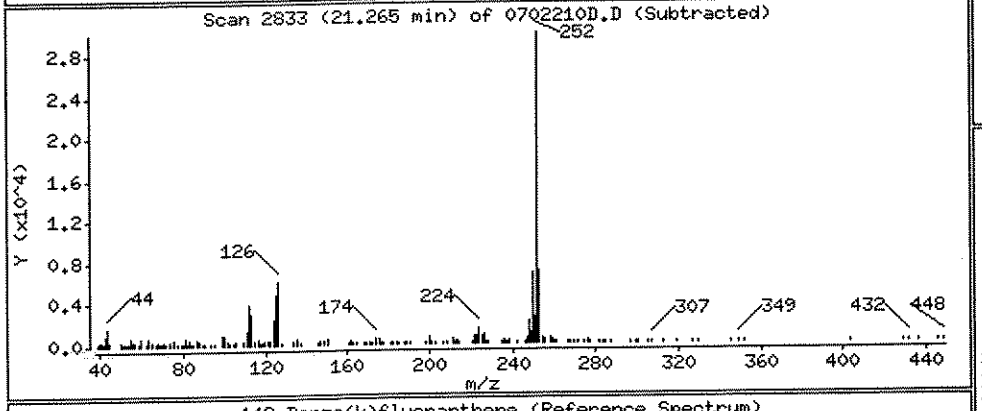
Column diameter: 0.25

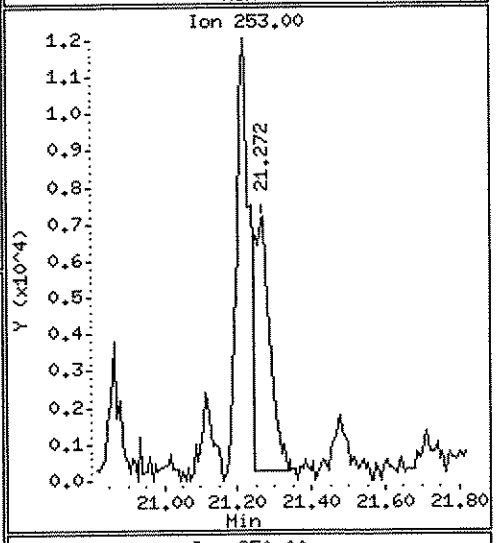
148 Benzo(k)fluoranthene

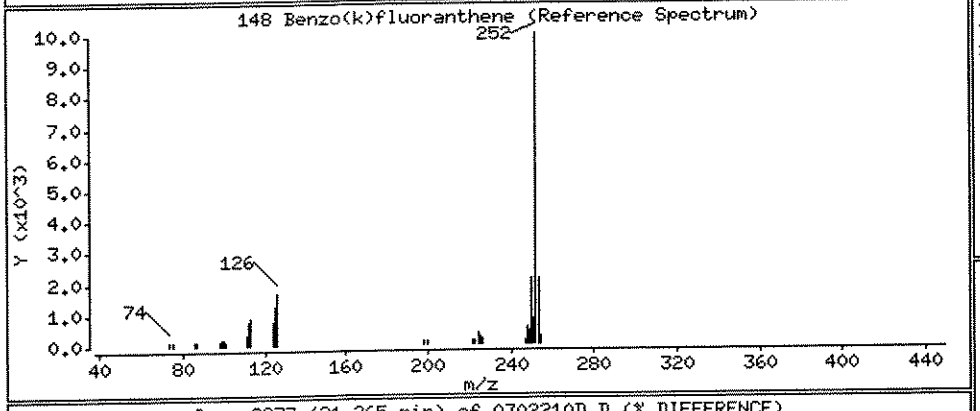
Concentration: 193.8 UG/KG

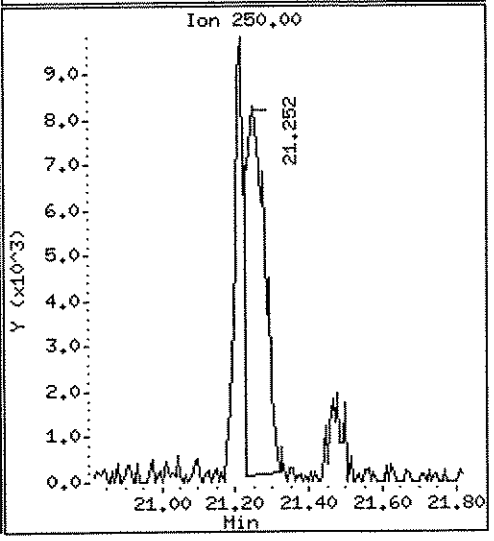


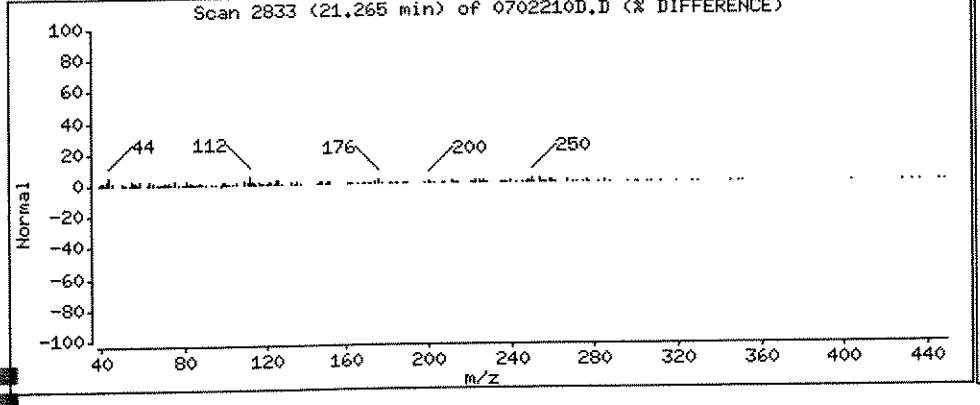












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFM08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

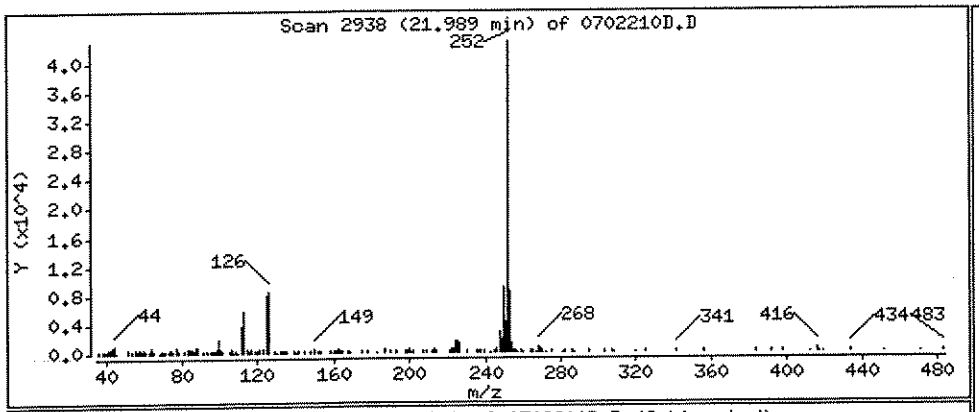
Operator: SDB

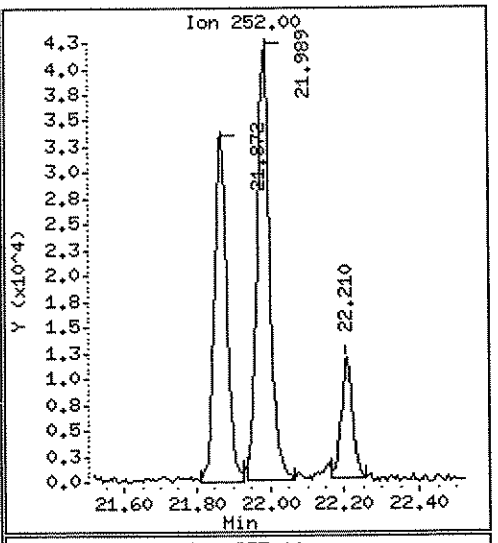
Column phase: fused silica

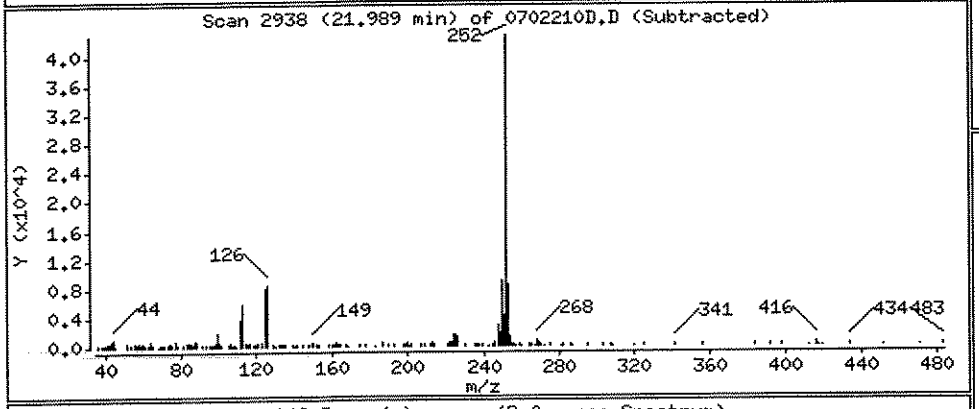
Column diameter: 0.25

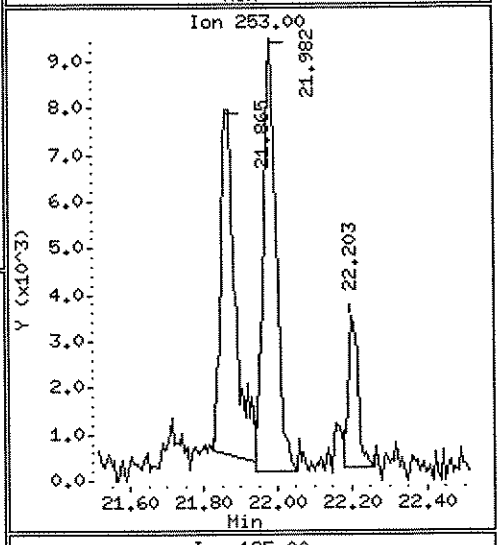
149 Benzo(a)pyrene

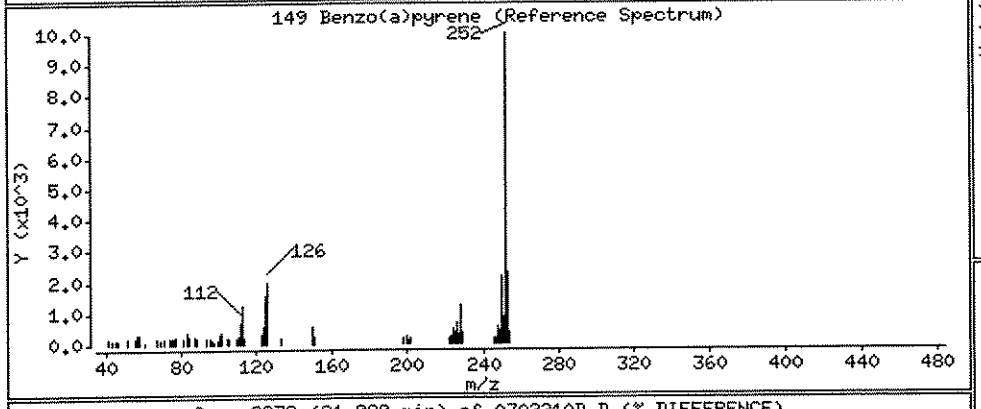
Concentration: 312.0 UG/KG

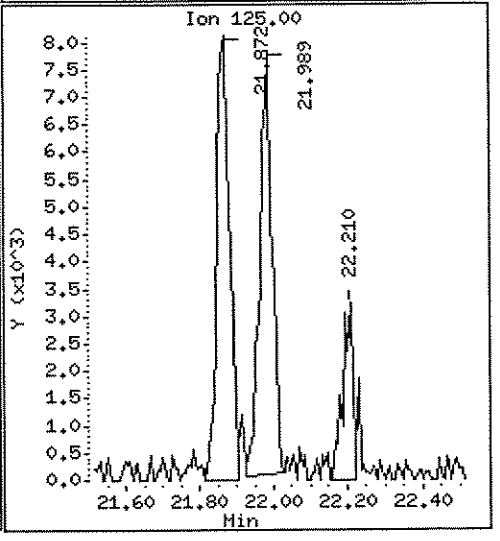


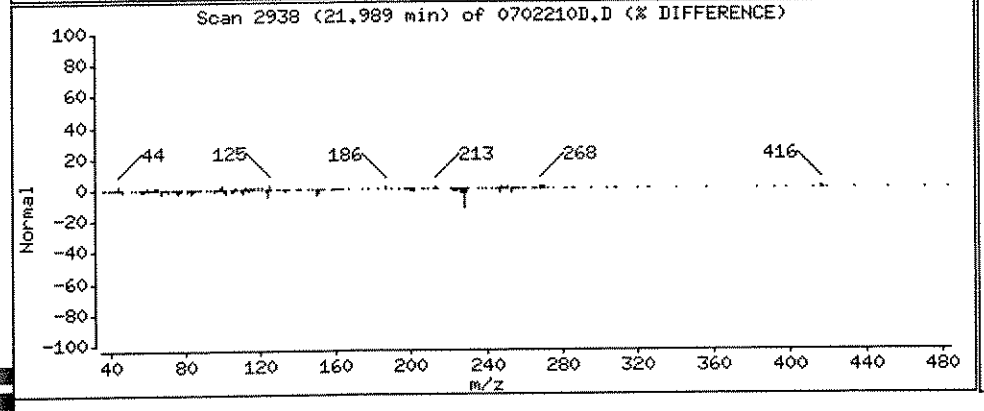












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

Client ID: 51CFH08S060706

Instrument: bna1.i

Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

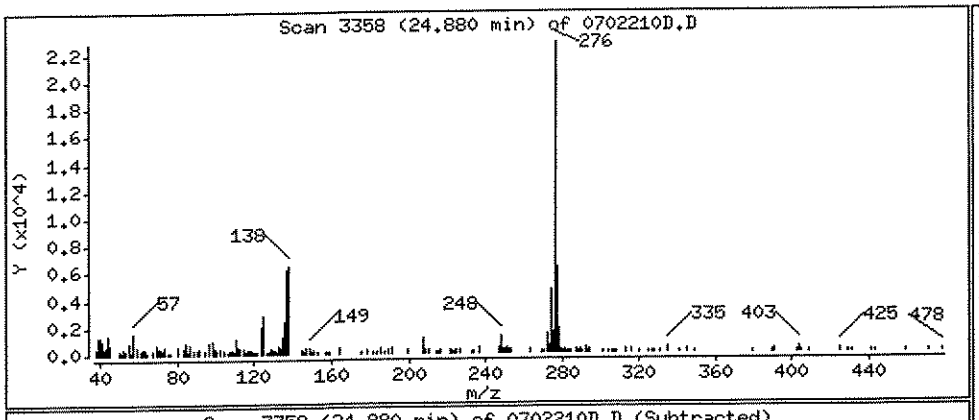
Operator: SDB

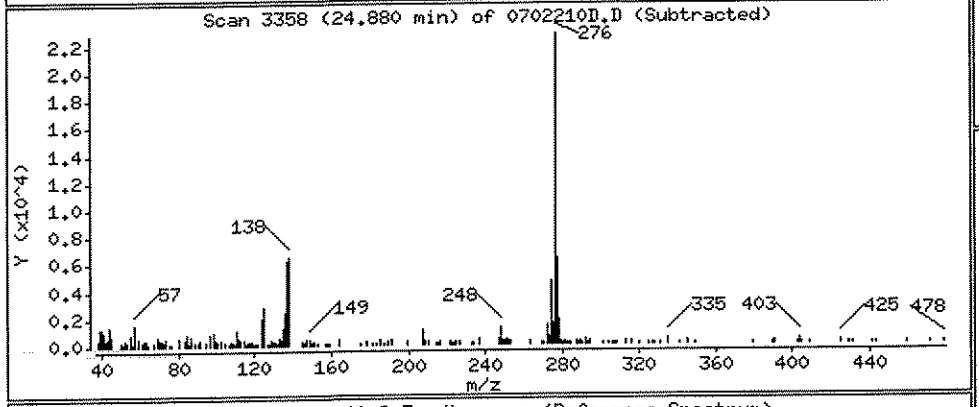
Column phase: fused silica

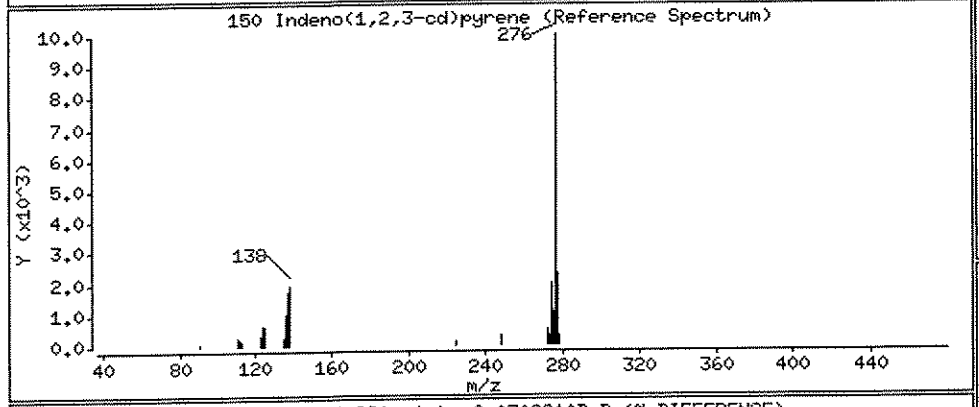
Column diameter: 0.25

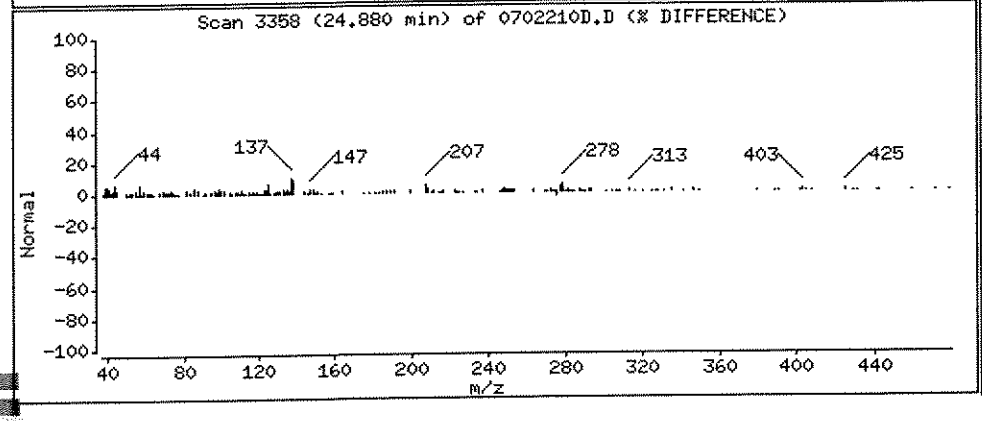
150 Indeno(1,2,3-cd)pyrene

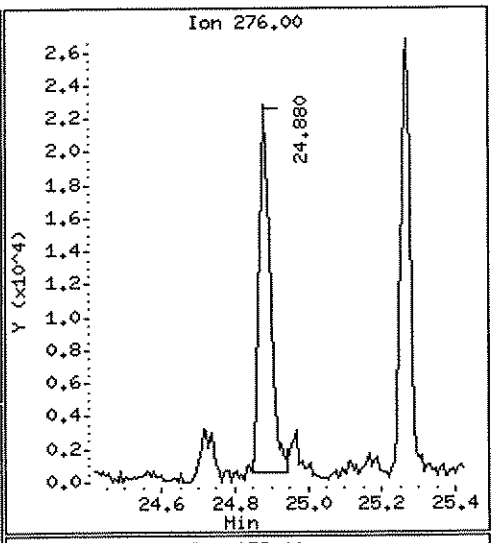
Concentration: 172.7 UG/KG

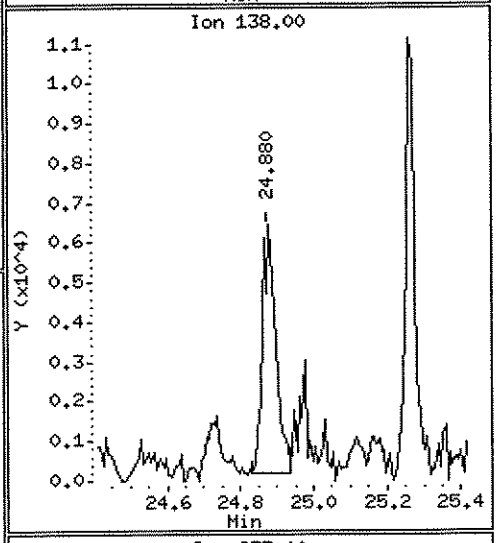


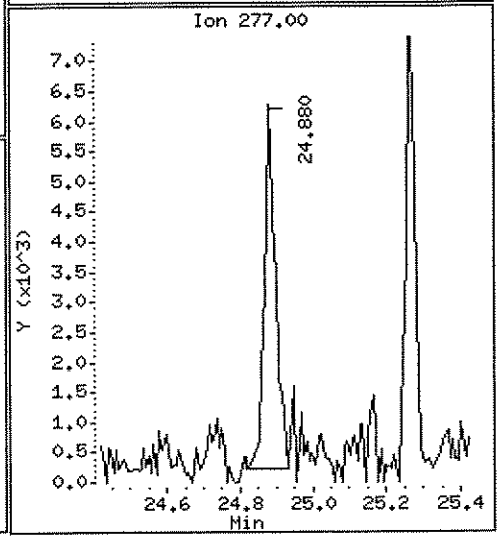












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702210D.D

Date : 11-JUL-2006 12:42

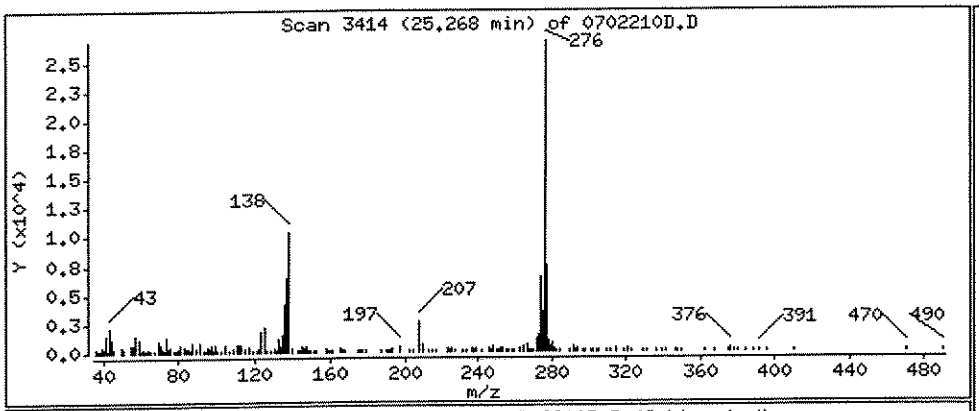
Client ID: 51CFM08S060706 Instrument: bna1.i

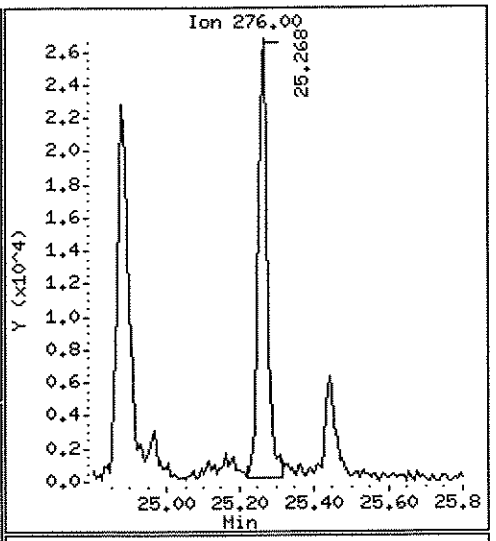
Sample Info: 0607022-10;15.3;500;1;UG/KG;10-JUL-2006

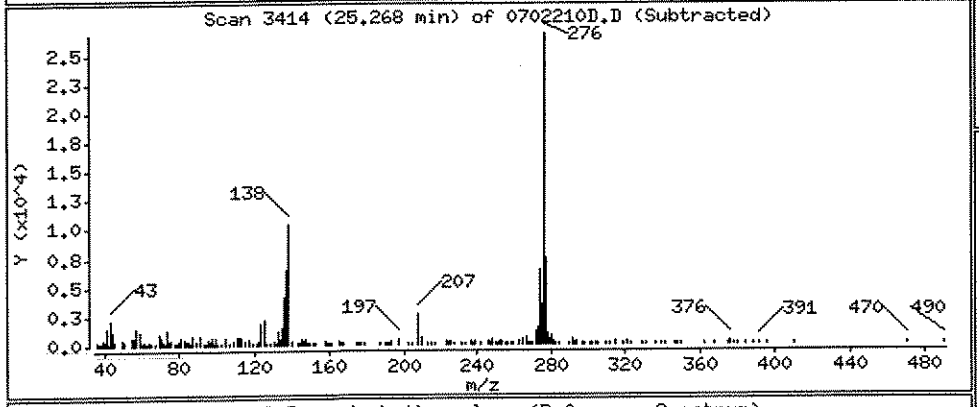
Volume Injected (uL): 0.5 Operator: SDB

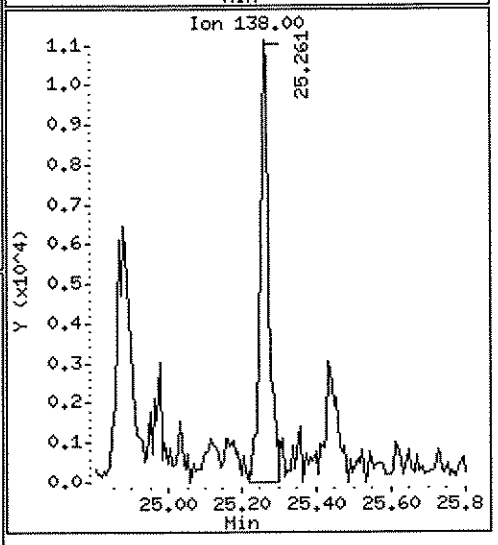
Column phase: fused silica Column diameter: 0.25

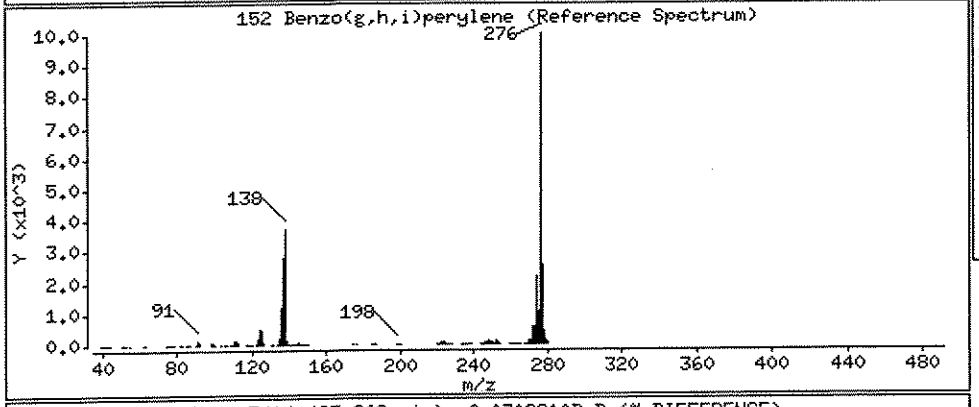
152 Benzo(g,h,i)perylene Concentration: 175.6 UG/KG

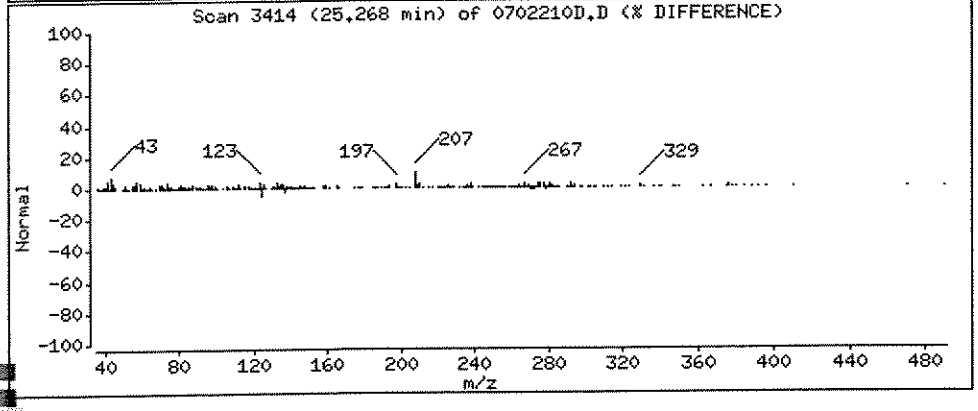












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 19:49

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	120	J
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170	200	
56-55-3	Benzo(a)anthracene	20	170	1000	
205-99-2	Benzo(b)fluoranthene	20	170	1500	
207-08-9	Benzo(k)fluoranthene	20	170	880	
191-24-2	Benzo(g,h,i)perylene	20	170	480	
50-32-8	Benzo(a)pyrene	20	100	1200	
218-01-9	Chrysene	20	170	1400	
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170	1300	
86-73-7	Fluorene	20	170	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	550	
91-57-6	2-Methylnaphthalene	20	170	20	J
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170	1100	
129-00-0	Pyrene	20	170	2500	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Report Date: 11-Jul-2006 13:58

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Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Lab Smp Id: 0607022-11 Client Smp ID: 51DUP1S060706
Inj Date : 10-JUL-2006 19:49
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.700	Percent Solids

7/11/06

7/11/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.274	4.276	(1.000)	588667	40.0000	
* 31 Naphthalene-d8	136	5.278	5.287	(1.000)	1995612	40.0000	
$ 32 Nitrobenzene-d5	82	4.707	4.709	(0.892)	1123088	51.5542	1718
51 2-Methylnaphthalene	141	6.055	6.062	(1.147)	17446	0.61192	20.39(a)
* 65 Acenaphthene-d10	164	7.712	7.719	(1.000)	967098	40.0000	
$ 70 2-Fluorobiphenyl	172	6.612	6.617	(0.857)	1708108	55.5011	1850
76 Acenaphthene	153	7.767	7.781	(1.007)	98222	3.51913	117.3(a)
84 Fluorene	166	8.806	8.814	(1.142)	113331	3.79640	126.5(a)
* 97 Phenanthrene-d10	188	11.019	11.020	(1.000)	1135313	40.0000	
106 Phenanthrene	178	11.082	11.082	(1.006)	1107125	34.2020	1140
107 Anthracene	178	11.186	11.192	(1.015)	189833	5.94008	198.0
110 Fluoranthene	202	14.311	14.296	(1.299)	1249138	38.9773	1299
* 124 Chrysene-d12	240	18.451	18.441	(1.000)	350216	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Report Date: 11-Jul-2006 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
126 Pyrene	202	14.895	14.878	(0.807)	1034042	73.9319	2464
$ 127 Terphenyl-d14	244	15.665	15.647	(0.849)	1085020	122.692	4089(AR)
130 Benzo(a)anthracene	228	18.409	18.400	(0.998)	354417	31.4088	1047
131 Chrysene	228	18.521	18.510	(1.004)	424104	41.1502	1371
* 145 Perylene-d12	264	22.293	22.273	(1.000)	196508	40.0000	
147 Benzo(b)fluoranthene	252	21.374	21.352	(0.959)	280508	46.3397	1544(M)
148 Benzo(k)fluoranthene	252	21.409	21.421	(0.960)	165504	26.3528	878.3(M)
149 Benzo(a)pyrene	252	22.140	22.121	(0.993)	195609	37.4746	1249
150 Indeno(1,2,3-cd)pyrene	276	25.014	24.990	(1.122)	74135	16.6467	554.8
152 Benzo(g,h,i)perylene	276	25.379	25.361	(1.138)	66648	14.4212	480.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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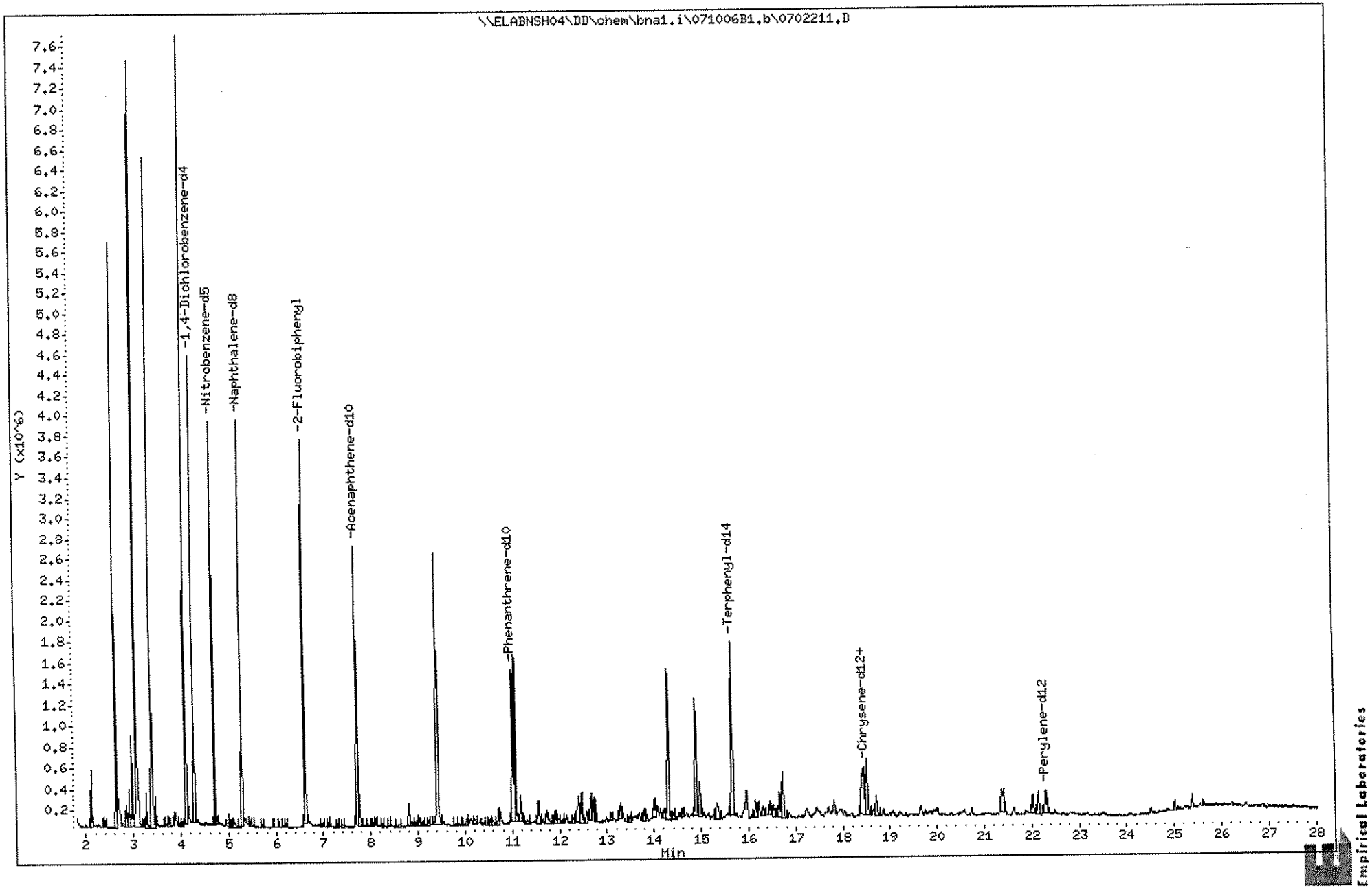
Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D
Date : 10-JUL-2006 19:49
Client ID: 51DUP1S060706
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000300



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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

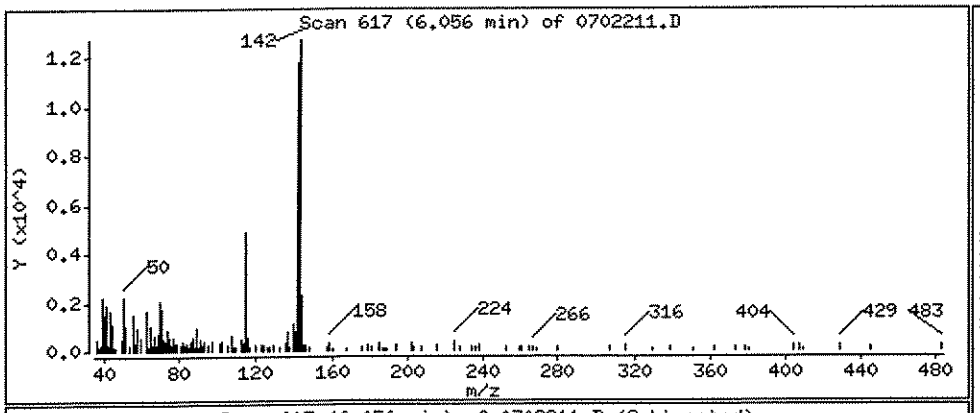
Client ID: 51DUP1S060706 Instrument: bna1.i

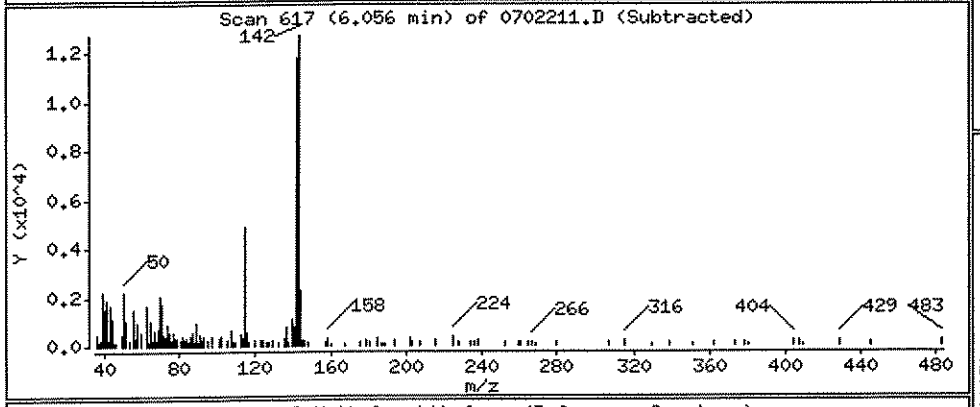
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

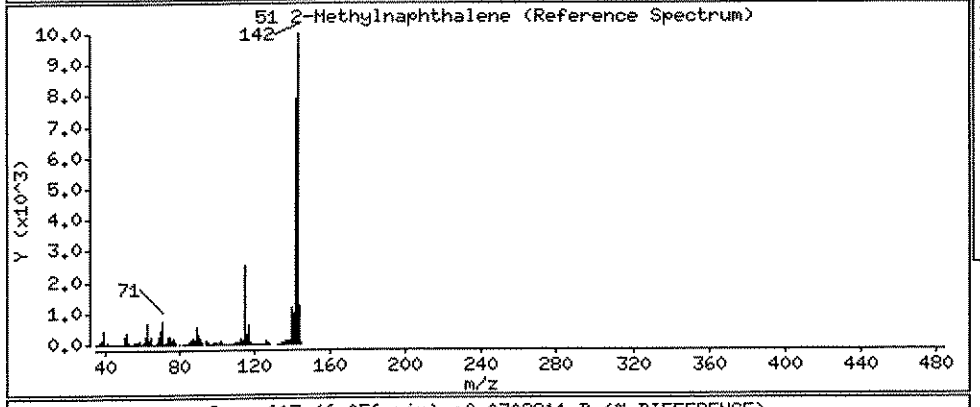
Volume Injected (uL): 0.5 Operator: SDB

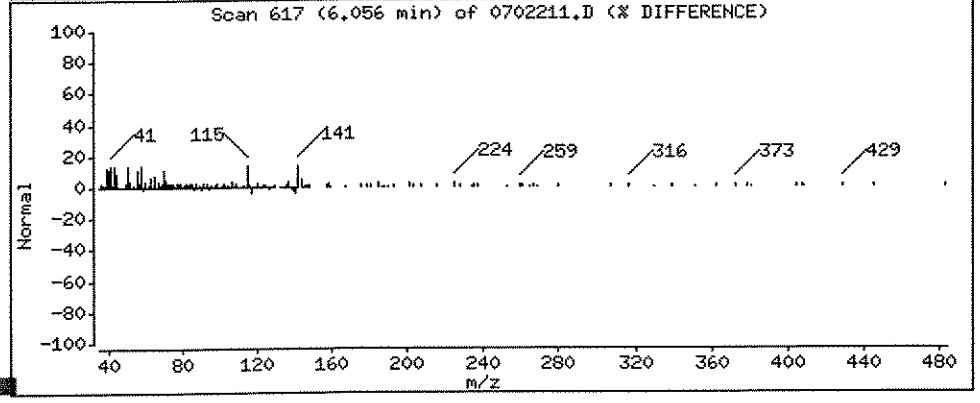
Column phase: fused silica Column diameter: 0.25

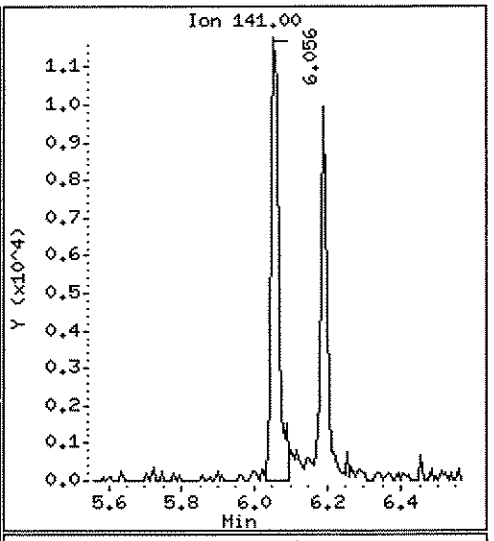
51 2-Methylnaphthalene Concentration: 20.39 UG/KG

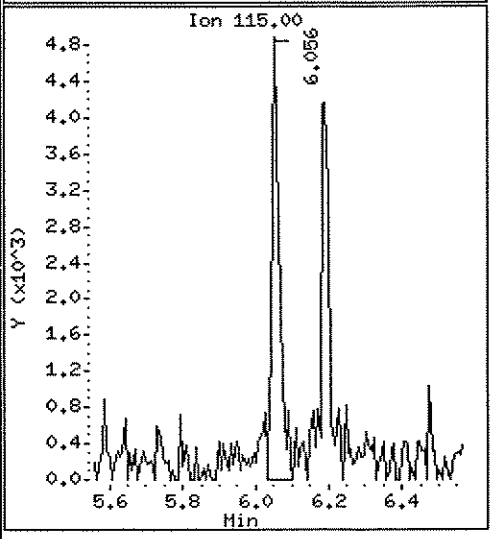












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Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

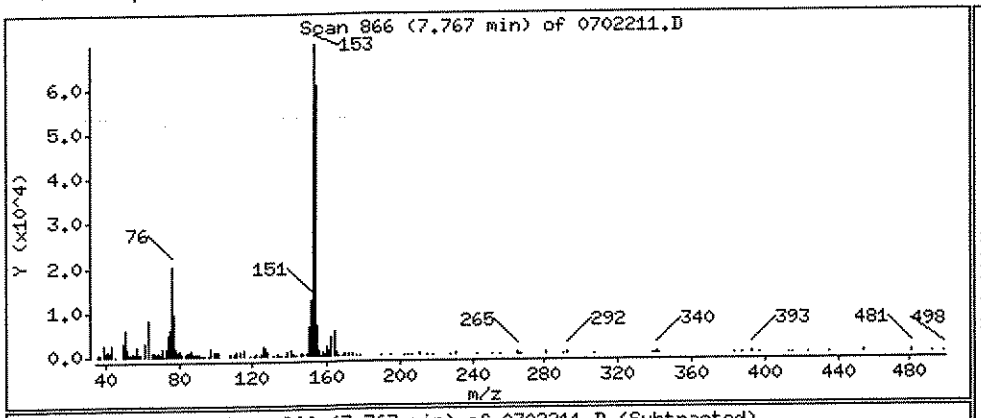
Operator: SDB

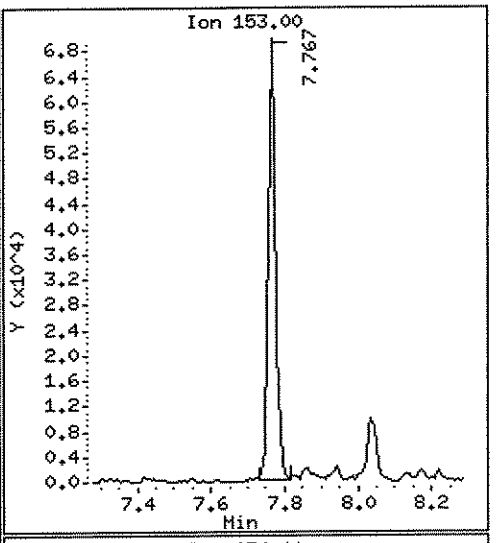
Column phase: fused silica

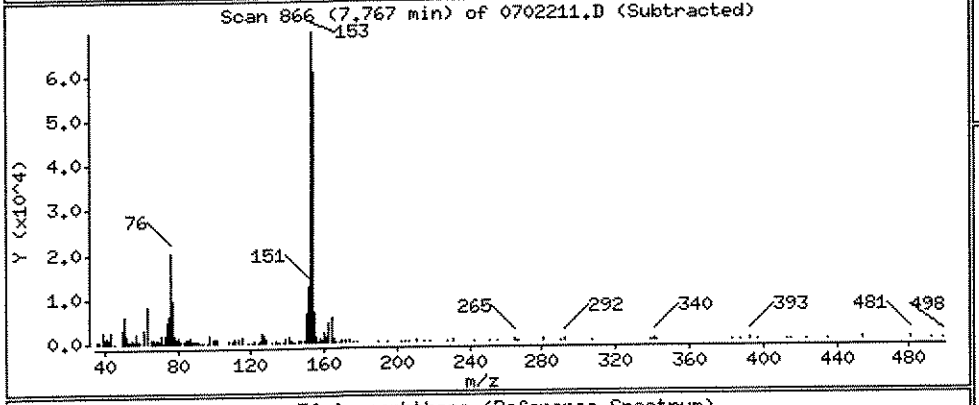
Column diameter: 0.25

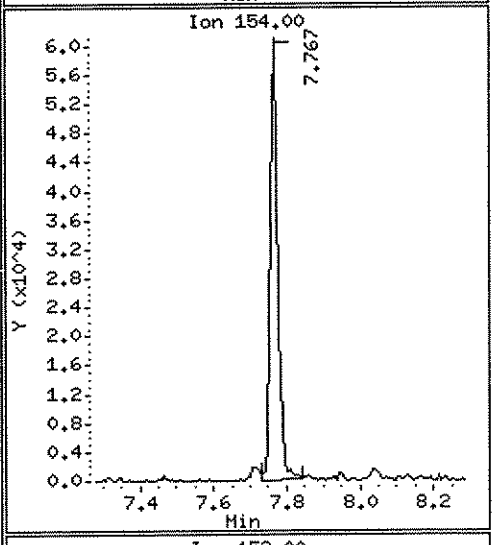
76 Acenaphthene

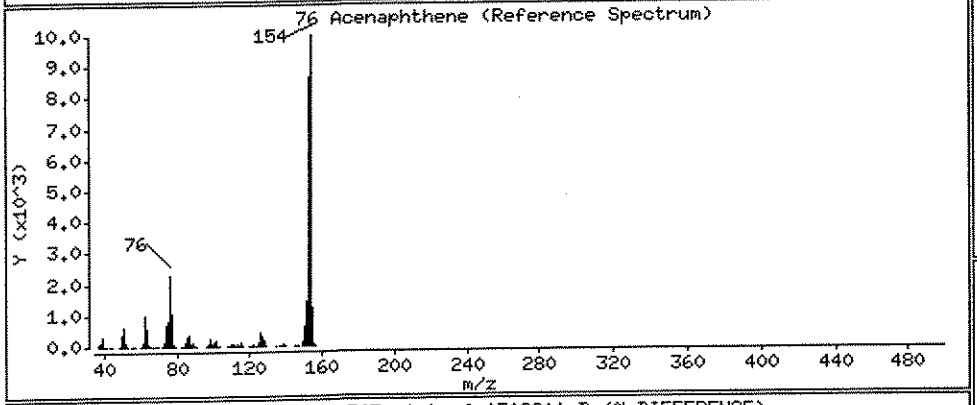
Concentration: 117.3 UG/KG

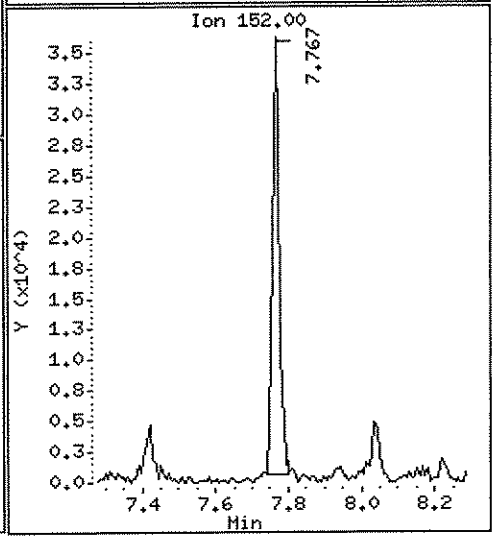


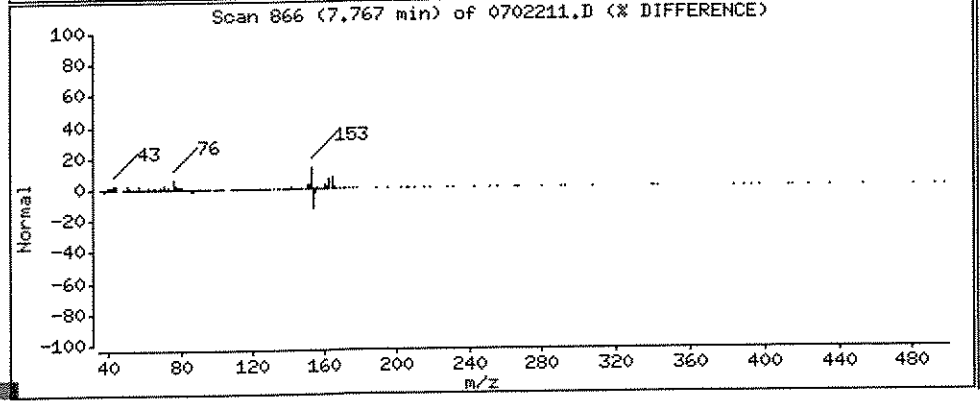












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

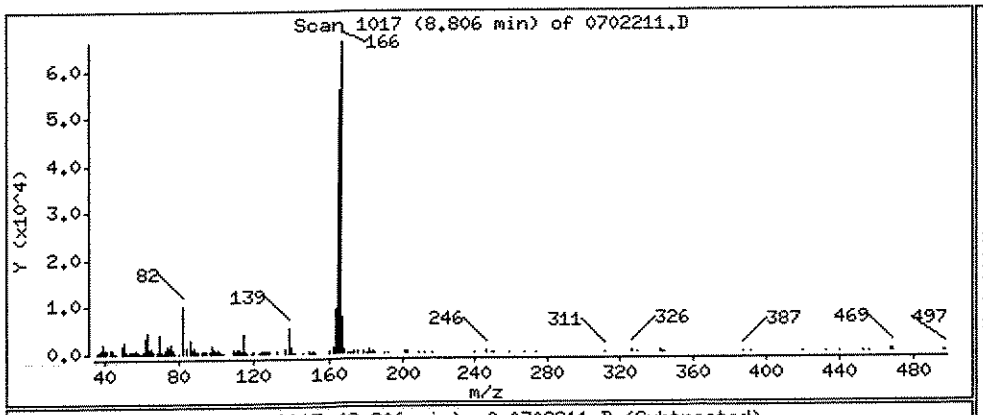
Client ID: 51DUP1S060706 Instrument: bna1.i

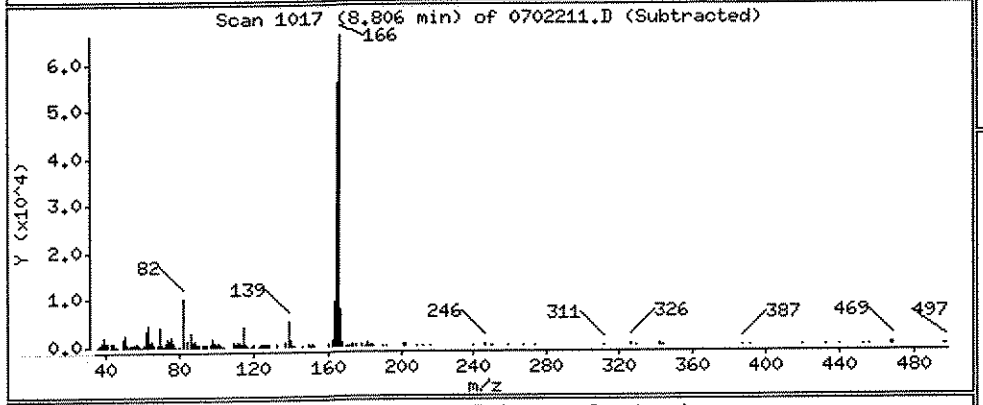
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

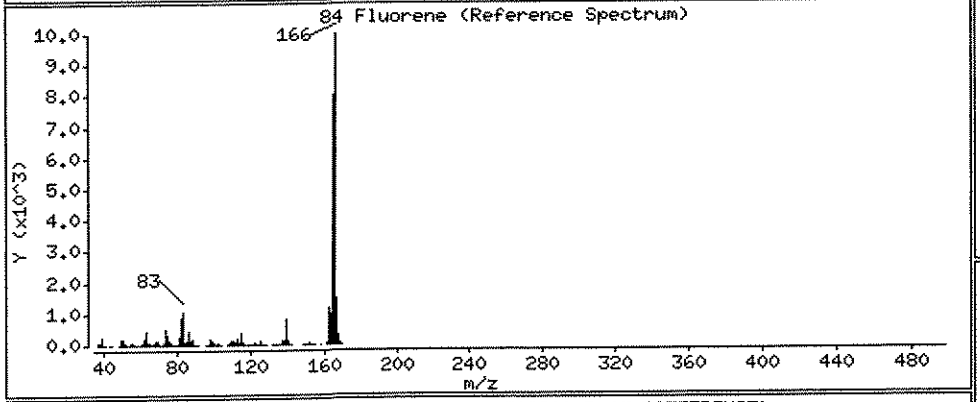
Volume Injected (uL): 0.5 Operator: SDB

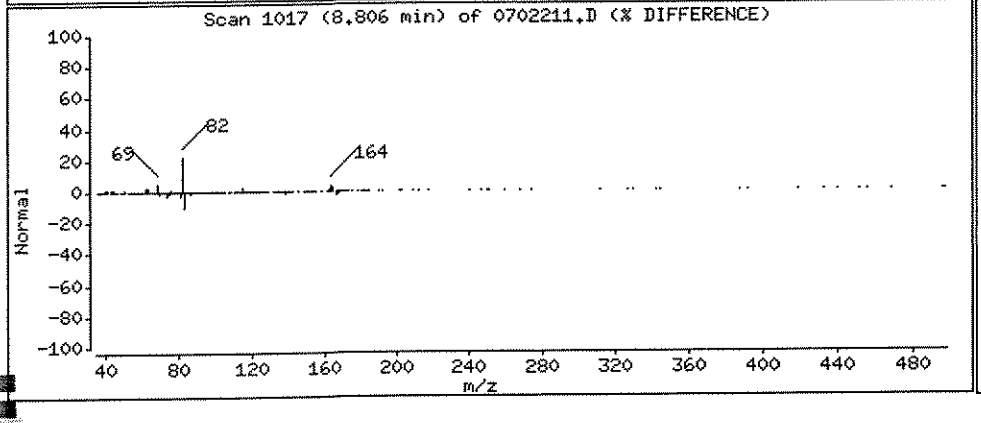
Column phase: fused silica Column diameter: 0.25

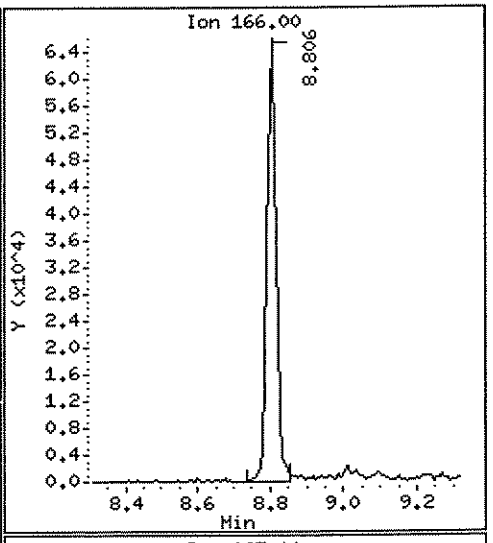
84 Fluorene Concentration: 126.5 UG/KG

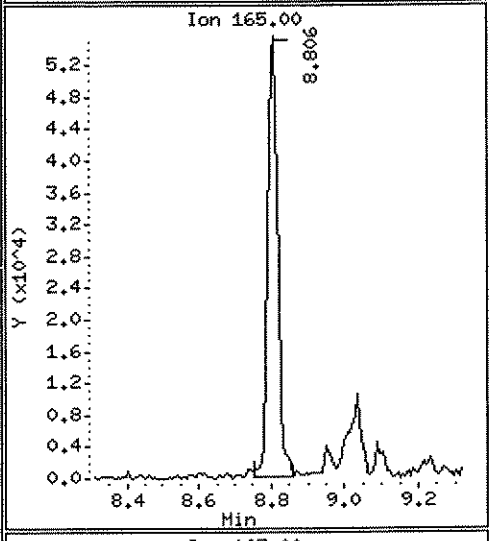


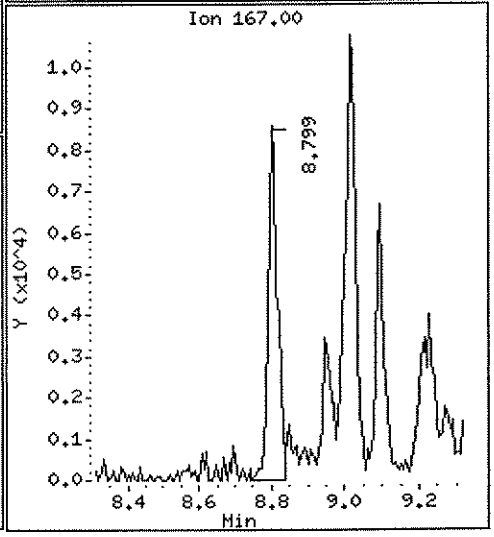












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Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

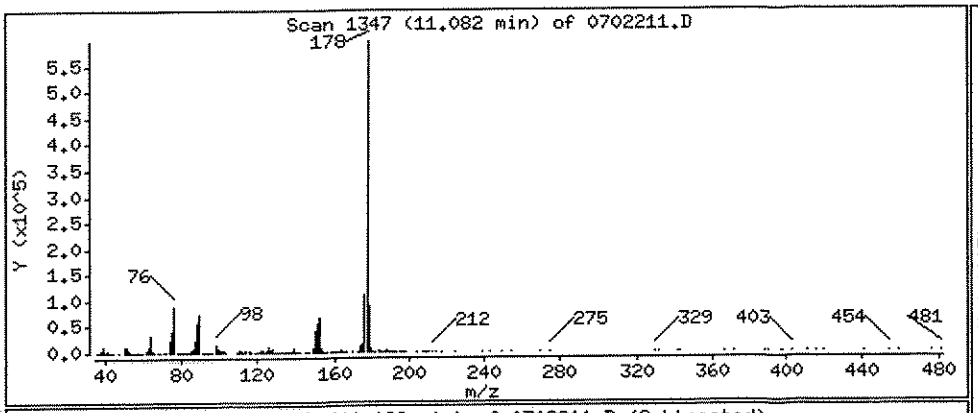
Operator: SDB

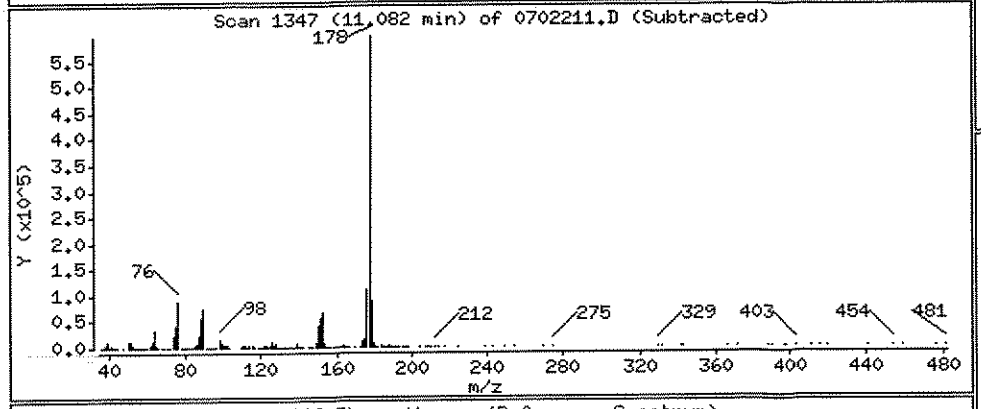
Column phase: fused silica

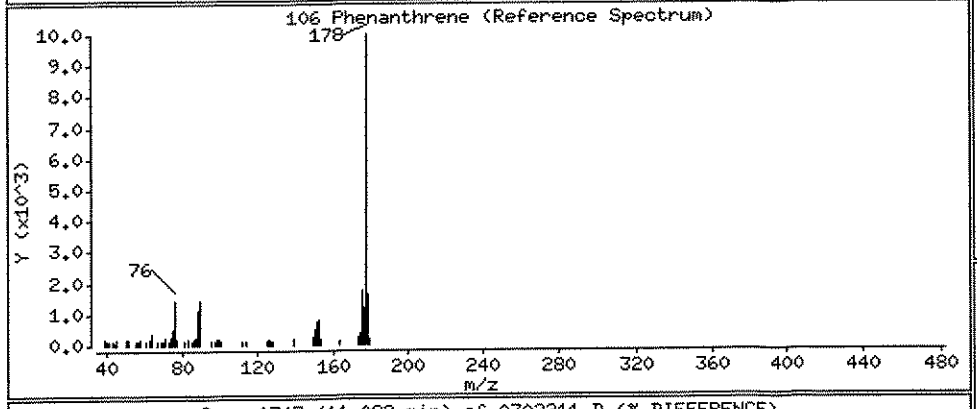
Column diameter: 0.25

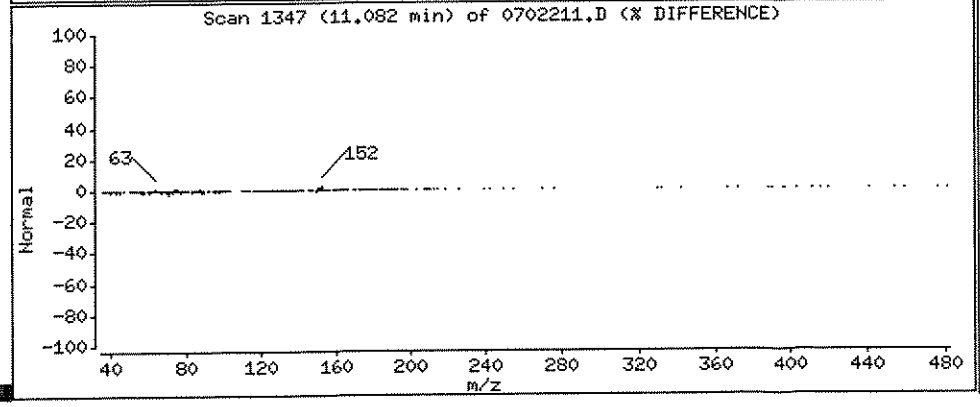
106 Phenanthrene

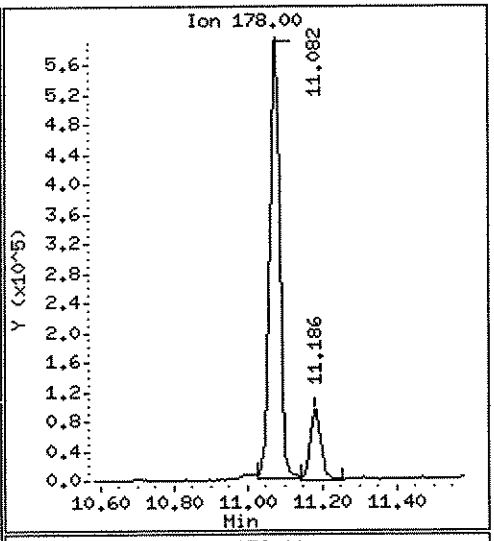
Concentration: 1140 UG/KG

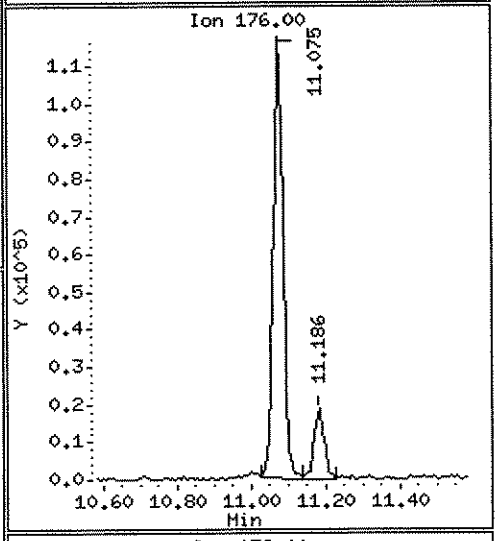


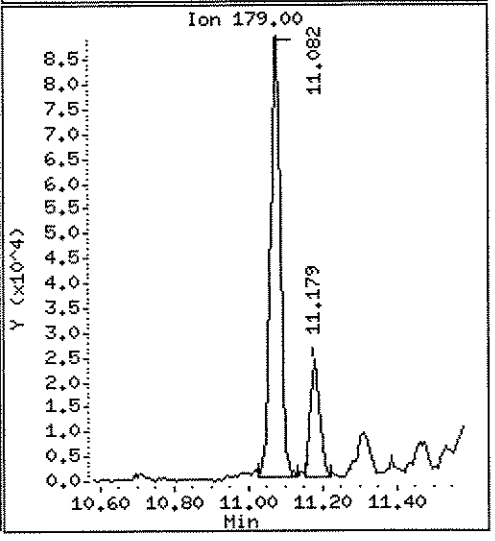












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Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

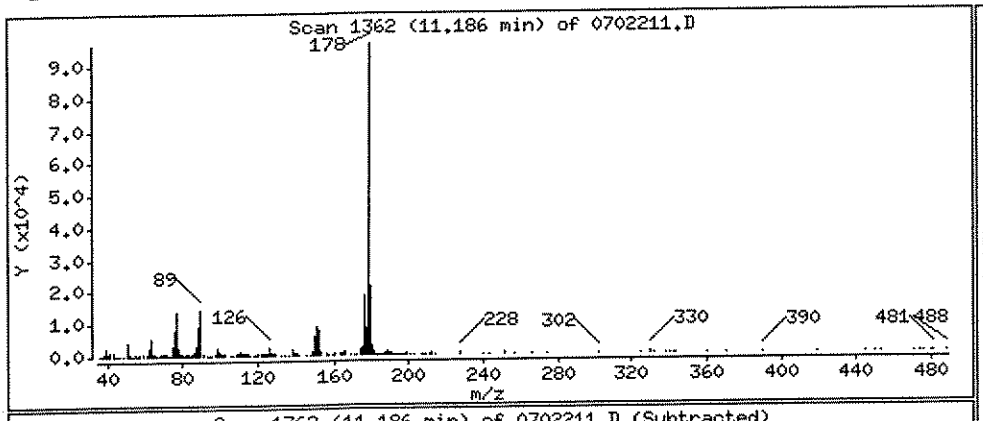
Operator: SDB

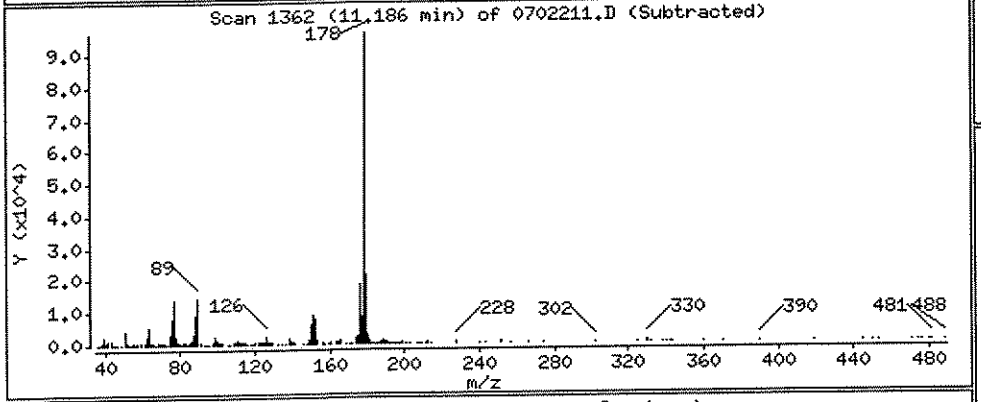
Column phase: fused silica

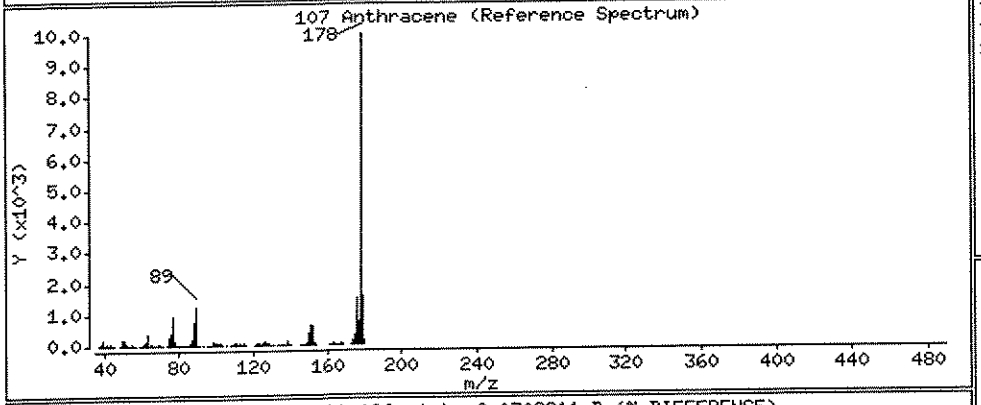
Column diameter: 0.25

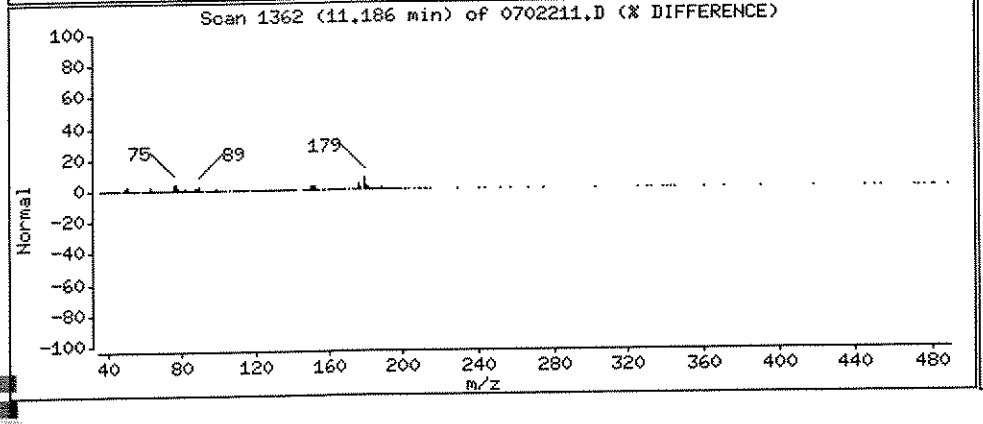
107 Anthracene

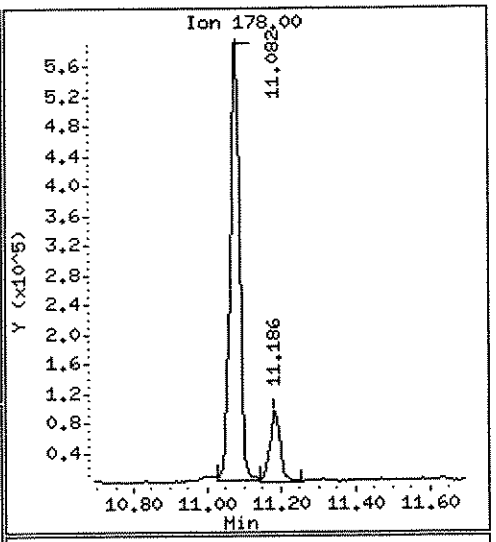
Concentration: 198.0 UG/KG

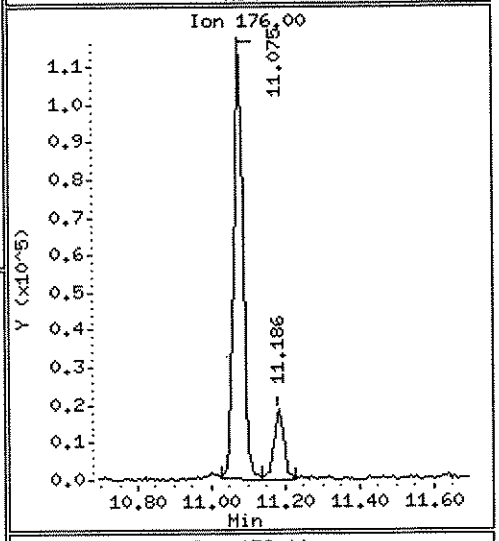


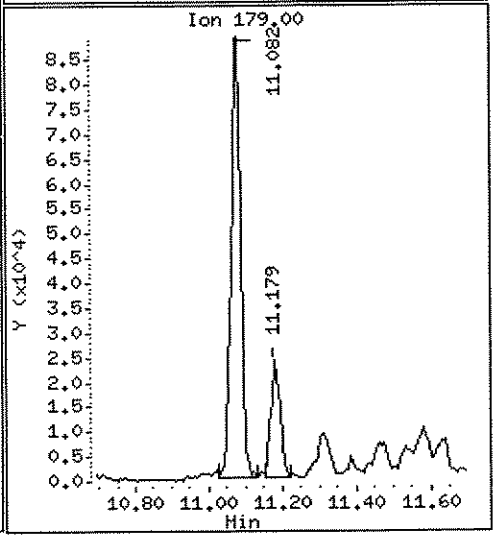












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

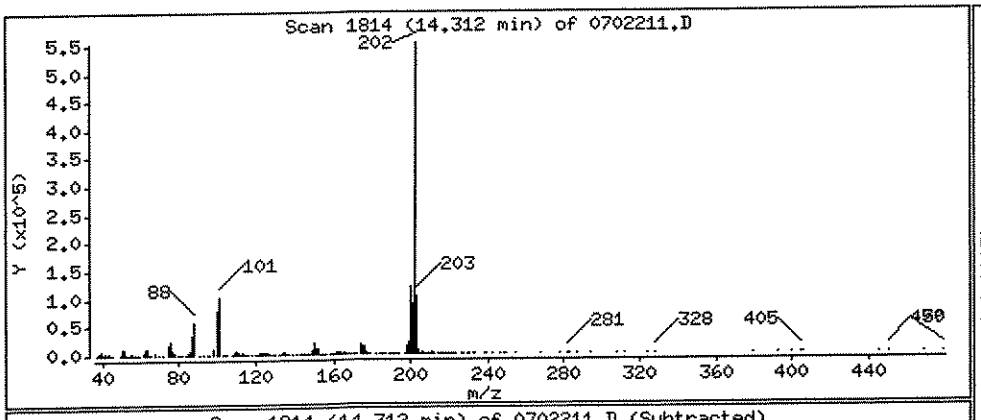
Operator: SDB

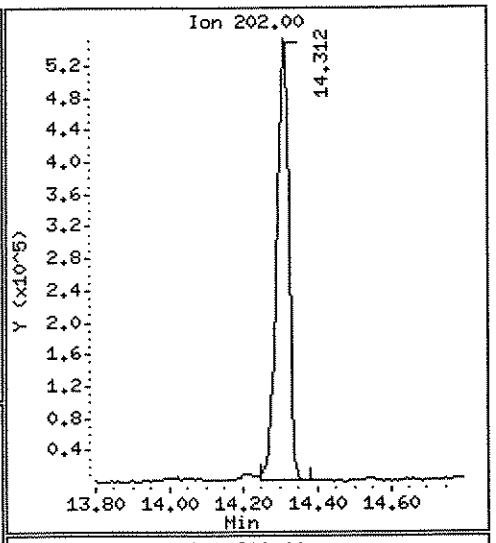
Column phase: fused silica

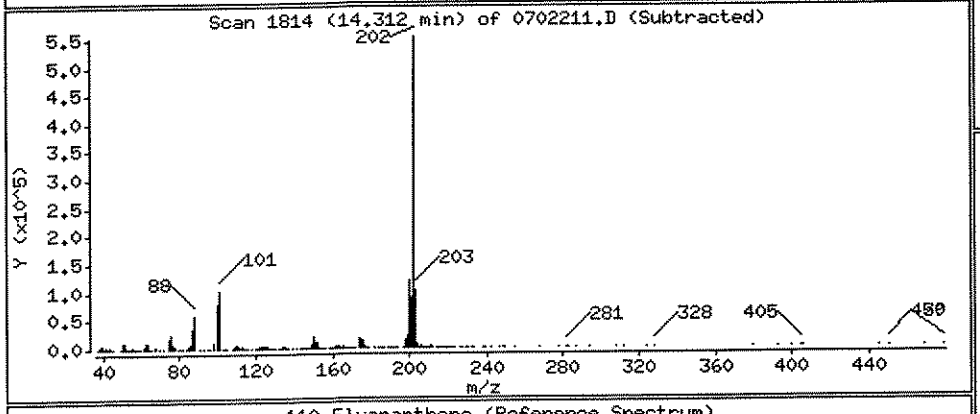
Column diameter: 0.25

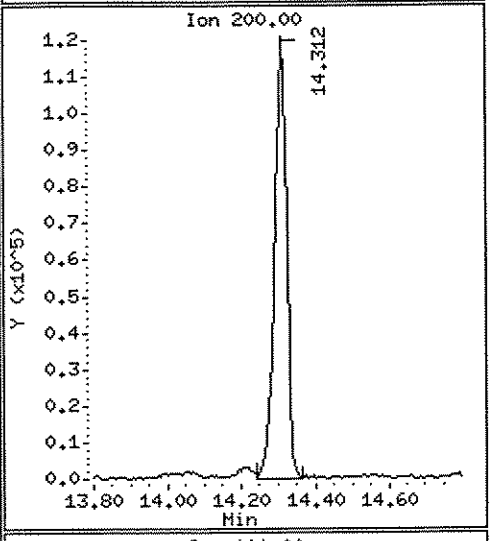
110 Fluoranthene

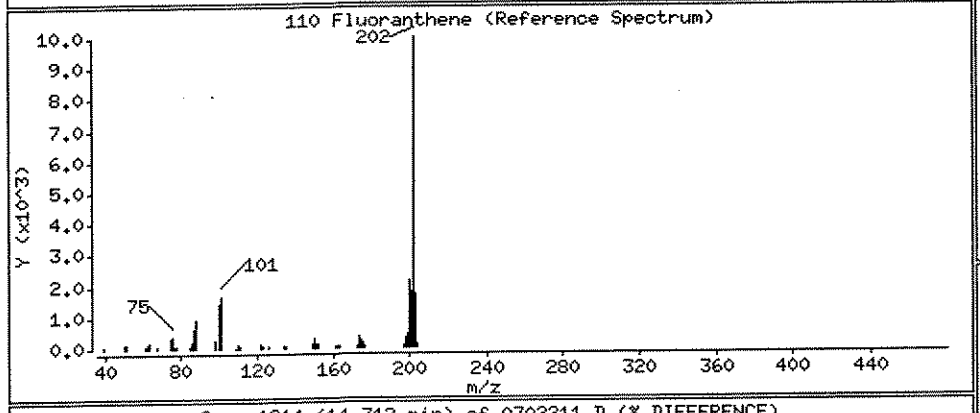
Concentration: 1299 UG/KG

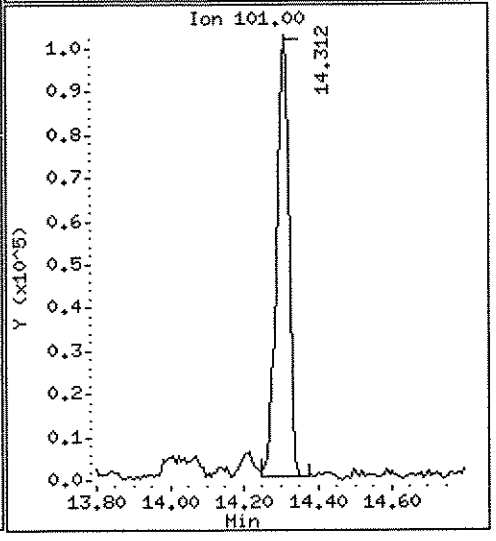


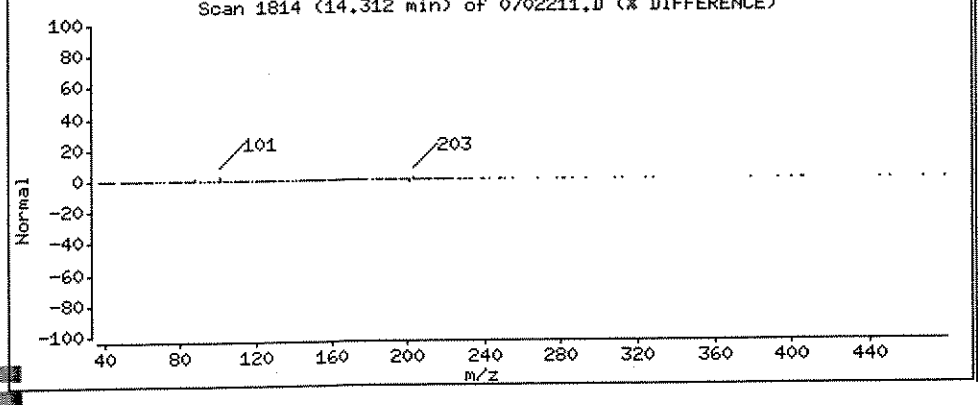












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

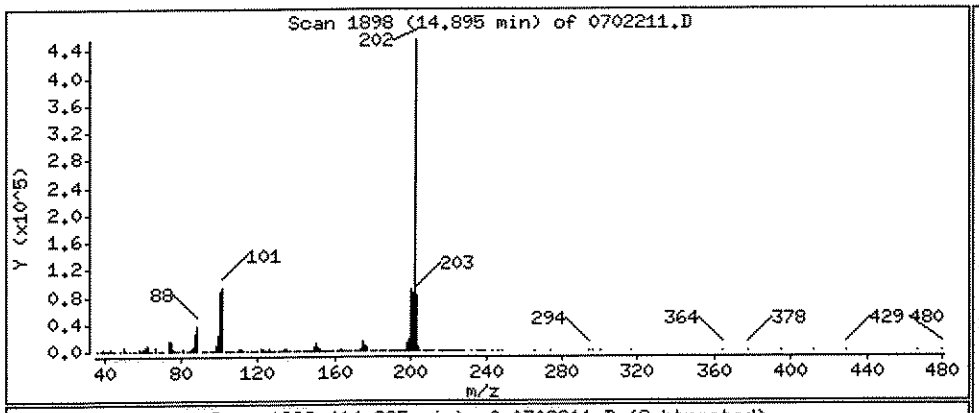
Client ID: 51DUP1S060706 Instrument: bna1.i

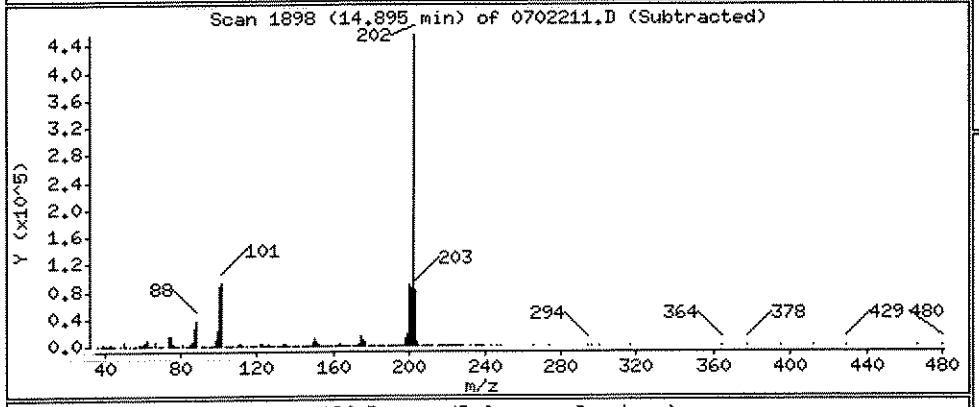
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

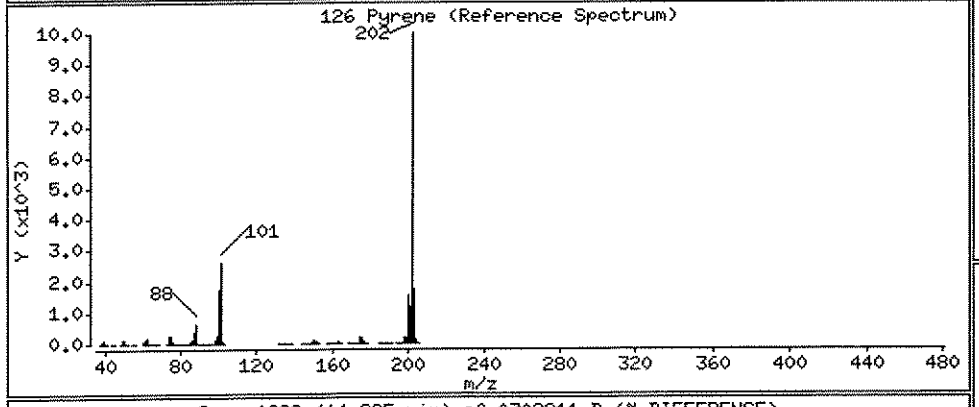
Volume Injected (uL): 0.5 Operator: SDB

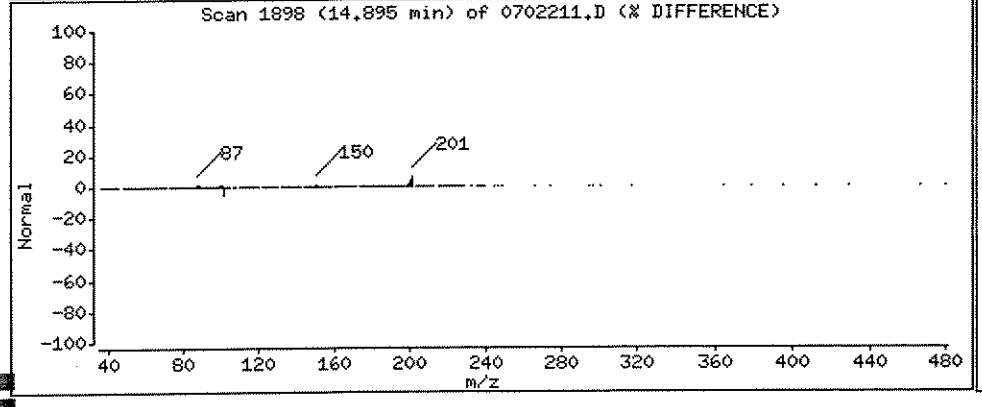
Column phase: fused silica Column diameter: 0.25

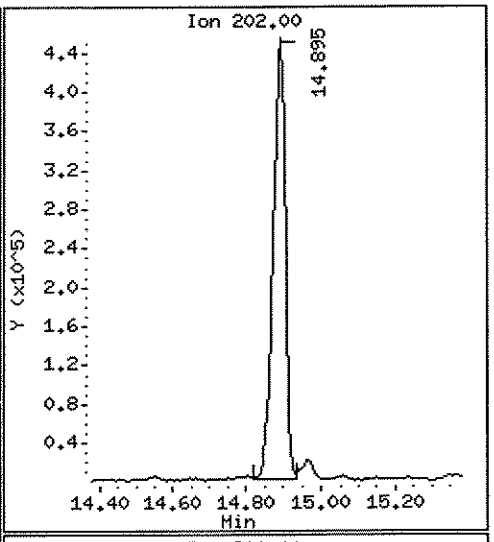
126 Pyrene Concentration: 2464 UG/KG

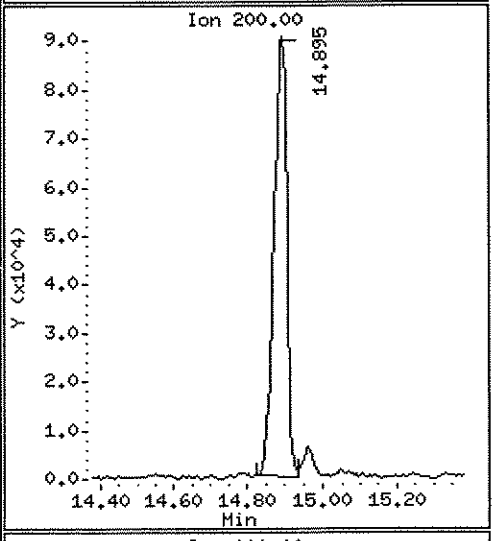


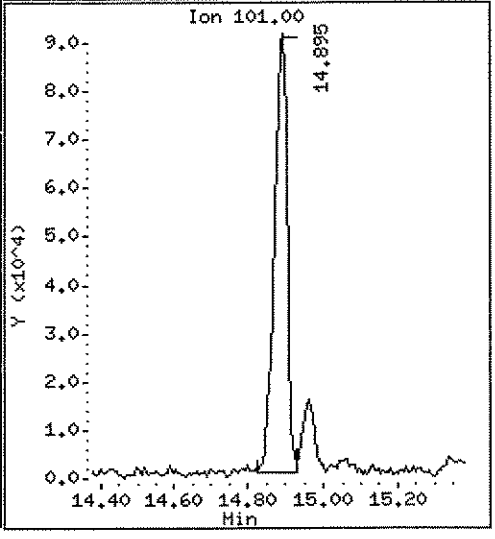












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000307

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

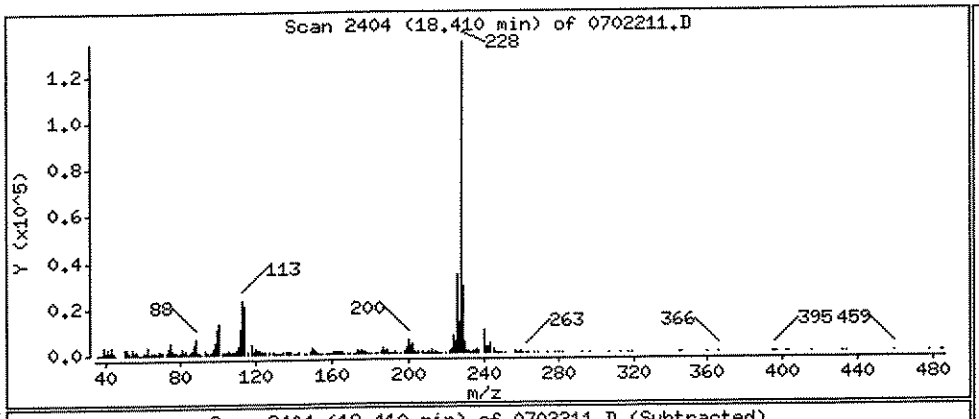
Operator: SDB

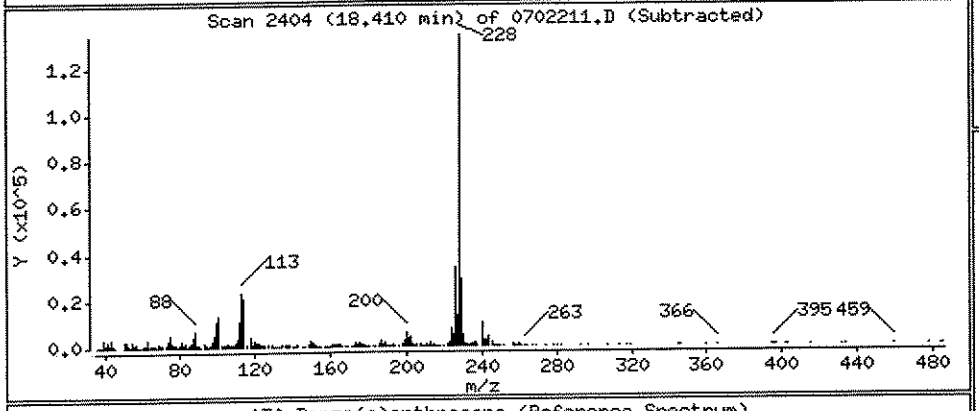
Column phase: fused silica

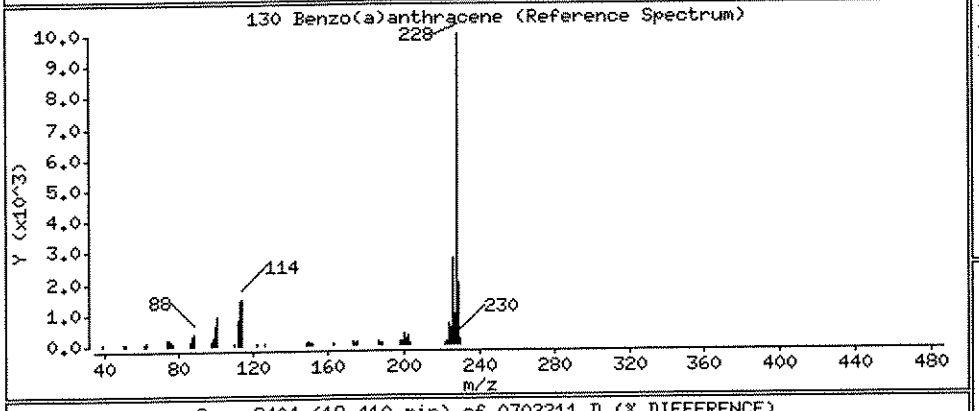
Column diameter: 0.25

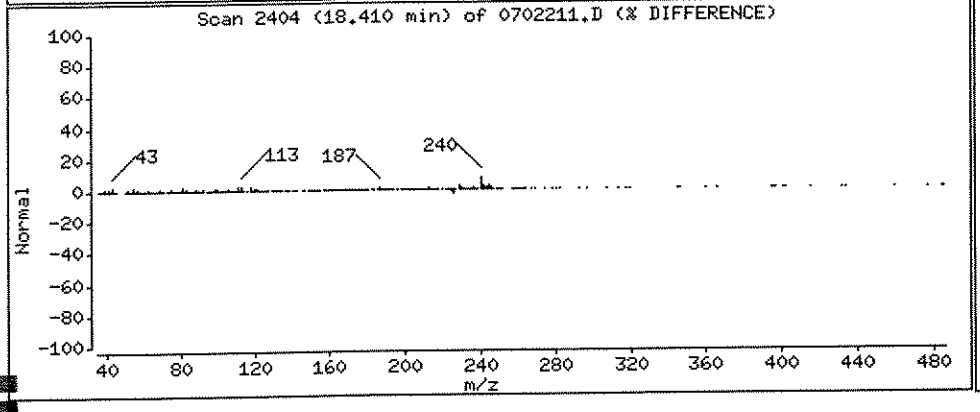
130 Benzo(a)anthracene

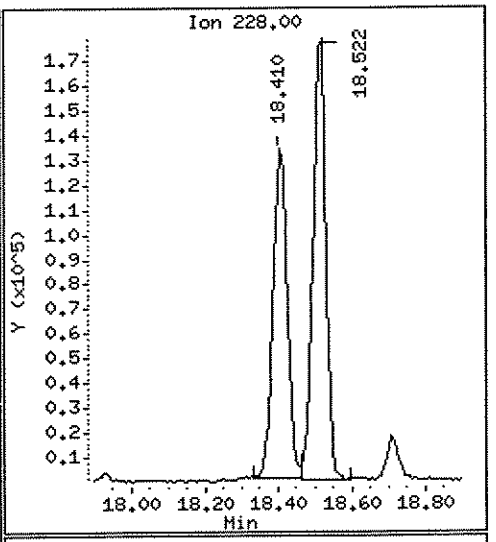
Concentration: 1047 UG/KG

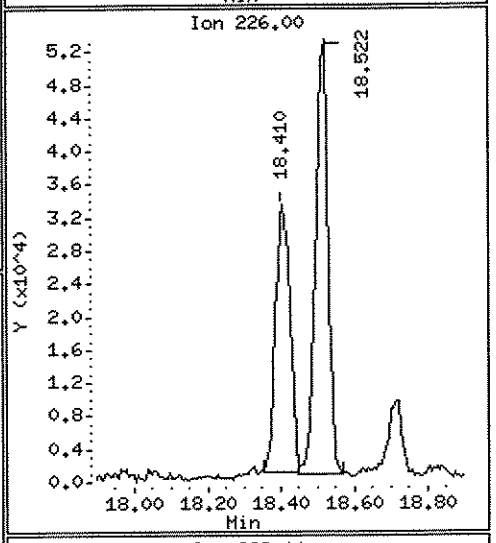


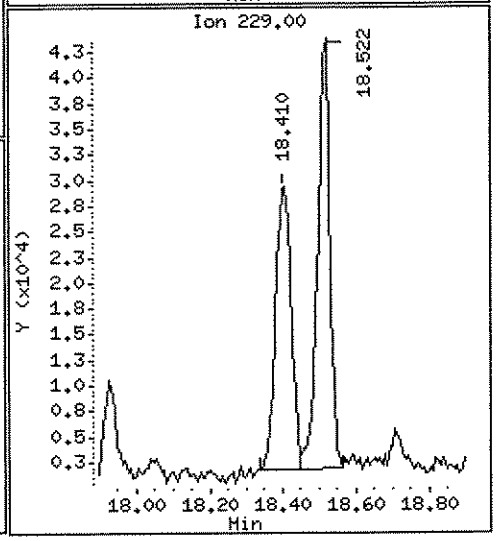












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

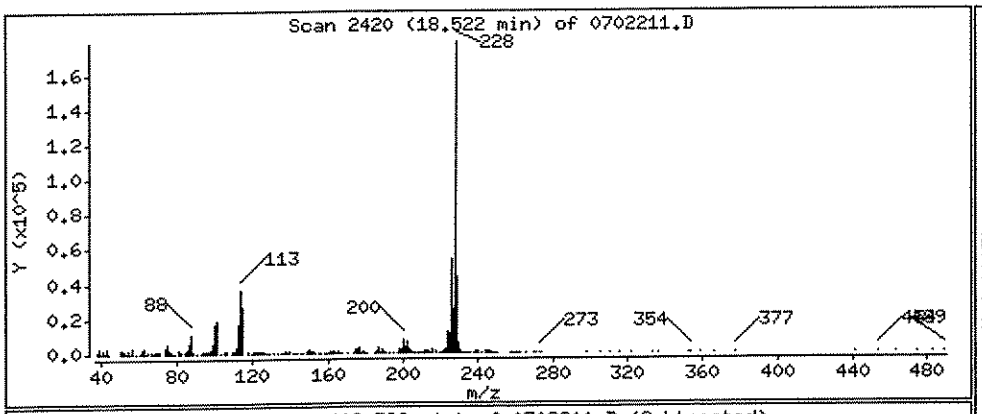
Client ID: 51DUP1S060706 Instrument: bna1.i

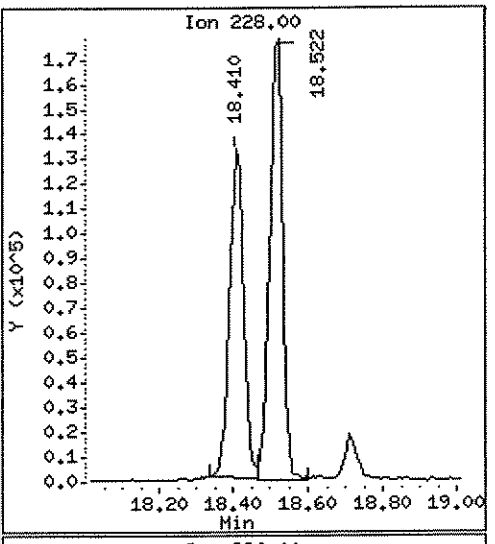
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

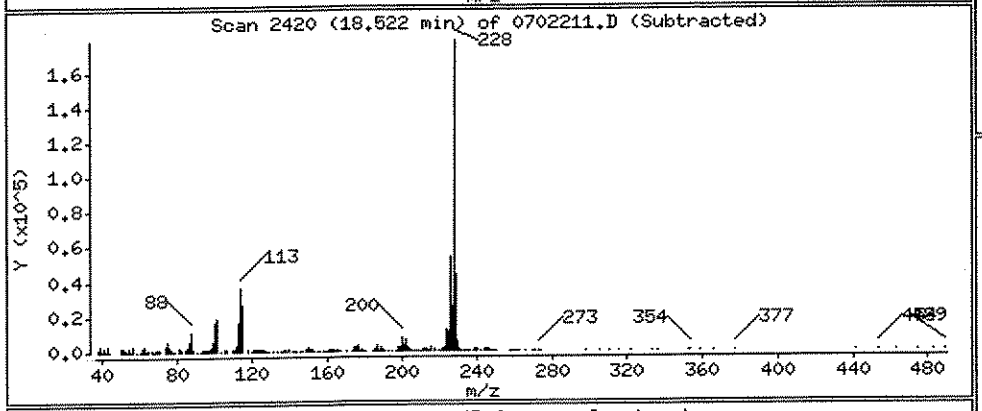
Volume Injected (uL): 0.5 Operator: SDB

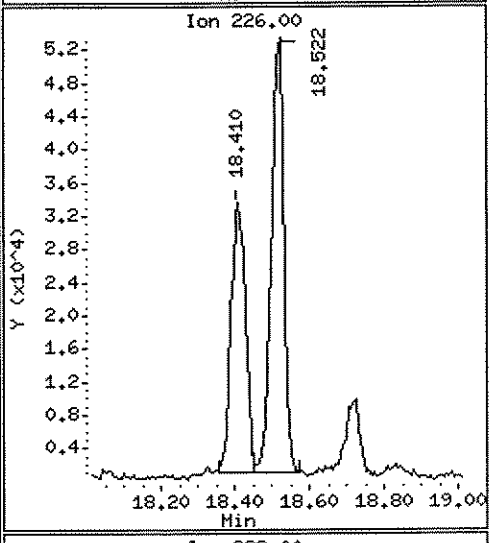
Column phase: fused silica Column diameter: 0.25

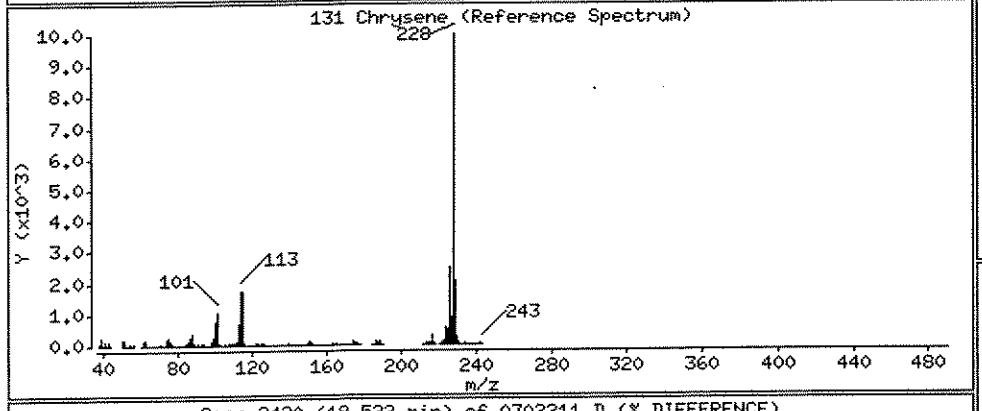
131 Chrysene Concentration: 1371 UG/KG

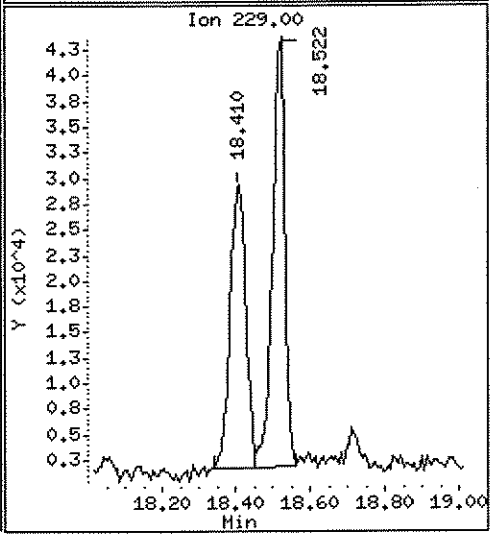


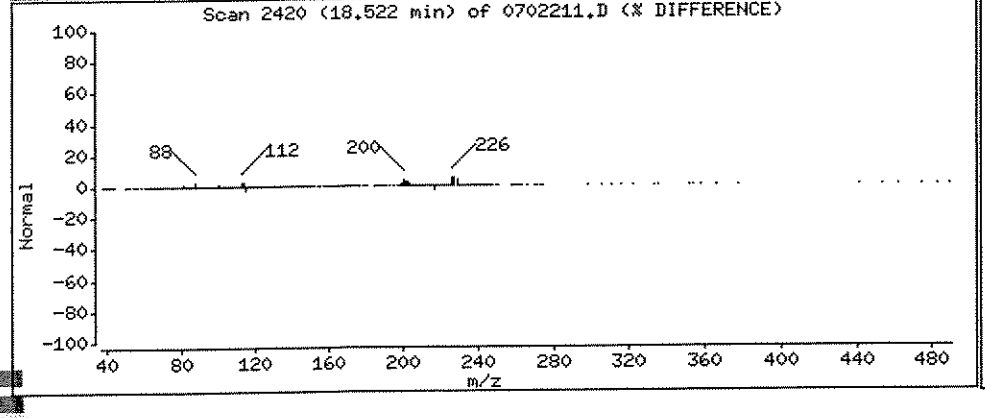












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

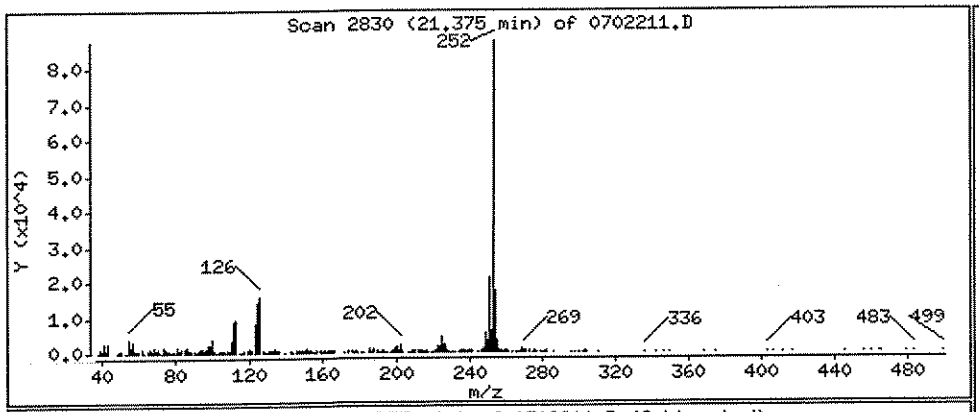
Client ID: 51DUP1S060706 Instrument: bna1.i

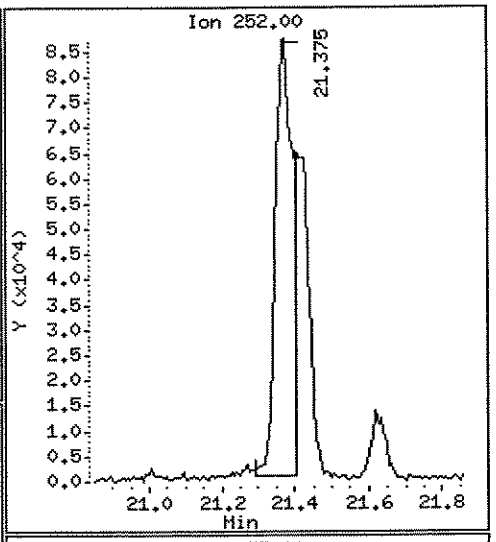
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

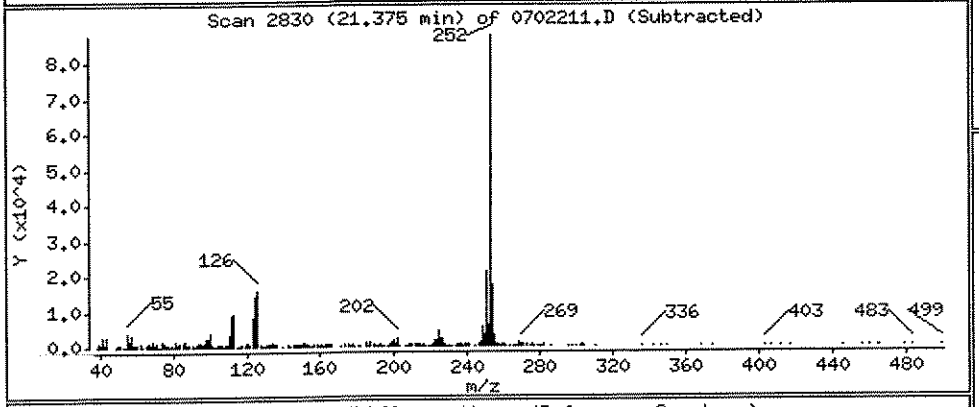
Volume Injected (uL): 0.5 Operator: SDB

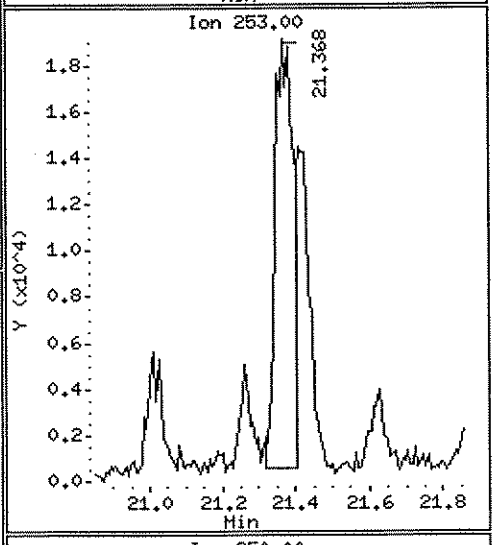
Column phase: fused silica Column diameter: 0.25

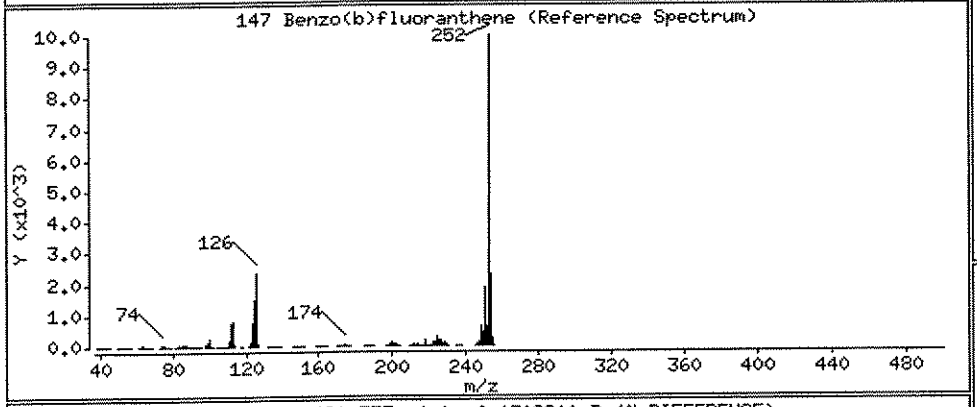
147 Benzo(b)fluoranthene Concentration: 1544 UG/KG

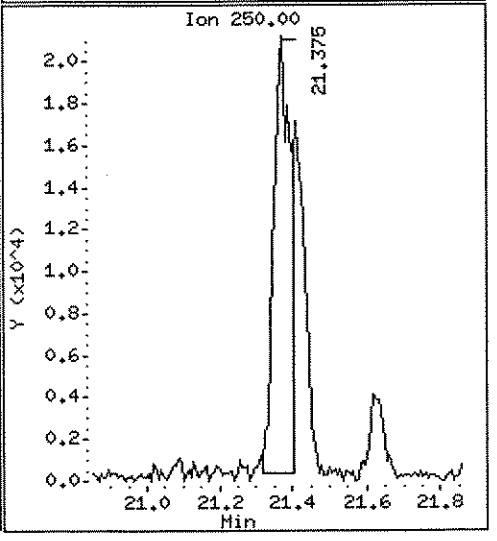


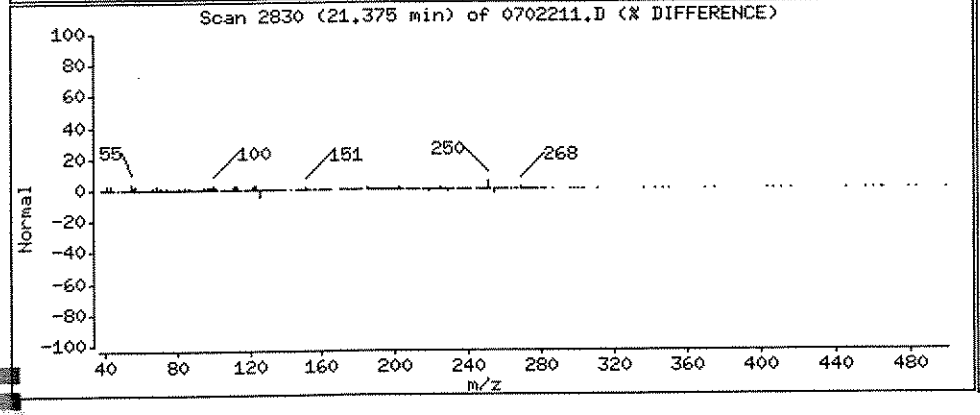












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

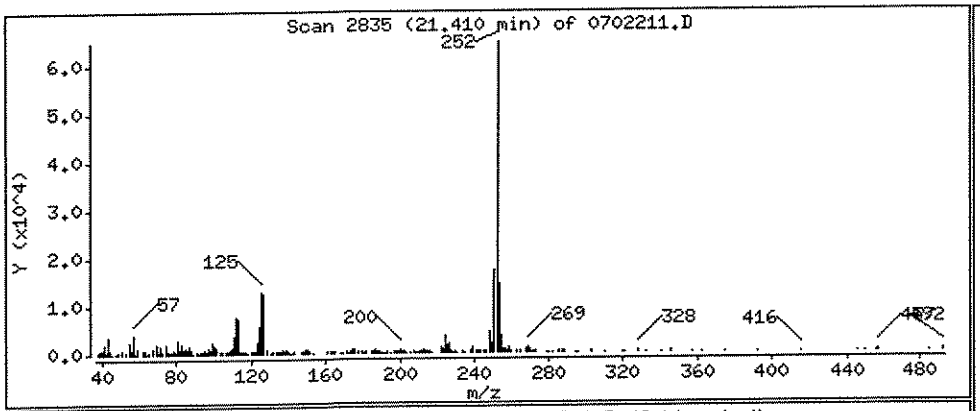
Operator: SDB

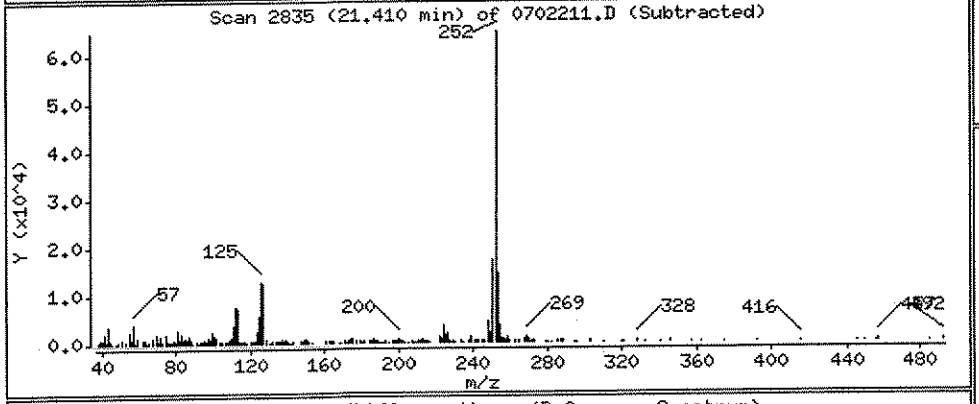
Column phase: fused silica

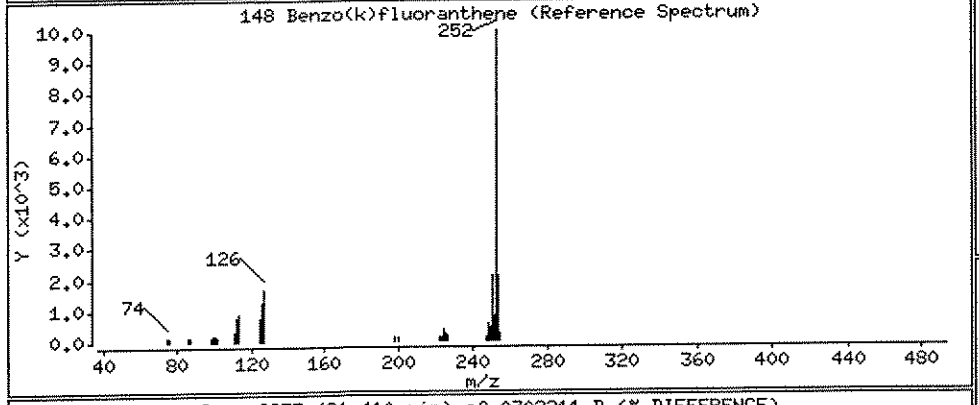
Column diameter: 0.25

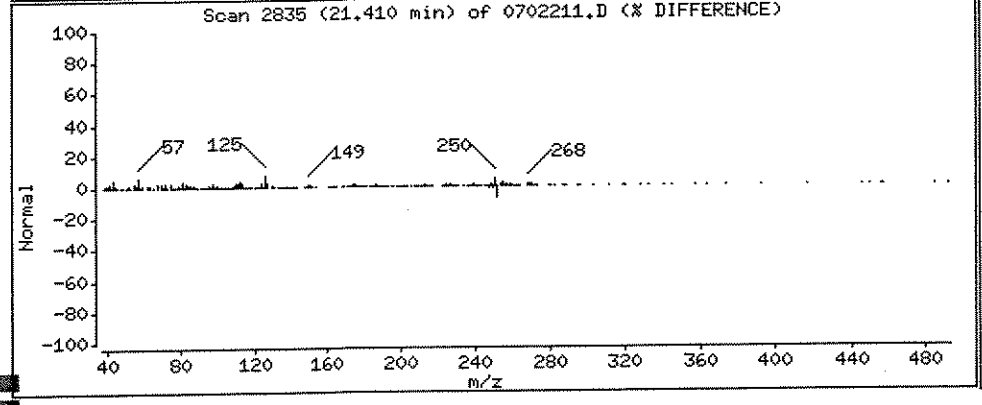
148 Benzo(k)fluoranthene

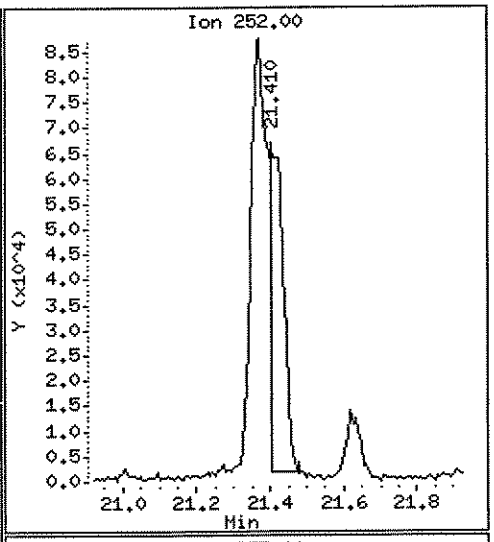
Concentration: 878.3 UG/KG

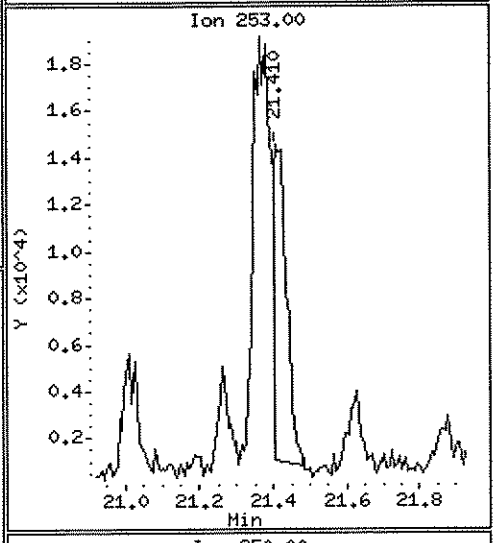


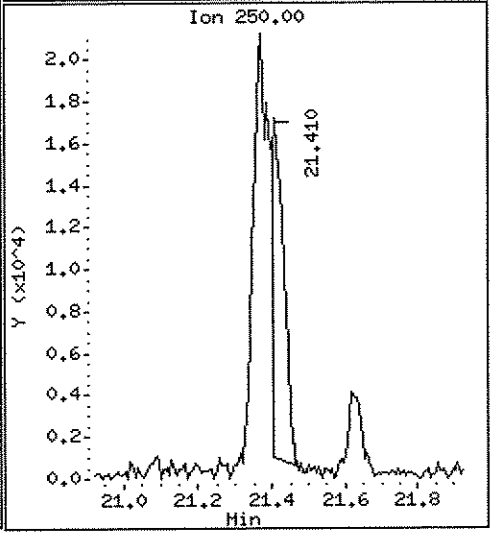












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

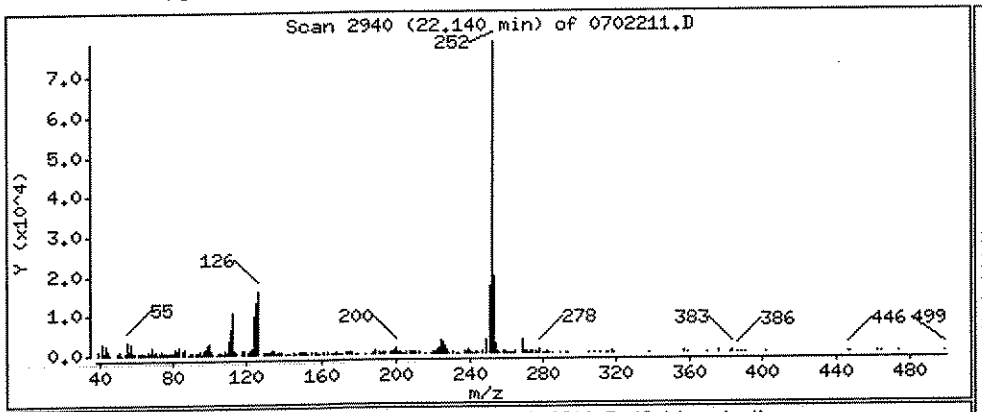
Operator: SDB

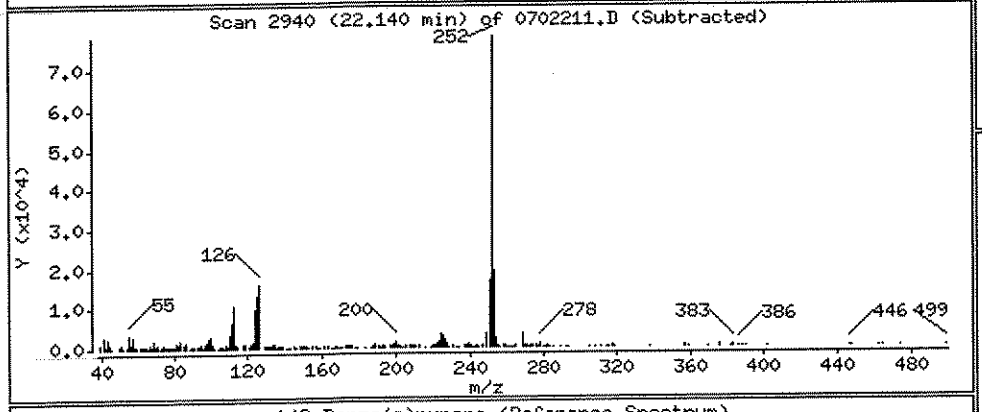
Column phase: fused silica

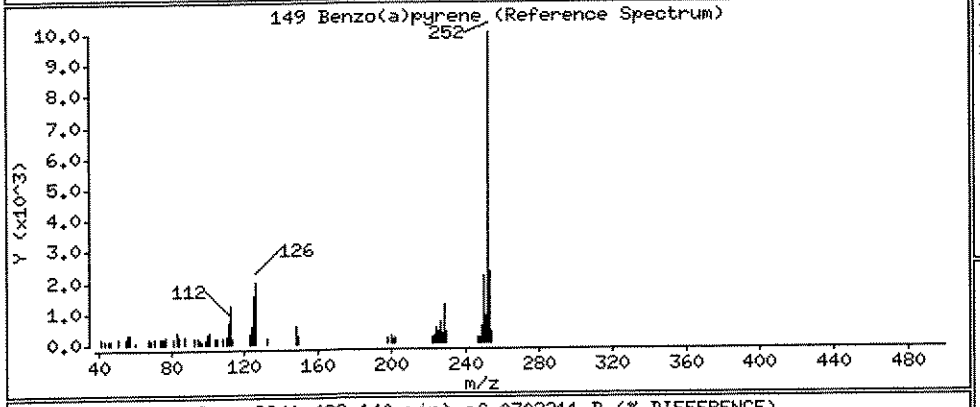
Column diameter: 0.25

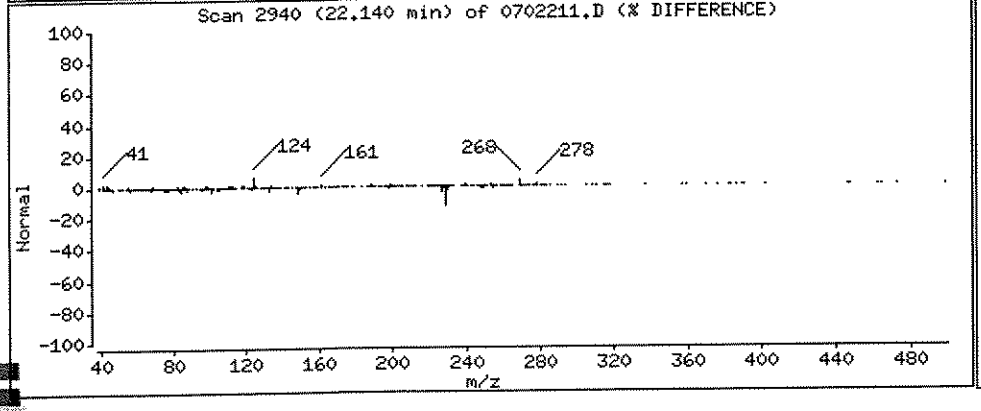
149 Benzo(a)pyrene

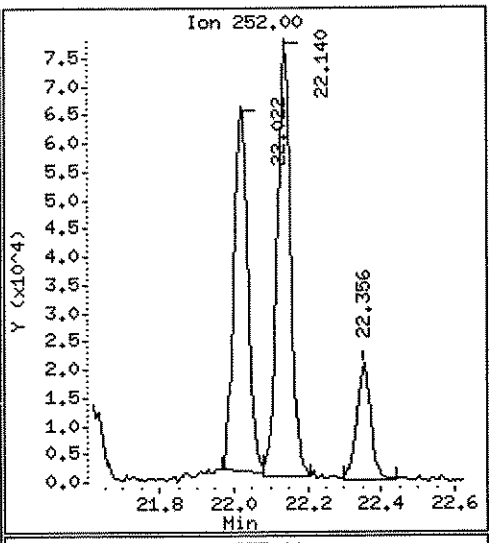
Concentration: 1249 UG/KG

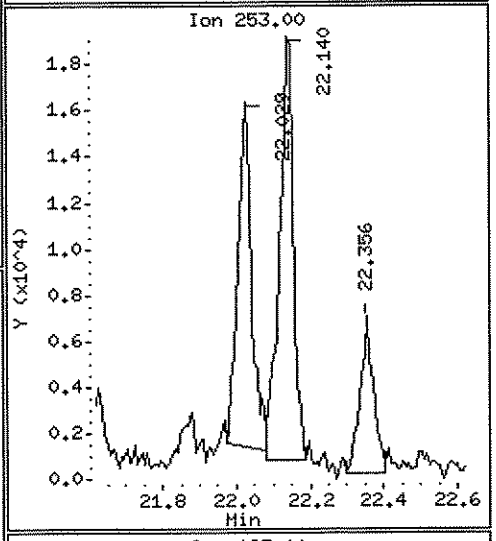


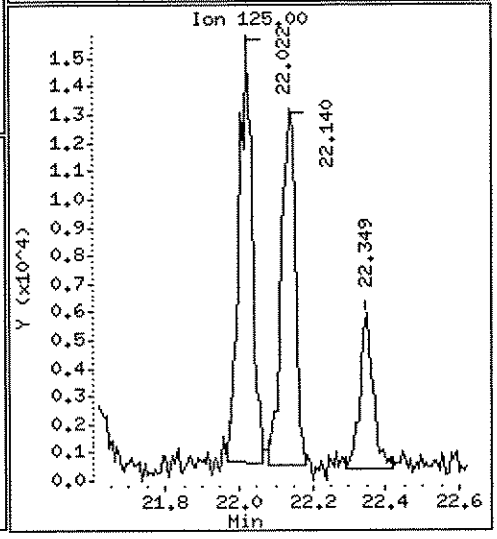












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

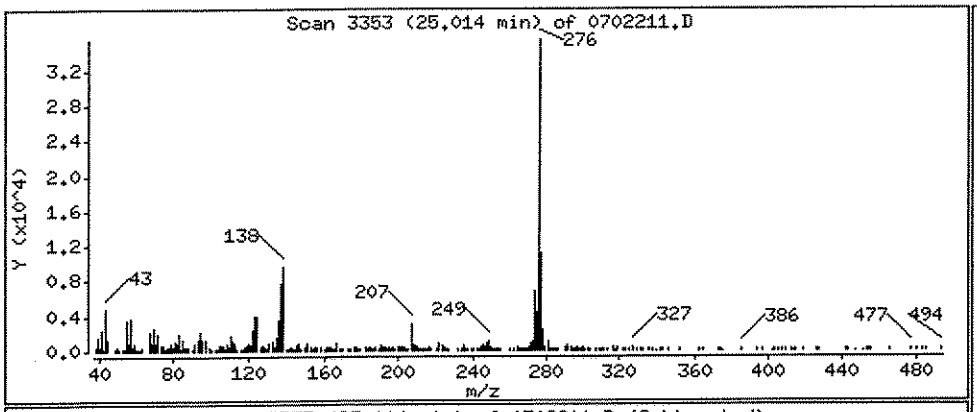
Client ID: 51DUP1S060706 Instrument: bna1.i

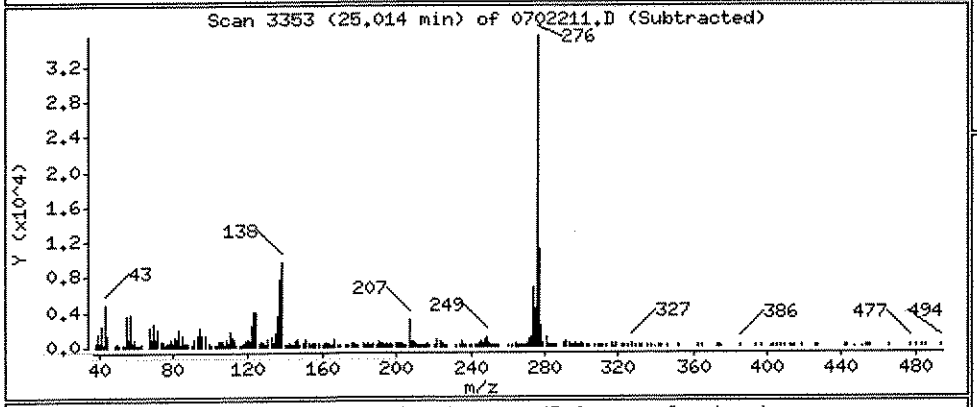
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

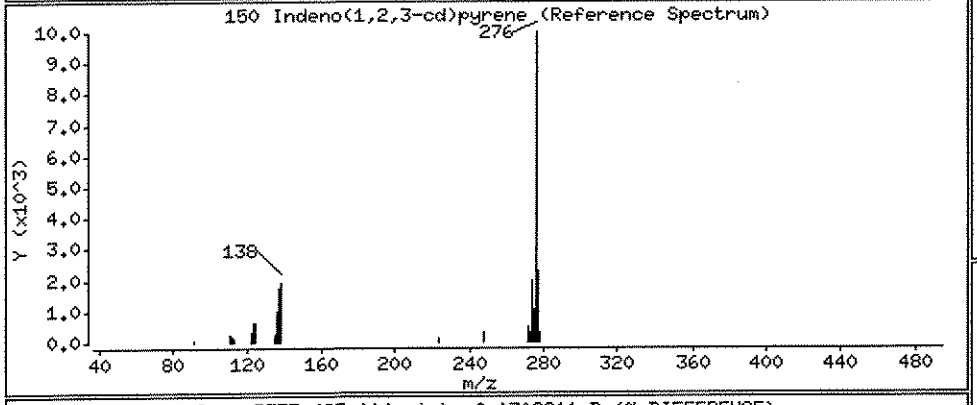
Volume Injected (uL): 0.5 Operator: SDB

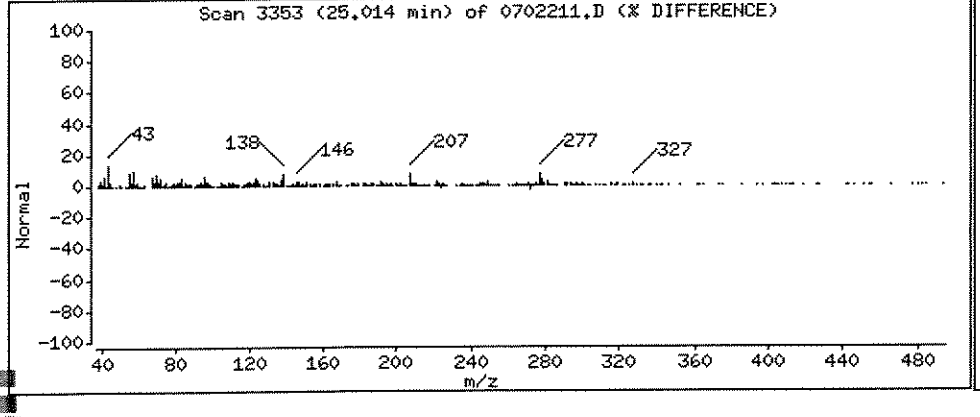
Column phase: fused silica Column diameter: 0.25

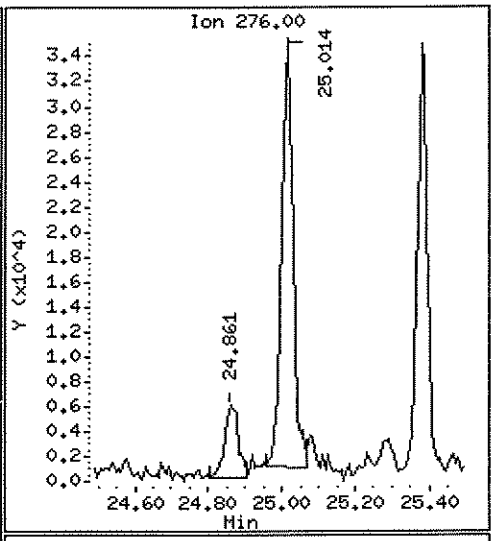
150 Indeno(1,2,3-cd)pyrene Concentration: 554.8 UG/KG

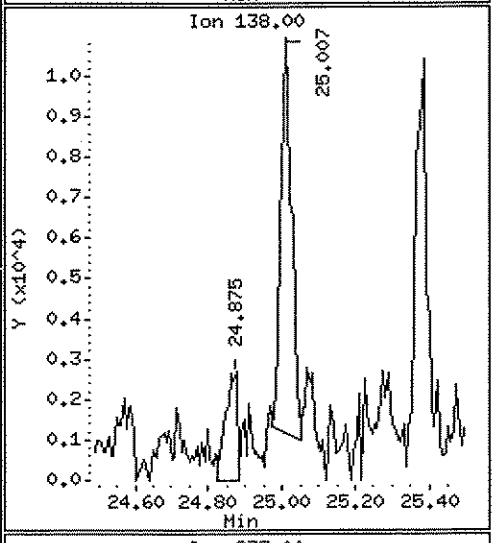


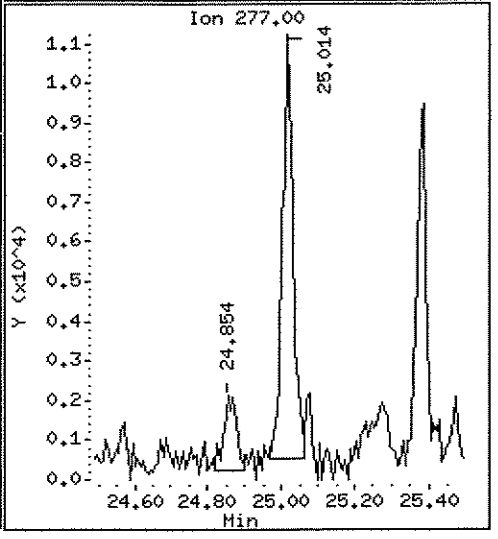












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Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702211.D

Date : 10-JUL-2006 19:49

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

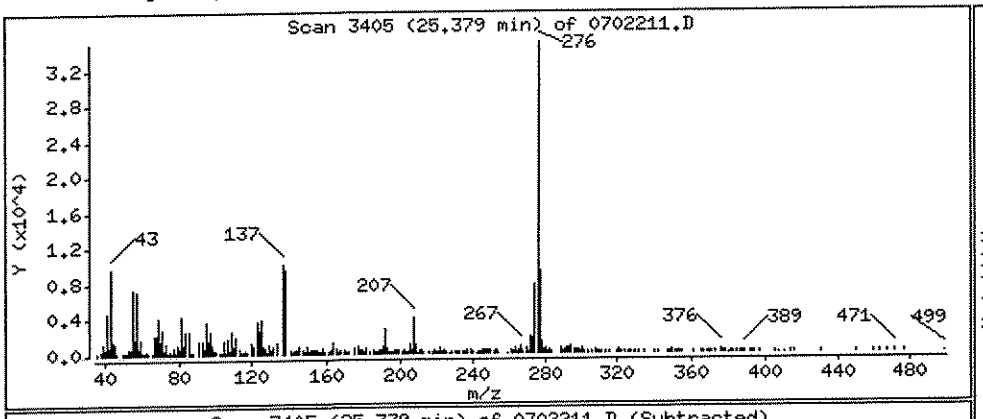
Operator: SDB

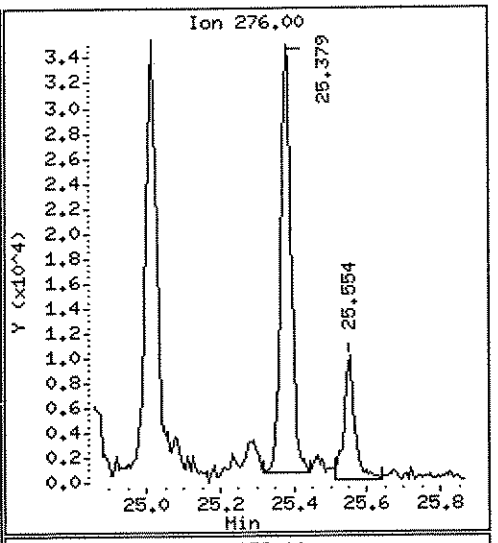
Column phase: fused silica

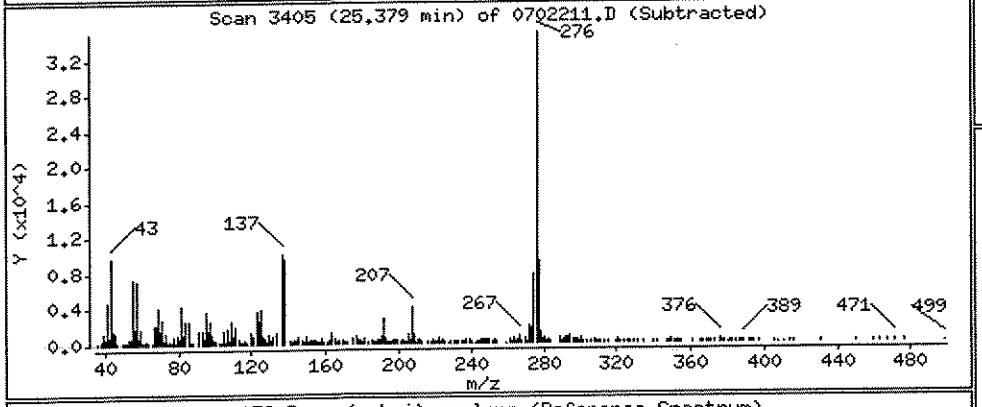
Column diameter: 0.25

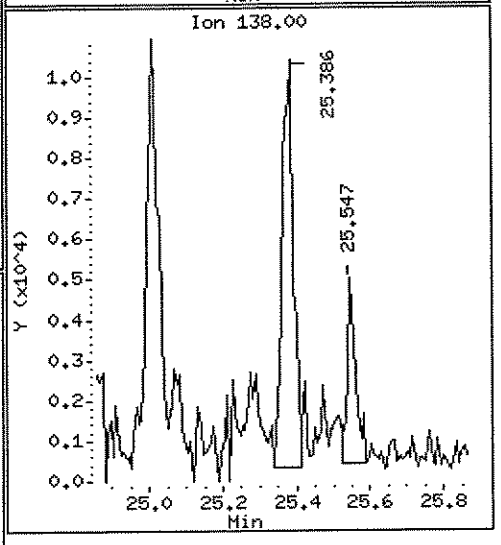
152 Benzo(g,h,i)perylene

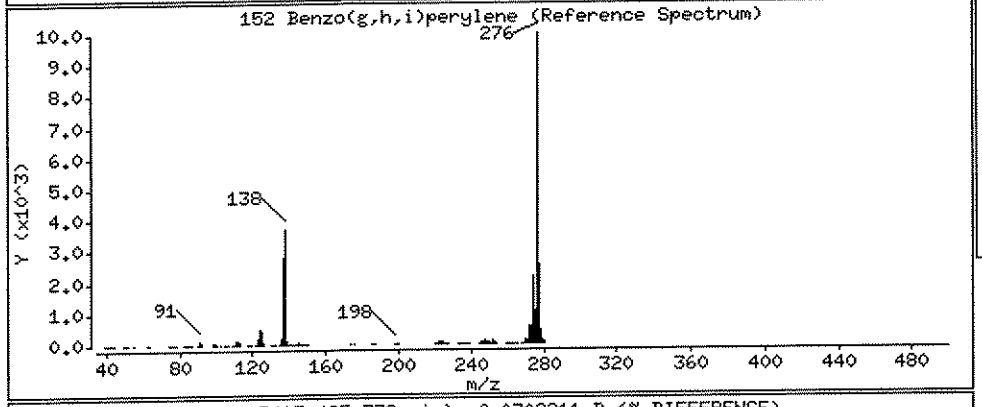
Concentration: 480.6 UG/KG

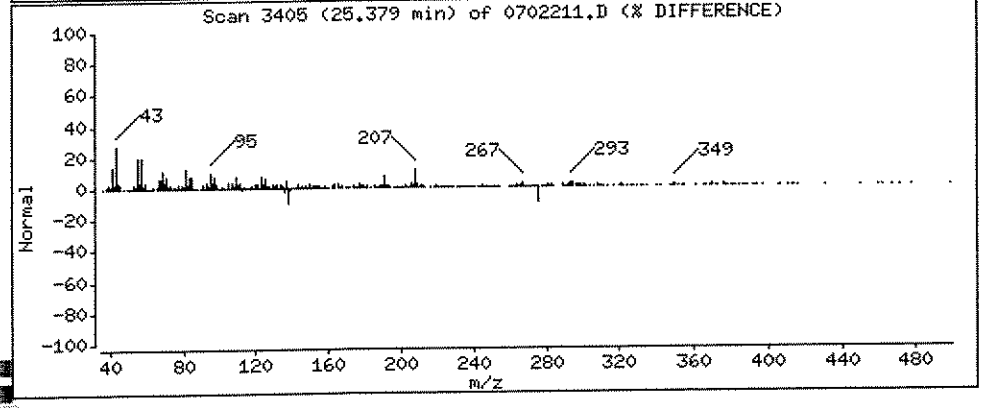












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706D

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0702211D

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 16:51

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	100	830	170	JD
208-96-8	Acenaphthylene	100	830		UD
120-12-7	Anthracene	100	830	280	JD
56-55-3	Benzo(a)anthracene	100	830	1400	D
205-99-2	Benzo(b)fluoranthene	100	830	2000	D
207-08-9	Benzo(k)fluoranthene	100	830	820	JD
191-24-2	Benzo(g,h,i)perylene	100	830	960	D
50-32-8	Benzo(a)pyrene	100	500	1700	D
218-01-9	Chrysene	100	830	1800	D
53-70-3	Dibenz(a,h)anthracene	100	500	300	JD
206-44-0	Fluoranthene	100	830	2400	D
86-73-7	Fluorene	100	830	160	JD
193-39-5	Indeno(1,2,3-cd)pyrene	100	830	1000	D
91-57-6	2-Methylnaphthalene	100	830		UD
90-12-0	1-Methylnaphthalene	250	830		UD
91-20-3	Naphthalene	100	830		UD
85-01-8	Phenanthrene	100	830	1600	D
129-00-0	Pyrene	100	830	2000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Lab Smp Id: 0607022-11 Client Smp ID: 51DUP1S060706
Inj Date : 11-JUL-2006 16:51
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.700	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.235	(1.000)	534771	40.0000	
* 31 Naphthalene-d8	136	5.231	5.240	(1.000)	1877607	40.0000	
$ 32 Nitrobenzene-d5	82	4.663	4.668	(0.891)	303193	14.7925	2465
* 65 Acenaphthene-d10	164	7.643	7.641	(1.000)	918759	40.0000	
$ 70 2-Fluorobiphenyl	172	6.547	6.555	(0.857)	462735	15.8266	2637
76 Acenaphthene	153	7.691	7.703	(1.006)	27184	1.02520	170.8(a)
84 Fluorene	166	8.718	8.727	(1.141)	26973	0.95109	158.5(a)
* 97 Phenanthrene-d10	188	10.921	10.923	(1.000)	1231851	40.0000	
106 Phenanthrene	178	10.970	10.986	(1.004)	326606	9.29899	1550
107 Anthracene	178	11.080	11.096	(1.015)	57613	1.66149	276.9(a)
110 Fluoranthene	202	14.185	14.195	(1.299)	493089	14.1803	2363
* 124 Chrysene-d12	240	18.334	18.333	(1.000)	923091	40.0000	
126 Pyrene	202	14.764	14.770	(0.805)	434782	11.7939	1965

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Report Date: 12-Jul-2006 12:13

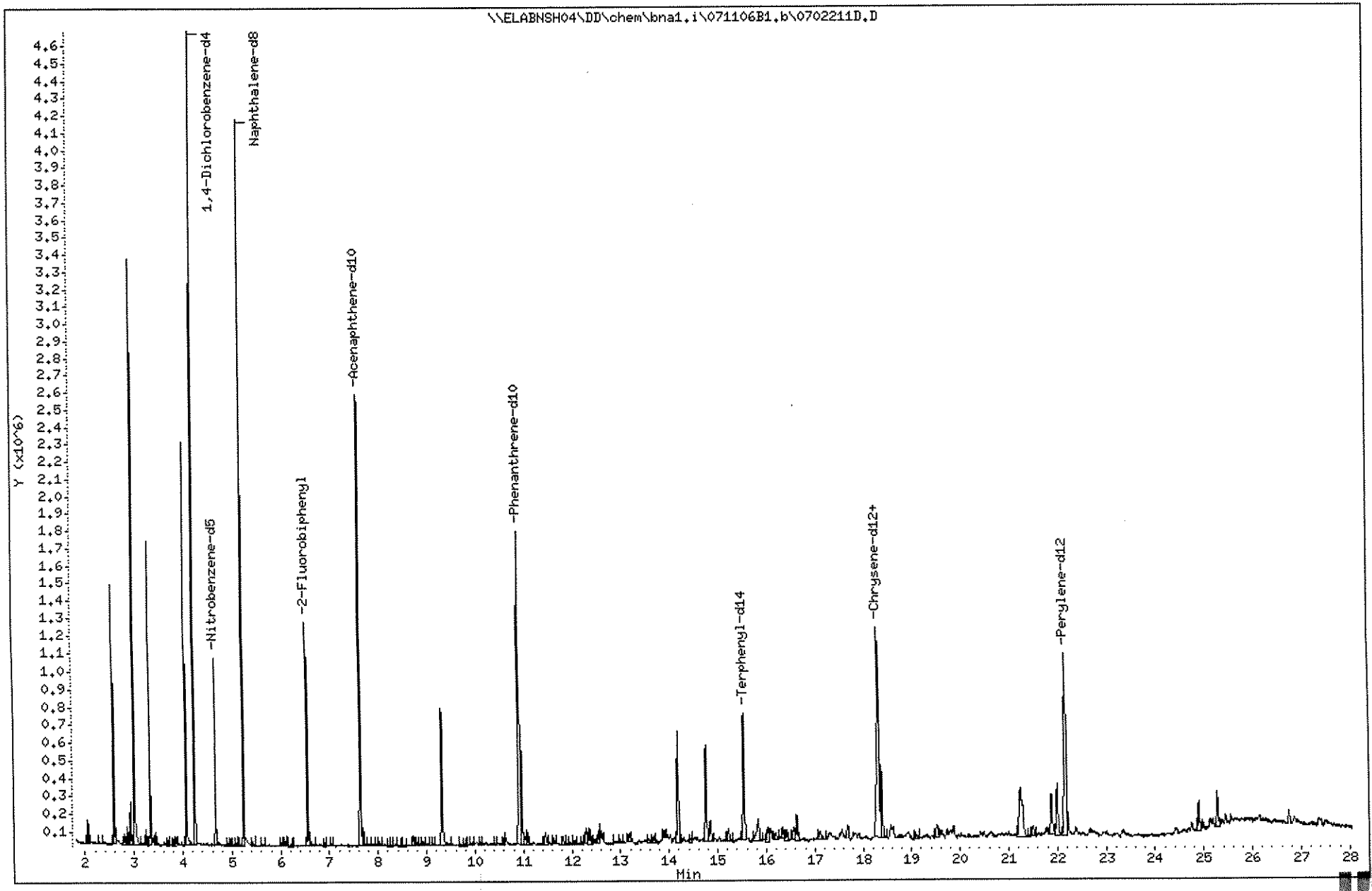
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.544	15.545	(0.848)	437937	18.7881	3131
130 Benzo(a)anthracene	228	18.285	18.291	(0.997)	248933	8.36972	1395
131 Chrysene	228	18.389	18.409	(1.003)	289721	10.6652	1777
* 145 Perylene-d12	264	22.178	22.175	(1.000)	903015	40.0000	
147 Benzo(b)fluoranthene	252	21.239	21.248	(0.958)	328674	11.8157	1969(M)
148 Benzo(k)fluoranthene	252	21.281	21.317	(0.960)	142306	4.93090	821.7(aM)
149 Benzo(a)pyrene	252	22.004	22.017	(0.992)	248303	10.3518	1725
150 Indeno(1,2,3-cd)pyrene	276	24.895	24.921	(1.123)	125241	6.11980	1020
151 Dibenz(a,h)anthracene	278	24.973	24.998	(1.126)	36697	1.78119	296.8(a)
152 Benzo(g,h,i)perylene	276	25.274	25.301	(1.140)	122165	5.75237	958.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D
Date : 11-JUL-2006 16:51
Client ID: 51DUP1S060706
Instrument: bna1.i
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000318



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Date : 11-JUL-2006 16:51

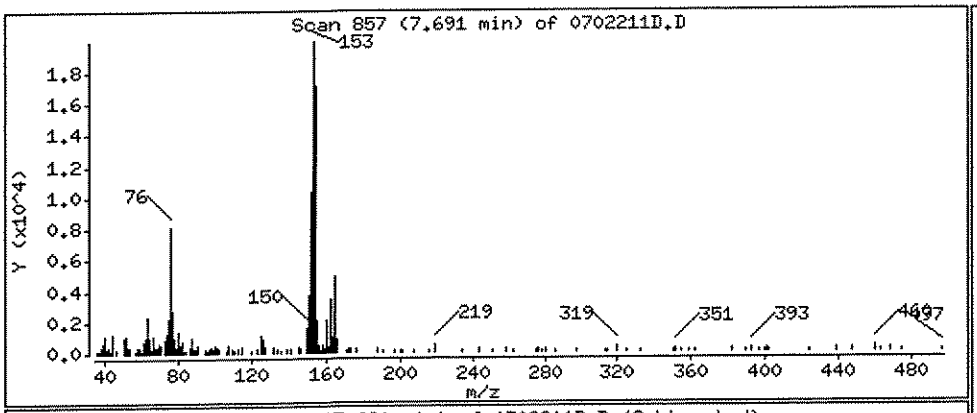
Client ID: 51DUP1S060706 Instrument: bna1.i

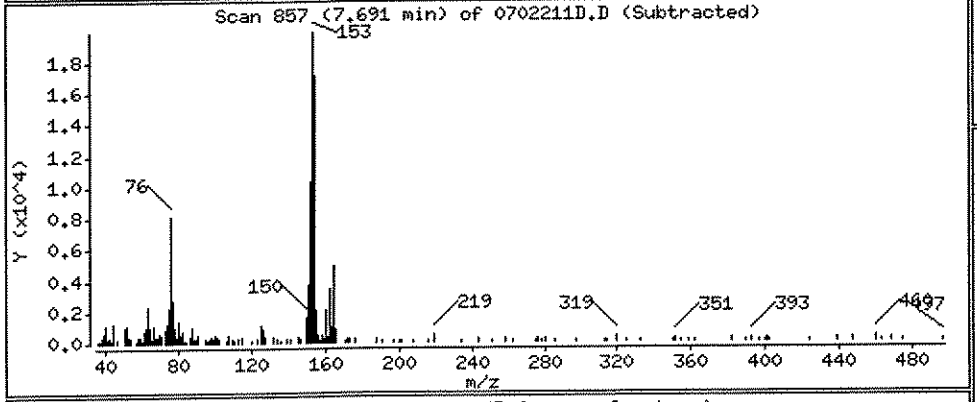
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

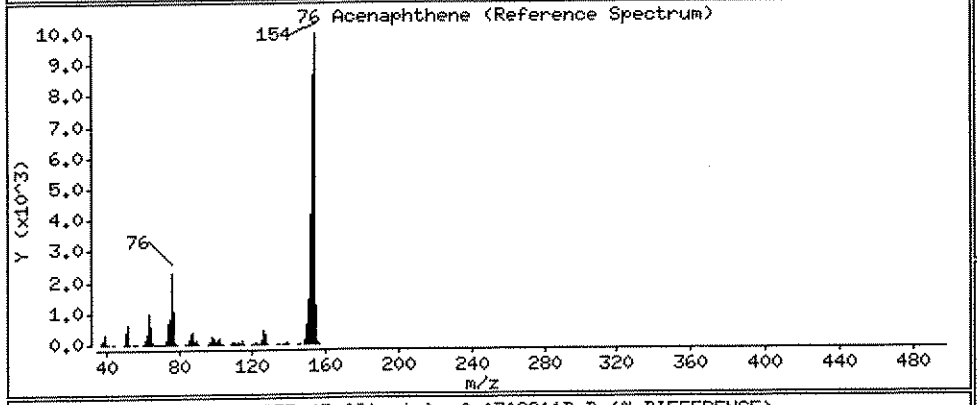
Volume Injected (uL): 0.5 Operator: SDB

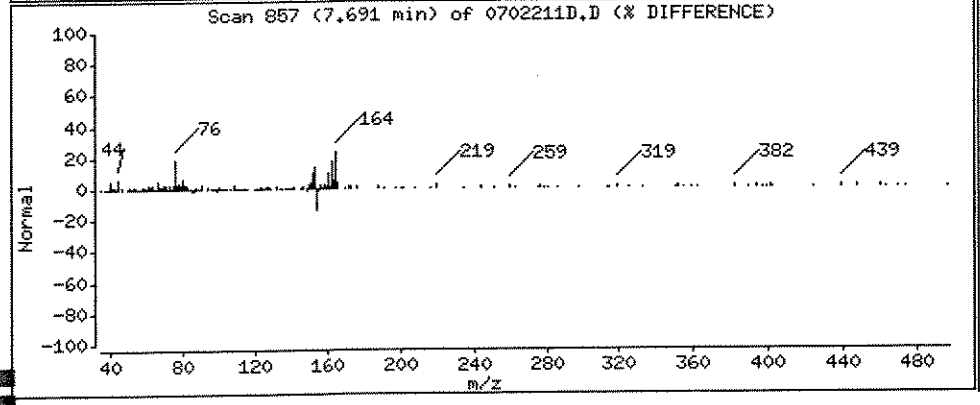
Column phase: fused silica Column diameter: 0.25

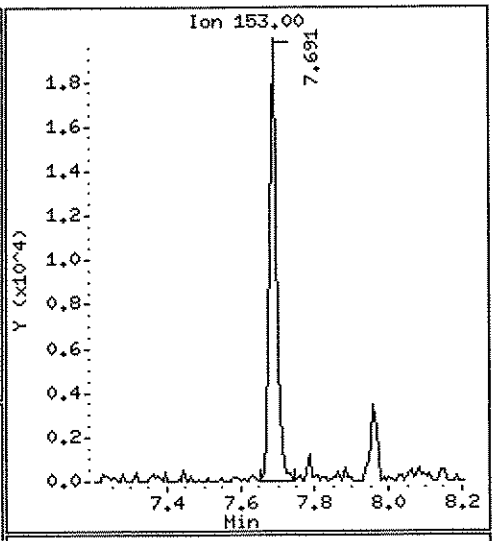
76 Acenaphthene Concentration: 170.8 UG/KG

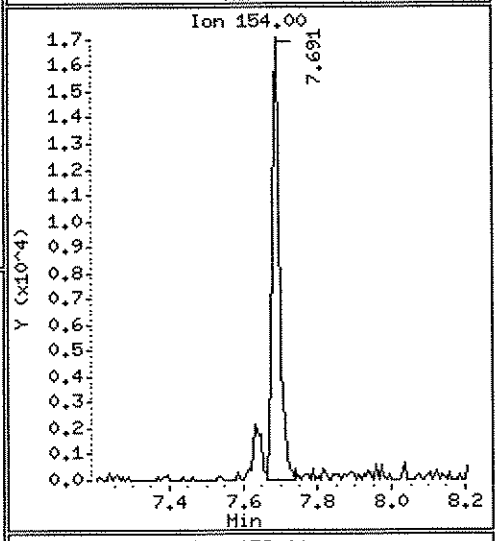


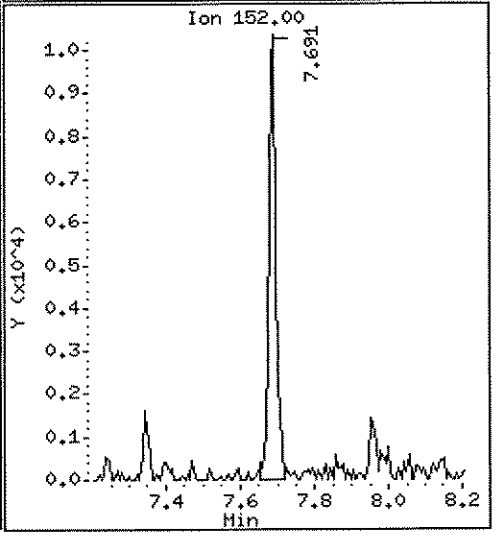












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Date : 11-JUL-2006 16:51

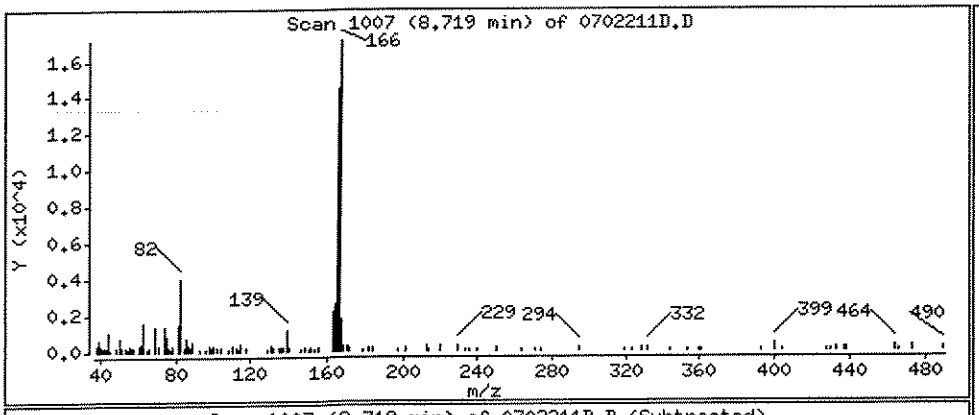
Client ID: 51DUP1S060706 Instrument: bna1.i

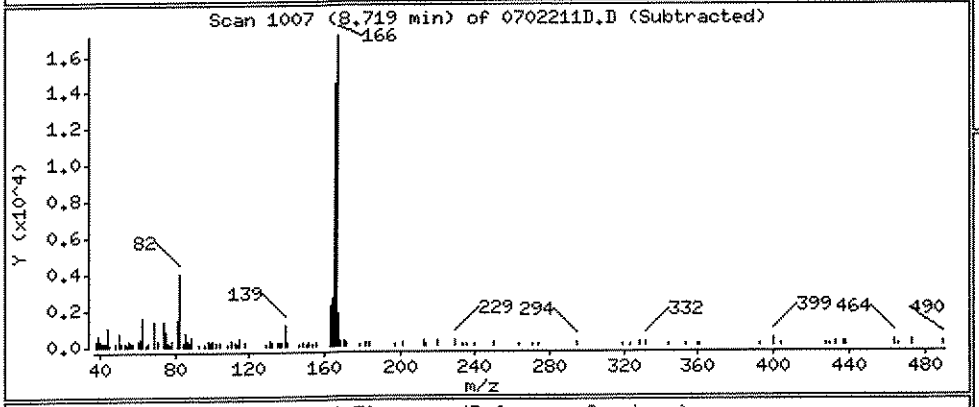
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

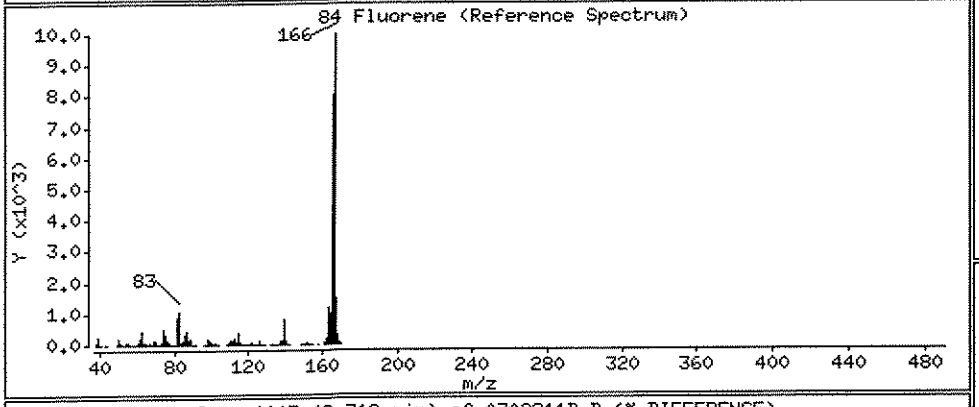
Volume Injected (uL): 0.5 Operator: SDB

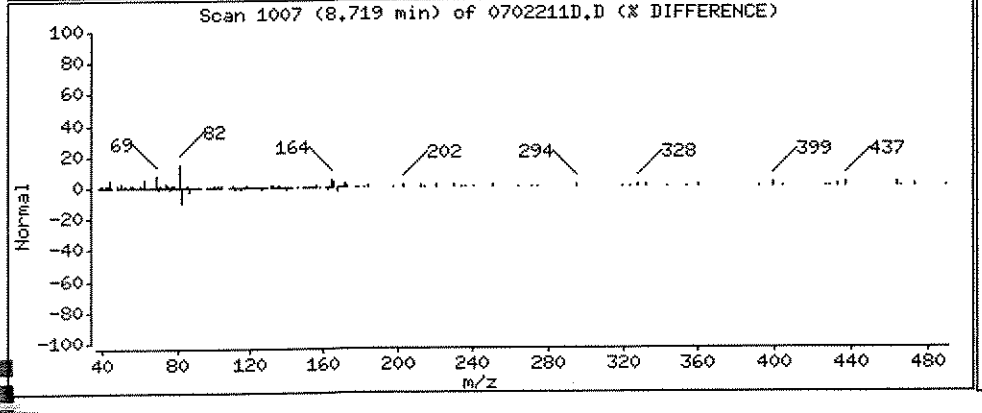
Column phase: fused silica Column diameter: 0.25

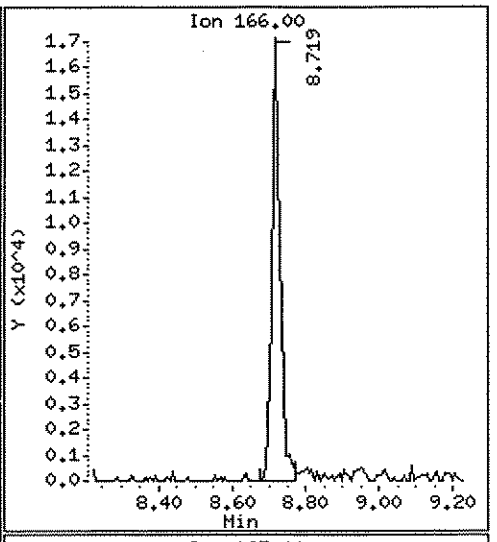
84 Fluorene Concentration: 158.5 UG/KG

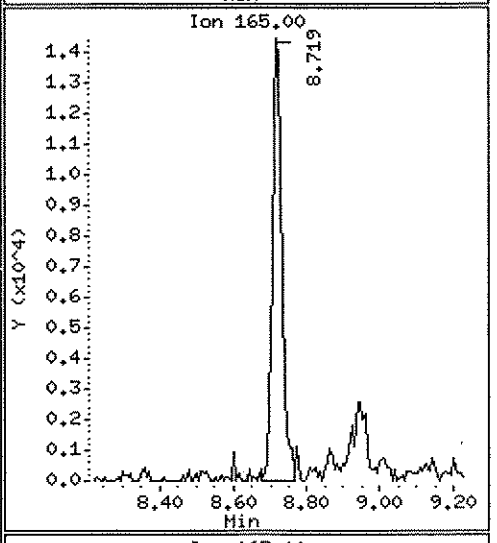


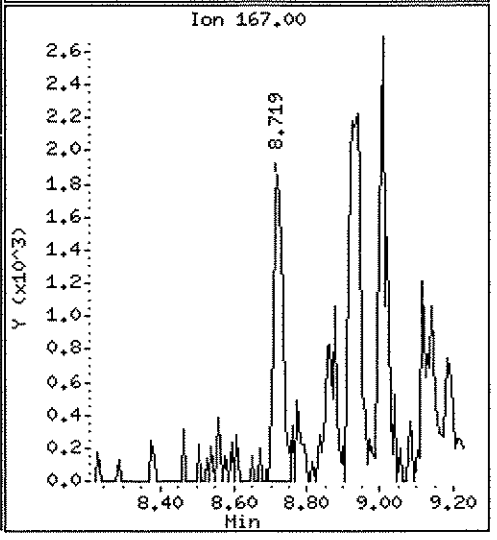












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Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

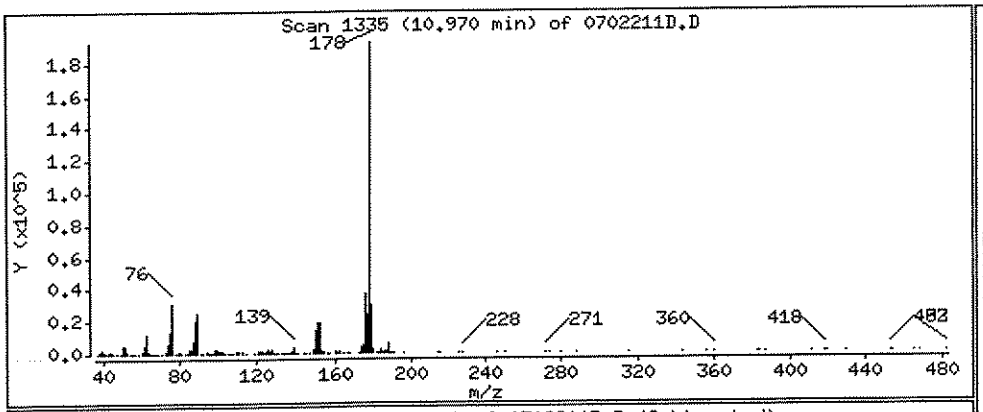
Operator: SDB

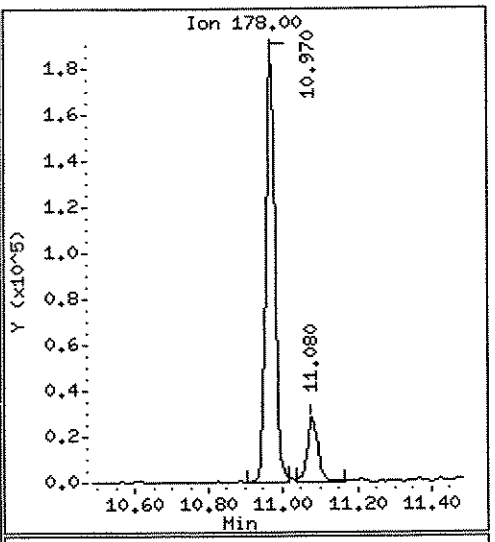
Column phase: fused silica

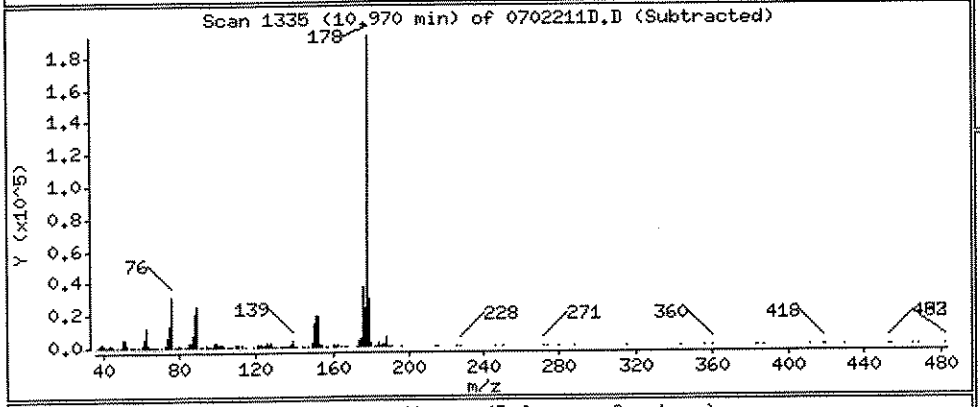
Column diameter: 0.25

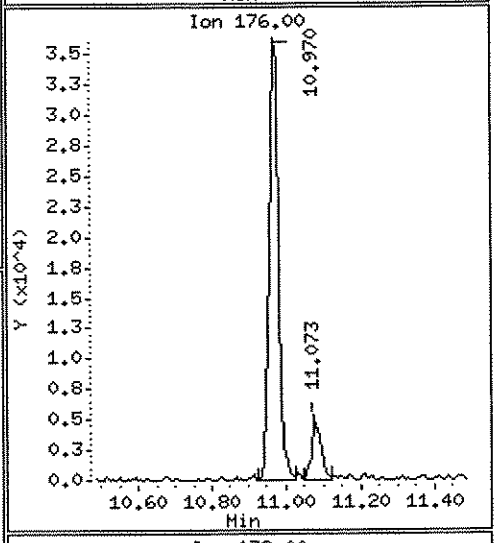
106 Phenanthrene

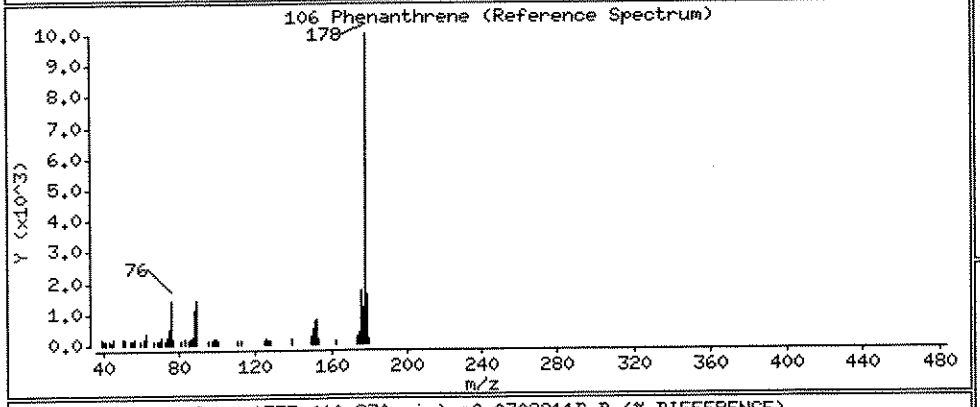
Concentration: 1550 UG/KG

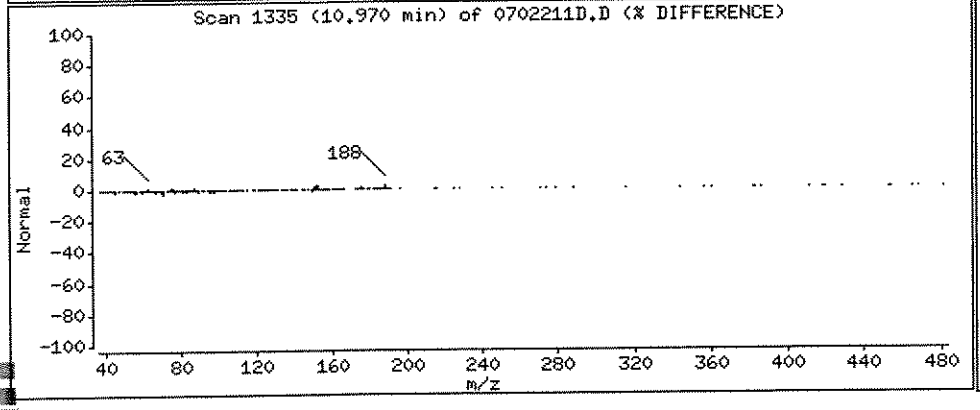


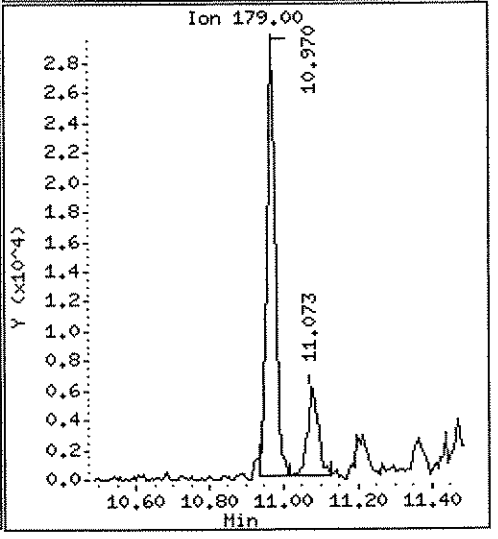












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

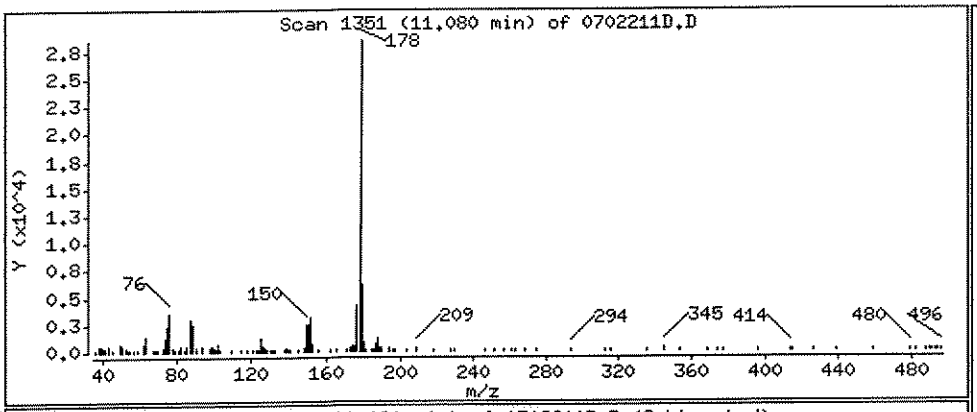
Client ID: 51DUP1S060706 Instrument: bna1.i

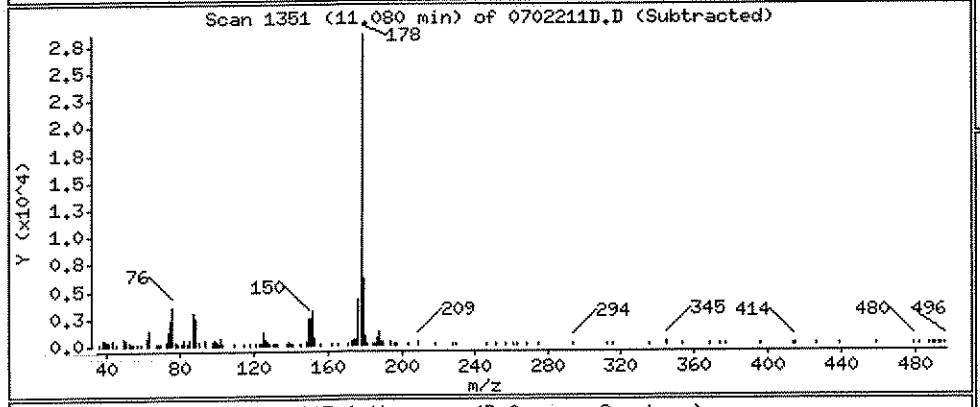
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

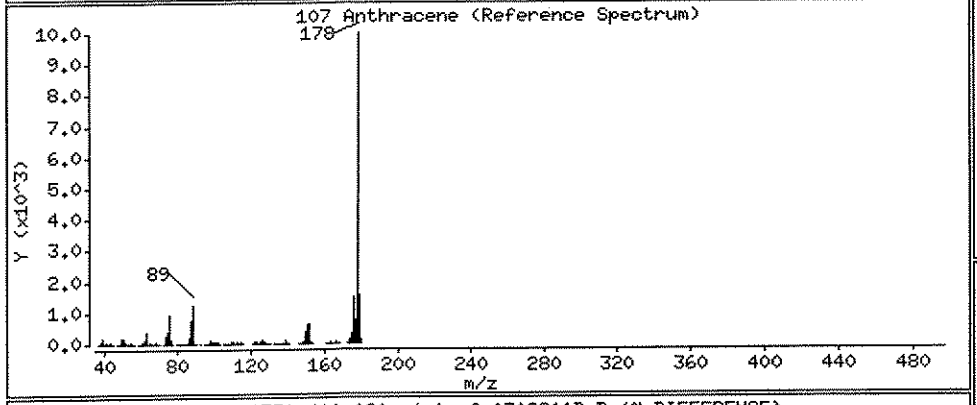
Volume Injected (uL): 0.5 Operator: SDB

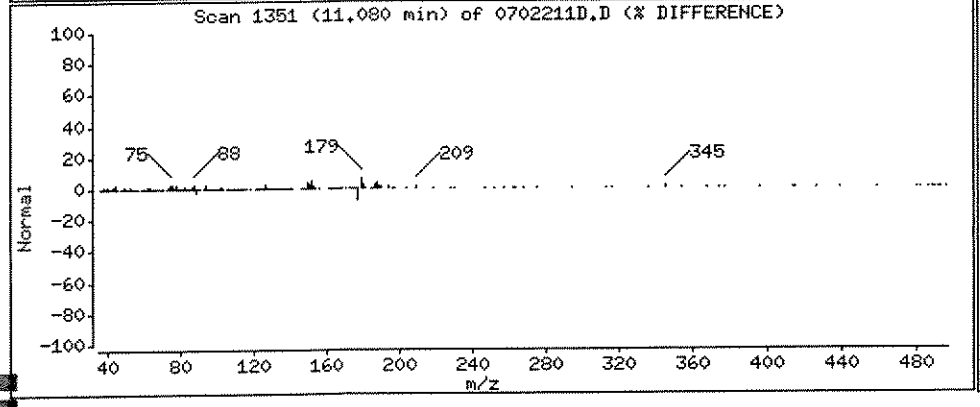
Column phase: fused silica Column diameter: 0.25

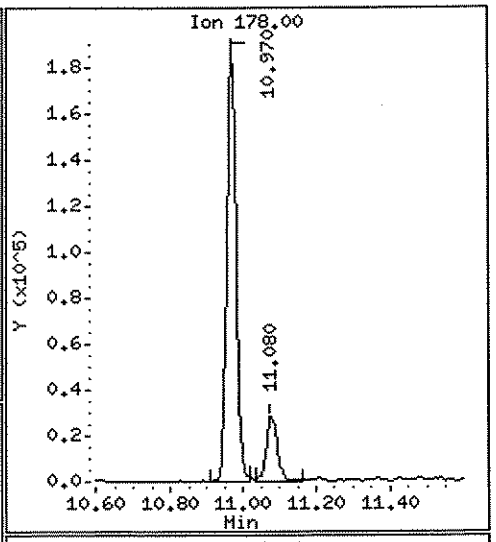
107 Anthracene Concentration: 276.9 UG/KG

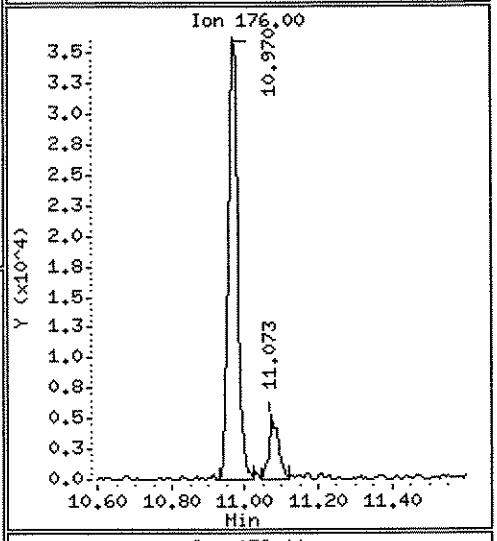


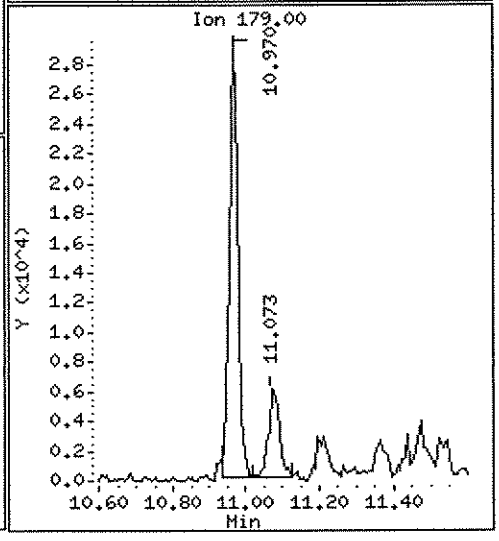












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

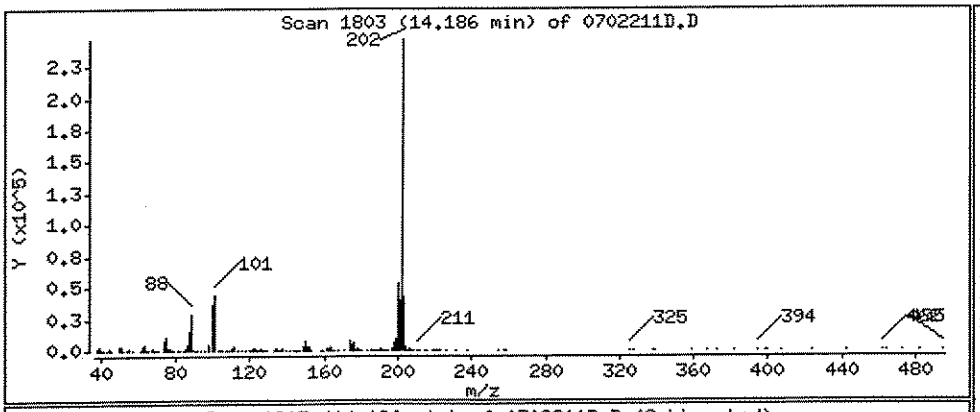
Client ID: 51DUP1S060706 Instrument: bna1.i

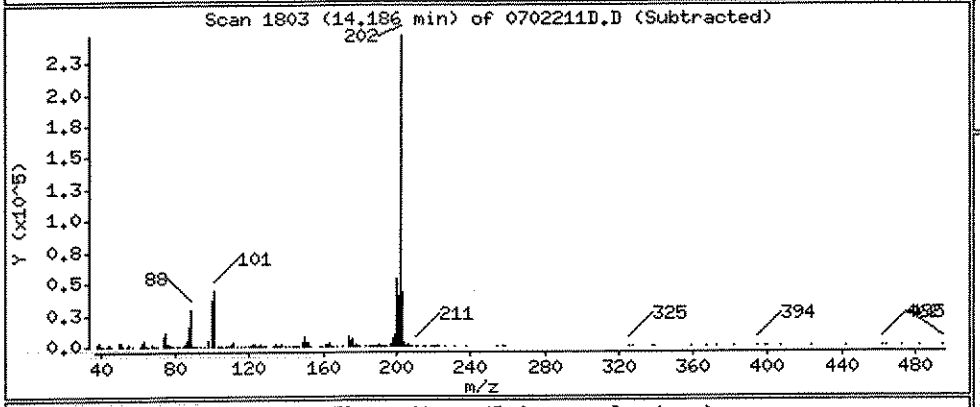
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

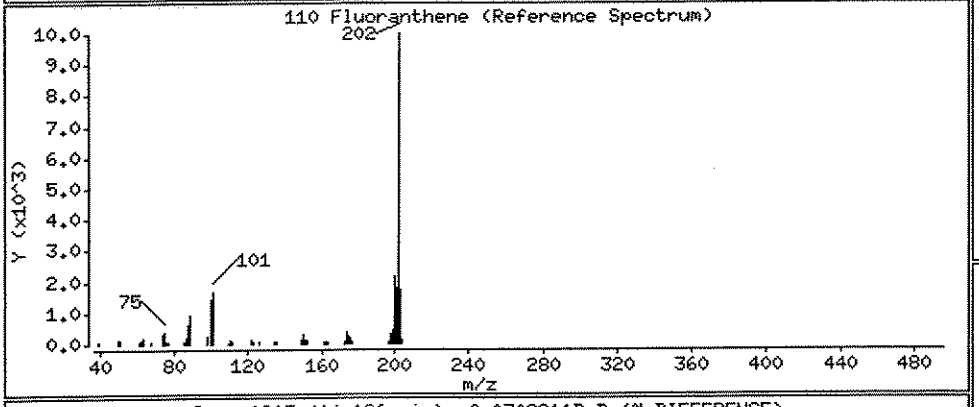
Volume Injected (uL): 0.5 Operator: SDB

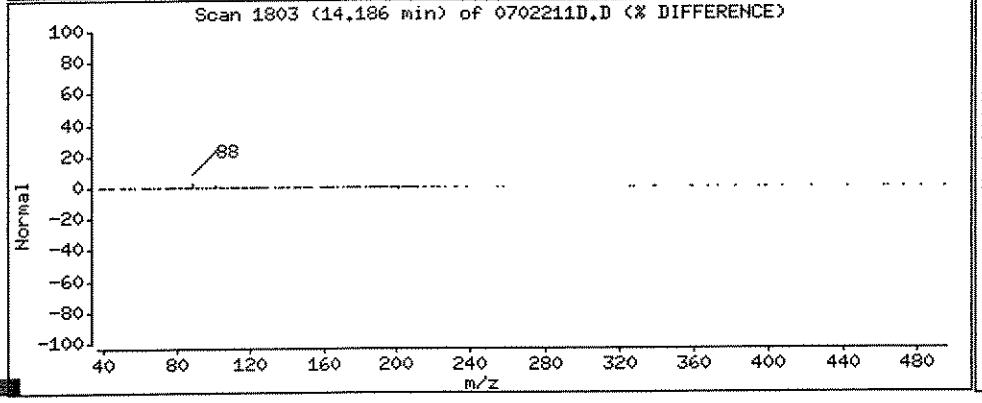
Column phase: fused silica Column diameter: 0.25

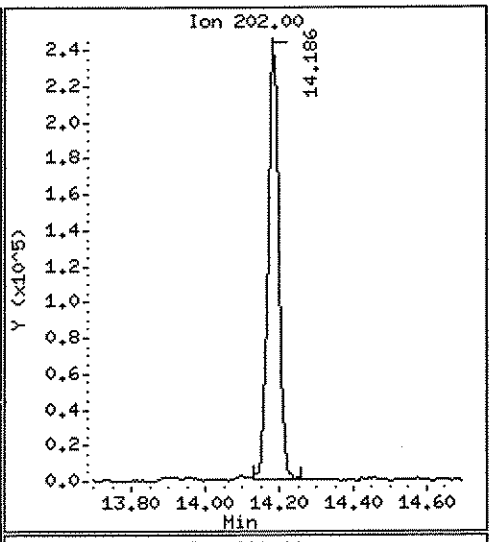
110 Fluoranthene Concentration: 2363 UG/KG

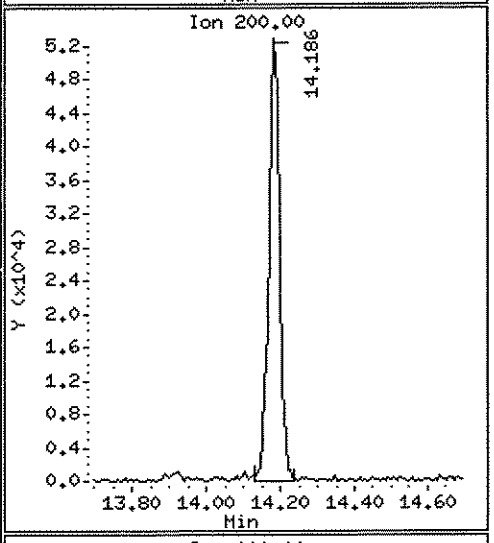


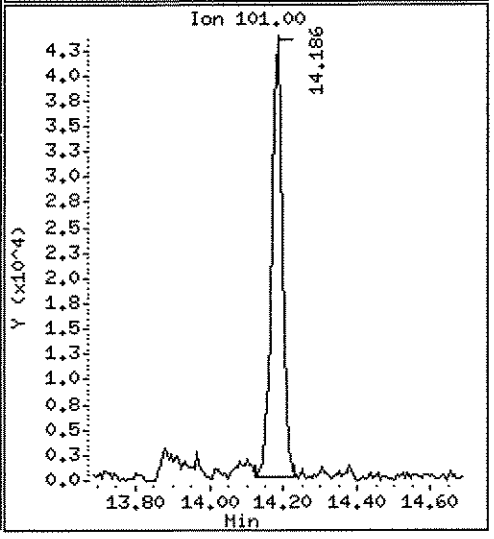












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

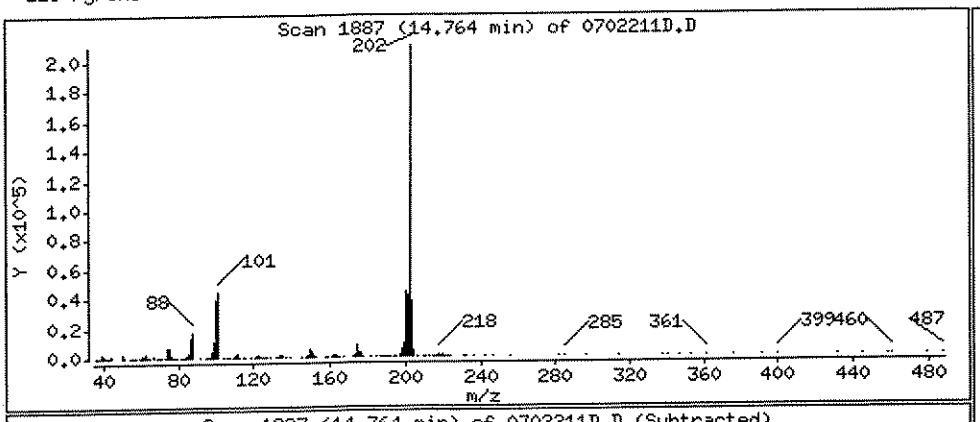
Operator: SDB

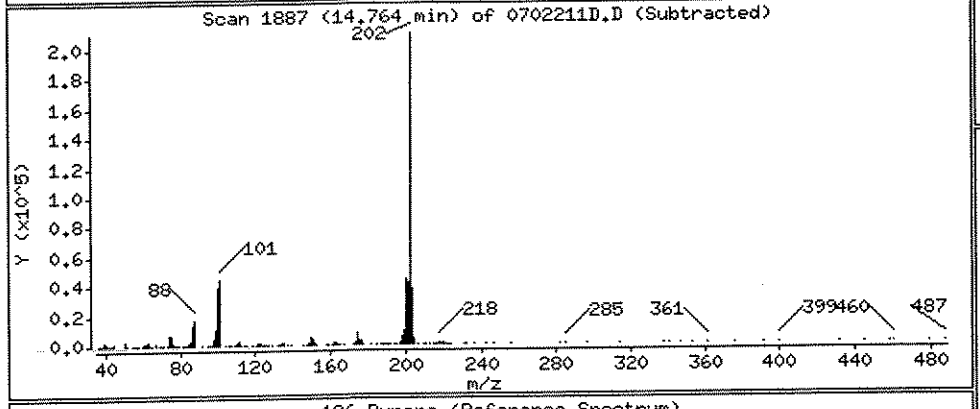
Column phase: fused silica

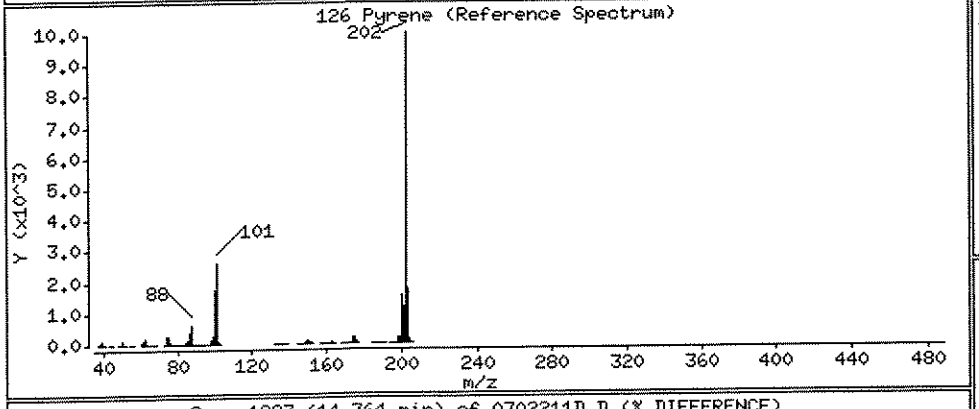
Column diameter: 0.25

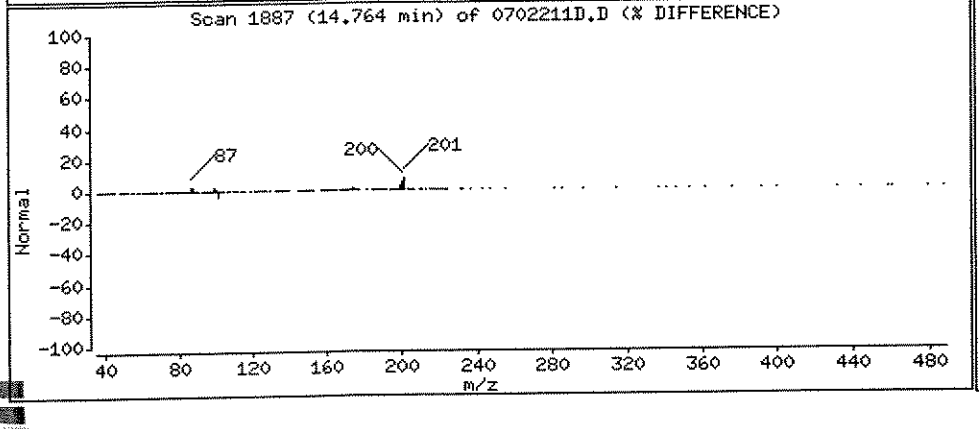
126 Pyrene

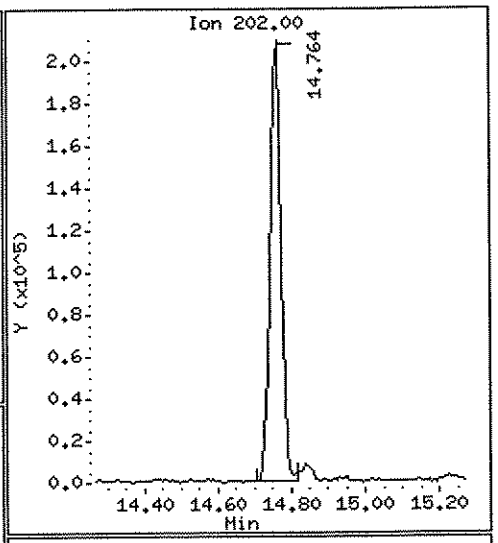
Concentration: 1965 UG/KG

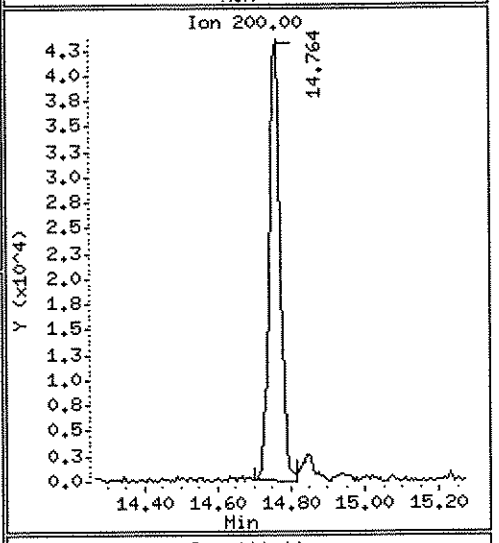


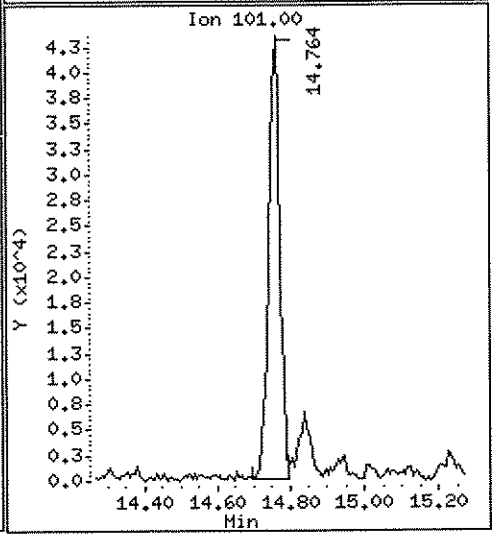












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

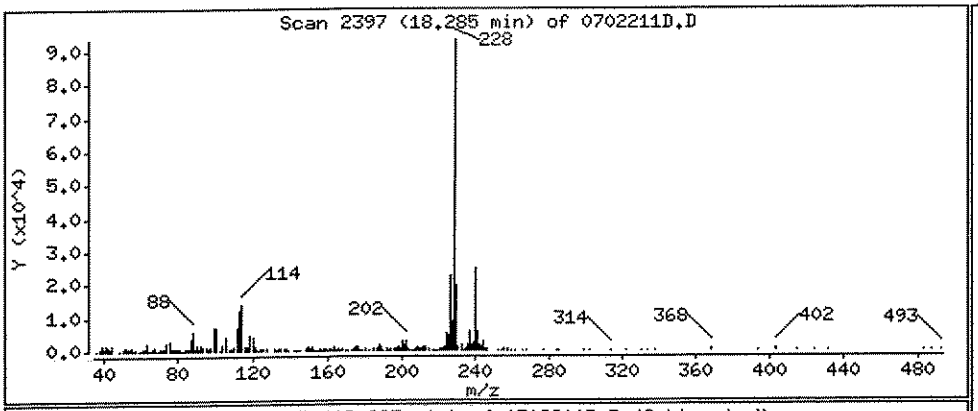
Client ID: 51DUP1S060706 Instrument: bna1.i

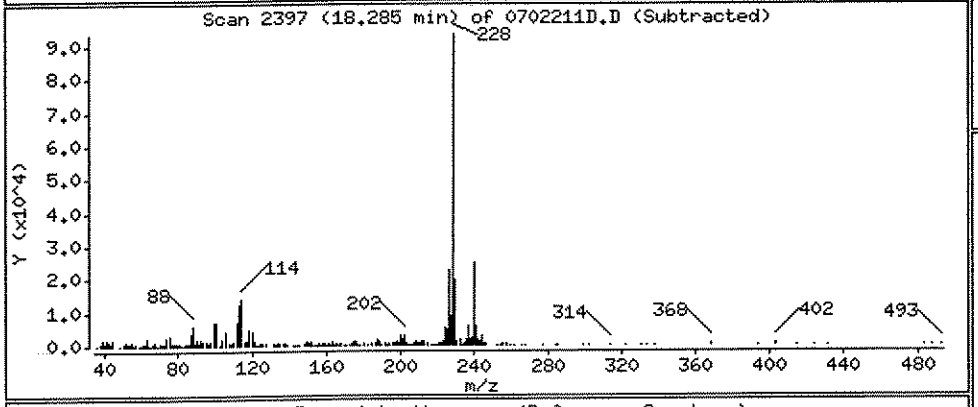
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

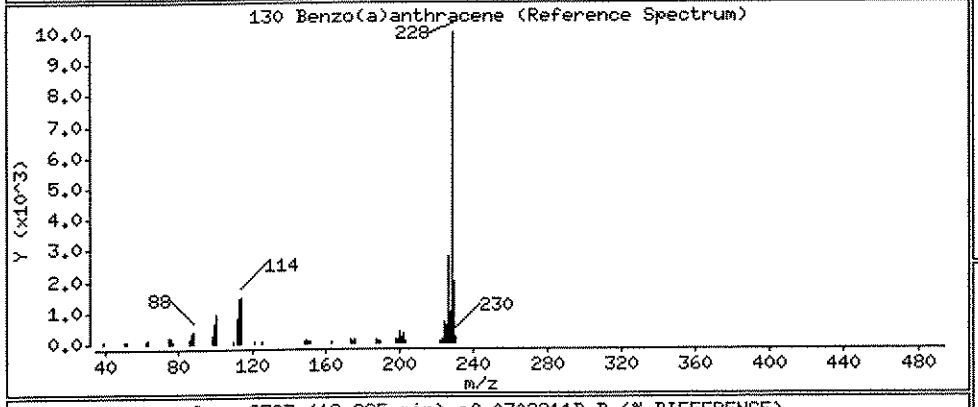
Volume Injected (uL): 0.5 Operator: SDB

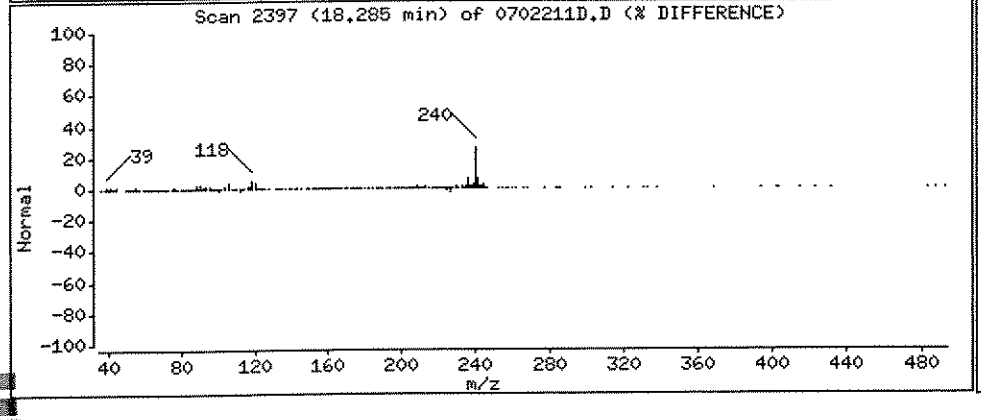
Column phase: fused silica Column diameter: 0.25

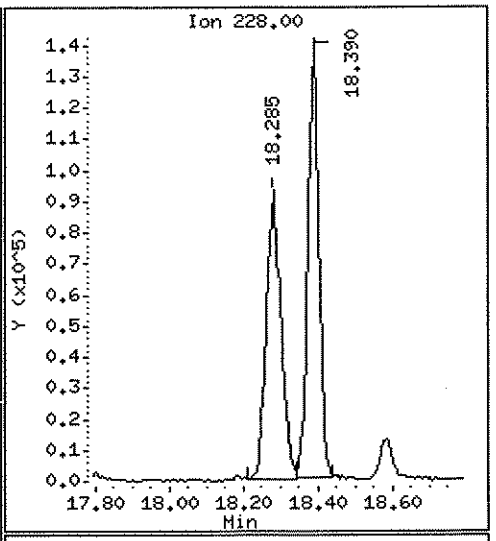
130 Benzo(a)anthracene Concentration: 1395 UG/KG

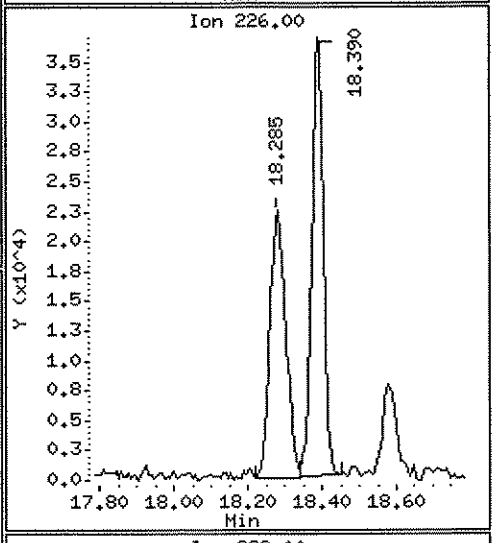


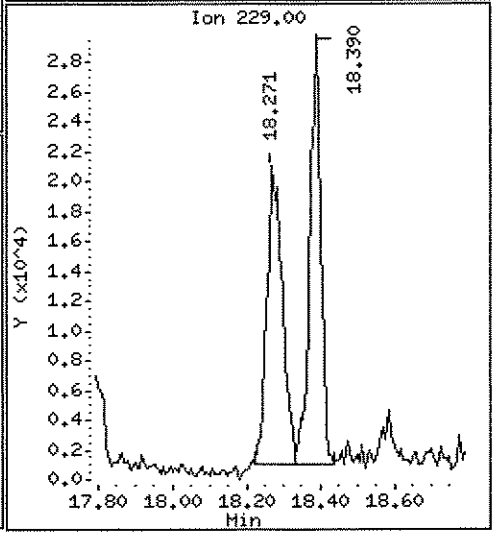












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

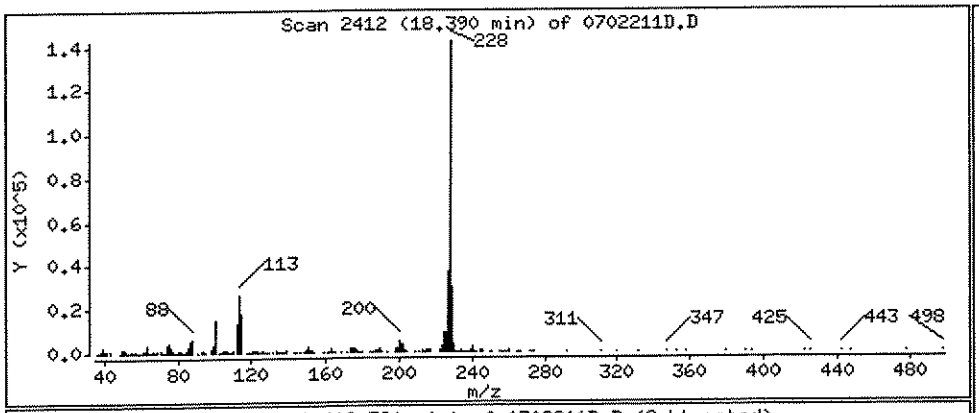
Operator: SDB

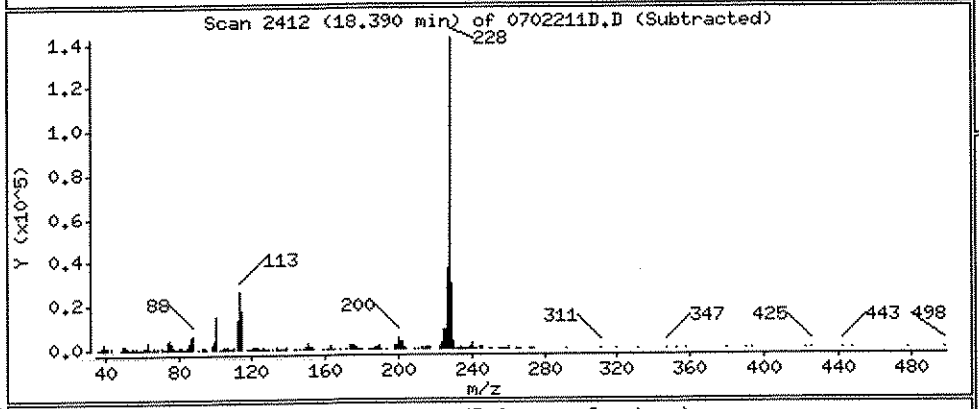
Column phase: fused silica

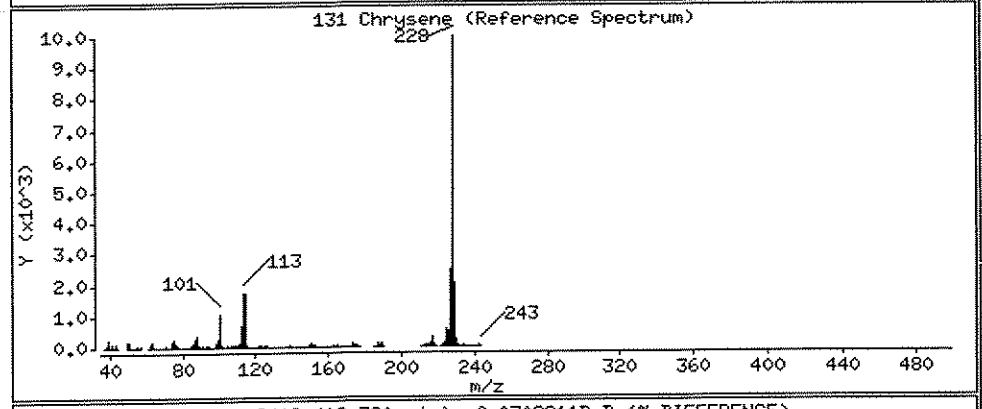
Column diameter: 0.25

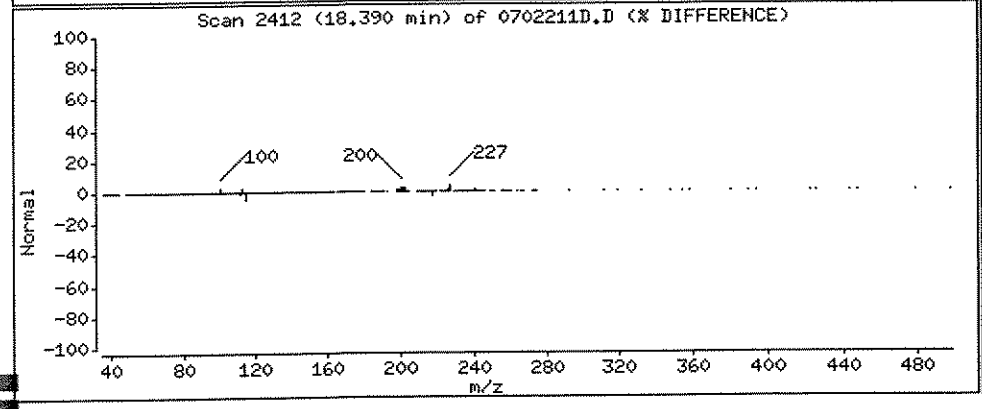
131 Chrysene

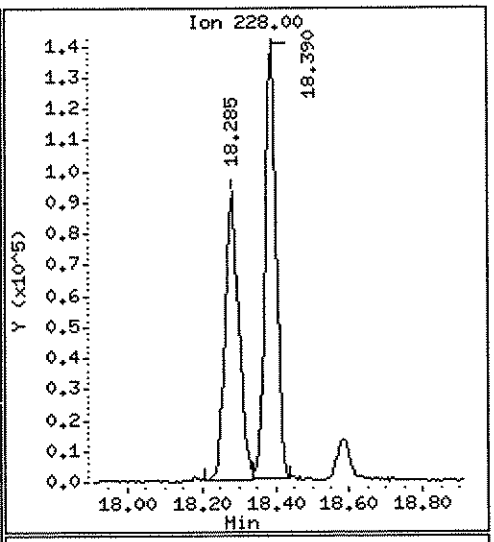
Concentration: 1777 UG/KG

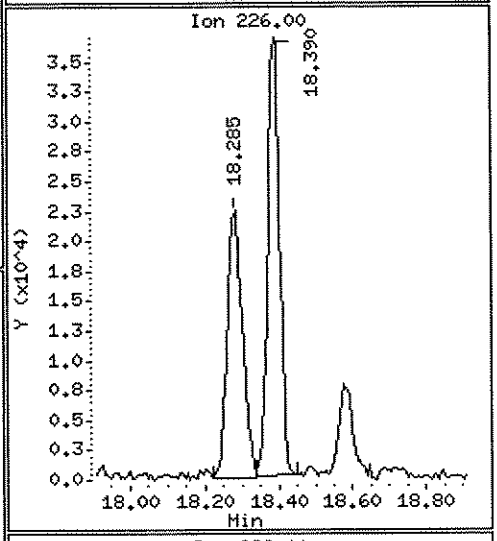


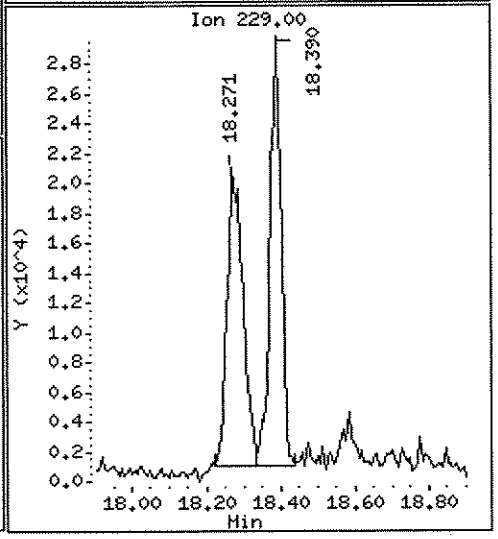












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

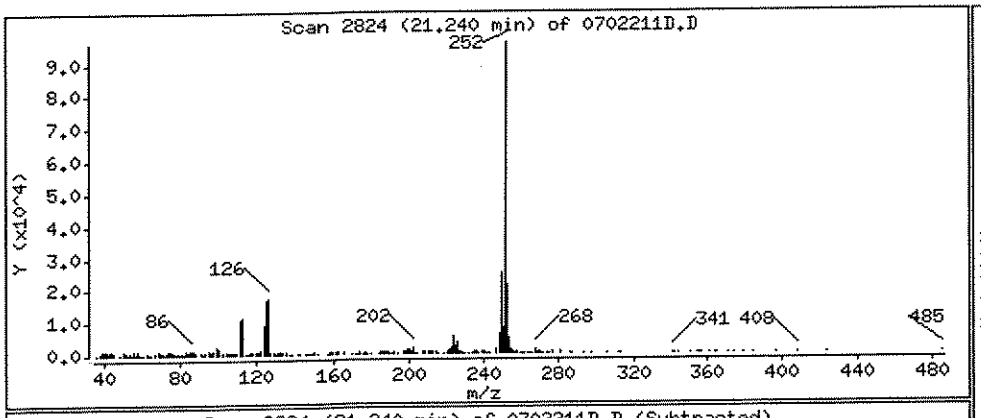
Operator: SDB

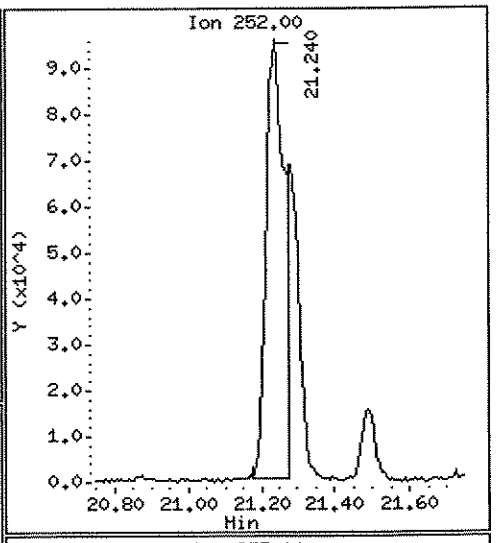
Column phase: fused silica

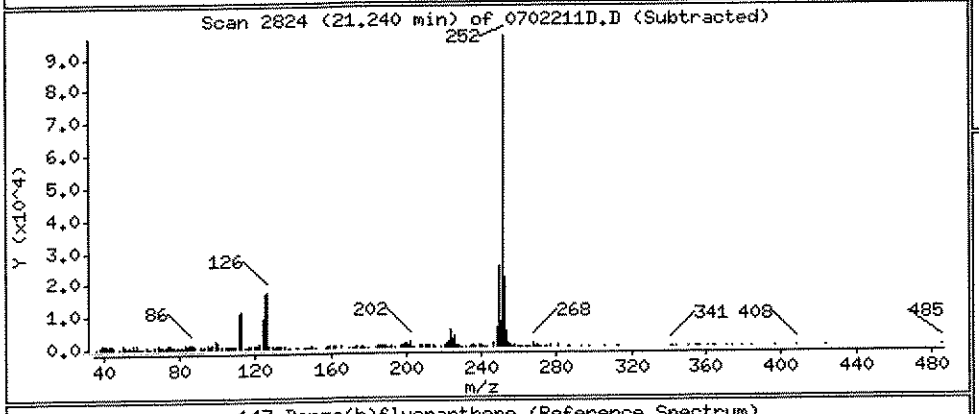
Column diameter: 0.25

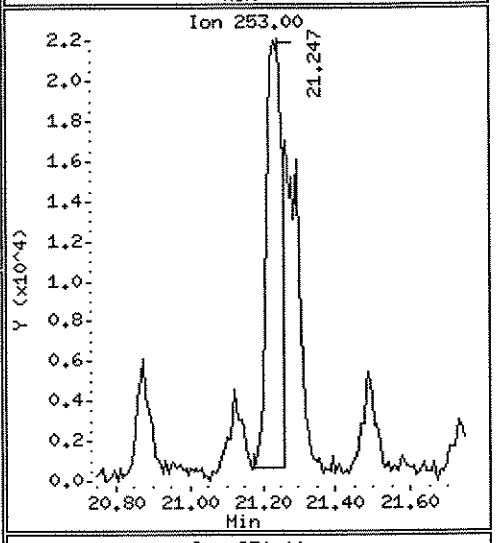
147 Benzo(b)fluoranthene

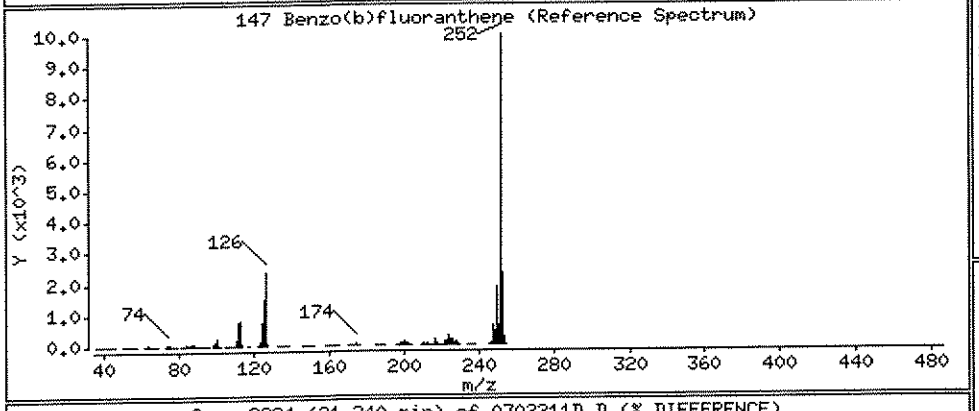
Concentration: 1969 UG/KG

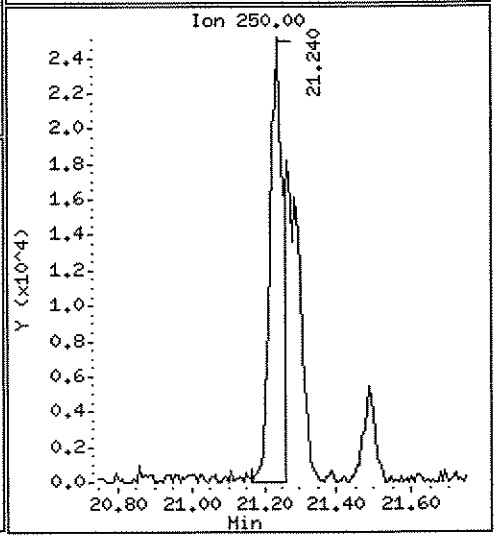


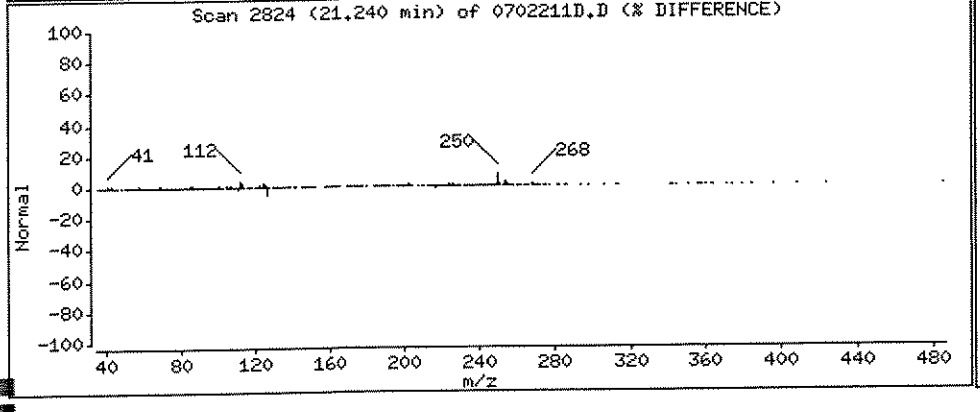












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

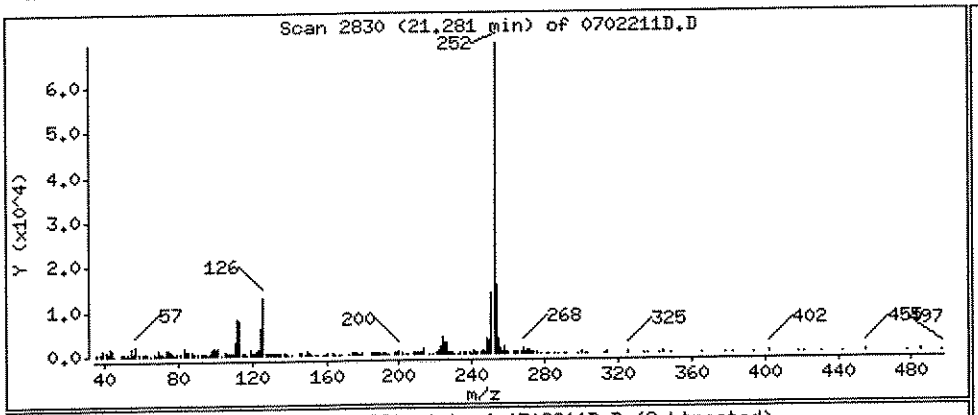
Operator: SDB

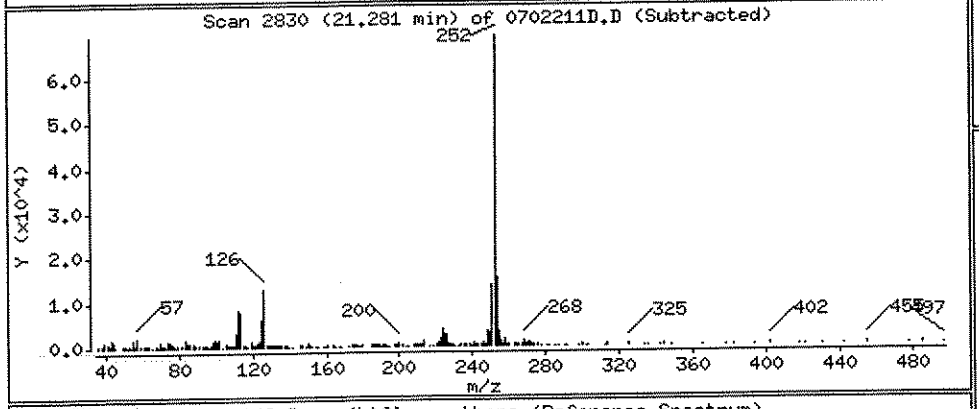
Column phase: fused silica

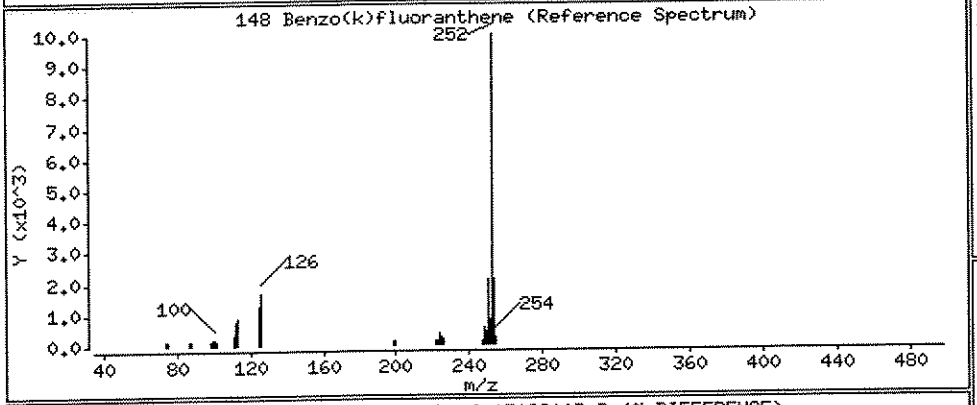
Column diameter: 0.25

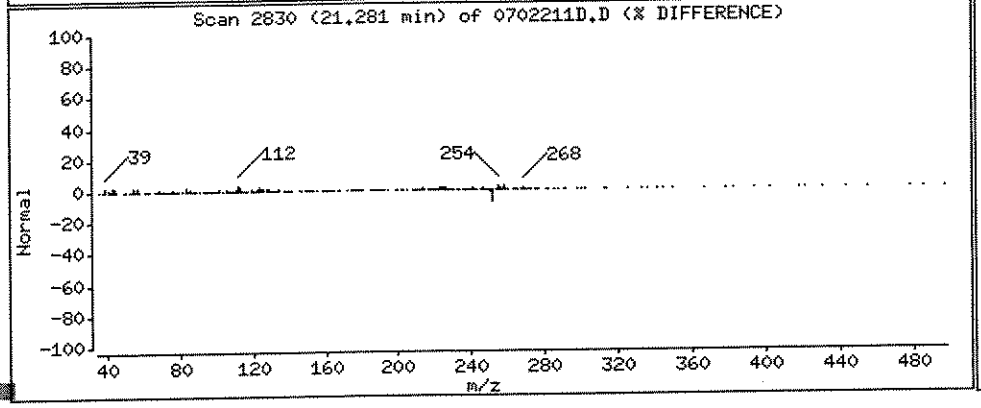
148 Benzo(k)fluoranthene

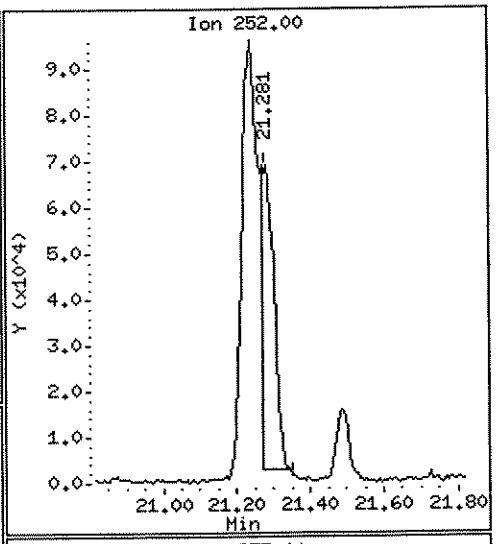
Concentration: 821.7 UG/KG

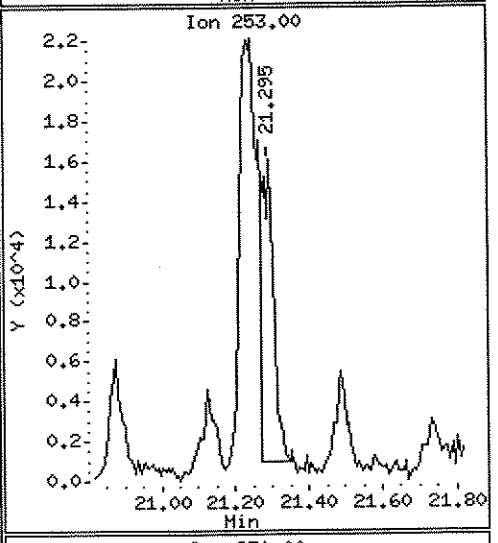


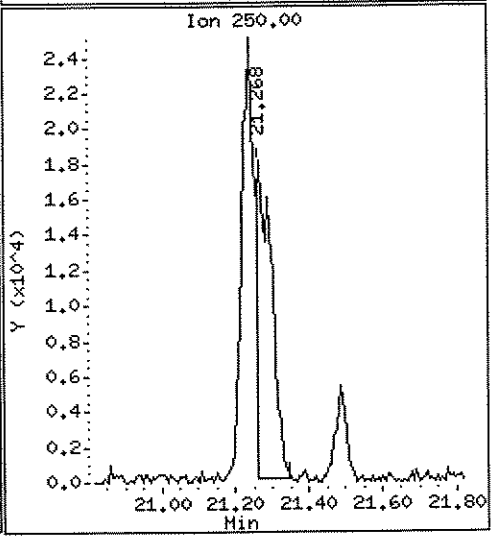












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

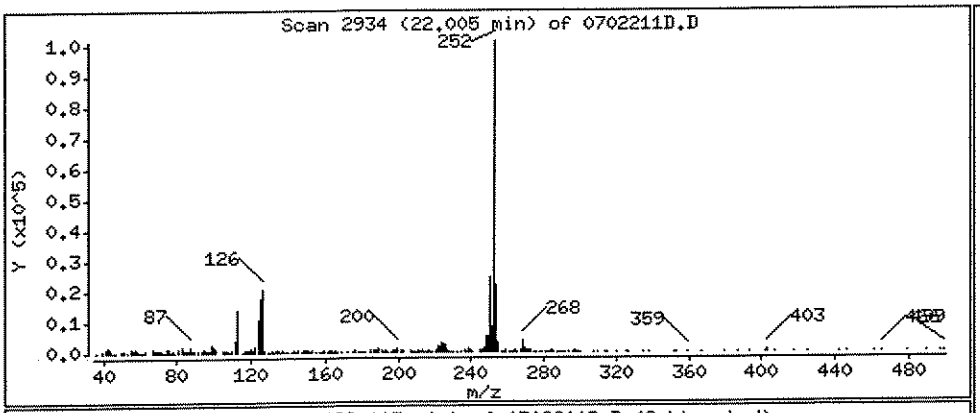
Operator: SDB

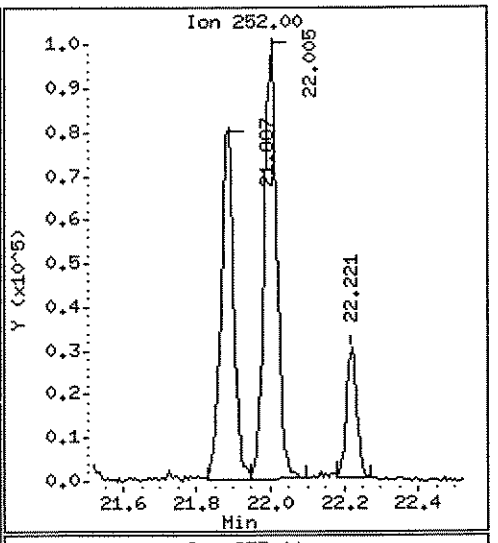
Column phase: fused silica

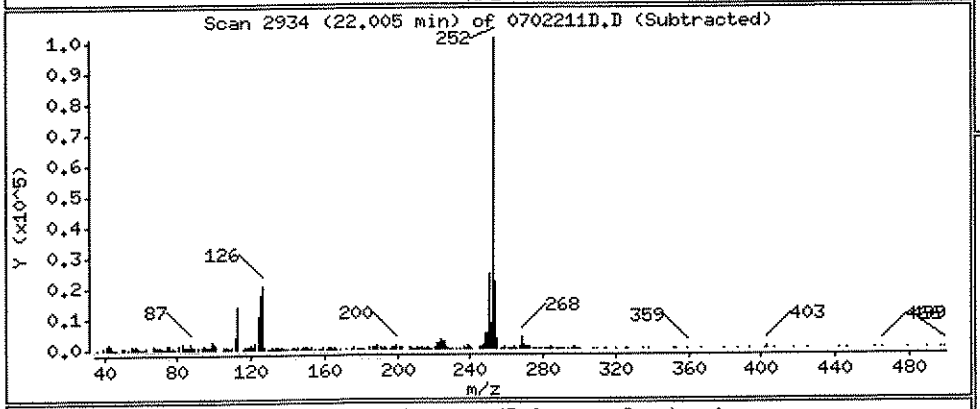
Column diameter: 0.25

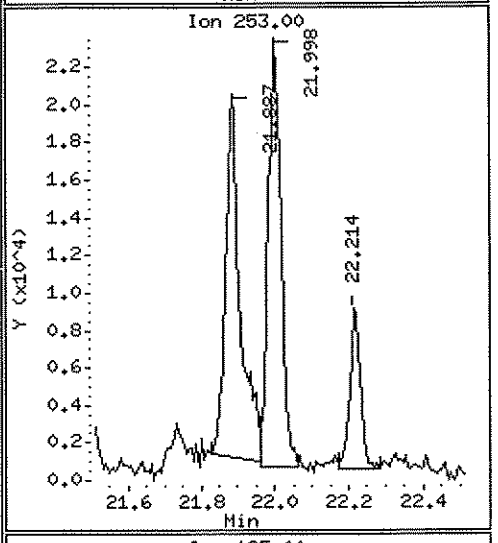
149 Benzo(a)pyrene

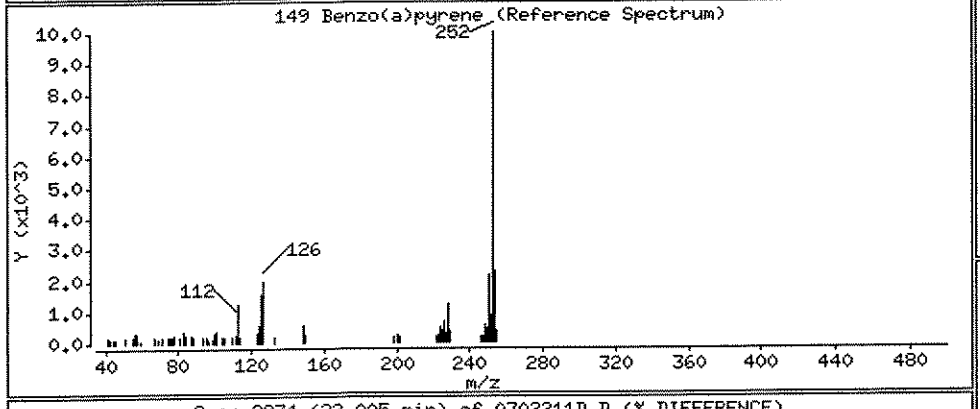
Concentration: 1725 UG/KG

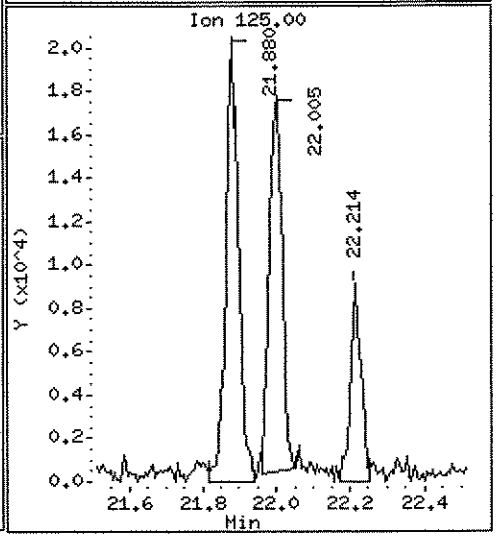


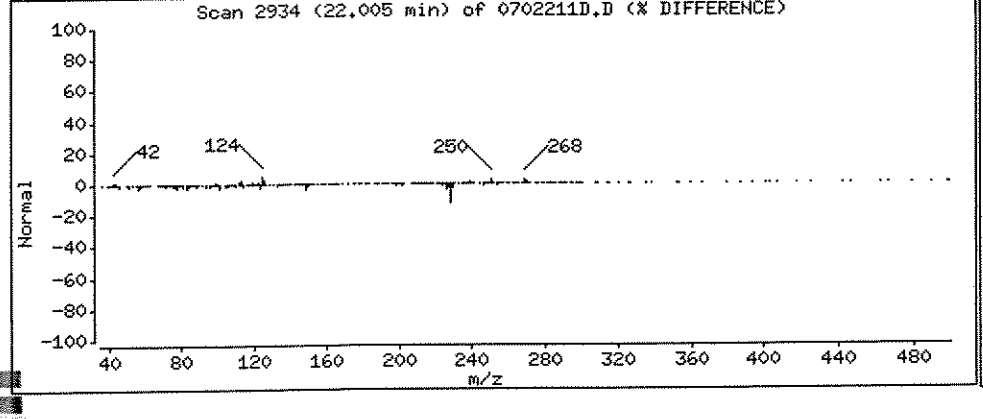












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

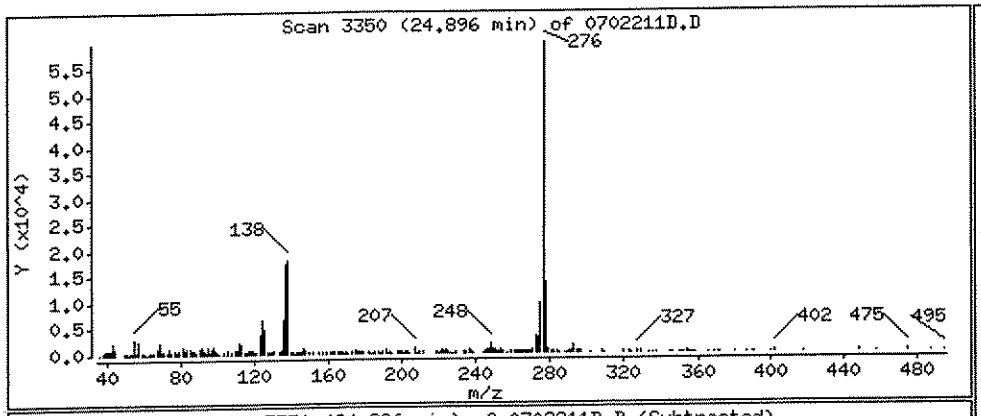
Operator: SDB

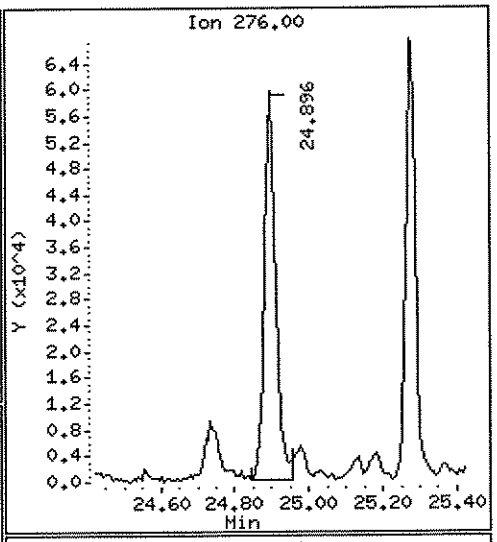
Column phase: fused silica

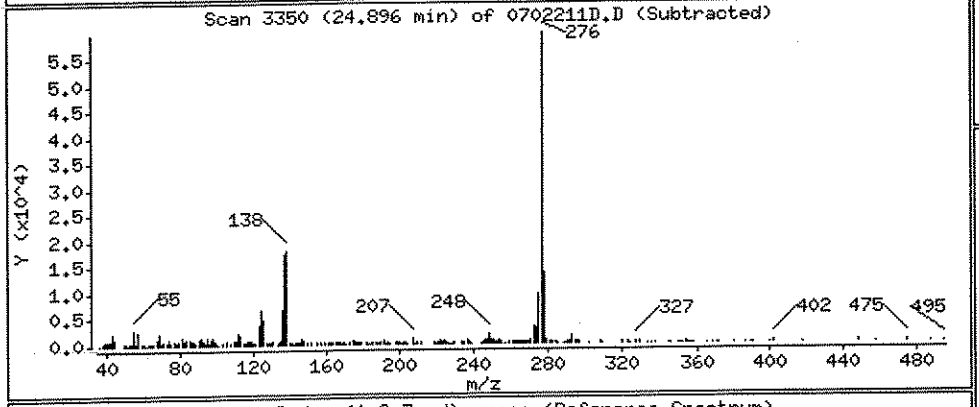
Column diameter: 0.25

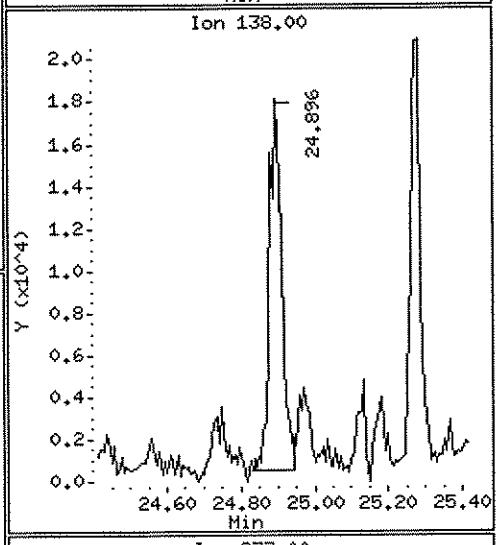
150 Indeno(1,2,3-cd)pyrene

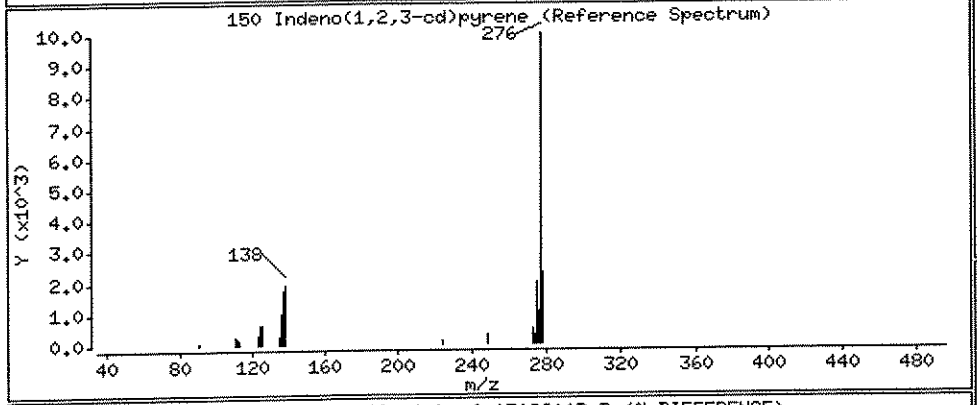
Concentration: 1020 UG/KG

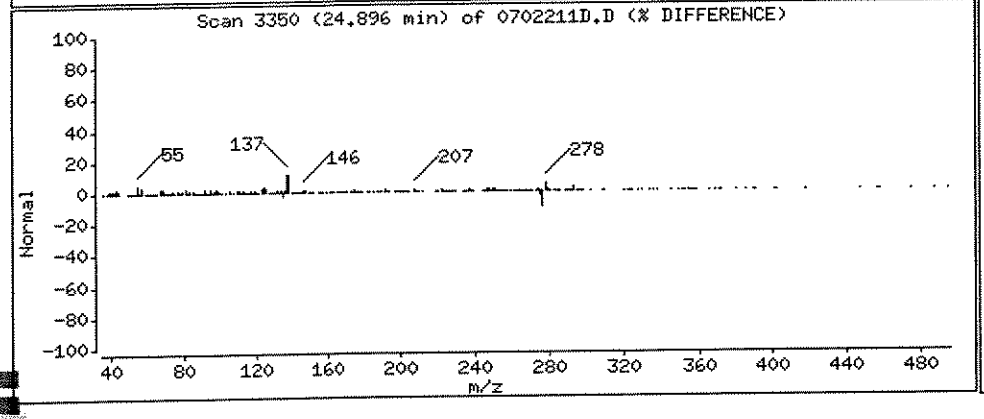


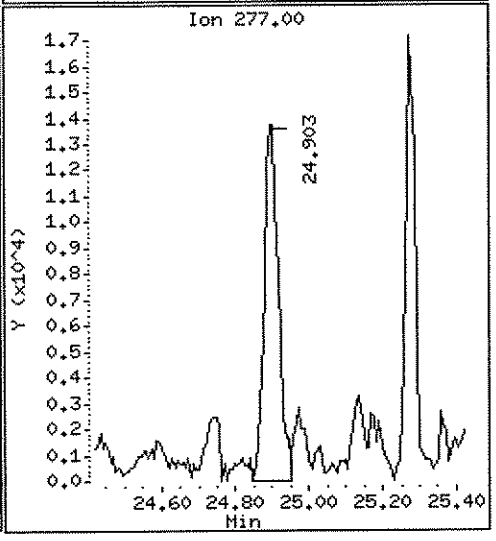












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

Client ID: 51DUP1S060706

Instrument: bna1.i

Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

Volume Injected (uL): 0.5

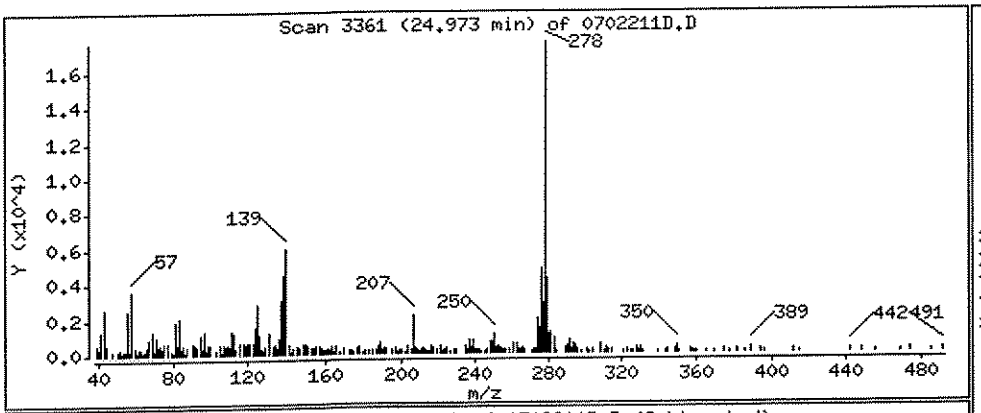
Operator: SDB

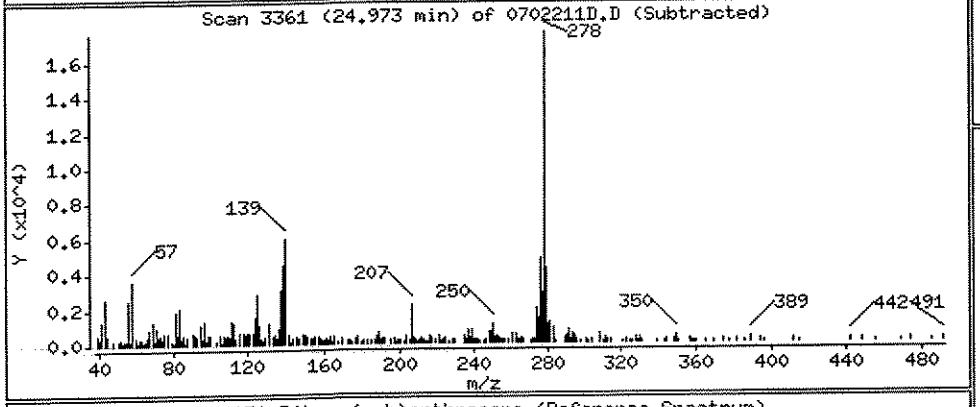
Column phase: fused silica

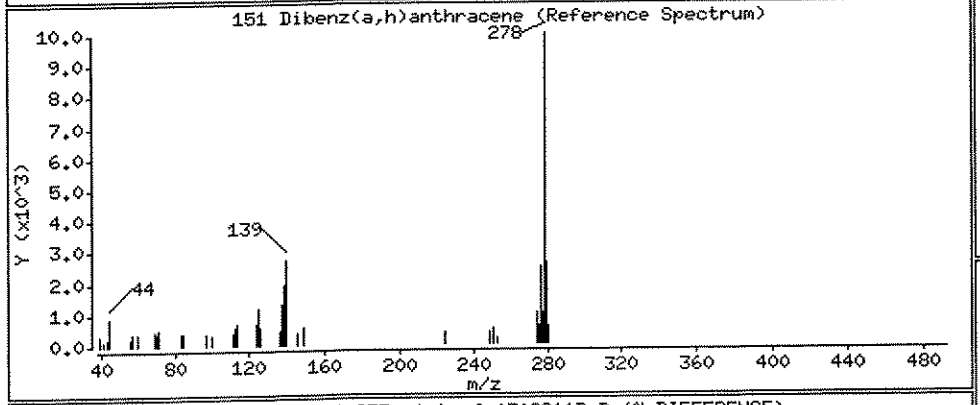
Column diameter: 0.25

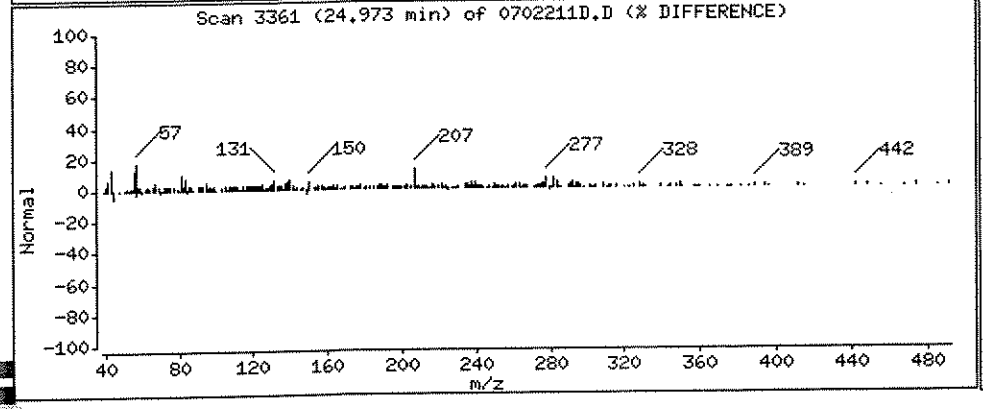
151 Dibenz(a,h)anthracene

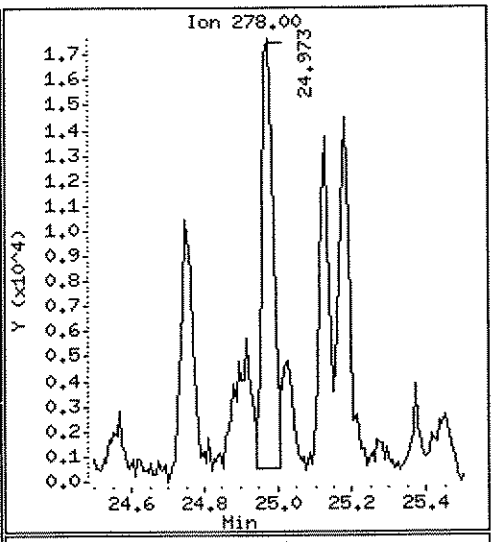
Concentration: 296.8 UG/KG

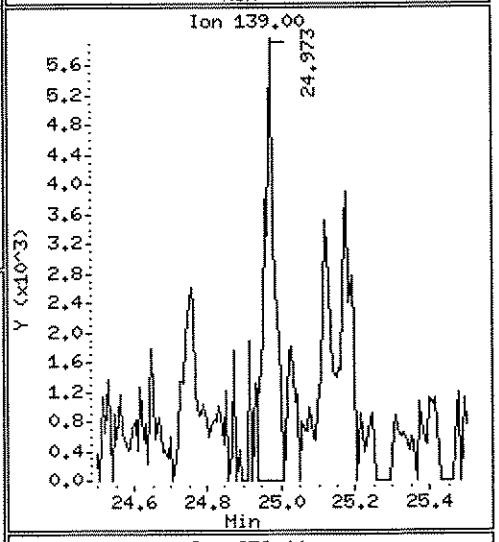


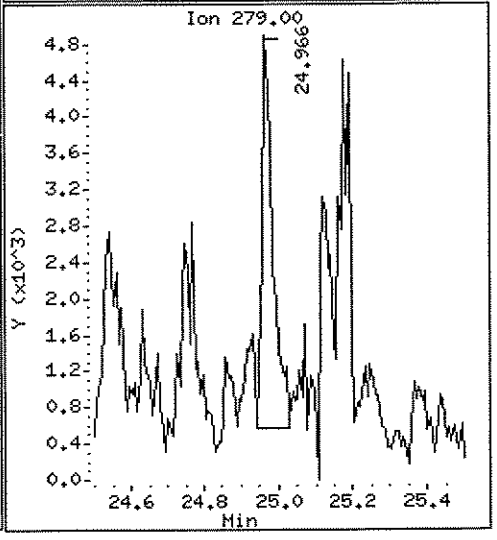












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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\0702211D.D

Date : 11-JUL-2006 16:51

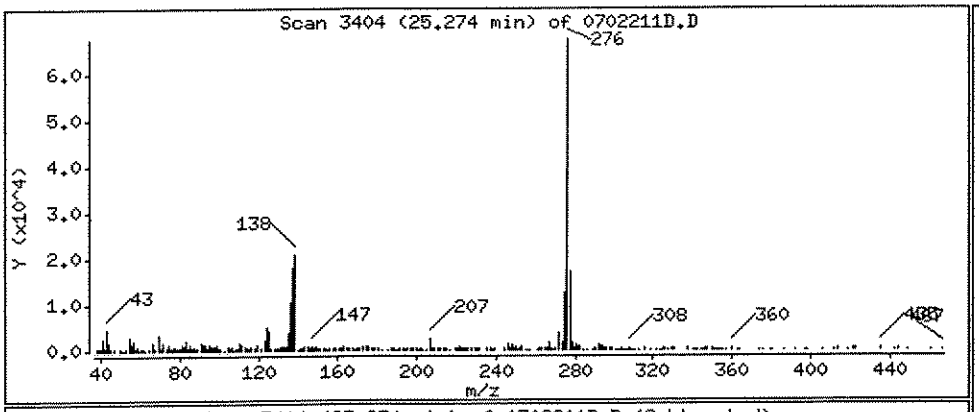
Client ID: 51DUP1S060706 Instrument: bna1.i

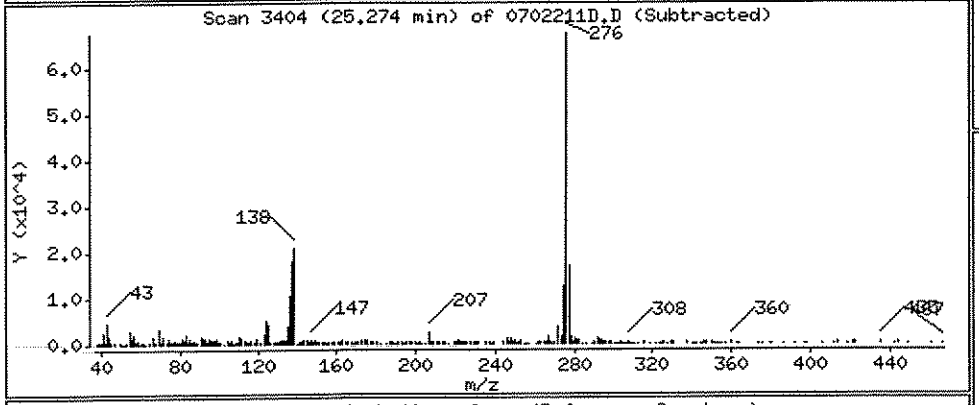
Sample Info: 0607022-11;15.2;500;1;UG/KG;10-JUL-2006

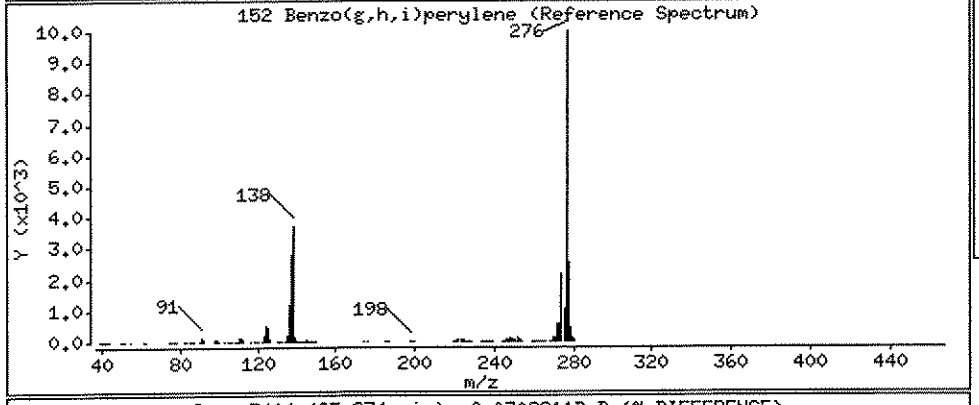
Volume Injected (uL): 0.5 Operator: SDB

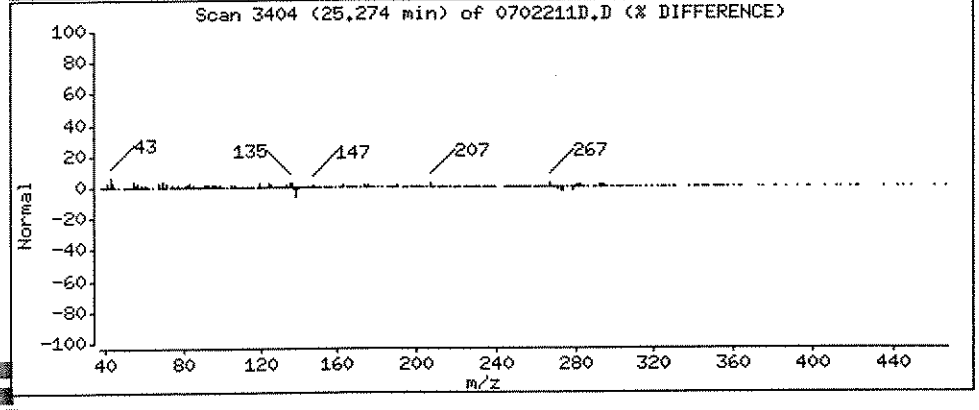
Column phase: fused silica Column diameter: 0.25

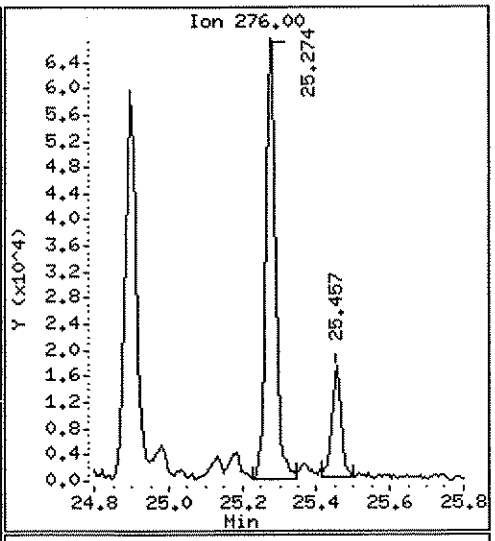
152 Benzo(g,h,i)perylene Concentration: 958.6 UG/KG

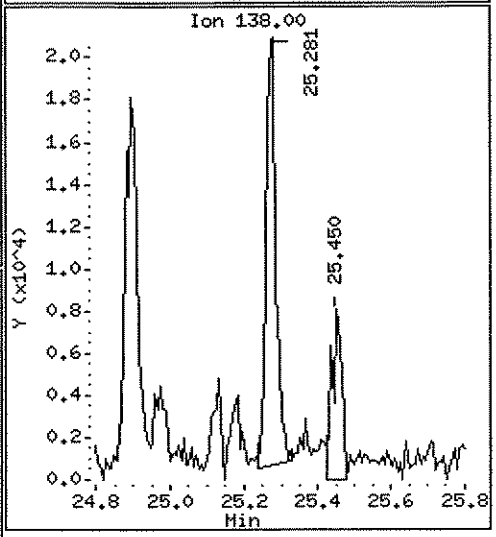












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FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF1: CAL001 RF2: APPC002 RF5: APPC005
RF10: APPC010 RF20: APPC020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Acenaphthene	1.196	1.253	1.229	1.193	1.233
Acenaphthylene	1.804	1.774	1.835	1.768	1.809
Anthracene	1.183	1.234	1.170	1.184	1.156
Benzo(a)anthracene	1.257	1.305	1.241	1.252	1.336
Benzo(b)fluoranthene	0.944	1.163	1.087	1.164	1.274
Benzo(k)fluoranthene	1.126	1.208	1.248	1.345	1.325
Benzo(g,h,i)perylene	0.758	0.895	0.887	0.905	1.029
Benzo(a)pyrene	0.826	0.928	0.974	1.022	1.117
Chrysene	1.056	1.160	1.158	1.178	1.230
Dibenz(a,h)anthracene	0.523	0.636	0.650	0.694	0.833
Fluoranthene	1.064	1.157	1.166	1.162	1.188
Fluorene	1.281	1.282	1.282	1.271	1.326
Indeno(1,2,3-cd)pyrene	0.466	0.654	0.650	0.683	0.873
2-Methylnaphthalene	0.587	0.678	0.578	0.610	0.624
1-Methylnaphthalene			0.609	0.582	0.545
Naphthalene	1.093	1.128	1.088	1.086	1.091
Phenanthrene	1.199	1.198	1.174	1.162	1.186
Pyrene	1.616	1.642	1.613	1.577	1.707
Nitrobenzene-d5	0.376	0.396	0.412	0.440	0.474
2-Fluorobiphenyl	1.394	1.388	1.399	1.321	1.365
Terphenyl-d14	0.985	0.980	1.003	1.001	1.081

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF30: APPC030 RF40: APPC050 RF50: APPC050
RF60: CALB060 RF70: APPC070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Acenaphthene	1.178	1.167	1.117	1.124	1.119
Acenaphthylene	1.704	1.701	1.598	1.634	1.605
Anthracene	1.133	1.125	1.104	1.096	1.070
Benzo(a)anthracene	1.288	1.302	1.360	1.285	1.306
Benzo(b)fluoranthene	1.270	1.285	1.214	1.232	1.322
Benzo(k)fluoranthene	1.282	1.310	1.185	1.291	1.355
Benzo(g,h,i)perylene	1.036	0.970	0.952	1.021	0.947
Benzo(a)pyrene	1.099	1.132	1.084	1.109	1.134
Chrysene	1.183	1.206	1.204	1.192	1.204
Dibenz(a,h)anthracene	0.885	0.891	0.850	0.934	0.878
Fluoranthene	1.139	1.148	1.124	1.147	1.106
Fluorene	1.278	1.256	1.222	1.232	1.183
Indeno(1,2,3-cd)pyrene	0.871	0.885	0.888	0.959	0.884
2-Methylnaphthalene	0.592	0.620	0.507	0.560	0.508
1-Methylnaphthalene	0.508		0.494		0.473
Naphthalene	1.018	1.044	0.881	0.957	0.921
Phenanthrene	1.156	1.162	1.092	1.110	1.110
Pyrene	1.601	1.589	1.560	1.485	1.694
Nitrobenzene-d5	0.458	0.474	0.417	0.456	0.443
2-Fluorobiphenyl	1.282	1.292	1.225	1.202	1.211
Terphenyl-d14	1.005	1.010	1.049	0.974	1.072

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF80: CALB080 RF90: CALB090 RF100: APPC100

COMPOUND	RF80	RF90	RF100
Acenaphthene	1.087	1.081	1.032
Acenaphthylene	1.566	1.566	1.500
Anthracene	1.071	1.052	1.059
Benzo(a)anthracene	1.280	1.260	1.282
Benzo(b)fluoranthene	1.341	1.326	1.396
Benzo(k)fluoranthene	1.363	1.364	1.218
Benzo(g,h,i)perylene	1.002	0.979	0.847
Benzo(a)pyrene	1.129	1.137	1.120
Chrysene	1.161	1.192	1.177
Dibenz(a,h)anthracene	0.940	0.953	0.893
Fluoranthene	1.095	1.074	1.110
Fluorene	1.160	1.137	1.139
Indeno(1,2,3-cd)pyrene	0.918	0.934	0.881
2-Methylnaphthalene	0.531	0.523	0.512
1-Methylnaphthalene			0.480
Naphthalene	0.905	0.883	0.833
Phenanthrene	1.102	1.081	1.094
Pyrene	1.624	1.609	1.450
Nitrobenzene-d5	0.449	0.439	0.443
2-Fluorobiphenyl	1.194	1.159	1.116
Terphenyl-d14	1.020	1.027	0.923

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.15441750	5.8
Acenaphthylene	AVRG		1.68179764	6.6
Anthracene	AVRG		1.12596159	5.0
Benzo(a)anthracene	AVRG		1.28880384	2.6
Benzo(b)fluoranthene	AVRG		1.23217359	9.8
Benzo(k)fluoranthene	AVRG		1.27838553	5.9
Benzo(g,h,i)perylene	AVRG		0.94072987	8.6
Benzo(a)pyrene	AVRG		1.06250762	9.2
Chrysene	AVRG		1.17713137	3.6
Dibenz(a,h)anthracene	LINR	0.00000000	0.91260774	0.996
Fluoranthene	AVRG		1.12912755	3.3
Fluorene	AVRG		1.23471408	5.0
Indeno(1,2,3-cd)pyrene	LINR	0.00000000	0.90651411	0.997
2-Methylnaphthalene	AVRG		0.57146291	9.4
1-Methylnaphthalene	AVRG		0.52716190	10.0
Naphthalene	AVRG		0.99452189	10.2
Phenanthrene	AVRG		1.14048637	3.8
Pyrene	AVRG		1.59746090	4.5
Nitrobenzene-d5	AVRG		0.43665056	6.7
2-Fluorobiphenyl	AVRG		1.27292566	7.5
Terphenyl-d14	AVRG		1.01005240	4.2

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
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Inj Date : 07-FEB-2006 10:38
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A002PPM;;;;;SV3382-2
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
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Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.940	4.940	(1.000)	520910	40.0000	
7	Pentachloroethane	167	4.722	4.722	(0.956)	16410	2.00000	2.378(a)
29	o-Toluidine	106	5.330	5.330	(1.079)	62008	2.00000	2.394(a)
* 31	Naphthalene-d8	136	6.160	6.160	(1.000)	1535824	40.0000	
52	1-Methylnaphthalene	141	7.293	7.293	(1.184)	58936	2.00000	2.814(a)
57	Hexachloropropene	213	6.329	6.329	(1.027)	16619	2.00000	2.125(a)
63	1,2,4,5-Tetrachlorobenzene	216	7.457	7.457	(1.211)	34491	2.00000	2.932(a)
* 65	Acenaphthene-d10	164	9.097	9.097	(1.000)	824732	40.0000	
88	m-Dinitrobenzene	168	8.692	8.692	(0.955)	6355	2.00000	1.355(aM)
89	Pentachlorobenzene	250	9.572	9.572	(1.052)	27399	2.00000	2.625(a)
93	5-Nitro-o-toluidine	152	10.484	10.484	(1.152)	11270	2.00000	1.602(a)
* 98	Phenanthrene-d10	188	12.719	12.719	(1.000)	1103815	40.0000	
113	sym-Trinitrobenzene	75	11.566	11.566	(0.909)	3160	2.00000	0.5567(aM)
115	4-Aminobiphenyl	169	12.343	12.343	(0.970)	40435	2.00000	1.796(a)

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.671	12.671	(0.996)	5296	2.00000	1.704(aM)
* 127 Chrysene-d12	240	20.348	20.348	(1.000)	770739	40.0000	
140 2-Acetylaminofluorene	181	19.653	19.653	(0.966)	17202	2.00000	1.730(a)
145 Isodrin	193	15.752	15.752	(0.774)	11921	2.00000	2.487(a)
146 Kepone	272	18.744	18.744	(0.921)	5467	2.00000	1.567(aM)
* 149 Perylene-d12	264	24.578	24.578	(1.000)	664886	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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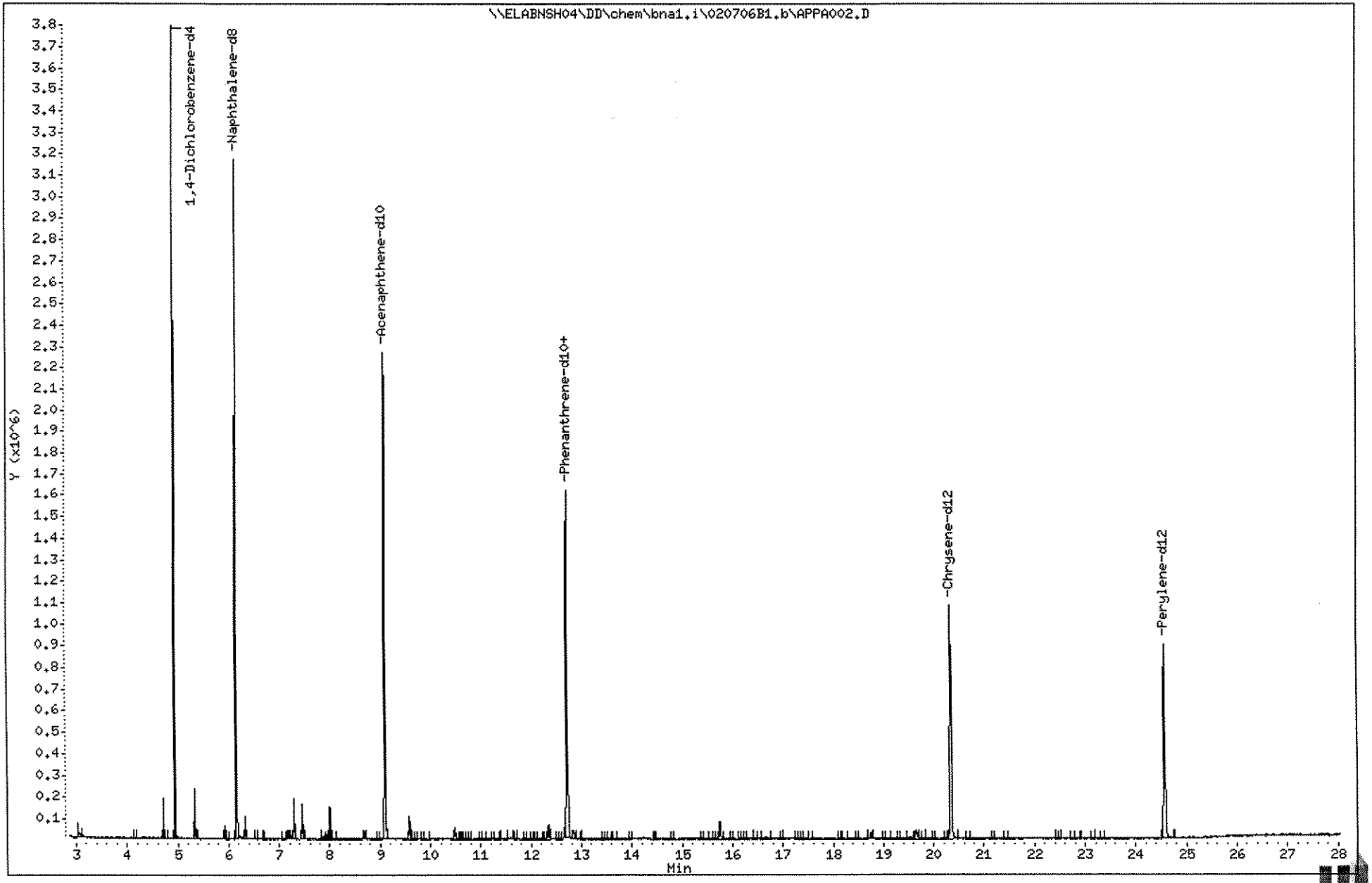
Date : 07-FEB-2006 10:38
Client ID: APP9A002PPM
Instrument: bna1.i
Sample Info: APP9A002PPM;;;;;SV3382-2
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

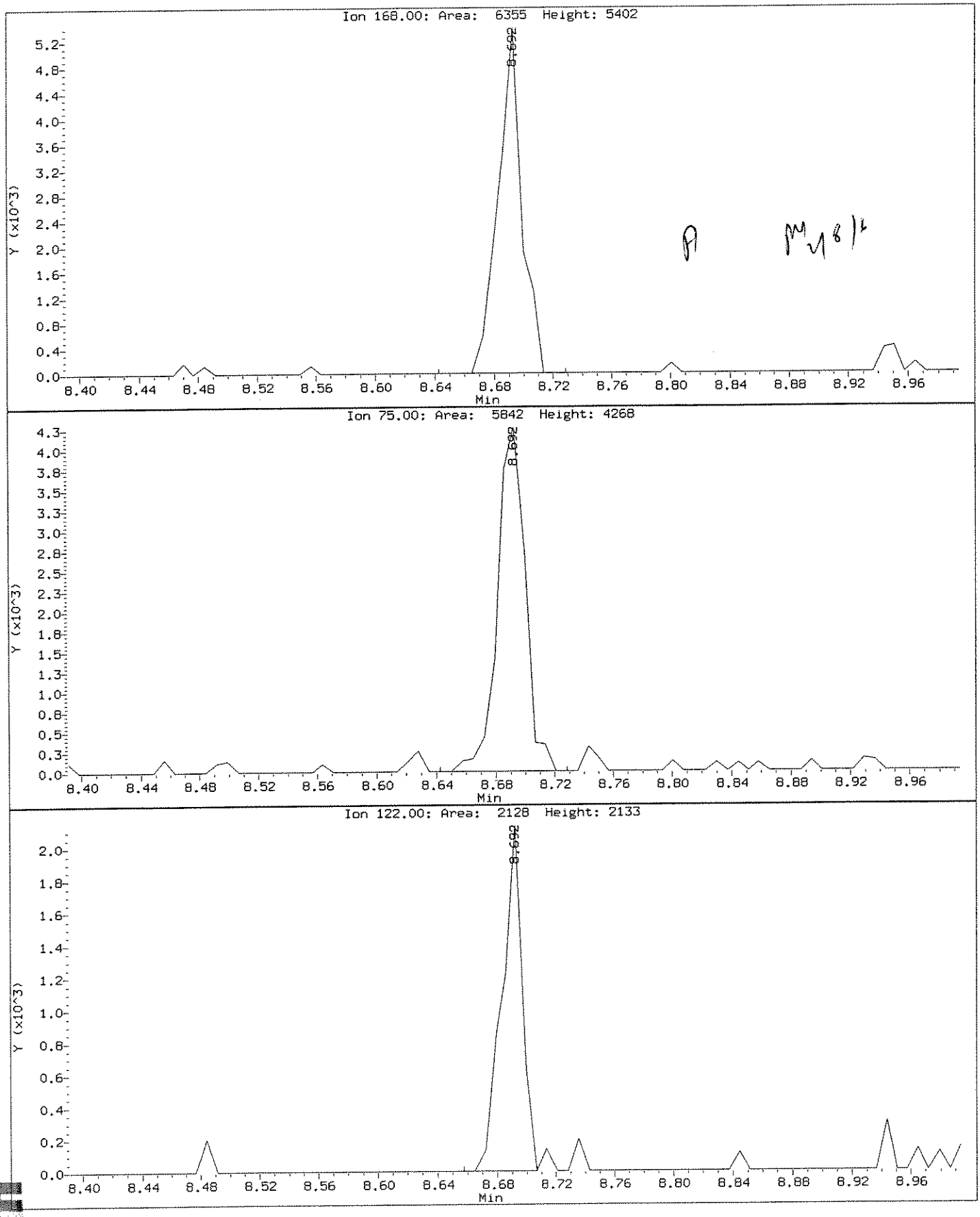
000339



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA002.D
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: m-Dinitrobenzene
CAS Number: 99-65-0



Empirical Laboratories

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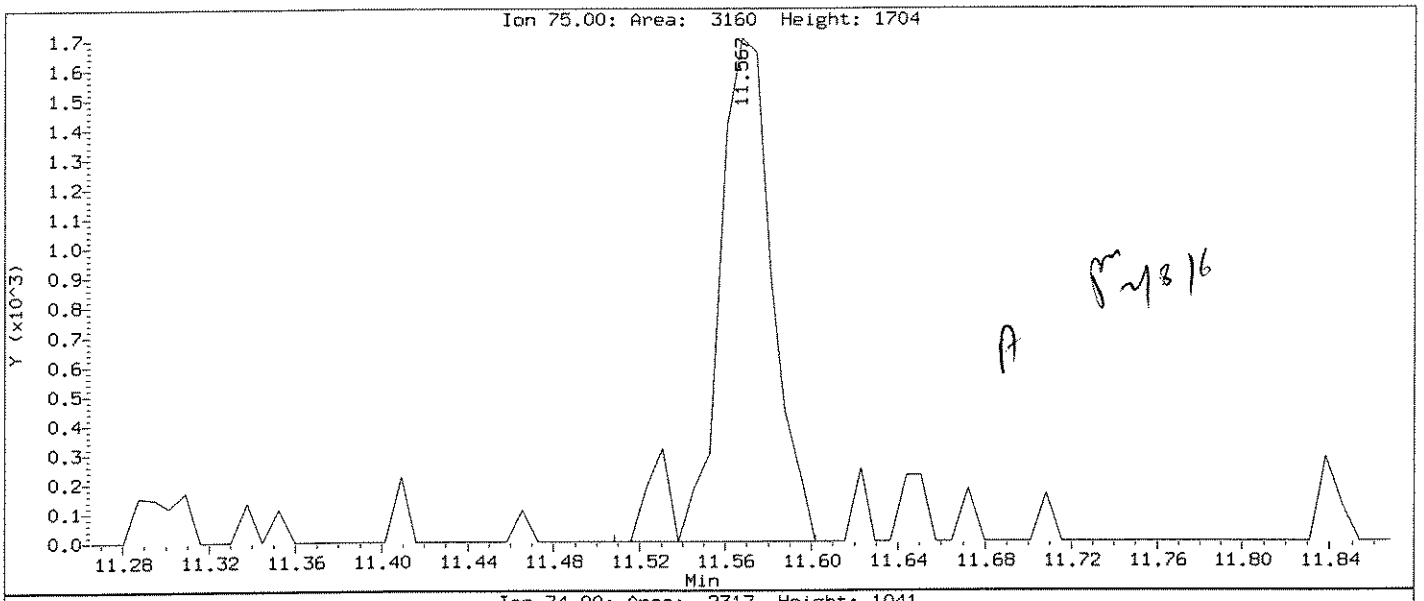
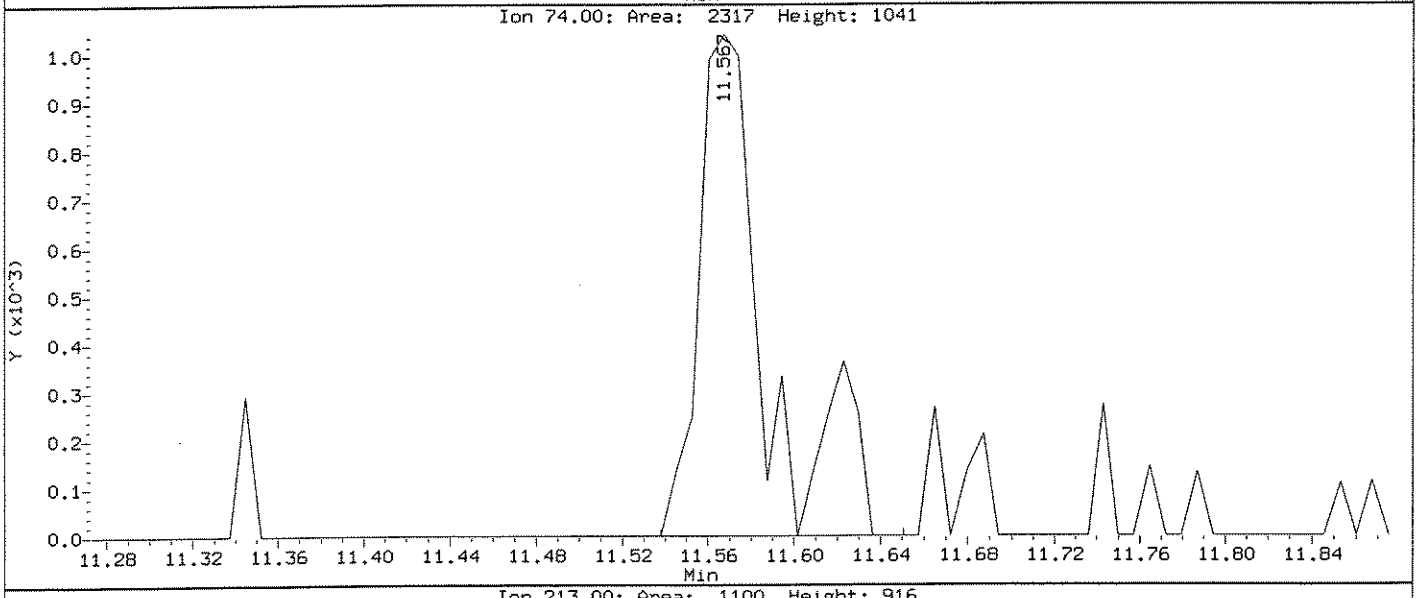
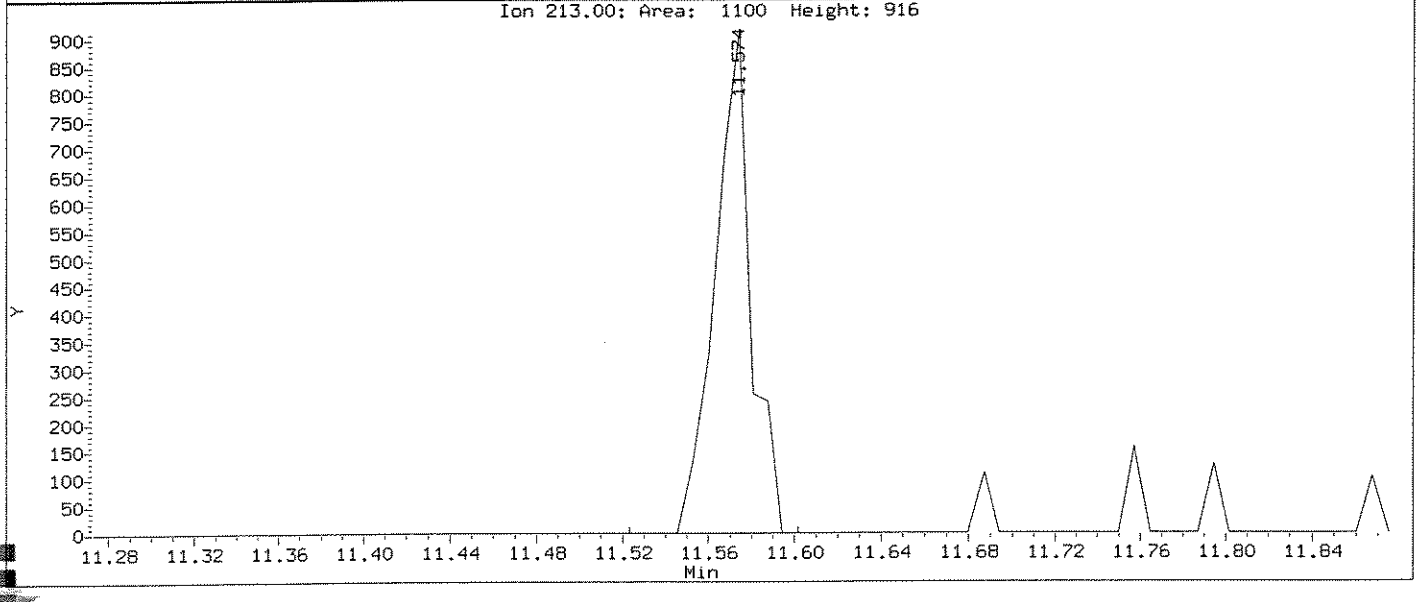
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: sym-Trinitrobenzene
CAS Number: 99-35-4







Empirical Laboratories

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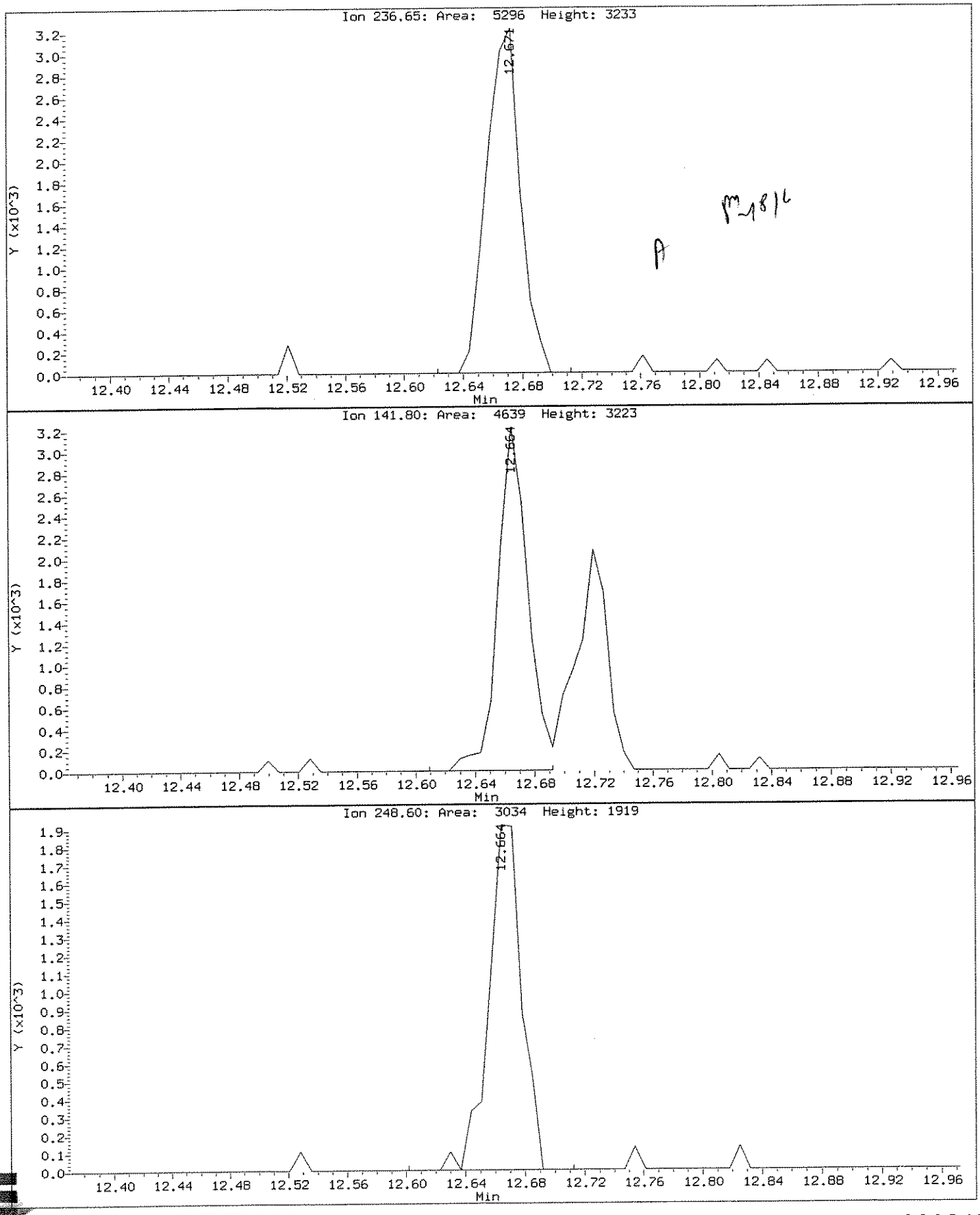
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: Pentachloronitrobenzene
CAS Number: 82-68-8



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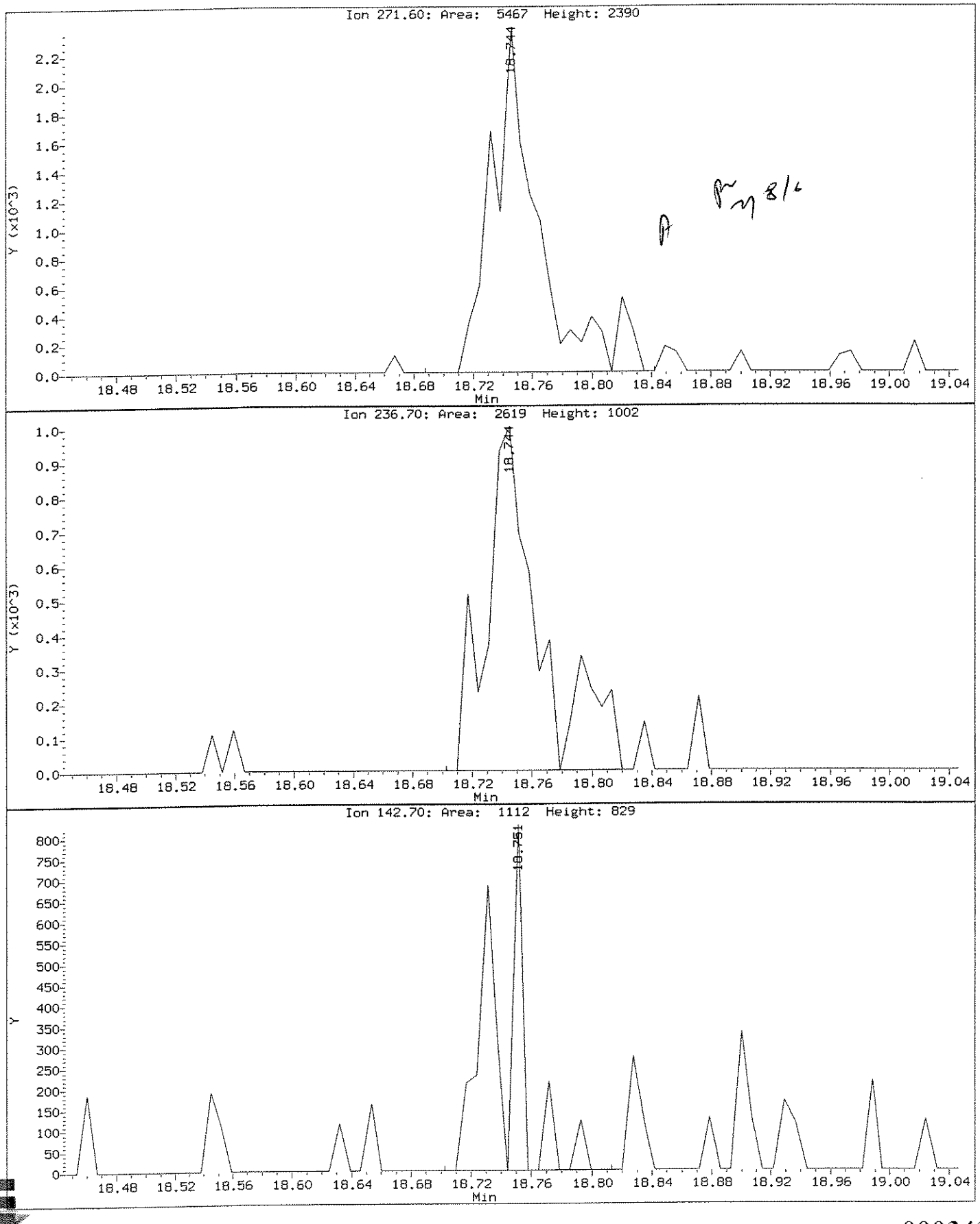
Injection Date: 07-FEB-2006 10:38
Instrument: bna1.i
Client Sample ID: APP9A002PPM

Compound: Kepone
CAS Number: 143-50-0



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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Lab Smp Id: APP9A005PPM Client Smp ID: APP9A005PPM
Inj Date : 07-FEB-2006 11:13
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A005PPM;;;;;SV3382-3
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	507102	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.956)	36214	5.00000	5.390
	29 o-Toluidine	106	5.332	5.332	(1.080)	145788	5.00000	5.782
*	31 Naphthalene-d8	136	6.160	6.160	(1.000)	1540353	40.0000	
	52 1-Methylnaphthalene	141	7.289	7.289	(1.183)	123777	5.00000	5.892
	57 Hexachloropropene	213	6.327	6.327	(1.027)	41819	5.00000	5.331
	63 1,2,4,5-Tetrachlorobenzene	216	7.461	7.461	(1.211)	70907	5.00000	6.009
*	65 Acenaphthene-d10	164	9.101	9.101	(1.000)	793700	40.0000	
	88 m-Dinitrobenzene	168	8.687	8.687	(0.955)	13955	5.00000	3.091(a)
	89 Pentachlorobenzene	250	9.572	9.572	(1.052)	54551	5.00000	5.431
	93 5-Nitro-o-toluidine	152	10.482	10.482	(1.152)	30465	5.00000	4.501(a)
*	98 Phenanthrene-d10	188	12.720	12.720	(1.000)	1054689	40.0000	
	113 sym-Trinitrobenzene	75	11.569	11.569	(0.909)	10062	5.00000	1.850(a)
	115 4-Aminobiphenyl	169	12.339	12.339	(0.970)	105184	5.00000	4.890(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Report Date: 08-Feb-2006 09:19

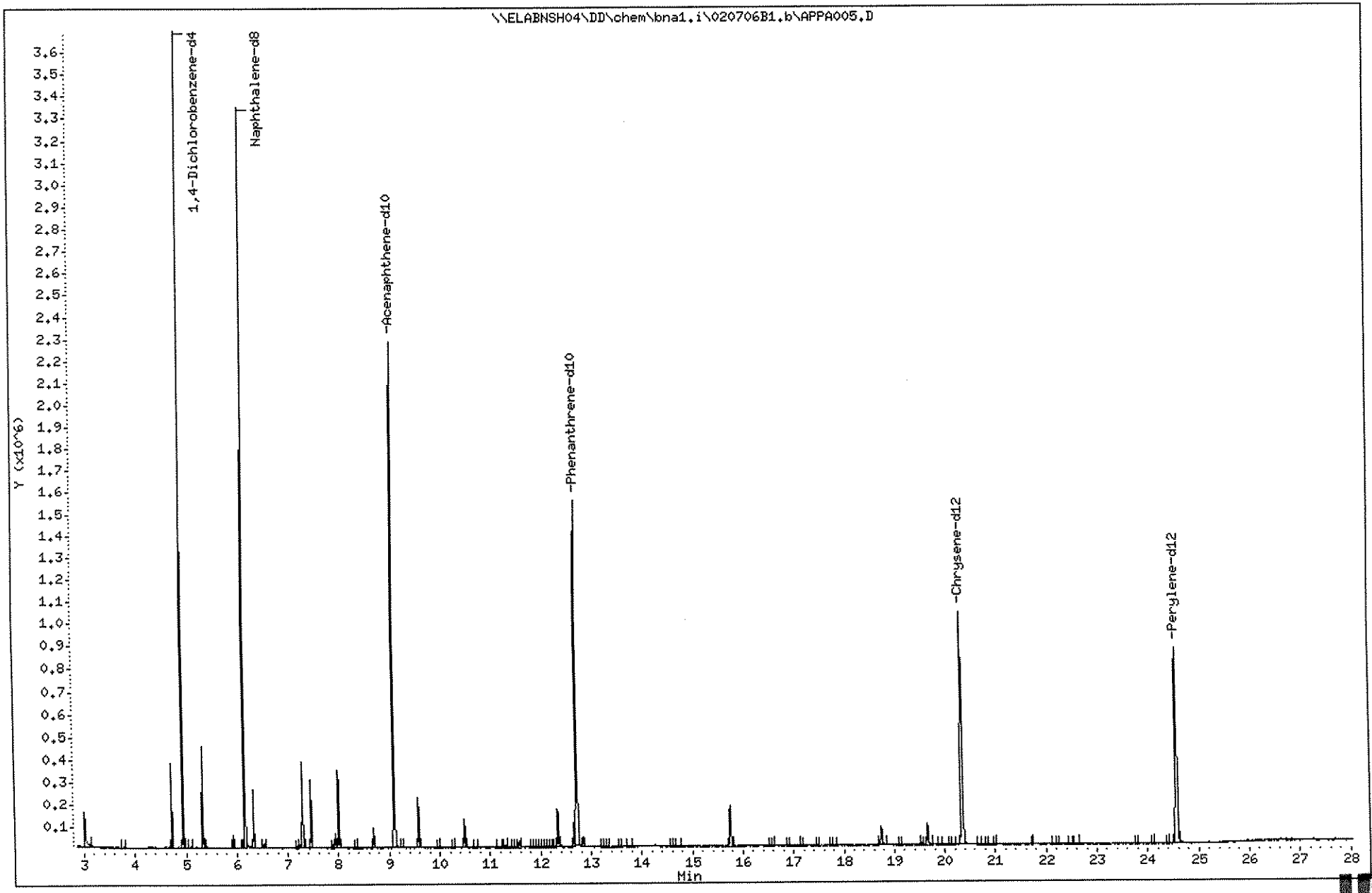
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.672	12.672	(0.996)	13772	5.00000	4.639(a)
* 127 Chrysene-d12	240	20.351	20.351	(1.000)	753846	40.0000	
140 2-Acetylaminofluorene	181	19.657	19.657	(0.966)	41747	5.00000	4.294(a)
145 Isodrin	193	15.757	15.757	(0.774)	25050	5.00000	5.343
146 Kepone	272	18.744	18.744	(0.921)	15117	5.00000	4.429(aM)
* 149 Perylene-d12	264	24.574	24.574	(1.000)	646136	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA005.D
Date : 07-FEB-2006 11:13
Client ID: APP9A005PPM
Instrument: bna1.i
Sample Info: APP9A005PPM;;;;;SV3382-3
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000346



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Report Date: 08-Feb-2006 09:19

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Lab Smp Id: APP9A010PPM Client Smp ID: APP9A010PPM
Inj Date : 07-FEB-2006 11:49
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A010PPM;;;;;SV3382-4
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	511044	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.956)	70329	10.0000	10.39
	29 o-Toluidine	106	5.328	5.328	(1.079)	262563	10.0000	10.33
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1540265	40.0000	
	52 1-Methylnaphthalene	141	7.294	7.294	(1.184)	224105	10.0000	10.67
	57 Hexachloropropene	213	6.323	6.323	(1.027)	74519	10.0000	9.501
	63 1,2,4,5-Tetrachlorobenzene	216	7.456	7.456	(1.211)	128196	10.0000	10.86
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	758989	40.0000	
	88 m-Dinitrobenzene	168	8.693	8.693	(0.955)	33958	10.0000	7.866
	89 Pentachlorobenzene	250	9.580	9.580	(1.052)	93811	10.0000	9.768
	93 5-Nitro-o-toluidine	152	10.488	10.488	(1.152)	61845	10.0000	9.555
*	98 Phenanthrene-d10	188	12.722	12.722	(1.000)	984761	40.0000	
	113 sym-Trinitrobenzene	75	11.575	11.575	(0.910)	24670	10.0000	4.830(a)
	115 4-Aminobiphenyl	169	12.340	12.340	(0.970)	194353	10.0000	9.677

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Report Date: 08-Feb-2006 09:19

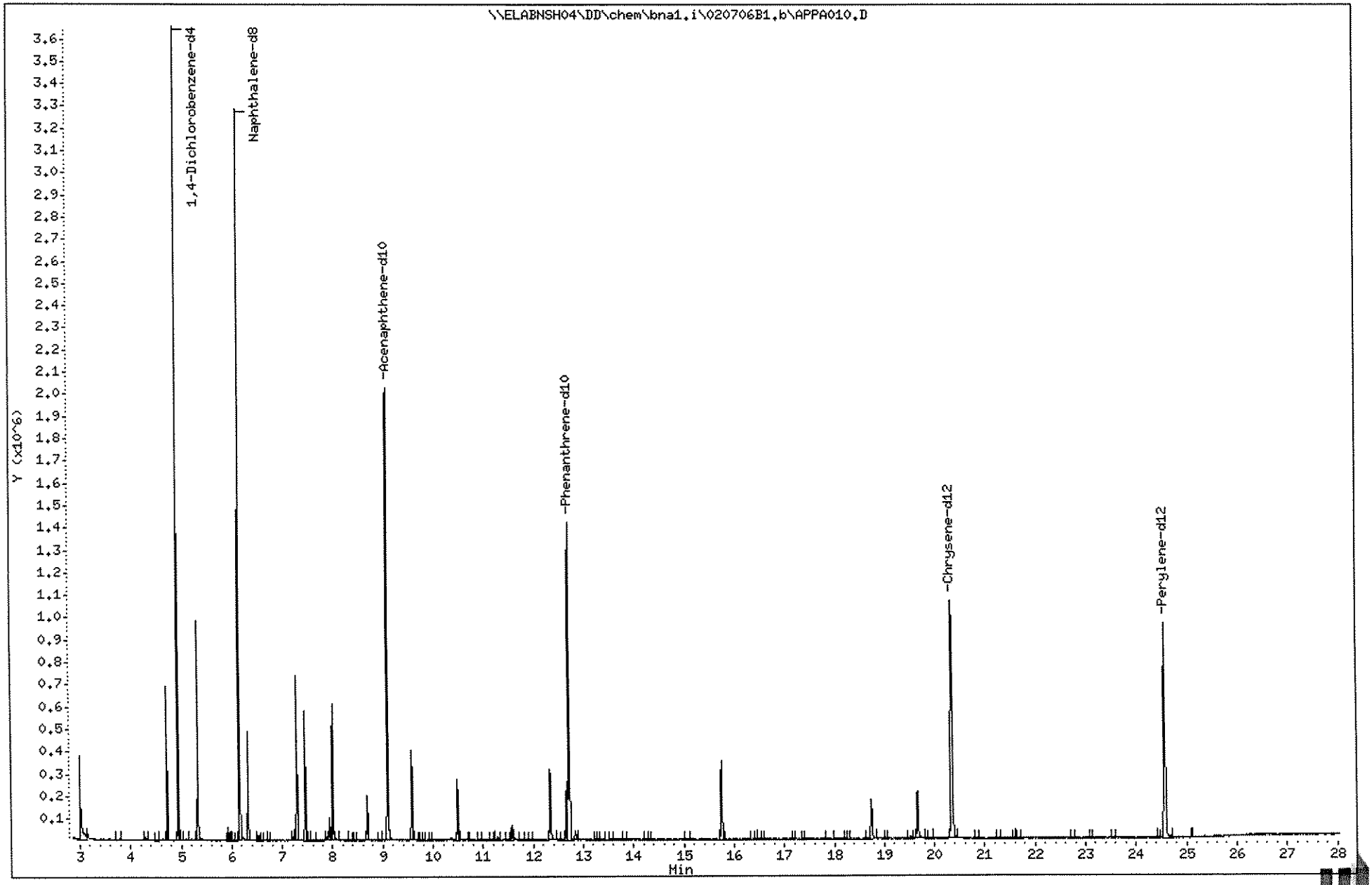
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.674	12.674	(0.996)	27653	10.0000	9.976
* 127 Chrysene-d12	240	20.352	20.352	(1.000)	750160	40.0000	
140 2-Acetylaminofluorene	181	19.663	19.663	(0.966)	99107	10.0000	10.24
145 Isodrin	193	15.752	15.752	(0.774)	44295	10.0000	9.494
146 Kepone	272	18.740	18.740	(0.921)	29279	10.0000	8.620
* 149 Perylene-d12	264	24.578	24.578	(1.000)	706107	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA010.D
Date : 07-FEB-2006 11:49
Client ID: APP9A010PPM
Instrument: bna1.i
Sample Info: APP9A010PPM;;;;;SV3382-4
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000349



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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Lab Smp Id: APP9A020PPM Client Smp ID: APP9A020PPM
Inj Date : 07-FEB-2006 12:25
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A020PPM;;;;;SV3382-5
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.939	4.939	(1.000)	492369	40.0000	
	7 Pentachloroethane	167	4.724	4.724	(0.956)	128799	20.0000	19.74
	29 o-Toluidine	106	5.331	5.331	(1.079)	502503	20.0000	20.53
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1497635	40.0000	
	52 1-Methylnaphthalene	141	7.292	7.292	(1.184)	416272	20.0000	20.38
	57 Hexachloropropene	213	6.324	6.324	(1.027)	145729	20.0000	19.11
	63 1,2,4,5-Tetrachlorobenzene	216	7.463	7.463	(1.212)	235121	20.0000	20.49
*	65 Acenaphthene-d10	164	9.098	9.098	(1.000)	746662	40.0000	
	88 m-Dinitrobenzene	168	8.696	8.696	(0.956)	72630	20.0000	17.10
	89 Pentachlorobenzene	250	9.583	9.583	(1.053)	181657	20.0000	19.23
	93 5-Nitro-o-toluidine	152	10.494	10.494	(1.153)	128444	20.0000	20.17
*	98 Phenanthrene-d10	188	12.729	12.729	(1.000)	944730	40.0000	
	113 sym-Trinitrobenzene	75	11.578	11.578	(0.910)	69375	20.0000	13.89
	115 4-Aminobiphenyl	169	12.350	12.350	(0.970)	390691	20.0000	20.28

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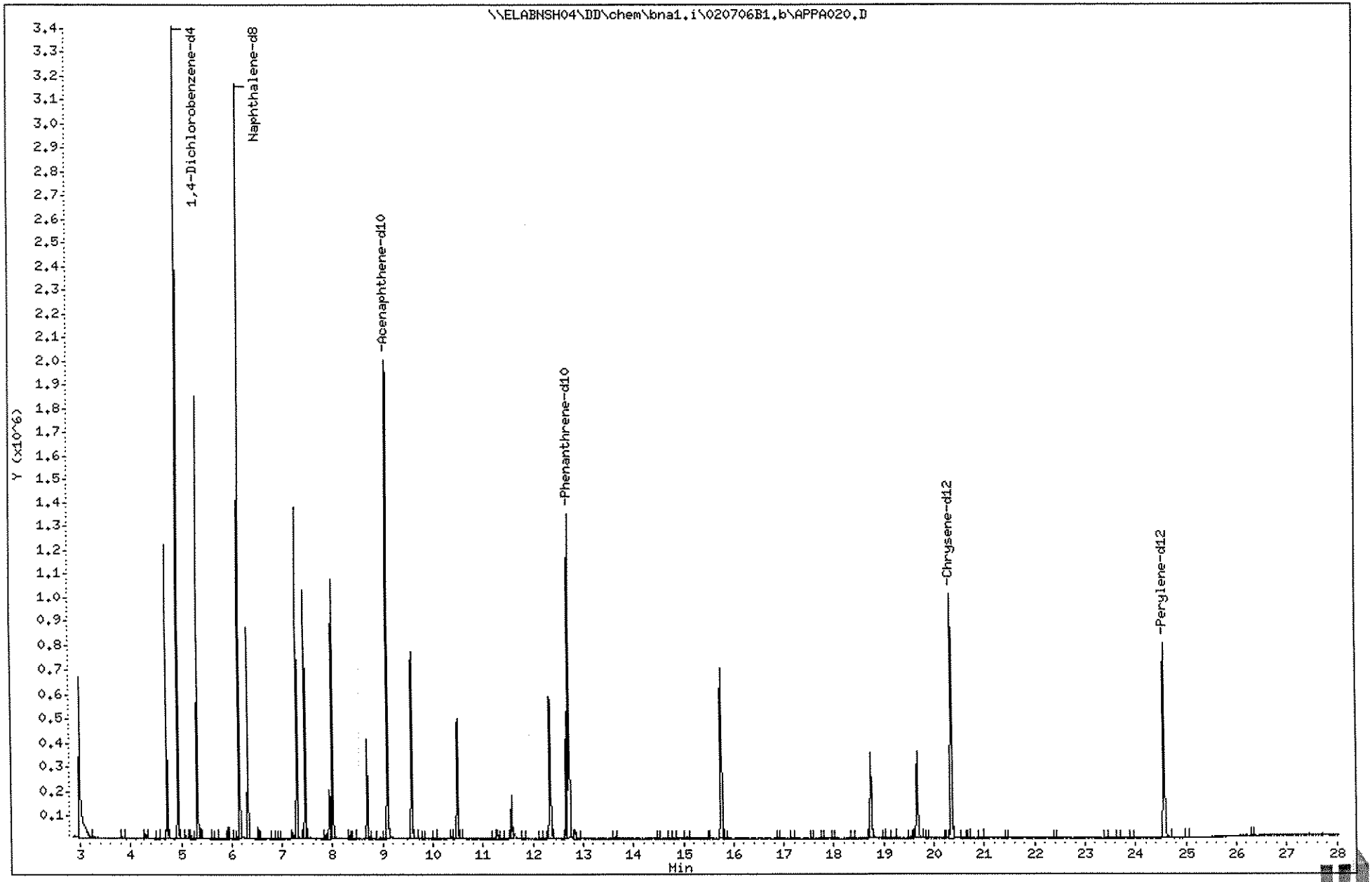
Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.674	12.674	(0.996)	55592	20.0000	20.90
* 127 Chrysene-d12	240	20.355	20.355	(1.000)	686461	40.0000	
140 2-Acetylaminofluorene	181	19.670	19.670	(0.966)	165615	20.0000	18.70
145 Isodrin	193	15.755	15.755	(0.774)	91774	20.0000	21.50
146 Kepone	272	18.743	18.743	(0.921)	66452	20.0000	21.38
* 149 Perylene-d12	264	24.571	24.571	(1.000)	565391	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA020.D
Date : 07-FEB-2006 12:25
Client ID: APP9A020PPM
Instrument: bna1.i
Sample Info: APP9A020PPM;;;;;SV3382-5
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000352



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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Report Date: 08-Feb-2006 09:19

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Lab Smp Id: APP9A030PPM Client Smp ID: APP9A030PPM
Inj Date : 07-FEB-2006 13:01
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A030PPM;;;;;SV3382-6
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.942	4.942	(1.000)	490862	40.0000	
	7 Pentachloroethane	167	4.727	4.727	(0.957)	188672	30.0000	29.01
	29 o-Toluidine	106	5.329	5.329	(1.078)	722006	30.0000	29.58
*	31 Naphthalene-d8	136	6.160	6.160	(1.000)	1434840	40.0000	
	52 1-Methylnaphthalene	141	7.294	7.294	(1.184)	616755	30.0000	31.52
	57 Hexachloropropene	213	6.327	6.327	(1.027)	223716	30.0000	30.62
	63 1,2,4,5-Tetrachlorobenzene	216	7.462	7.462	(1.211)	336233	30.0000	30.59
*	65 Acenaphthene-d10	164	9.098	9.098	(1.000)	739268	40.0000	
	88 m-Dinitrobenzene	168	8.694	8.694	(0.956)	121920	30.0000	29.00
	89 Pentachlorobenzene	250	9.584	9.584	(1.053)	263212	30.0000	28.14
	93 5-Nitro-o-toluidine	152	10.497	10.497	(1.154)	196341	30.0000	31.14
*	98 Phenanthrene-d10	188	12.725	12.725	(1.000)	947876	40.0000	
	113 sym-Trinitrobenzene	75	11.579	11.579	(0.910)	143048	30.0000	27.66
	115 4-Aminobiphenyl	169	12.348	12.348	(0.970)	601294	30.0000	31.10

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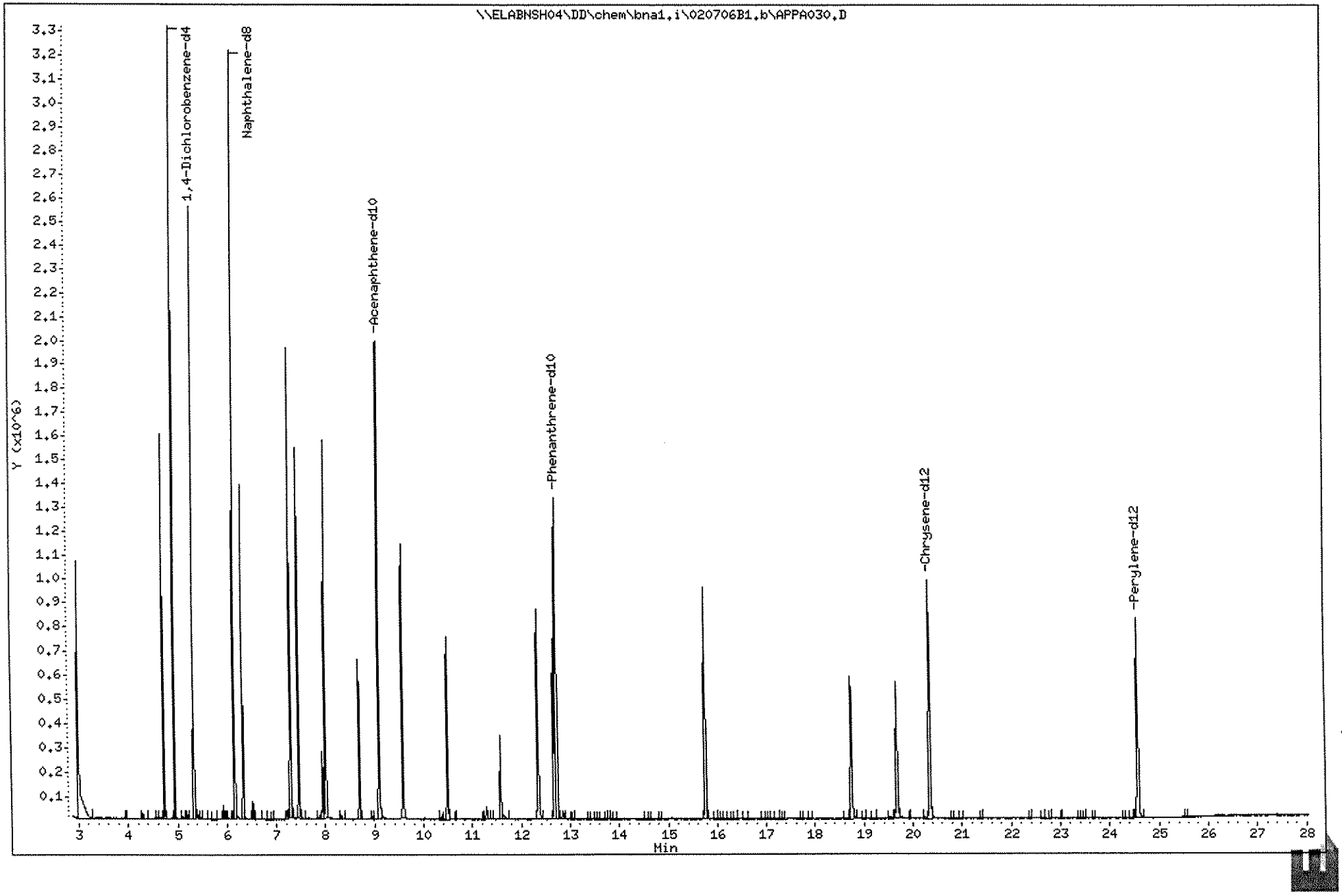
Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.677	12.677	(0.996)	87223	30.0000	32.69
* 127 Chrysene-d12	240	20.350	20.350	(1.000)	695222	40.0000	
140 2-Acetylaminofluorene	181	19.672	19.672	(0.967)	269029	30.0000	30.00
145 Isodrin	193	15.756	15.756	(0.774)	126186	30.0000	29.18
146 Kepone	272	18.744	18.744	(0.921)	106169	30.0000	33.73
* 149 Perylene-d12	264	24.577	24.577	(1.000)	605787	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA030.D
Date : 07-FEB-2006 13:01
Client ID: APP9A030PPM
Instrument: bna1.i
Sample Info: APP9A030PPM;;;;;SV3382-6
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000355



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Report Date: 08-Feb-2006 09:19

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
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Inj Date : 07-FEB-2006 13:37
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A050PPM;;;;;SV3382-8
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.941	4.941	(1.000)	499533	40.0000	
	7 Pentachloroethane	167	4.726	4.726	(0.957)	307062	50.0000	46.40
	29 o-Toluidine	106	5.334	5.334	(1.080)	1169767	50.0000	47.10
*	31 Naphthalene-d8	136	6.159	6.159	(1.000)	1565191	40.0000	
	52 1-Methylnaphthalene	141	7.303	7.303	(1.186)	1002462	50.0000	46.96
	57 Hexachloropropene	213	6.328	6.328	(1.028)	397768	50.0000	49.90
	63 1,2,4,5-Tetrachlorobenzene	216	7.465	7.465	(1.212)	551878	50.0000	46.03
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	777606	40.0000	
	88 m-Dinitrobenzene	168	8.700	8.700	(0.956)	228417	50.0000	51.65
	89 Pentachlorobenzene	250	9.586	9.586	(1.053)	455700	50.0000	46.31
	93 5-Nitro-o-toluidine	152	10.507	10.507	(1.154)	375563	50.0000	56.64
*	98 Phenanthrene-d10	188	12.737	12.737	(1.000)	1040888	40.0000	
	113 sym-Trinitrobenzene	75	11.593	11.593	(0.910)	324194	50.0000	53.33
	115 4-Aminobiphenyl	169	12.356	12.356	(0.970)	1133830	50.0000	53.41

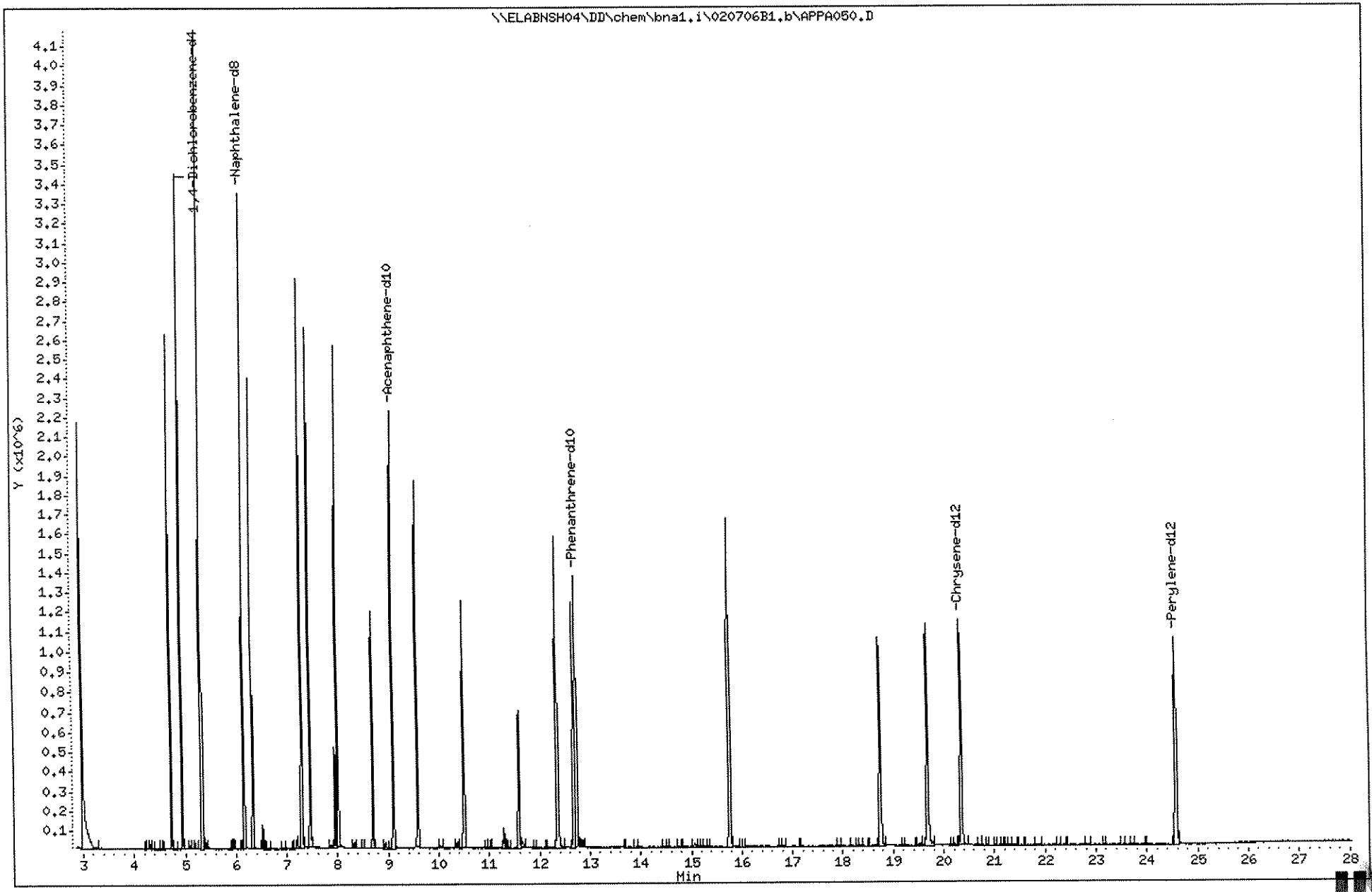
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.682	12.682	(0.996)	150279	50.0000	51.29
* 127 Chrysene-d12	240	20.358	20.358	(1.000)	814256	40.0000	
140 2-Acetylaminofluorene	181	19.694	19.694	(0.967)	607148	50.0000	57.81
145 Isodrin	193	15.761	15.761	(0.774)	226030	50.0000	44.63
146 Kepone	272	18.744	18.744	(0.921)	194790	50.0000	52.84
* 149 Perylene-d12	264	24.581	24.581	(1.000)	769226	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA050.D
Date : 07-FEB-2006 13:37
Client ID: APP9A050PPM
Instrument: bna1.i
Sample Info: APP9A050PPM;;;;;SV3382-8
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000358



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Report Date: 08-Feb-2006 09:19

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Lab Smp Id: APP9A070PPM Client Smp ID: APP9A070PPM
Inj Date : 07-FEB-2006 14:13
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A070PPM;;;;;SV3382-10
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	457289	40.0000	
7	Pentachloroethane	167	4.726	4.726	(0.957)	385219	70.0000	63.59
29	o-Toluidine	106	5.334	5.334	(1.080)	1360728	70.0000	59.85
* 31	Naphthalene-d8	136	6.156	6.156	(1.000)	1418853	40.0000	
52	1-Methylnaphthalene	141	7.300	7.300	(1.186)	1186244	70.0000	61.30
57	Hexachloropropene	213	6.333	6.333	(1.029)	491944	70.0000	68.09
63	1,2,4,5-Tetrachlorobenzene	216	7.467	7.467	(1.213)	670213	70.0000	61.66
* 65	Acenaphthene-d10	164	9.104	9.104	(1.000)	687129	40.0000	
88	m-Dinitrobenzene	168	8.707	8.707	(0.956)	267302	70.0000	68.40
89	Pentachlorobenzene	250	9.587	9.587	(1.053)	554506	70.0000	63.77
93	5-Nitro-o-toluidine	152	10.518	10.518	(1.155)	455423	70.0000	77.72
* 98	Phenanthrene-d10	188	12.740	12.740	(1.000)	922768	40.0000	
113	sym-Trinitrobenzene	75	11.591	11.591	(0.910)	410158	70.0000	71.65
115	4-Aminobiphenyl	169	12.365	12.365	(0.971)	1317169	70.0000	69.99

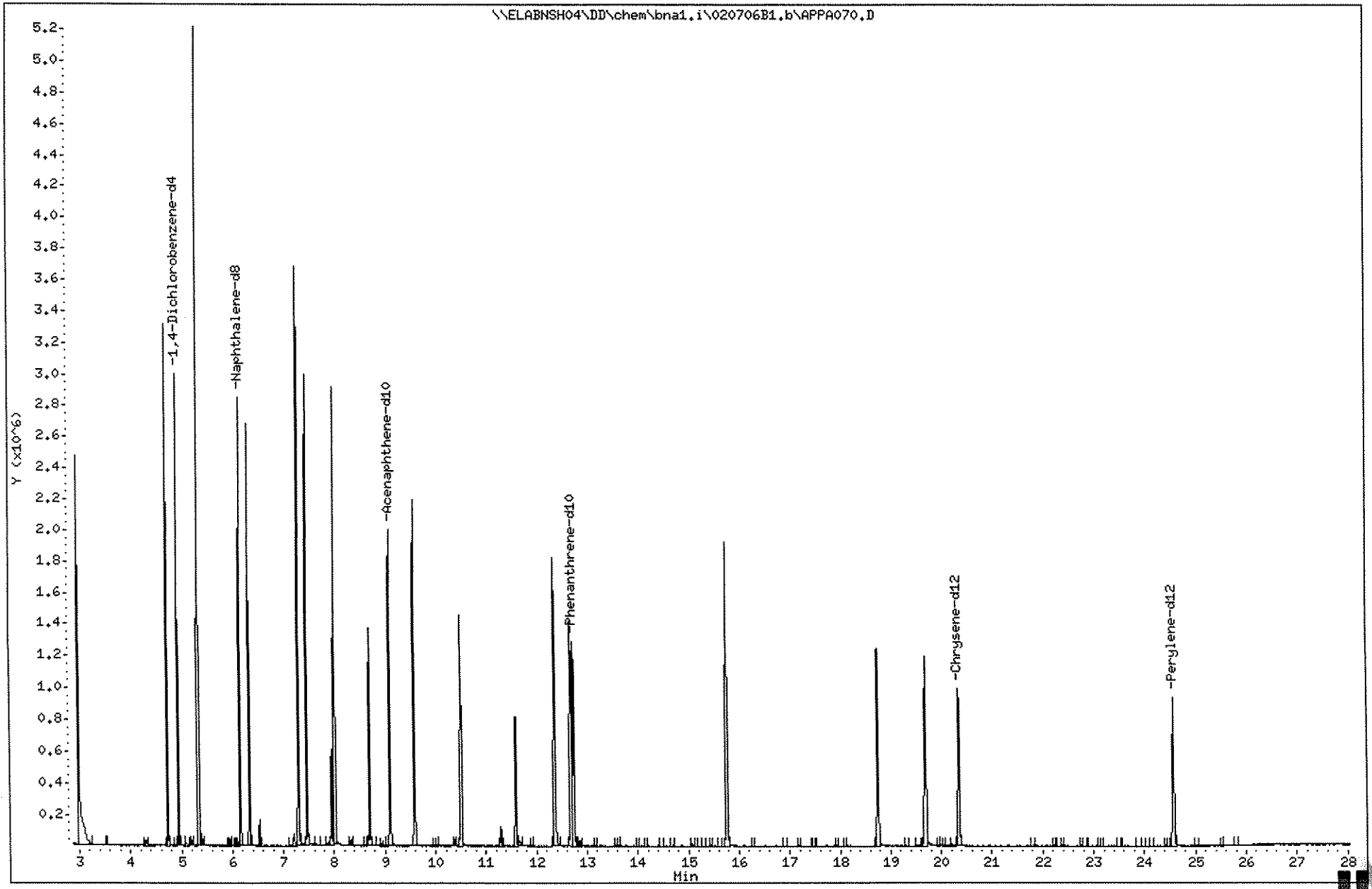
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Report Date: 08-Feb-2006 09:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.685	12.685	(0.996)	180195	70.0000	69.37
* 127 Chrysene-d12	240	20.356	20.356	(1.000)	702460	40.0000	
140 2-Acetylaminofluorene	181	19.696	19.696	(0.968)	683755	70.0000	75.47
145 Isodrin	193	15.767	15.767	(0.775)	272059	70.0000	62.27
146 Kepone	272	18.752	18.752	(0.921)	241191	70.0000	75.84
* 149 Perylene-d12	264	24.577	24.577	(1.000)	665008	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA070.D
Date : 07-FEB-2006 14:13
Client ID: APP9A070PPM
Instrument: bna1.i
Sample Info: APP9A070PPM;;;;;SV3382-10
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

000361



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Report Date: 08-Feb-2006 09:20

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Lab Smp Id: APP9A100PPM Client Smp ID: APP9A100PPM
Inj Date : 07-FEB-2006 14:49
Operator : sdb Inst ID: bna1.i
Smp Info : APP9A100PPM;;;;;SV3382-13
Misc Info : ;;;;;app9a.sub;SV3380
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.941	4.941	(1.000)	465394	40.0000	
	7 Pentachloroethane	167	4.720	4.720	(0.955)	556990	100.000	90.34
	29 o-Toluidine	106	5.339	5.339	(1.080)	1859824	100.000	80.37
*	31 Naphthalene-d8	136	6.158	6.158	(1.000)	1401462	40.0000	
	52 1-Methylnaphthalene	141	7.303	7.303	(1.186)	1663102	100.000	87.01
	57 Hexachloropropene	213	6.332	6.332	(1.028)	695408	100.000	97.44
	63 1,2,4,5-Tetrachlorobenzene	216	7.469	7.469	(1.213)	929660	100.000	86.59
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	688001	40.0000	
	88 m-Dinitrobenzene	168	8.711	8.711	(0.957)	396206	100.000	101.2(A)
	89 Pentachlorobenzene	250	9.595	9.595	(1.054)	772963	100.000	88.78
	93 5-Nitro-o-toluidine	152	10.526	10.526	(1.156)	617854	100.000	105.3(A)
*	98 Phenanthrene-d10	188	12.744	12.744	(1.000)	858148	40.0000	
	113 sym-Trinitrobenzene	75	11.604	11.604	(0.911)	595668	100.000	98.84
	115 4-Aminobiphenyl	169	12.368	12.368	(0.971)	1815589	100.000	103.7(A)

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Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Report Date: 08-Feb-2006 09:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
116 Pentachloronitrobenzene	237	12.688	12.688	(0.996)	258645	100.000	107.1(A)
* 127 Chrysene-d12	240	20.358	20.358	(1.000)	652024	40.0000	
140 2-Acetylaminofluorene	181	19.707	19.707	(0.968)	909991	100.000	108.2(A)
145 Isodrin	193	15.763	15.763	(0.774)	368611	100.000	90.90
146 Kepone	272	18.752	18.752	(0.921)	335159	100.000	113.5(A)
* 149 Perylene-d12	264	24.571	24.571	(1.000)	614384	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\APPA100.D
Date : 07-FEB-2006 14:49
Client ID: APP9A100PPM
Instrument: bna1.i
Sample Info: APP9A100PPM;;;;;SV3382-13
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

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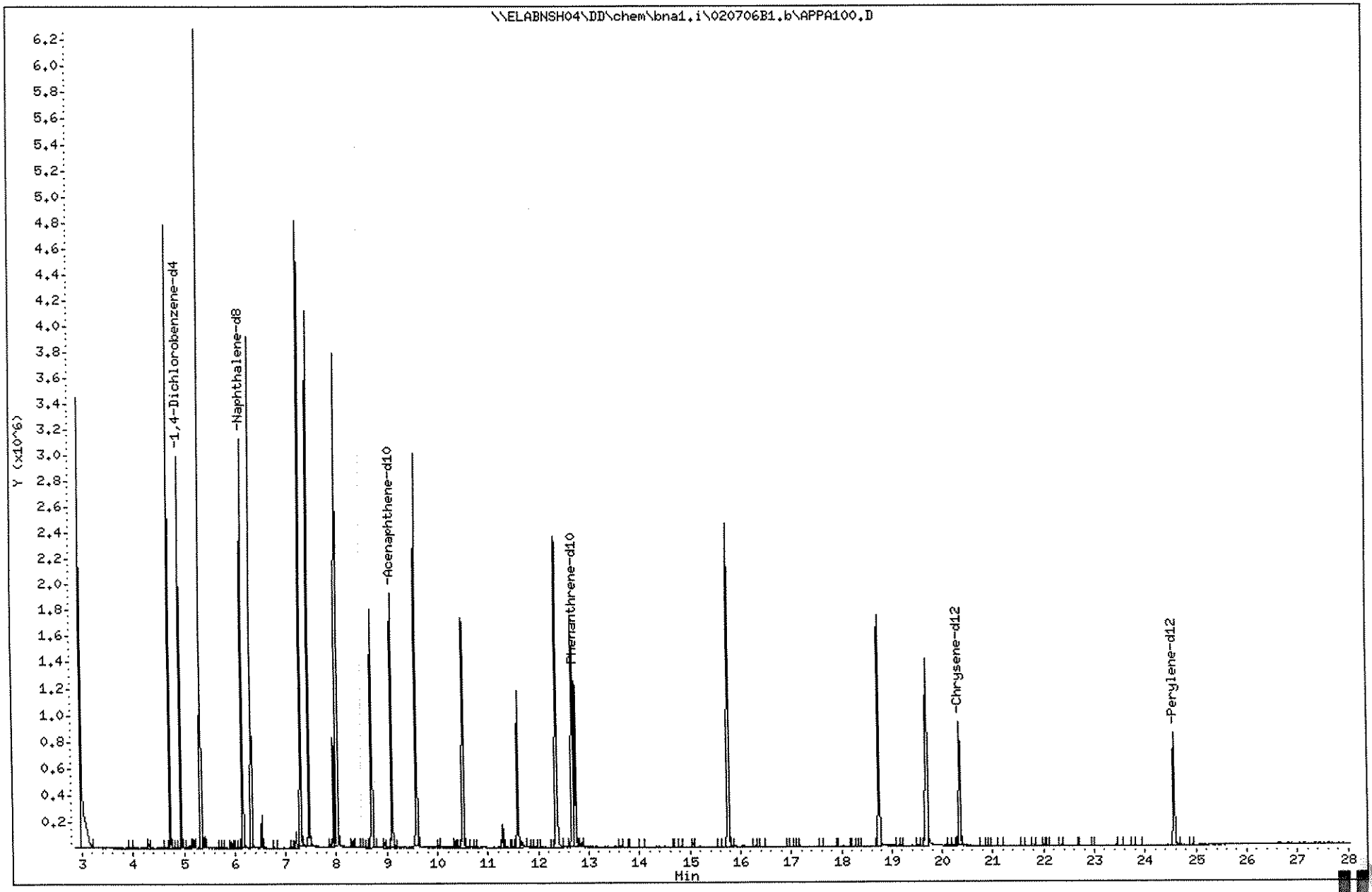

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

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Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Lab Smp Id: ICV050PPM Client Smp ID: ICV050PPM
Inj Date : 07-FEB-2006 15:25
Operator : sdb Inst ID: bna1.i
Smp Info : ICV050PPM;;;;;SV3355
Misc Info : ;;;;;ppbna2.sub;SV3349
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXBN1.m
Meth Date : 08-Feb-2006 09:19 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna2.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.942	4.941	(1.000)	438049	40.0000	
$ 2 2-Fluorophenol	112	4.038	4.064	(0.817)	837422	53.4533	53.45
$ 3 Phenol-d6	99	4.708	4.738	(0.953)	954627	53.0297	53.03
4 Pyridine	79	2.991	3.034	(0.605)	821109	48.2507	48.25
5 N-Nitroso-di-methylamine	42	3.005	3.041	(0.608)	457024	44.3356	44.34
6 Aniline	93	4.728	4.758	(0.957)	771742	50.5557	50.56(H)
8 Phenol	94	4.715	4.745	(0.954)	952110	48.8213	48.82(H)
9 bis(2-Chloroethyl)ether	93	4.769	4.793	(0.965)	811322	49.0561	49.06
10 2-Chlorophenol	128	4.810	4.834	(0.973)	776263	51.5831	51.58
11 1,3-Dichlorobenzene	146	4.915	4.937	(0.994)	799618	48.3441	48.34(H)
12 1,4-Dichlorobenzene	146	4.956	4.978	(1.003)	714087	46.1050	46.10
13 Benzyl alcohol	108	5.074	5.102	(1.027)	422060	42.8950	42.89
14 1,2-Dichlorobenzene	146	5.108	5.129	(1.034)	730841	49.5366	49.54
15 2-Methylphenol	108	5.170	5.198	(1.046)	602188	45.8388	45.84

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	16 bis(2-Chloroisopropyl)ether	45	5.190	5.212	(1.050)	1125978	47.2575	47.26
	17 3-Methylphenol	108	5.294	5.321	(1.071)	628635	47.8121	47.81
	18 4-Methylphenol	108	5.294	5.321	(1.071)	628635	47.8090	47.81
	19 N-Nitroso-di-n-propylamine	70	5.321	5.363	(1.077)	535352	47.2499	47.25
	20 Hexachloroethane	117	5.369	5.390	(1.086)	351444	48.0553	48.06
*	31 Naphthalene-d8	136	6.162	6.158	(1.000)	1330428	40.0000	
$	32 Nitrobenzene-d5	82	5.438	5.466	(0.883)	777282	51.8672	51.87
	33 Nitrobenzene	77	5.459	5.486	(0.886)	732983	48.6966	48.70
	35 Isophorone	82	5.674	5.713	(0.921)	1438640	49.0909	49.09
	36 2-Nitrophenol	139	5.763	5.795	(0.935)	399909	50.6913	50.69
	38 2,4-Dimethylphenol	107	5.797	5.829	(0.941)	648281	45.5677	45.57
	39 Benzoic acid	105	5.935	6.022	(0.963)	419159	42.4811	42.48(M)
	40 bis(2-Chloroethoxy)methane	93	5.901	5.932	(0.958)	829403	48.5489	48.55
	43 2,4-Dichlorophenol	162	6.018	6.042	(0.977)	504405	47.0594	47.06
	46 1,2,4-Trichlorobenzene	180	6.114	6.139	(0.992)	543124	46.4303	46.43
	47 Naphthalene	128	6.190	6.215	(1.004)	1577133	46.2370	46.24
	48 4-Chloroaniline	127	6.278	6.304	(1.019)	722748	51.2178	51.22
	49 Hexachlorobutadiene	225	6.402	6.434	(1.039)	349809	51.8865	51.89
	50 4-Chloro-3-methylphenol	107	6.935	6.983	(1.125)	565980	49.5183	49.52
	51 2-Methylnaphthalene	141	7.126	7.162	(1.156)	944349	46.7100	46.71
	52 1-Methylnaphthalene	141	7.304	7.303	(1.185)	924786	50.9678	50.97 OK
*	65 Acenaphthene-d10	164	9.103	9.103	(1.000)	711479	40.0000	
	66 Hexachlorocyclopentadiene	237	7.497	7.532	(0.824)	305113	63.9014	63.90(R)
	67 2,4,6-Trichlorophenol	196	7.649	7.690	(0.840)	334450	47.8874	47.89(H)
	68 2,4,5-Trichlorophenol	196	7.711	7.759	(0.847)	339836	46.7820	46.78
	69 2-Chloronaphthalene	162	7.952	8.000	(0.874)	951875	47.3812	47.38
$	70 2-Fluorobiphenyl	172	7.794	7.828	(0.856)	1135220	47.1992	47.20
	71 2-Nitroaniline	65	8.241	8.287	(0.905)	387862	49.1051	49.10
	72 Dimethylphthalate	163	8.704	8.754	(0.956)	1265658	47.1103	47.11
	73 Acenaphthylene	152	8.772	8.816	(0.964)	1537944	50.7983	50.80
	74 2,6-Dinitrotoluene	165	8.827	8.885	(0.970)	288954	50.1896	50.19
	75 3-Nitroaniline	138	9.117	9.180	(1.002)	316110	52.0781	52.08
	76 Acenaphthene	153	9.179	9.222	(1.008)	901952	44.0132	44.01
	77 2,4-Dinitrophenol	184	9.337	9.401	(1.026)	147156	46.7537	46.75(a)
	79 4-Nitrophenol	65	9.559	9.621	(1.050)	235984	48.1627	48.16
	80 Dibenzofuran	168	9.531	9.579	(1.047)	1358775	46.8846	46.88
	81 2,4-Dinitrotoluene	165	9.696	9.758	(1.065)	390204	50.2388	50.24
	82 Diethylphthalate	149	10.360	10.423	(1.138)	1230864	47.0707	47.07
	83 4-Chlorophenyl-phenylether	204	10.408	10.457	(1.143)	478181	47.4839	47.48
	84 Fluorene	166	10.339	10.395	(1.136)	1055885	47.0850	47.08
	85 4-Nitroaniline	138	10.574	10.657	(1.162)	271027	47.0909	47.09
*	98 Phenanthrene-d10	188	12.729	12.744	(1.000)	1019763	40.0000	
	99 1,2-Diphenylhydrazine	77	10.794	10.848	(0.848)	1403668	51.0645	51.06
	100 Carbazole	167	13.443	13.505	(1.056)	1111836	44.8793	44.88
	101 4,6-Dinitro-2-methylphenol	198	10.670	10.746	(0.838)	217430	51.8117	51.81
	102 N-Nitrosodiphenylamine	169	10.739	10.801	(0.844)	697897	48.3721	48.37
$	103 2,4,6-Tribromophenol	330	10.994	11.055	(0.864)	184174	54.7254	54.72

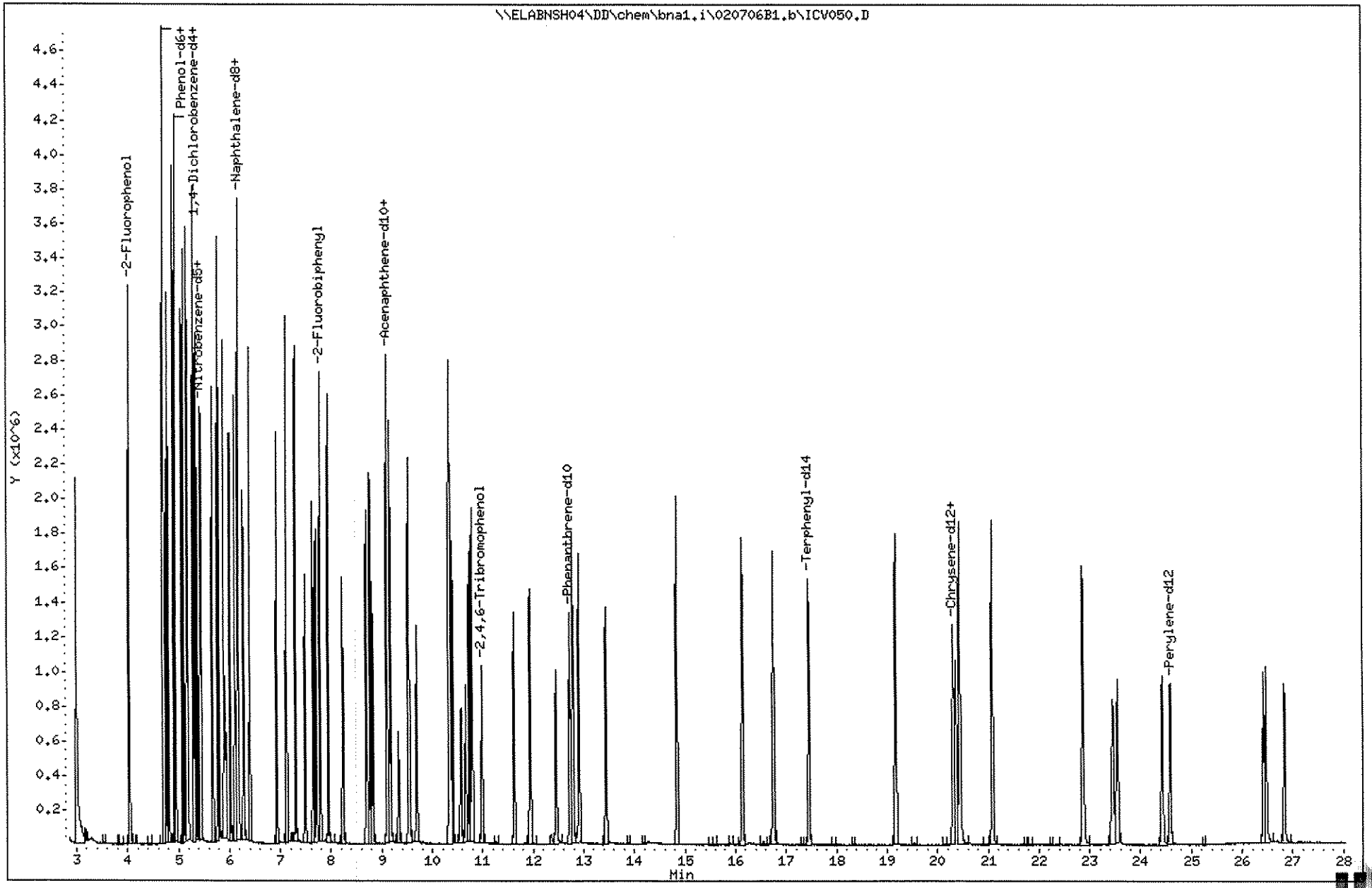
Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Report Date: 08-Feb-2006 09:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	104 4-Bromophenyl-phenylether	248	11.630	11.679	(0.914)	259522	42.2519	42.25
	105 Hexachlorobenzene	284	11.946	11.995	(0.939)	341501	48.2158	48.22
	106 Pentachlorophenol	266	12.454	12.510	(0.978)	204418	45.0409	45.04
	107 Phenanthrene	178	12.798	12.854	(1.005)	1347041	46.8768	46.88
	108 Anthracene	178	12.914	12.971	(1.015)	1302594	47.4591	47.46
	110 Di-n-butylphthalate	149	14.847	14.899	(1.166)	2185025	50.7914	50.79
	111 Fluoranthene	202	16.145	16.204	(1.268)	1456550	49.1326	49.13
*	127 Chrysene-d12	240	20.370	20.358	(1.000)	711666	40.0000	
	129 Pyrene	202	16.755	16.812	(0.823)	1458436	48.1669	48.17
$	130 Terphenyl-d14	244	17.460	17.510	(0.857)	894403	50.1138	50.11
	131 Butylbenzylphthalate	149	19.177	19.230	(0.941)	977413	55.6655	55.66
	132 3,3'-Dichlorobenzidine	252	20.461	20.503	(1.004)	316608	50.4295	50.43
	133 Benzo(a)anthracene	228	20.322	20.383	(0.998)	1154092	47.7969	47.80
	134 Chrysene	228	20.447	20.508	(1.004)	961573	45.6195	45.62
	135 Bis(2-ethylhexyl)phthalate	149	21.091	21.141	(1.035)	1165142	55.1332	55.13
*	149 Perylene-d12	264	24.586	24.571	(1.000)	673890	40.0000	
	150 Di-n-octylphthalate	149	22.874	22.927	(0.930)	1987561	54.8161	54.82
	151 Benzo(b)fluoranthene	252	23.464	23.547	(0.954)	1008177	46.5820	46.58(H)
	152 Benzo(k)fluoranthene	252	23.554	23.644	(0.958)	987765	45.4968	45.50
	153 Benzo(a)pyrene	252	24.440	24.508	(0.994)	893313	47.8121	47.81
	154 Indeno(1,2,3-cd)pyrene	276	26.431	26.480	(1.075)	721186	49.5883	49.59
	155 Dibenz(a,h)anthracene	278	26.480	26.529	(1.077)	682654	48.6822	48.68
	156 Benzo(g,h,i)perylene	276	26.837	26.893	(1.092)	699424	51.4336	51.43

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050.D
Date : 07-FEB-2006 15:25
Client ID: ICV050PPM
Instrument: bna1.i
Sample Info: ICV050PPM;;;;;SV3355
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Lab Smp Id: ICV050PPM Client Smp ID: ICV050PPM
Inj Date : 07-FEB-2006 15:25
Operator : sdb Inst ID: bna1.i
Smp Info : ICV050PPM;;;;;SV3355
Misc Info : ;;;;;ppbna2.sub;SV3349
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\IXSOX1.m
Meth Date : 08-Feb-2006 10:31 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna2.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

2/8/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.942	4.941	(1.000)	438049	40.0000	
$ 2 2-Fluorophenol	112	4.038	4.065	(0.817)	837422	53.4533	3564
$ 3 Phenol-d6	99	4.708	4.738	(0.953)	954627	53.0297	3535
4 Pyridine	79	2.991	3.034	(0.605)	821109	48.2507	3217
5 N-Nitroso-di-methylamine	42	3.005	3.041	(0.608)	457024	44.3356	2956
6 Aniline	93	4.728	4.759	(0.957)	771742	50.5557	3370(H)
8 Phenol	94	4.715	4.745	(0.954)	952110	48.8213	3255(H)
9 bis(2-Chloroethyl)ether	93	4.769	4.793	(0.965)	811322	49.0561	3270
10 2-Chlorophenol	128	4.810	4.834	(0.973)	776263	51.5831	3439
11 1,3-Dichlorobenzene	146	4.915	4.937	(0.994)	799618	48.3441	3223(H)
12 1,4-Dichlorobenzene	146	4.956	4.979	(1.003)	714087	46.1050	3074
13 Benzyl alcohol	108	5.074	5.102	(1.027)	422060	42.8950	2860
14 1,2-Dichlorobenzene	146	5.108	5.130	(1.034)	730841	49.5366	3302

2-8-06

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
	15	2-Methylphenol	108	5.170	5.198	(1.046)	602188	45.8388	3056
	16	bis(2-Chloroisopropyl)ether	45	5.190	5.212	(1.050)	1125978	47.2575	3150
	17	3-Methylphenol	108	5.294	5.322	(1.071)	628635	47.8121	3187
	18	4-Methylphenol	108	5.294	5.322	(1.071)	628635	47.8090	3187
	19	N-Nitroso-di-n-propylamine	70	5.321	5.363	(1.077)	535352	47.2499	3150
	20	Hexachloroethane	117	5.369	5.391	(1.086)	351444	48.0553	3204
*	31	Naphthalene-d8	136	6.162	6.158	(1.000)	1330428	40.0000	
$	32	Nitrobenzene-d5	82	5.438	5.466	(0.883)	777282	51.8672	3458
	33	Nitrobenzene	77	5.459	5.487	(0.886)	732983	48.6966	3246
	35	Isophorone	82	5.674	5.713	(0.921)	1438640	49.0909	3273
	36	2-Nitrophenol	139	5.763	5.795	(0.935)	399909	50.6913	3379
	38	2,4-Dimethylphenol	107	5.797	5.830	(0.941)	648281	45.5677	3038
	39	Benzoic acid	105	5.935	6.022	(0.963)	419159	42.4811	2832(M)
	40	bis(2-Chloroethoxy)methane	93	5.901	5.933	(0.958)	829403	48.5489	3236
	43	2,4-Dichlorophenol	162	6.018	6.043	(0.977)	504405	47.0594	3137
	46	1,2,4-Trichlorobenzene	180	6.114	6.139	(0.992)	543124	46.4303	3095
	47	Naphthalene	128	6.190	6.215	(1.004)	1577133	46.2370	3082
	48	4-Chloroaniline	127	6.278	6.304	(1.019)	722748	51.2178	3414
	49	Hexachlorobutadiene	225	6.402	6.435	(1.039)	349809	51.8865	3459
	50	4-Chloro-3-methylphenol	107	6.935	6.984	(1.125)	565980	49.5183	3301
	51	2-Methylnaphthalene	141	7.126	7.162	(1.156)	944349	46.7100	3114
	52	1-Methylnaphthalene	141	7.304	7.303	(1.185)	924786	50.9678	3398 OK
*	65	Acenaphthene-d10	164	9.103	9.103	(1.000)	711479	40.0000	
	66	Hexachlorocyclopentadiene	237	7.497	7.532	(0.824)	305113	63.9014	4260(R)
	67	2,4,6-Trichlorophenol	196	7.649	7.691	(0.840)	334450	47.8874	3192(H)
	68	2,4,5-Trichlorophenol	196	7.711	7.760	(0.847)	339836	46.7820	3119
	69	2-Chloronaphthalene	162	7.952	8.000	(0.874)	951875	47.3812	3159
$	70	2-Fluorobiphenyl	172	7.794	7.829	(0.856)	1135220	47.1992	3147
	71	2-Nitroaniline	65	8.241	8.288	(0.905)	387862	49.1051	3274
	72	Dimethylphthalate	163	8.704	8.754	(0.956)	1265658	47.1103	3141
	73	Acenaphthylene	152	8.772	8.816	(0.964)	1537944	50.7983	3386
	74	2,6-Dinitrotoluene	165	8.827	8.885	(0.970)	288954	50.1896	3346
	75	3-Nitroaniline	138	9.117	9.181	(1.002)	316110	52.0781	3472
	76	Acenaphthene	153	9.179	9.222	(1.008)	901952	44.0132	2934
	77	2,4-Dinitrophenol	184	9.337	9.401	(1.026)	147156	46.7537	3117(a)
	79	4-Nitrophenol	65	9.559	9.621	(1.050)	235984	48.1627	3211
	80	Dibenzofuran	168	9.531	9.580	(1.047)	1358775	46.8846	3126
	81	2,4-Dinitrotoluene	165	9.696	9.758	(1.065)	390204	50.2388	3349
	82	Diethylphthalate	149	10.360	10.423	(1.138)	1230864	47.0707	3138
	83	4-Chlorophenyl-phenylether	204	10.408	10.458	(1.143)	478181	47.4839	3166
	84	Fluorene	166	10.339	10.396	(1.136)	1055885	47.0850	3139
	85	4-Nitroaniline	138	10.574	10.657	(1.162)	271027	47.0909	3139
*	97	Phenanthrene-d10	188	12.729	12.744	(1.000)	1019763	40.0000	
	98	1,2-Diphenylhydrazine	77	10.794	10.849	(0.848)	1403668	51.0645	3404
	99	Carbazole	167	13.443	13.506	(1.056)	1111836	44.8793	2992
	100	4,6-Dinitro-2-methylphenol	198	10.670	10.746	(0.838)	217430	51.8117	3454
	101	N-Nitrosodiphenylamine	169	10.739	10.801	(0.844)	697897	48.3721	3225

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Report Date: 08-Feb-2006 10:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
$ 102 2,4,6-Tribromophenol	330	10.994	11.056	(0.864)	184174	54.7254	3648
103 4-Bromophenyl-phenylether	248	11.630	11.680	(0.914)	259522	42.2519	2817
104 Hexachlorobenzene	284	11.946	11.996	(0.939)	341501	48.2158	3214
105 Pentachlorophenol	266	12.454	12.510	(0.978)	204418	45.0409	3003
106 Phenanthrene	178	12.798	12.855	(1.005)	1347041	46.8768	3125
107 Anthracene	178	12.914	12.972	(1.015)	1302594	47.4591	3164
109 Di-n-butylphthalate	149	14.847	14.900	(1.166)	2185025	50.7914	3386
110 Fluoranthene	202	16.145	16.204	(1.268)	1456550	49.1326	3276
* 124 Chrysene-d12	240	20.370	20.358	(1.000)	711666	40.0000	
126 Pyrene	202	16.755	16.812	(0.823)	1458436	48.1669	3211
$ 127 Terphenyl-d14	244	17.460	17.510	(0.857)	894403	50.1138	3341
128 Butylbenzylphthalate	149	19.177	19.230	(0.941)	977413	55.6655	3711
129 3,3'-Dichlorobenzidine	252	20.461	20.503	(1.004)	316608	50.4295	3362
130 Benzo(a)anthracene	228	20.322	20.384	(0.998)	1154092	47.7969	3186
131 Chrysene	228	20.447	20.508	(1.004)	961573	45.6195	3041
132 Bis(2-ethylhexyl)phthalate	149	21.091	21.141	(1.035)	1165142	55.1332	3676
* 145 Perylene-d12	264	24.586	24.571	(1.000)	673890	40.0000	
146 Di-n-octylphthalate	149	22.874	22.928	(0.930)	1987561	54.8161	3654
147 Benzo(b)fluoranthene	252	23.464	23.548	(0.954)	1008177	46.5820	3105(H)
148 Benzo(k)fluoranthene	252	23.554	23.645	(0.958)	987765	45.4968	3033
149 Benzo(a)pyrene	252	24.440	24.509	(0.994)	893313	47.8121	3187
150 Indeno(1,2,3-cd)pyrene	276	26.431	26.481	(1.075)	721186	49.5883	3306
151 Dibenz(a,h)anthracene	278	26.480	26.529	(1.077)	682654	48.6822	3245
152 Benzo(g,h,i)perylene	276	26.837	26.893	(1.092)	699424	51.4336	3429

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\ICV050s.D
Date : 07-FEB-2006 15:25
Client ID: ICV050PPM
Instrument: bna1.i
Sample Info: ICV050PPM;;;;;SV3355
Volume Injected (uL): 0.5
Operator: sdb
Column phase: fused silica
Column diameter: 0.25

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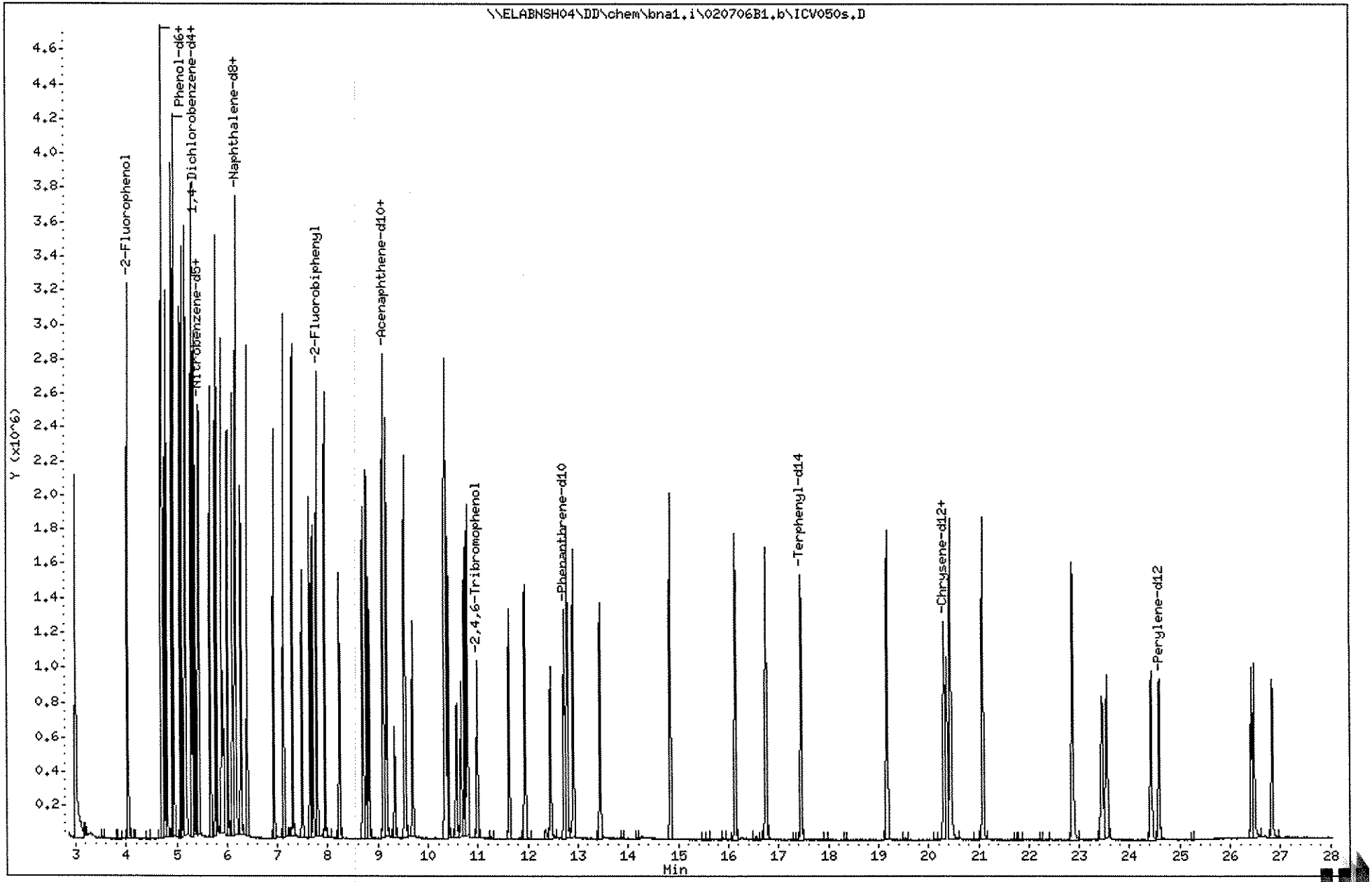

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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Lab Smp Id: CAL001PPM Client Smp ID: CAL001PPM
Inj Date : 19-APR-2006 15:52
Operator : ADM Inst ID: bna1.i
Smp Info : CAL001PPM;;;;;SV3350-1
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mu/m/c

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	497331	40.0000	
$	2 2-Fluorophenol	112	4.003	4.003	(0.815)	36078	2.00000	2.094(a)
$	3 Phenol-d6	99	4.665	4.665	(0.949)	46038	2.00000	2.236(a)
	4 Pyridine	79	3.010	3.010	(0.613)	22473	1.00000	1.013(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	11180	1.00000	0.9717(a)
	6 Aniline	93	4.699	4.699	(0.956)	28952	1.00000	1.189(a)
	8 Phenol	94	4.672	4.672	(0.951)	28188	1.00000	1.197(aM)
	9 bis(2-Chloroethyl)ether	93	4.733	4.733	(0.963)	23284	1.00000	1.128(a)
	10 2-Chlorophenol	128	4.775	4.775	(0.972)	17889	1.00000	1.093(a)
	11 1,3-Dichlorobenzene	146	4.879	4.879	(0.993)	20759	1.00000	1.118(a)
	12 1,4-Dichlorobenzene	146	4.920	4.920	(1.001)	19560	1.00000	1.111(a)
	13 Benzyl alcohol	108	5.029	5.029	(1.024)	8658	1.00000	0.7732(a)
	14 1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	18530	1.00000	1.126(a)
	15 2-Methylphenol	108	5.132	5.132	(1.044)	15002	1.00000	0.9827(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	45268	1.00000	1.130(a)
	17 3-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	18 4-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	14317	1.00000	1.004(aM)
	20 Hexachloroethane	117	5.331	5.331	(1.085)	8158	1.00000	1.041(a)
*	31 Naphthalene-d8	136	6.112	6.112	(1.000)	1532117	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.882)	14389	1.00000	0.8603(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	14750	1.00000	0.8710(aM)
	35 Isophorone	82	5.629	5.629	(0.921)	36330	1.00000	1.007(aM)
	36 2-Nitrophenol	139	5.719	5.719	(0.936)	6425	1.00000	0.7152(aM)
	38 2,4-Dimethylphenol	107	5.747	5.747	(0.940)	14996	1.00000	1.032(a)
	40 bis(2-Chloroethoxy)methane	93	5.850	5.850	(0.957)	22515	1.00000	1.038(a)
	43 2,4-Dichlorophenol	162	5.960	5.960	(0.975)	11385	1.00000	0.9485(a)
	46 1,2,4-Trichlorobenzene	180	6.064	6.064	(0.992)	13522	1.00000	1.056(a)
	47 Naphthalene	128	6.132	6.132	(1.003)	41883	1.00000	1.099(a)
	48 4-Chloroaniline	127	6.222	6.222	(1.018)	16807	1.00000	1.079(a)
	49 Hexachlorobutadiene	225	6.359	6.359	(1.040)	6881	1.00000	1.062(aM)
	50 4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	10552	1.00000	0.8805(a)
	51 2-Methylnaphthalene	141	7.059	7.059	(1.155)	22486	1.00000	1.027(a)
	53 Acetophenone	105	5.256	5.256	(1.070)	24187	1.00000	1.187(a)
	64 Caprolactam	113	6.637	6.637	(1.086)	3534	1.00000	0.8093(a)
*	65 Acenaphthene-d10	164	9.016	9.016	(1.000)	753119	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	2536	1.00000	0.5635(aM)
	67 2,4,6-Trichlorophenol	196	7.572	7.572	(0.840)	6526	1.00000	0.9238(aM)
	68 2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	6661	1.00000	0.9102(aM)
	69 2-Chloronaphthalene	162	7.870	7.870	(0.873)	25059	1.00000	1.178(a)
$	70 2-Fluorobiphenyl	172	7.718	7.718	(0.856)	26249	1.00000	1.095(a)
	71 2-Nitroaniline	65	8.138	8.138	(0.903)	4791	1.00000	0.5782(aM)
	72 Dimethylphthalate	163	8.606	8.606	(0.955)	27050	1.00000	1.014(aM)
	73 Acenaphthylene	152	8.683	8.683	(0.963)	33963	1.00000	1.072(a)
	75 3-Nitroaniline	138	9.002	9.002	(0.998)	3590	1.00000	0.5529(a)
	76 Acenaphthene	153	9.077	9.077	(1.007)	22511	1.00000	1.036(a)
	80 Dibenzofuran	168	9.429	9.429	(1.046)	30159	1.00000	1.001(a)
	81 2,4-Dinitrotoluene	165	9.588	9.588	(1.063)	2574	1.00000	0.3478(aM)
	82 Diethylphthalate	149	10.247	10.247	(1.137)	82949	1.00000	3.246(a)
	83 4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	10891	1.00000	1.097(a)
	84 Fluorene	166	10.233	10.233	(1.135)	24120	1.00000	1.038(a)
	96 1,1'-Biphenyl	154	7.870	7.870	(0.873)	29634	1.00000	1.108(a)
*	98 Phenanthrene-d10	188	12.615	12.615	(1.000)	946499	40.0000	
	99 1,2-Diphenylhydrazine	77	10.681	10.681	(0.847)	34121	1.00000	1.072(a)
	100 Carbazole	167	13.320	13.320	(1.056)	27083	1.00000	1.041(aM)
	102 N-Nitrosodiphenylamine	169	10.618	10.618	(0.842)	15449	1.00000	1.040(a)
$	103 2,4,6-Tribromophenol	330	10.874	10.874	(0.862)	5864	2.00000	1.679(aM)
	104 4-Bromophenyl-phenylether	248	11.524	11.524	(0.913)	6598	1.00000	1.024(a)
	105 Hexachlorobenzene	284	11.825	11.825	(0.937)	7281	1.00000	1.027(a)
	106 Pentachlorophenol	266	12.332	12.332	(0.978)	1962	1.00000	0.4364(aM)
	107 Phenanthrene	178	12.664	12.664	(1.004)	28372	1.00000	1.051(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
108 Anthracene	178	12.787	12.787	(1.014)	27984	1.00000	1.050(a)
110 Di-n-butylphthalate	149	14.732	14.732	(1.168)	41275	1.00000	0.9393(aM)
111 Fluoranthene	202	15.998	15.998	(1.268)	25169	1.00000	0.9420(a)
* 127 Chrysene-d12	240	20.222	20.222	(1.000)	688321	40.0000	
129 Pyrene	202	16.606	16.606	(0.821)	27809	1.00000	1.012(a)
$ 130 Terphenyl-d14	244	17.326	17.326	(0.857)	16954	1.00000	0.9754(a)
131 Butylbenzylphthalate	149	19.048	19.048	(0.942)	13304	1.00000	0.7782(aM)
133 Benzo(a)anthracene	228	20.174	20.174	(0.998)	21634	1.00000	0.9755(a)
134 Chrysene	228	20.291	20.291	(1.003)	18180	1.00000	0.8975(a)
135 Bis(2-ethylhexyl)phthalate	149	20.976	20.976	(1.037)	17302	1.00000	0.7754(aM)
* 149 Perylene-d12	264	24.438	24.438	(1.000)	601750	40.0000	
150 Di-n-octylphthalate	149	22.745	22.745	(0.931)	17403	1.00000	0.5202(aM)
151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	14209	1.00000	0.7665(aM)
152 Benzo(k)fluoranthene	252	23.336	23.336	(0.955)	16941	1.00000	0.8809(aM)
153 Benzo(a)pyrene	252	24.254	24.254	(0.992)	12423	1.00000	0.7772(aM)
154 Indeno(1,2,3-cd)pyrene	276	26.310	26.310	(1.077)	7005	1.00000	0.5137(aM)
155 Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	7871	1.00000	0.5733(aM)
156 Benzo(g,h,i)perylene	276	26.701	26.701	(1.093)	11398	1.00000	0.8054(aM)

QC Flag Legend

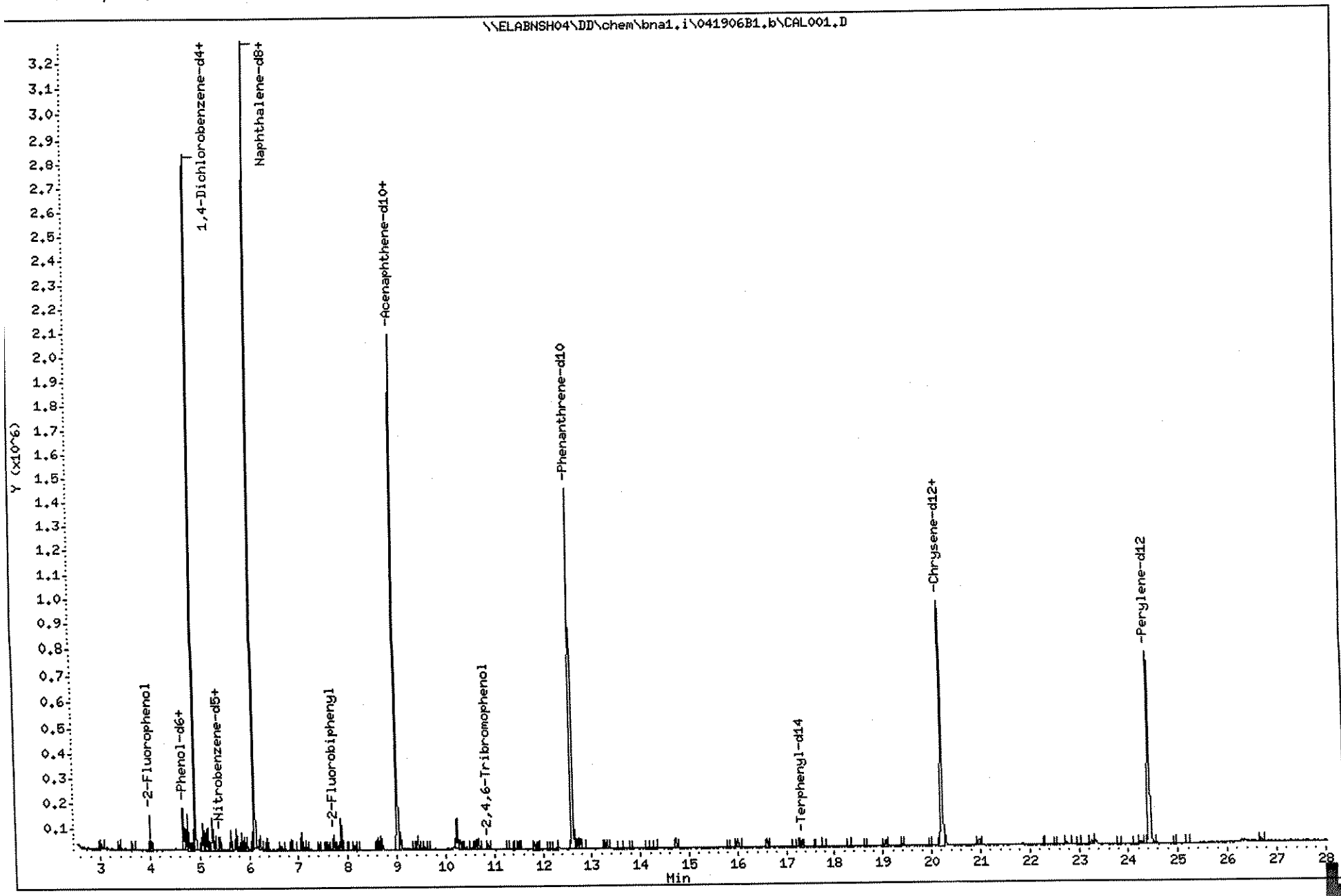
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Date : 19-APR-2006 15:52
Client ID: CAL001PPM
Sample Info: CAL001PPM;;;;;SV3350-1
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: ADM
Column diameter: 0.25

000376



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Lab Smp Id: CAL002PPM Client Smp ID: CAL002PPM
Inj Date : 19-APR-2006 16:28
Operator : ADM Inst ID: bna1.i
Smp Info : CAL002PPM;;;;;SV3350-2
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	459672	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	68870	4.00000	4.325(a)
$	3 Phenol-d6	99	4.664	4.664	(0.950)	85094	4.00000	4.471(a)
	4 Pyridine	79	2.995	2.995	(0.610)	40772	2.00000	1.988(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	21276	2.00000	2.001(a)
	6 Aniline	93	4.698	4.698	(0.957)	51006	2.00000	2.337(a)
	8 Phenol	94	4.678	4.678	(0.952)	49628	2.00000	2.280(a)
	9 bis(2-Chloroethyl)ether	93	4.732	4.732	(0.963)	40532	2.00000	2.126(a)
	10 2-Chlorophenol	128	4.774	4.774	(0.972)	32874	2.00000	2.174(a)
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	36234	2.00000	2.112(a)
	12 1,4-Dichlorobenzene.	146	4.925	4.925	(1.003)	33995	2.00000	2.090(a)
	13 Benzyl alcohol	108	5.035	5.035	(1.025)	20674	2.00000	1.998(a)
	14 1,2-Dichlorobenzene	146	5.069	5.069	(1.032)	33357	2.00000	2.194(a)
	15 2-Methylphenol	108	5.131	5.131	(1.045)	29780	2.00000	2.110(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	83878	2.00000	2.266(aM)
	17 3-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	18 4-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	19 N-Nitroso-di-n-propylamine	70	5.277	5.277	(1.074)	26739	2.00000	2.028(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	15115	2.00000	2.087(a)
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1335461	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.883)	26415	2.00000	1.812(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	29840	2.00000	2.022(a)
	35 Isophorone	82	5.630	5.630	(0.921)	70649	2.00000	2.247(a)
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	11891	2.00000	1.518(aM)
	38 2,4-Dimethylphenol	107	5.747	5.747	(0.940)	29447	2.00000	2.325(a)
	39 Benzoic acid	105	5.803	5.803	(0.950)	7645	2.00000	0.9760(aM)
	40 bis(2-Chloroethoxy)methane	93	5.851	5.851	(0.957)	43588	2.00000	2.304(a)
	43 2,4-Dichlorophenol	162	5.961	5.961	(0.975)	21361	2.00000	2.042(a)
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	25796	2.00000	2.311(a)
	47 Naphthalene	128	6.132	6.132	(1.003)	75317	2.00000	2.268(a)
	48 4-Chloroaniline	127	6.221	6.221	(1.018)	30211	2.00000	2.224(a)
	49 Hexachlorobutadiene	225	6.359	6.359	(1.041)	12807	2.00000	2.268(a)
	50 4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	22172	2.00000	2.123(a)
	51 2-Methylnaphthalene	141	7.058	7.058	(1.155)	45240	2.00000	2.371(a)
	53 Acetophenone	105	5.256	5.256	(1.070)	45056	2.00000	2.392(a)
	64 Caprolactam	113	6.636	6.636	(1.086)	8282	2.00000	2.176(a)
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	715946	40.0000	
	66 Hexachlorocyclopentadiene	237	7.431	7.431	(0.824)	5499	2.00000	1.285(a)
	67 2,4,6-Trichlorophenol	196	7.570	7.570	(0.840)	11714	2.00000	1.744(a)
	68 2,4,5-Trichlorophenol	196	7.631	7.631	(0.847)	12083	2.00000	1.737(aM)
	69 2-Chloronaphthalene	162	7.873	7.873	(0.873)	44566	2.00000	2.203(a)
$	70 2-Fluorobiphenyl	172	7.714	7.714	(0.856)	49686	2.00000	2.181(a)
	71 2-Nitroaniline	65	8.143	8.143	(0.903)	10033	2.00000	1.274(a)
	72 Dimethylphthalate	163	8.610	8.610	(0.955)	54323	2.00000	2.142(aM)
	73 Acenaphthylene	152	8.681	8.681	(0.963)	63502	2.00000	2.110(a)
	74 2,6-Dinitrotoluene	165	8.729	8.729	(0.968)	5524	2.00000	0.9940(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	8965	2.00000	1.452(a)
	76 Acenaphthene	153	9.076	9.076	(1.007)	44844	2.00000	2.170(a)
	79 4-Nitrophenol	65	9.421	9.421	(1.045)	5069	2.00000	1.190(aM)
	80 Dibenzofuran	168	9.434	9.434	(1.047)	60824	2.00000	2.124(a)
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	7054	2.00000	1.003(aM)
	82 Diethylphthalate	149	10.248	10.248	(1.137)	91680	2.00000	3.774(a)
	83 4-Chlorophenyl-phenylether	204	10.303	10.303	(1.143)	19176	2.00000	2.031(a)
	84 Fluorene	166	10.234	10.234	(1.135)	45902	2.00000	2.077(a)
	85 4-Nitroaniline	138	10.422	10.422	(1.156)	7010	2.00000	1.324(a)
	96 1,1'-Biphenyl	154	7.866	7.866	(0.873)	59011	2.00000	2.322(a)
*	98 Phenanthrene-d10	188	12.612	12.612	(1.000)	883734	40.0000	
	99 1,2-Diphenylhydrazine	77	10.678	10.678	(0.847)	63016	2.00000	2.122(a)
	100 Carbazole	167	13.312	13.312	(1.056)	53036	2.00000	2.184(a)
	102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	30977	2.00000	2.234(a)
$	103 2,4,6-Tribromophenol	330	10.879	10.879	(0.863)	11540	4.00000	3.540(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	==========	====	==	======	======	========	=======	=======
104	4-Bromophenyl-phenylether	248	11.520	11.520	(0.913)	12791	2.00000	2.127(a)
105	Hexachlorobenzene	284	11.828	11.828	(0.938)	14101	2.00000	2.130(a)
106	Pentachlorophenol	266	12.334	12.334	(0.978)	4144	2.00000	0.9871(aM)
107	Phenanthrene	178	12.667	12.667	(1.004)	52935	2.00000	2.101(a)
108	Anthracene	178	12.784	12.784	(1.014)	54512	2.00000	2.191(a)
110	Di-n-butylphthalate	149	14.728	14.728	(1.168)	85620	2.00000	2.087(a)
111	Fluoranthene	202	16.003	16.003	(1.269)	51110	2.00000	2.049(a)
* 127	Chrysene-d12	240	20.225	20.225	(1.000)	672325	40.0000	
129	Pyrene	202	16.608	16.608	(0.821)	55190	2.00000	2.055(a)
$ 130	Terphenyl-d14	244	17.328	17.328	(0.857)	32936	2.00000	1.940(a)
131	Butylbenzylphthalate	149	19.055	19.055	(0.942)	27940	2.00000	1.673(a)
133	Benzo(a)anthracene	228	20.170	20.170	(0.997)	43857	2.00000	2.024(a)
134	Chrysene	228	20.287	20.287	(1.003)	39003	2.00000	1.971(a)
135	Bis(2-ethylhexyl)phthalate	149	20.977	20.977	(1.037)	37089	2.00000	1.702(aM)
* 149	Perylene-d12	264	24.442	24.442	(1.000)	644607	40.0000	
150	Di-n-octylphthalate	149	22.741	22.741	(0.930)	42134	2.00000	1.176(aM)
151	Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	37481	2.00000	1.888(a)
152	Benzo(k)fluoranthene	252	23.334	23.334	(0.955)	38940	2.00000	1.890(a)
153	Benzo(a)pyrene	252	24.260	24.260	(0.993)	29929	2.00000	1.748(a)
154	Indeno(1,2,3-cd)pyrene	276	26.304	26.304	(1.076)	21081	2.00000	1.443(a)
155	Dibenz(a,h)anthracene	278	26.359	26.359	(1.078)	20490	2.00000	1.393(a)
156	Benzo(g,h,i)perylene	276	26.700	26.700	(1.092)	28849	2.00000	1.903(a)

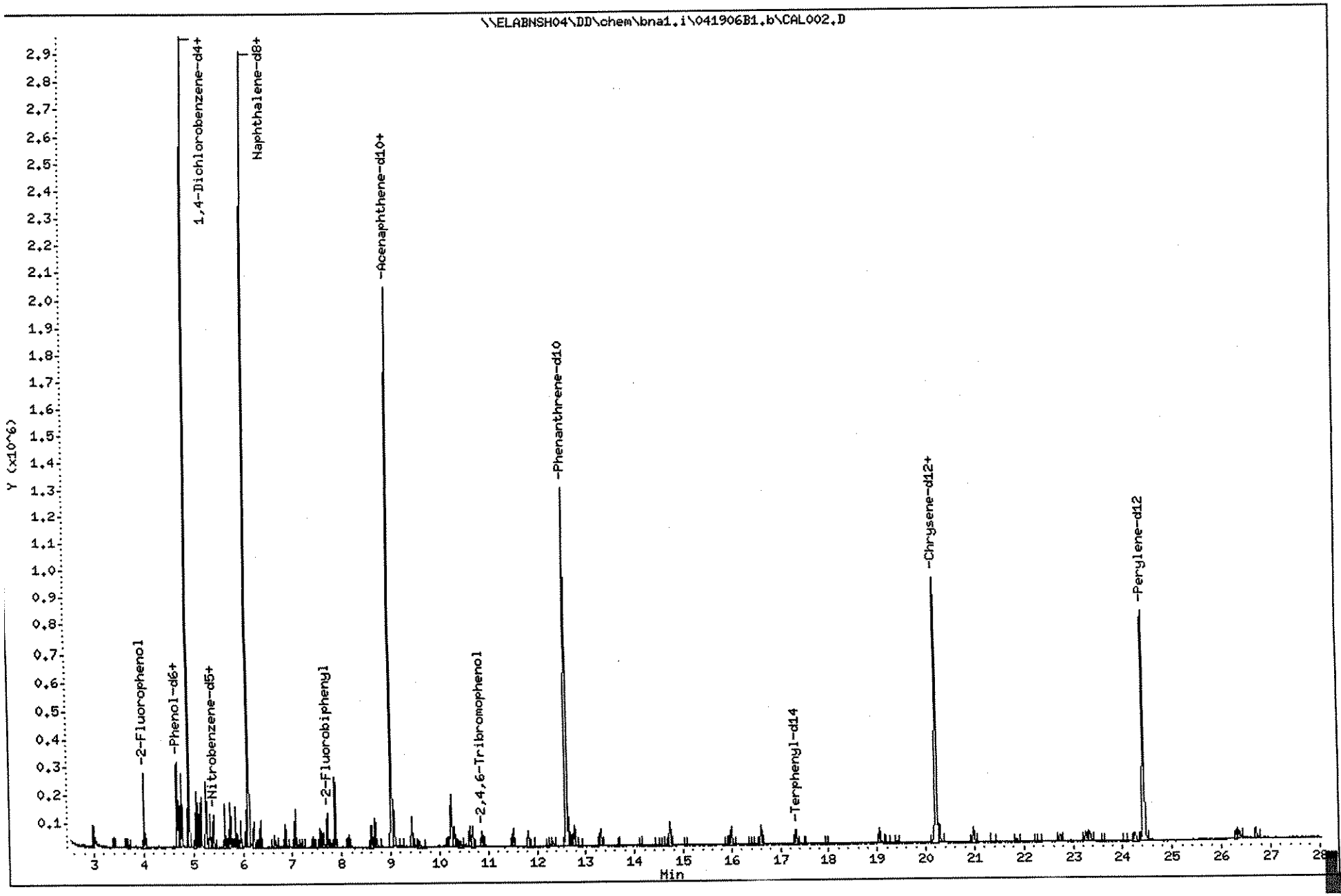
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Date : 19-APR-2006 16:28
Client ID: CAL002PPM
Sample Info: CAL002PPM;;;;;SV3350-2
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000380



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Lab Smp Id: CAL005PPM Client Smp ID: CAL005PPM
Inj Date : 19-APR-2006 17:04
Operator : ADM Inst ID: bna1.i
Smp Info : CAL005PPM;;;;;SV3350-3
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	475614	40.0000	
$ 2	2-Fluorophenol	112	4.004	4.004	(0.815)	171345	10.0000	10.40
$ 3	Phenol-d6	99	4.665	4.665	(0.950)	215645	10.0000	10.95
4	Pyridine	79	2.983	2.983	(0.607)	93470	5.00000	4.406(aM)
5	N-Nitroso-di-methylamine	42	2.976	2.976	(0.606)	52719	5.00000	4.791(a)
6	Aniline	93	4.699	4.699	(0.957)	123379	5.00000	5.924
8	Phenol	94	4.679	4.679	(0.953)	123324	5.00000	5.476
9	bis(2-Chloroethyl)ether	93	4.733	4.733	(0.964)	102620	5.00000	5.201
10	2-Chlorophenol	128	4.775	4.775	(0.972)	85348	5.00000	5.454
11	1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	89714	5.00000	5.055
12	1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	90966	5.00000	5.404
13	Benzyl alcohol	108	5.036	5.036	(1.025)	53082	5.00000	4.957(a)
14	1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	83771	5.00000	5.326
15	2-Methylphenol	108	5.132	5.132	(1.045)	73753	5.00000	5.052

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	212876	5.00000	5.558
	17 3-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	18 4-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	67319	5.00000	4.935(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	37012	5.00000	4.939(a)
*	31 Naphthalene-d8	136	6.113	6.113	(1.000)	1420826	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.882)	73173	5.00000	4.718(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	80339	5.00000	5.116
	35 Isophorone	82	5.627	5.627	(0.920)	169909	5.00000	5.079
	36 2-Nitrophenol	139	5.716	5.716	(0.935)	34608	5.00000	4.154(a)
	38 2,4-Dimethylphenol	107	5.750	5.750	(0.941)	69848	5.00000	5.183(a)
	39 Benzoic acid	105	5.818	5.818	(0.952)	24938	5.00000	2.980(aM)
	40 bis(2-Chloroethoxy)methane	93	5.852	5.852	(0.957)	110579	5.00000	5.495
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	58290	5.00000	5.236
	46 1,2,4-Trichlorobenzene	180	6.065	6.065	(0.992)	62407	5.00000	5.255
	47 Naphthalene	128	6.134	6.134	(1.003)	193155	5.00000	5.468
	48 4-Chloroaniline	127	6.222	6.222	(1.018)	78431	5.00000	5.428
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	30279	5.00000	5.040
	50 4-Chloro-3-methylphenol	107	6.863	6.863	(1.123)	52760	5.00000	4.747(a)
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	102639	5.00000	5.056
	53 Acetophenone	105	5.255	5.255	(1.070)	108140	5.00000	5.548
	64 Caprolactam	113	6.623	6.623	(1.083)	22025	5.00000	5.439
*	65 Acenaphthene-d10	164	9.021	9.021	(1.000)	694890	40.0000	
	66 Hexachlorocyclopentadiene	237	7.438	7.438	(0.824)	16668	5.00000	4.014(a)
	67 2,4,6-Trichlorophenol	196	7.571	7.571	(0.839)	31616	5.00000	4.850(a)
	68 2,4,5-Trichlorophenol	196	7.626	7.626	(0.845)	32441	5.00000	4.804(a)
	69 2-Chloronaphthalene	162	7.868	7.868	(0.872)	108794	5.00000	5.541
$	70 2-Fluorobiphenyl	172	7.715	7.715	(0.855)	121535	5.00000	5.496
	71 2-Nitroaniline	65	8.146	8.146	(0.903)	34106	5.00000	4.461(a)
	72 Dimethylphthalate	163	8.607	8.607	(0.954)	126646	5.00000	5.146
	73 Acenaphthylene	152	8.683	8.683	(0.962)	159380	5.00000	5.455
	74 2,6-Dinitrotoluene	165	8.730	8.730	(0.968)	19532	5.00000	3.621(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	25055	5.00000	4.182(a)
	76 Acenaphthene	153	9.083	9.083	(1.007)	106758	5.00000	5.323
	77 2,4-Dinitrophenol	184	9.227	9.227	(1.023)	4038	5.00000	1.716(aM)
	79 4-Nitrophenol	65	9.435	9.435	(1.046)	14854	5.00000	3.594(a)
	80 Dibenzofuran	168	9.435	9.435	(1.046)	152747	5.00000	5.496
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	22756	5.00000	3.332(a)
	82 Diethylphthalate	149	10.251	10.251	(1.136)	144613	5.00000	6.133
	83 4-Chlorophenyl-phenylether	204	10.305	10.305	(1.142)	46998	5.00000	5.129
	84 Fluorene	166	10.230	10.230	(1.134)	111406	5.00000	5.194
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	20170	5.00000	3.924(a)
	96 1,1'-Biphenyl	154	7.868	7.868	(0.872)	144530	5.00000	5.859
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	911816	40.0000	
	99 1,2-Diphenylhydrazine	77	10.676	10.676	(0.846)	156696	5.00000	5.113
	100 Carbazole	167	13.314	13.314	(1.055)	127381	5.00000	5.083
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	6274	5.00000	1.927(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

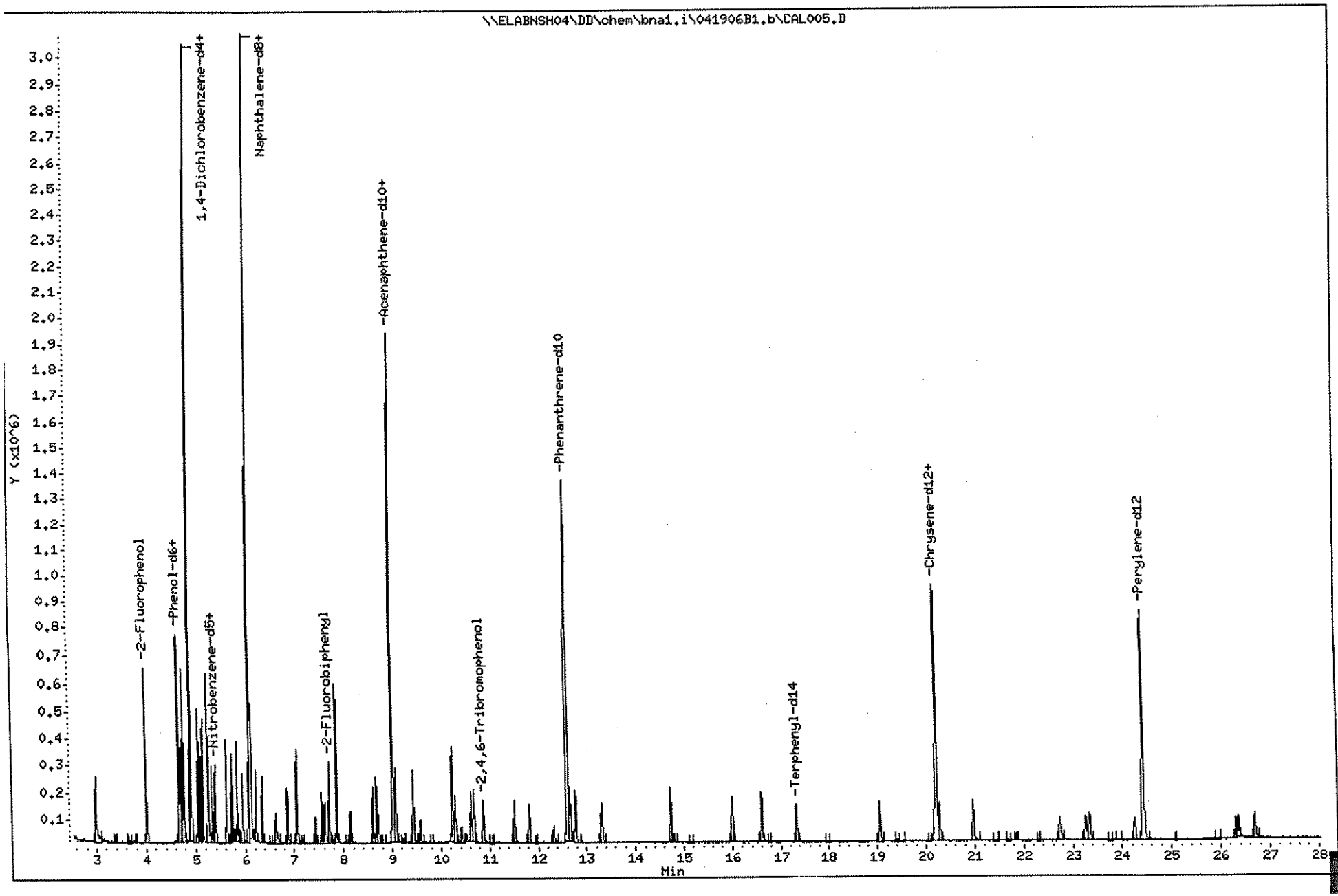
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.622	10.622	(0.842)	71989	5.00000	5.033
$ 103 2,4,6-Tribromophenol	330	10.882	10.882	(0.863)	29866	10.0000	8.878
104 4-Bromophenyl-phenylether	248	11.518	11.518	(0.913)	33042	5.00000	5.325
105 Hexachlorobenzene	284	11.826	11.826	(0.937)	35919	5.00000	5.258
106 Pentachlorophenol	266	12.338	12.338	(0.978)	13491	5.00000	3.114(a)
107 Phenanthrene	178	12.665	12.665	(1.004)	133874	5.00000	5.149
108 Anthracene	178	12.782	12.782	(1.013)	133385	5.00000	5.197
110 Di-n-butylphthalate	149	14.729	14.729	(1.167)	211721	5.00000	5.002
111 Fluoranthene	202	16.007	16.007	(1.269)	132887	5.00000	5.163
* 127 Chrysene-d12	240	20.223	20.223	(1.000)	672352	40.0000	
129 Pyrene	202	16.610	16.610	(0.821)	135545	5.00000	5.048
$ 130 Terphenyl-d14	244	17.321	17.321	(0.857)	84320	5.00000	4.966(a)
131 Butylbenzylphthalate	149	19.053	19.053	(0.942)	80968	5.00000	4.849(a)
133 Benzo(a)anthracene	228	20.169	20.169	(0.997)	104322	5.00000	4.816(a)
134 Chrysene	228	20.285	20.285	(1.003)	97332	5.00000	4.919(a)
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	94980	5.00000	4.358(a)
* 149 Perylene-d12	264	24.443	24.443	(1.000)	645197	40.0000	
150 Di-n-octylphthalate	149	22.746	22.746	(0.931)	124491	5.00000	3.471(a)
151 Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	87676	5.00000	4.411(a)
152 Benzo(k)fluoranthene	252	23.345	23.345	(0.955)	100619	5.00000	4.880(a)
153 Benzo(a)pyrene	252	24.255	24.255	(0.992)	78542	5.00000	4.583(a)
154 Indeno(1,2,3-cd)pyrene	276	26.311	26.311	(1.076)	52428	5.00000	3.586(a)
155 Dibenz(a,h)anthracene	278	26.360	26.360	(1.078)	52469	5.00000	3.564(a)
156 Benzo(g,h,i)perylene	276	26.695	26.695	(1.092)	71525	5.00000	4.714(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Date : 19-APR-2006 17:04
Client ID: CAL005PPM
Instrument: bna1.i
Sample Info: CAL005PPM;;;;;SV3350-3
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000384



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Lab Smp Id: CAL010PPM Client Smp ID: CAL010PPM
Inj Date : 19-APR-2006 17:41
Operator : ADM Inst ID: bna1.i
Smp Info : CAL010PPM;;;;;SV3350-4
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/20/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	451211	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	329284	20.0000	21.07
$	3 Phenol-d6	99	4.669	4.669	(0.951)	421244	20.0000	22.55
	4 Pyridine	79	2.980	2.980	(0.607)	204053	10.0000	10.14(a)
	5 N-Nitroso-di-methylamine	42	2.972	2.972	(0.605)	107740	10.0000	10.32
	6 Aniline	93	4.696	4.696	(0.956)	182559	10.0000	9.943
	8 Phenol	94	4.676	4.676	(0.952)	242634	10.0000	11.36
	9 bis(2-Chloroethyl)ether	93	4.738	4.738	(0.965)	202714	10.0000	10.83
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	157383	10.0000	10.60
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	180851	10.0000	10.74
	12 1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	170132	10.0000	10.65
	13 Benzyl alcohol	108	5.034	5.034	(1.025)	104367	10.0000	10.27
	14 1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	167450	10.0000	11.22
	15 2-Methylphenol	108	5.130	5.130	(1.045)	142427	10.0000	10.28

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	406264	10.0000	11.18
	17 3-Methylphenol	108	5.249	5.249	(1.069)	145547	10.0000	11.12(M)
	18 4-Methylphenol	108	5.249	5.249	(1.069)	145384	10.0000	11.11(M)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	143274	10.0000	11.07
	20 Hexachloroethane	117	5.330	5.330	(1.085)	75523	10.0000	10.62
*	31 Naphthalene-d8	136	6.108	6.108	(1.000)	1400300	40.0000	
$	32 Nitrobenzene-d5	82	5.392	5.392	(0.883)	153864	10.0000	10.06
	33 Nitrobenzene	77	5.413	5.413	(0.886)	162990	10.0000	10.53
	35 Isophorone	82	5.628	5.628	(0.921)	337864	10.0000	10.25
	36 2-Nitrophenol	139	5.717	5.717	(0.936)	73857	10.0000	8.995
	38 2,4-Dimethylphenol	107	5.745	5.745	(0.940)	141059	10.0000	10.62(a)
	39 Benzoic acid	105	5.827	5.827	(0.954)	60354	10.0000	7.253(aM)
	40 bis(2-Chloroethoxy)methane	93	5.854	5.854	(0.958)	210569	10.0000	10.62
	43 2,4-Dichlorophenol	162	5.958	5.958	(0.975)	113426	10.0000	10.34
	46 1,2,4-Trichlorobenzene	180	6.060	6.060	(0.992)	117341	10.0000	10.02
	47 Naphthalene	128	6.136	6.136	(1.004)	380277	10.0000	10.92
	48 4-Chloroaniline	127	6.225	6.225	(1.019)	148951	10.0000	10.46
	49 Hexachlorobutadiene	225	6.356	6.356	(1.041)	63250	10.0000	10.68
	50 4-Chloro-3-methylphenol	107	6.867	6.867	(1.124)	109973	10.0000	10.04
	51 2-Methylnaphthalene	141	7.061	7.061	(1.156)	213423	10.0000	10.67
	53 Acetophenone	105	5.255	5.255	(1.070)	210910	10.0000	11.40
	64 Caprolactam	113	6.629	6.629	(1.085)	34274	10.0000	8.588
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	725842	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.825)	33932	10.0000	7.824
	67 2,4,6-Trichlorophenol	196	7.575	7.575	(0.840)	67082	10.0000	9.852
	68 2,4,5-Trichlorophenol	196	7.630	7.630	(0.846)	68137	10.0000	9.660
	69 2-Chloronaphthalene	162	7.872	7.872	(0.873)	222381	10.0000	10.84
$	70 2-Fluorobiphenyl	172	7.713	7.713	(0.855)	239712	10.0000	10.38
	71 2-Nitroaniline	65	8.147	8.147	(0.903)	74506	10.0000	9.330(a)
	72 Dimethylphthalate	163	8.608	8.608	(0.954)	266177	10.0000	10.35
	73 Acenaphthylene	152	8.684	8.684	(0.963)	320879	10.0000	10.51
	74 2,6-Dinitrotoluene	165	8.732	8.732	(0.968)	48269	10.0000	8.567
	75 3-Nitroaniline	138	9.005	9.005	(0.998)	57620	10.0000	9.207(a)
	76 Acenaphthene	153	9.082	9.082	(1.007)	216491	10.0000	10.33
	77 2,4-Dinitrophenol	184	9.233	9.233	(1.024)	11927	10.0000	4.816(a)
	79 4-Nitrophenol	65	9.434	9.434	(1.046)	39392	10.0000	9.125(a)
	80 Dibenzofuran	168	9.434	9.434	(1.046)	303293	10.0000	10.45
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	60589	10.0000	8.494
	82 Diethylphthalate	149	10.256	10.256	(1.137)	282462	10.0000	11.47
	83 4-Chlorophenyl-phenylether	204	10.304	10.304	(1.142)	98876	10.0000	10.33
	84 Fluorene	166	10.235	10.235	(1.135)	230648	10.0000	10.29
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	44171	10.0000	8.228(a)
	96 1,1'-Biphenyl	154	7.865	7.865	(0.872)	290184	10.0000	11.26
*	98 Phenanthrene-d10	188	12.615	12.615	(1.000)	927460	40.0000	
	99 1,2-Diphenylhydrazine	77	10.684	10.684	(0.847)	325188	10.0000	10.43
	100 Carbazole	167	13.315	13.315	(1.055)	263893	10.0000	10.35
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	19387	10.0000	5.808(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

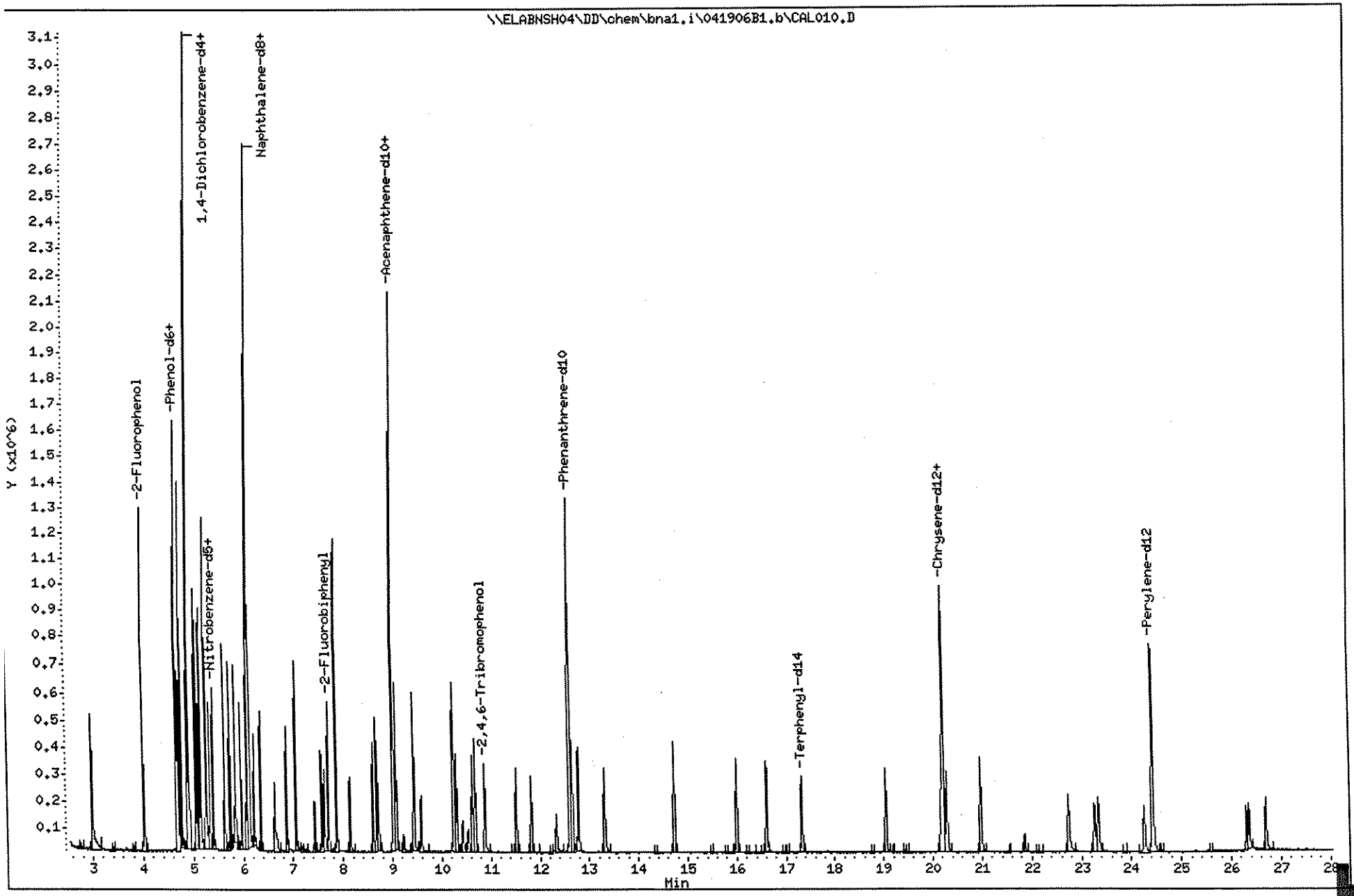
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	149668	10.0000	10.29
$	103 2,4,6-Tribromophenol	330	10.883	10.883	(0.863)	64685	20.0000	18.90
	104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	65210	10.0000	10.33
	105 Hexachlorobenzene	284	11.828	11.828	(0.938)	71643	10.0000	10.31
	106 Pentachlorophenol	266	12.335	12.335	(0.978)	34405	10.0000	7.809(a)
	107 Phenanthrene	178	12.670	12.670	(1.004)	269498	10.0000	10.19
	108 Anthracene	178	12.787	12.787	(1.014)	274651	10.0000	10.52
	110 Di-n-butylphthalate	149	14.735	14.735	(1.168)	449677	10.0000	10.44
	111 Fluoranthene	202	16.009	16.009	(1.269)	269448	10.0000	10.29
*	127 Chrysene-d12	240	20.227	20.227	(1.000)	676674	40.0000	
	129 Pyrene	202	16.612	16.612	(0.821)	266777	10.0000	9.872
$	130 Terphenyl-d14	244	17.326	17.326	(0.857)	169339	10.0000	9.910
	131 Butylbenzylphthalate	149	19.052	19.052	(0.942)	167331	10.0000	9.956
	133 Benzo(a)anthracene	228	20.179	20.179	(0.998)	211736	10.0000	9.712
	134 Chrysene	228	20.289	20.289	(1.003)	199340	10.0000	10.01
	135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	214066	10.0000	9.759
*	149 Perylene-d12	264	24.436	24.436	(1.000)	607007	40.0000	
	150 Di-n-octylphthalate	149	22.744	22.744	(0.931)	303554	10.0000	8.996
	151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	176724	10.0000	9.451
	152 Benzo(k)fluoranthene	252	23.342	23.342	(0.955)	204048	10.0000	10.52
	153 Benzo(a)pyrene	252	24.256	24.256	(0.993)	155167	10.0000	9.624
	154 Indeno(1,2,3-cd)pyrene	276	26.309	26.309	(1.077)	103651	10.0000	7.535
	155 Dibenz(a,h)anthracene	278	26.364	26.364	(1.079)	105250	10.0000	7.600
	156 Benzo(g,h,i)perylene	276	26.697	26.697	(1.093)	137357	10.0000	9.622

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Date : 19-APR-2006 17:41
Client ID: CAL010PPM
Instrument: bna1.i
Sample Info: CAL010PPM;;;;;SV3350-4
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000388



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Lab Smp Id: CAL020PPM Client Smp ID: CAL020PPM
Inj Date : 19-APR-2006 18:17
Operator : ADM Inst ID: bna1.i
Smp Info : CAL020PPM;;;;;SV3350-5
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH 2/16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	450379	40.0000	
$	2 2-Fluorophenol	112	4.006	4.006	(0.816)	696867	40.0000	44.67
$	3 Phenol-d6	99	4.676	4.676	(0.953)	837325	40.0000	44.90
	4 Pyridine	79	2.969	2.969	(0.605)	466100	20.0000	23.20
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	230605	20.0000	22.13
	6 Aniline	93	4.696	4.696	(0.957)	322468	20.0000	20.26
	8 Phenol	94	4.682	4.682	(0.954)	472819	20.0000	22.17
	9 bis(2-Chloroethyl)ether	93	4.737	4.737	(0.965)	395751	20.0000	21.18
	10 2-Chlorophenol	128	4.778	4.778	(0.973)	317071	20.0000	21.40
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	365029	20.0000	21.72
	12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	346837	20.0000	21.76
	13 Benzyl alcohol	108	5.033	5.033	(1.025)	221967	20.0000	21.89
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	326841	20.0000	21.94
	15 2-Methylphenol	108	5.136	5.136	(1.046)	296787	20.0000	21.47

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.157	5.157	(1.051)	790093	20.0000	21.78
	17 3-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	18 4-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	19 N-Nitroso-di-n-propylamine	70	5.280	5.280	(1.076)	274613	20.0000	21.26
	20 Hexachloroethane	117	5.335	5.335	(1.087)	152119	20.0000	21.44
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1389364	40.0000	
$	32 Nitrobenzene-d5	82	5.396	5.396	(0.883)	329513	20.0000	21.73
	33 Nitrobenzene	77	5.417	5.417	(0.886)	335345	20.0000	21.84
	35 Isophorone	82	5.630	5.630	(0.921)	677625	20.0000	20.72
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	177658	20.0000	21.81
	38 2,4-Dimethylphenol	107	5.748	5.748	(0.941)	272819	20.0000	20.70
	39 Benzoic acid	105	5.857	5.857	(0.959)	155745	20.0000	18.41(aM)
	40 bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.959)	418015	20.0000	21.24
	43 2,4-Dichlorophenol	162	5.960	5.960	(0.975)	234867	20.0000	21.58
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	252399	20.0000	21.73
	47 Naphthalene	128	6.138	6.138	(1.004)	757785	20.0000	21.94
	48 4-Chloroaniline	127	6.221	6.221	(1.018)	292038	20.0000	20.67
	49 Hexachlorobutadiene	225	6.358	6.358	(1.040)	125237	20.0000	21.32
	50 4-Chloro-3-methylphenol	107	6.876	6.876	(1.125)	231041	20.0000	21.26
	51 2-Methylnaphthalene	141	7.061	7.061	(1.155)	433542	20.0000	21.84
	53 Acetophenone	105	5.260	5.260	(1.071)	417425	20.0000	22.62
	64 Caprolactam	113	6.646	6.646	(1.087)	75217	20.0000	19.00
*	65 Acenaphthene-d10	164	9.020	9.020	(1.000)	697712	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	81904	20.0000	19.64
	67 2,4,6-Trichlorophenol	196	7.573	7.573	(0.840)	140462	20.0000	21.46
	68 2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	144400	20.0000	21.30
	69 2-Chloronaphthalene	162	7.876	7.876	(0.873)	439171	20.0000	22.28
$	70 2-Fluorobiphenyl	172	7.718	7.718	(0.856)	476178	20.0000	21.45
	71 2-Nitroaniline	65	8.151	8.151	(0.904)	164704	20.0000	21.46
	72 Dimethylphthalate	163	8.617	8.617	(0.955)	512687	20.0000	20.75
	73 Acenaphthylene	152	8.686	8.686	(0.963)	631061	20.0000	21.51
	74 2,6-Dinitrotoluene	165	8.733	8.733	(0.968)	106101	20.0000	19.59
	75 3-Nitroaniline	138	9.013	9.013	(0.999)	119722	20.0000	19.90(a)
	76 Acenaphthene	153	9.082	9.082	(1.007)	430062	20.0000	21.36
	77 2,4-Dinitrophenol	184	9.233	9.233	(1.024)	36080	20.0000	14.78(a)
	79 4-Nitrophenol	65	9.441	9.441	(1.047)	78728	20.0000	18.97(a)
	80 Dibenzofuran	168	9.441	9.441	(1.047)	597294	20.0000	21.40
	81 2,4-Dinitrotoluene	165	9.591	9.591	(1.063)	133829	20.0000	19.52
	82 Diethylphthalate	149	10.255	10.255	(1.137)	505710	20.0000	21.36
	83 4-Chlorophenyl-phenylether	204	10.310	10.310	(1.143)	187598	20.0000	20.39
	84 Fluorene	166	10.235	10.235	(1.135)	462776	20.0000	21.49
	85 4-Nitroaniline	138	10.441	10.441	(1.158)	94078	20.0000	18.23(a)
	96 1,1'-Biphenyl	154	7.869	7.869	(0.872)	563539	20.0000	22.75
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	894149	40.0000	
	99 1,2-Diphenylhydrazine	77	10.688	10.688	(0.847)	647315	20.0000	21.54
	100 Carbazole	167	13.318	13.318	(1.056)	499492	20.0000	20.33
	101 4,6-Dinitro-2-methylphenol	198	10.551	10.551	(0.836)	54723	20.0000	16.61(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.633	10.633	(0.843)	288892	20.0000	20.60
$ 103 2,4,6-Tribromophenol	330	10.881	10.881	(0.862)	141451	40.0000	42.88
104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	123696	20.0000	20.33
105 Hexachlorobenzene	284	11.834	11.834	(0.938)	135119	20.0000	20.17
106 Pentachlorophenol	266	12.342	12.342	(0.978)	75763	20.0000	17.84(a)
107 Phenanthrene	178	12.672	12.672	(1.004)	530235	20.0000	20.80
108 Anthracene	178	12.789	12.789	(1.014)	516667	20.0000	20.53
110 Di-n-butylphthalate	149	14.734	14.734	(1.168)	912958	20.0000	21.99
111 Fluoranthene	202	16.007	16.007	(1.269)	531348	20.0000	21.05
* 127 Chrysene-d12	240	20.228	20.228	(1.000)	640943	40.0000	
129 Pyrene	202	16.620	16.620	(0.822)	547094	20.0000	21.37
$ 130 Terphenyl-d14	244	17.334	17.334	(0.857)	346394	20.0000	21.40
131 Butylbenzylphthalate	149	19.050	19.050	(0.942)	345167	20.0000	21.68
133 Benzo(a)anthracene	228	20.180	20.180	(0.998)	428065	20.0000	20.73
134 Chrysene	228	20.297	20.297	(1.003)	394048	20.0000	20.89
135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	440244	20.0000	21.19
* 149 Perylene-d12	264	24.439	24.439	(1.000)	607539	40.0000	
150 Di-n-octylphthalate	149	22.747	22.747	(0.931)	692650	20.0000	20.51
151 Benzo(b)fluoranthene	252	23.272	23.272	(0.952)	387148	20.0000	20.69
152 Benzo(k)fluoranthene	252	23.354	23.354	(0.956)	402473	20.0000	20.73
153 Benzo(a)pyrene	252	24.260	24.260	(0.993)	339271	20.0000	21.02
154 Indeno(1,2,3-cd)pyrene	276	26.314	26.314	(1.077)	265116	20.0000	19.26
155 Dibenz(a,h)anthracene	278	26.369	26.369	(1.079)	253157	20.0000	18.26
156 Benzo(g,h,i)perylene	276	26.707	26.707	(1.093)	312710	20.0000	21.88

QC Flag Legend

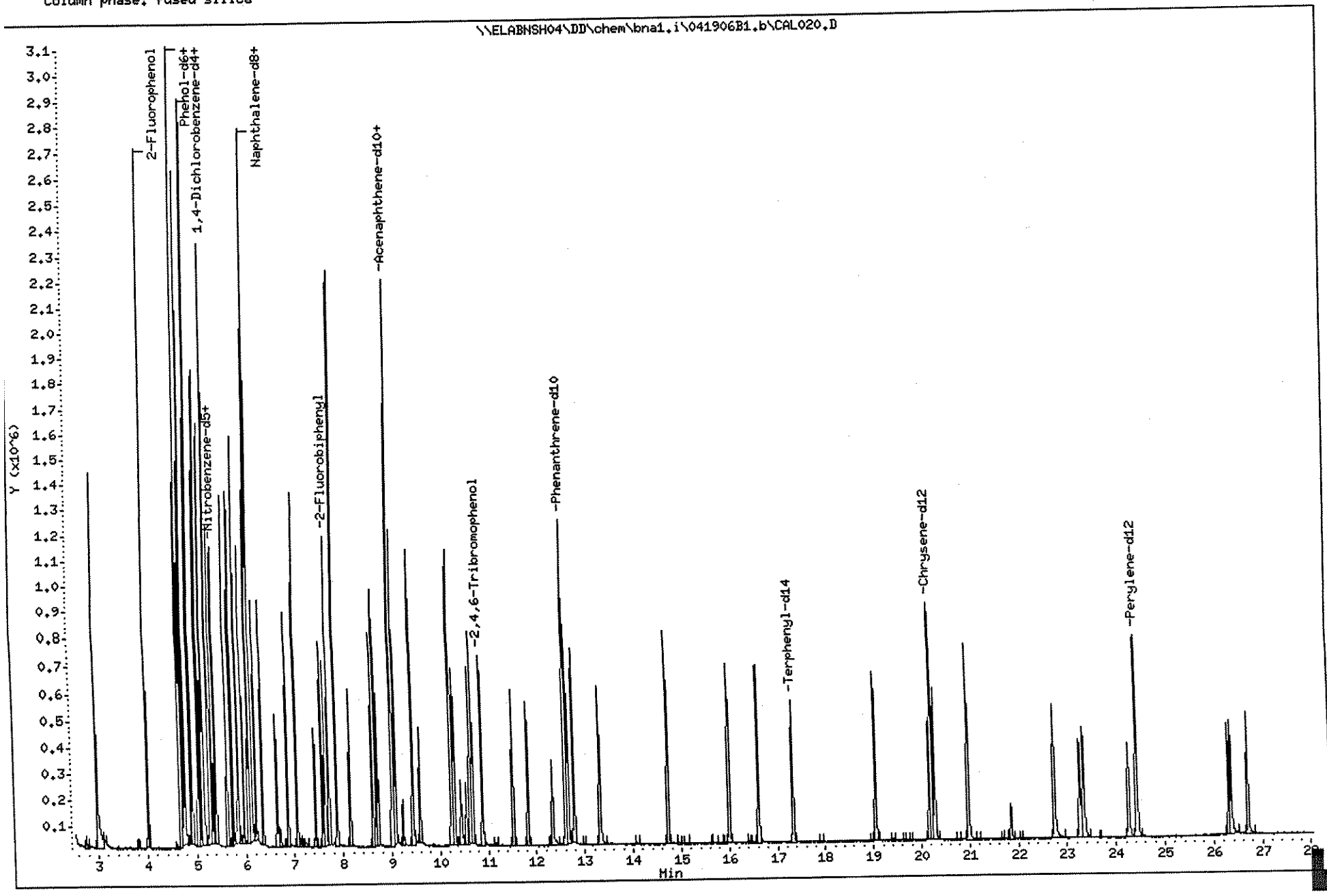
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Date : 19-APR-2006 18:17
Client ID: CAL020PPM
Sample Info: CAL020PPM;;;;;SV3350-5
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000392



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Lab Smp Id: CAL030PPM Client Smp ID: CAL030PPM
Inj Date : 19-APR-2006 18:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL030PPM;;;;;SV3350-6
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	464430	40.0000	
$	2 2-Fluorophenol	112	4.010	4.010	(0.816)	1010229	60.0000	62.80
$	3 Phenol-d6	99	4.673	4.673	(0.951)	1192818	60.0000	62.03
	4 Pyridine	79	2.974	2.974	(0.605)	605623	30.0000	29.23
	5 N-Nitroso-di-methylamine	42	2.981	2.981	(0.607)	331861	30.0000	30.89
	6 Aniline	93	4.701	4.701	(0.957)	430642	30.0000	28.59
	8 Phenol	94	4.687	4.687	(0.954)	673094	30.0000	30.61
	9 bis(2-Chloroethyl)ether	93	4.742	4.742	(0.965)	566971	30.0000	29.43
	10 2-Chlorophenol	128	4.776	4.776	(0.972)	466378	30.0000	30.52
	11 1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	528147	30.0000	30.47
	12 1,4-Dichlorobenzene	146	4.927	4.927	(1.003)	507205	30.0000	30.86
	13 Benzyl alcohol	108	5.037	5.037	(1.025)	327457	30.0000	31.31
	14 1,2-Dichlorobenzene	146	5.071	5.071	(1.032)	480377	30.0000	31.27
	15 2-Methylphenol	108	5.139	5.139	(1.046)	434863	30.0000	30.50

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.160	5.160	(1.050)	1139012	30.0000	30.46
	17 3-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	18 4-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	19 N-Nitroso-di-n-propylamine	70	5.284	5.284	(1.075)	407449	30.0000	30.59
	20 Hexachloroethane	117	5.332	5.332	(1.085)	227403	30.0000	31.08
*	31 Naphthalene-d8	136	6.114	6.114	(1.000)	1412532	40.0000	
$	32 Nitrobenzene-d5	82	5.400	5.400	(0.883)	485029	30.0000	31.46
	33 Nitrobenzene	77	5.414	5.414	(0.886)	497405	30.0000	31.86
	35 Isophorone	82	5.633	5.633	(0.921)	1016262	30.0000	30.56
	36 2-Nitrophenol	139	5.723	5.723	(0.936)	266463	30.0000	32.17
	38 2,4-Dimethylphenol	107	5.751	5.751	(0.941)	421700	30.0000	31.48
	39 Benzoic acid	105	5.874	5.874	(0.961)	265669	30.0000	30.04(M)
	40 bis(2-Chloroethoxy)methane	93	5.853	5.853	(0.957)	623397	30.0000	31.16
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	347064	30.0000	31.36
	46 1,2,4-Trichlorobenzene	180	6.066	6.066	(0.992)	358515	30.0000	30.36
	47 Naphthalene	128	6.135	6.135	(1.003)	1078056	30.0000	30.70
	48 4-Chloroaniline	127	6.224	6.224	(1.018)	427925	30.0000	29.79
	49 Hexachlorobutadiene	225	6.354	6.354	(1.039)	180165	30.0000	30.16
	50 4-Chloro-3-methylphenol	107	6.877	6.877	(1.125)	345748	30.0000	31.29
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	626848	30.0000	31.06
	53 Acetophenone	105	5.263	5.263	(1.071)	586107	30.0000	30.79
	64 Caprolactam	113	6.663	6.663	(1.090)	118291	30.0000	29.38
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	737007	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	130469	30.0000	29.62
	67 2,4,6-Trichlorophenol	196	7.577	7.577	(0.840)	212577	30.0000	30.75
	68 2,4,5-Trichlorophenol	196	7.639	7.639	(0.847)	226025	30.0000	31.56
	69 2-Chloronaphthalene	162	7.879	7.879	(0.874)	637892	30.0000	30.63
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	708455	30.0000	30.21
	71 2-Nitroaniline	65	8.154	8.154	(0.904)	256425	30.0000	31.62
	72 Dimethylphthalate	163	8.619	8.619	(0.956)	806666	30.0000	30.90
	73 Acenaphthylene	152	8.688	8.688	(0.963)	941664	30.0000	30.39
	74 2,6-Dinitrotoluene	165	8.736	8.736	(0.969)	171322	30.0000	29.95
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	192089	30.0000	30.23
	76 Acenaphthene	153	9.088	9.088	(1.008)	650998	30.0000	30.60
	77 2,4-Dinitrophenol	184	9.239	9.239	(1.024)	74027	30.0000	27.72(a)
	79 4-Nitrophenol	65	9.450	9.450	(1.048)	127528	30.0000	29.09
	80 Dibenzofuran	168	9.443	9.443	(1.047)	886023	30.0000	30.06
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	230417	30.0000	31.81
	82 Diethylphthalate	149	10.264	10.264	(1.138)	753378	30.0000	30.12
	83 4-Chlorophenyl-phenylether	204	10.312	10.312	(1.143)	297385	30.0000	30.60
	84 Fluorene	166	10.243	10.243	(1.136)	706258	30.0000	31.04
	85 4-Nitroaniline	138	10.456	10.456	(1.159)	159190	30.0000	29.20
	96 1,1'-Biphenyl	154	7.873	7.873	(0.873)	814600	30.0000	31.14
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	946325	40.0000	
	99 1,2-Diphenylhydrazine	77	10.689	10.689	(0.847)	964200	30.0000	30.31
	100 Carbazole	167	13.322	13.322	(1.056)	769275	30.0000	29.58
	101 4,6-Dinitro-2-methylphenol	198	10.558	10.558	(0.837)	107256	30.0000	29.81

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

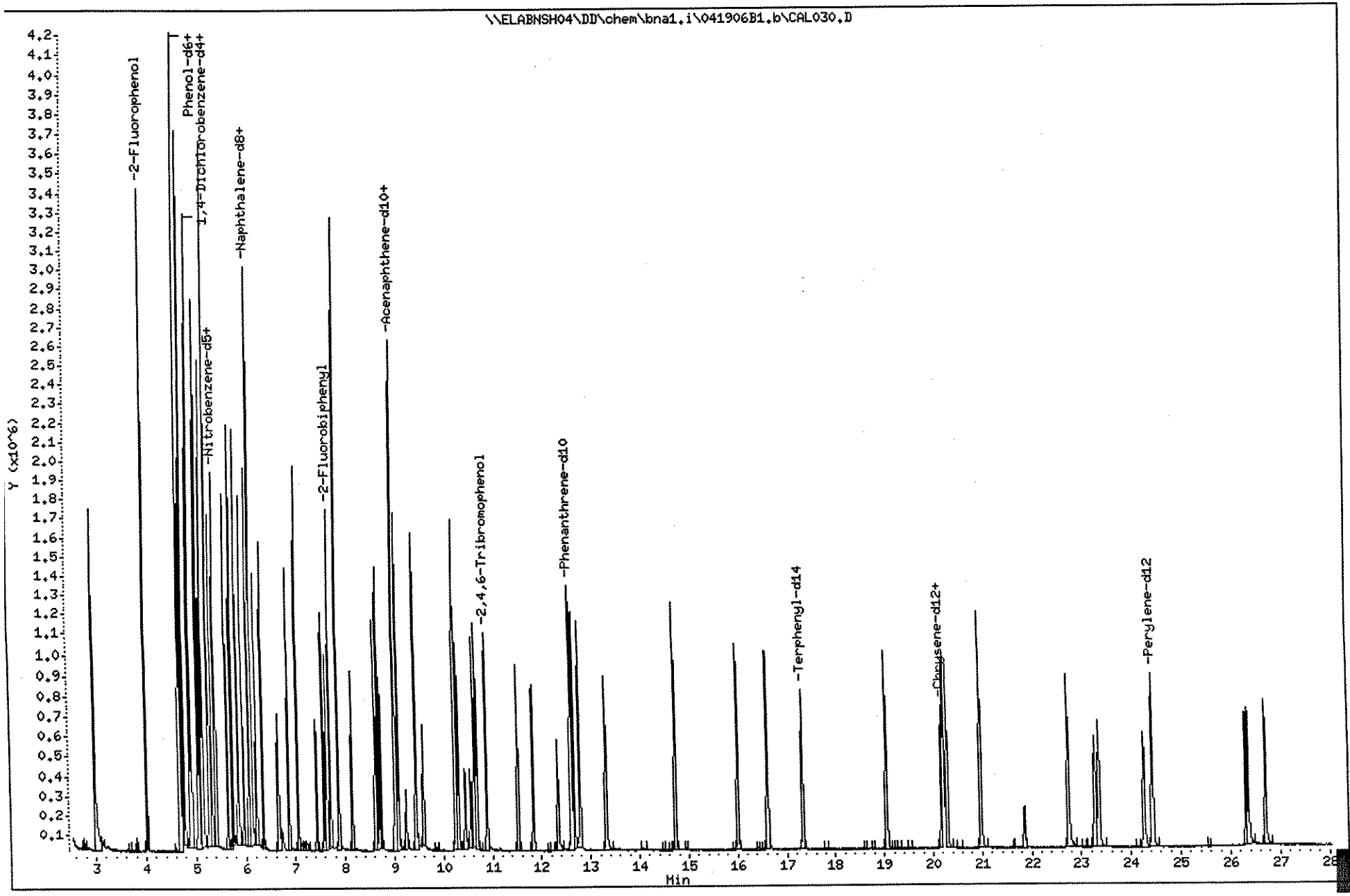
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.634	10.634	(0.843)	455975	30.0000	30.72
$ 103 2,4,6-Tribromophenol	330	10.888	10.888	(0.863)	229258	60.0000	65.67
104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	195029	30.0000	30.29
105 Hexachlorobenzene	284	11.838	11.838	(0.938)	218133	30.0000	30.77
106 Pentachlorophenol	266	12.342	12.342	(0.978)	136628	30.0000	30.39
107 Phenanthrene	178	12.680	12.680	(1.005)	820157	30.0000	30.40
108 Anthracene	178	12.797	12.797	(1.014)	804478	30.0000	30.20
110 Di-n-butylphthalate	149	14.736	14.736	(1.168)	1363073	30.0000	31.03
111 Fluoranthene	202	16.014	16.014	(1.269)	808227	30.0000	30.26
* 127 Chrysene-d12	240	20.232	20.232	(1.000)	698711	40.0000	
129 Pyrene	202	16.618	16.618	(0.821)	838844	30.0000	30.06
$ 130 Terphenyl-d14	244	17.334	17.334	(0.857)	526790	30.0000	29.86
131 Butylbenzylphthalate	149	19.055	19.055	(0.942)	528531	30.0000	30.46
133 Benzo(a)anthracene	228	20.184	20.184	(0.998)	674804	30.0000	29.97
134 Chrysene	228	20.301	20.301	(1.003)	620147	30.0000	30.16
135 Bis(2-ethylhexyl)phthalate	149	20.975	20.975	(1.037)	719235	30.0000	31.75
* 149 Perylene-d12	264	24.448	24.448	(1.000)	650081	40.0000	
150 Di-n-octylphthalate	149	22.746	22.746	(0.930)	1089806	30.0000	30.16
151 Benzo(b)fluoranthene	252	23.287	23.287	(0.953)	619083	30.0000	30.92
152 Benzo(k)fluoranthene	252	23.369	23.369	(0.956)	625224	30.0000	30.09
153 Benzo(a)pyrene	252	24.277	24.277	(0.993)	535702	30.0000	31.02
154 Indeno(1,2,3-cd)pyrene	276	26.320	26.320	(1.077)	424860	30.0000	28.84
155 Dibenz(a,h)anthracene	278	26.375	26.375	(1.079)	431599	30.0000	29.10
156 Benzo(g,h,i)perylene	276	26.717	26.717	(1.093)	505330	30.0000	33.05

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Date : 19-APR-2006 18:53
Client ID: CAL030PPM
Instrument: bna1.i
Sample Info: CAL030PPM;;;;;SV3350-6
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000396



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
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Inj Date : 19-APR-2006 19:29
Operator : ADM Inst ID: bna1.i
Smp Info : CAL040PPM;;;;;SV3350-7
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MMlc

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	416144	40.0000	
$ 2	2-Fluorophenol	112	4.007	4.007	(0.816)	1131144	80.0000	78.47
$ 3	Phenol-d6	99	4.678	4.678	(0.953)	1345512	80.0000	78.09
4	Pyridine	79	2.970	2.970	(0.605)	695183	40.0000	37.45(M)
5	N-Nitroso-di-methylamine	42	2.970	2.970	(0.605)	402275	40.0000	41.78
6	Aniline	93	4.699	4.699	(0.957)	497578	40.0000	40.71
8	Phenol	94	4.685	4.685	(0.954)	803609	40.0000	40.78
9	bis(2-Chloroethyl)ether	93	4.740	4.740	(0.965)	688737	40.0000	39.90
10	2-Chlorophenol	128	4.781	4.781	(0.973)	544377	40.0000	39.76
11	1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	624141	40.0000	40.19
12	1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	598793	40.0000	40.66
13	Benzyl alcohol	108	5.041	5.041	(1.026)	400526	40.0000	42.75
14	1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	565444	40.0000	41.08
15	2-Methylphenol	108	5.137	5.137	(1.046)	518506	40.0000	40.59

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	1339018	40.0000	39.96
	17 3-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	18 4-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	19 N-Nitroso-di-n-propylamine	70	5.288	5.288	(1.077)	479316	40.0000	40.16
	20 Hexachloroethane	117	5.336	5.336	(1.086)	265277	40.0000	40.46
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1245095	40.0000	
$	32 Nitrobenzene-d5	82	5.398	5.398	(0.883)	589998	40.0000	43.41
	33 Nitrobenzene	77	5.418	5.418	(0.887)	591594	40.0000	42.99
	35 Isophorone	82	5.638	5.638	(0.923)	1207688	40.0000	41.20
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	344956	40.0000	47.25
	38 2,4-Dimethylphenol	107	5.754	5.754	(0.942)	482772	40.0000	40.88
	39 Benzoic acid	105	5.884	5.884	(0.963)	349002	40.0000	43.24(M)
	40 bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.958)	719625	40.0000	40.81
	43 2,4-Dichlorophenol	162	5.967	5.967	(0.976)	409374	40.0000	41.97
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	434342	40.0000	41.74
	47 Naphthalene	128	6.139	6.139	(1.004)	1299869	40.0000	41.99
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	517261	40.0000	40.85
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	218690	40.0000	41.54
	50 4-Chloro-3-methylphenol	107	6.879	6.879	(1.126)	416049	40.0000	42.72
	51 2-Methylnaphthalene	141	7.064	7.064	(1.156)	771360	40.0000	43.36
	53 Acetophenone	105	5.267	5.267	(1.072)	667599	40.0000	39.14
	64 Caprolactam	113	6.667	6.667	(1.091)	145150	40.0000	40.90
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	664636	40.0000	
	66 Hexachlorocyclopentadiene	237	7.435	7.435	(0.824)	154155	40.0000	38.82
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.840)	262550	40.0000	42.11
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.847)	272749	40.0000	42.23
	69 2-Chloronaphthalene	162	7.875	7.875	(0.873)	743993	40.0000	39.62
$	70 2-Fluorobiphenyl	172	7.724	7.724	(0.856)	858727	40.0000	40.60
	71 2-Nitroaniline	65	8.156	8.156	(0.904)	315501	40.0000	43.14
	72 Dimethylphthalate	163	8.622	8.622	(0.956)	958109	40.0000	40.70
	73 Acenaphthylene	152	8.691	8.691	(0.964)	1130377	40.0000	40.45
	74 2,6-Dinitrotoluene	165	8.739	8.739	(0.969)	217178	40.0000	42.10
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	243351	40.0000	42.47
	76 Acenaphthene	153	9.088	9.088	(1.008)	775519	40.0000	40.43
	77 2,4-Dinitrophenol	184	9.238	9.238	(1.024)	102868	40.0000	41.01(a)
	79 4-Nitrophenol	65	9.457	9.457	(1.049)	171301	40.0000	43.34
	80 Dibenzofuran	168	9.443	9.443	(1.047)	1083574	40.0000	40.76
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	274029	40.0000	41.96
	82 Diethylphthalate	149	10.267	10.267	(1.138)	898163	40.0000	39.82
	83 4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	351190	40.0000	40.07
	84 Fluorene	166	10.240	10.240	(1.135)	834875	40.0000	40.69
	85 4-Nitroaniline	138	10.459	10.459	(1.160)	214239	40.0000	43.58
	96 1,1'-Biphenyl	154	7.875	7.875	(0.873)	946749	40.0000	40.13
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	864701	40.0000	
	99 1,2-Diphenylhydrazine	77	10.693	10.693	(0.847)	1158233	40.0000	39.85
	100 Carbazole	167	13.323	13.323	(1.056)	976062	40.0000	41.07
	101 4,6-Dinitro-2-methylphenol	198	10.562	10.562	(0.837)	134713	40.0000	39.91

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.638	10.638	(0.843)	531630	40.0000	39.19
$ 103 2,4,6-Tribromophenol	330	10.892	10.892	(0.863)	269677	80.0000	84.54
104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	234101	40.0000	39.79
105 Hexachlorobenzene	284	11.838	11.838	(0.938)	256776	40.0000	39.64
106 Pentachlorophenol	266	12.344	12.344	(0.978)	167421	40.0000	40.76
107 Phenanthrene	178	12.680	12.680	(1.005)	1004785	40.0000	40.75
108 Anthracene	178	12.797	12.797	(1.014)	972588	40.0000	39.96
110 Di-n-butylphthalate	149	14.740	14.740	(1.168)	1632749	40.0000	40.67
111 Fluoranthene	202	16.015	16.015	(1.269)	992534	40.0000	40.66
* 127 Chrysene-d12	240	20.229	20.229	(1.000)	649905	40.0000	
129 Pyrene	202	16.623	16.623	(0.822)	1032872	40.0000	39.79
$ 130 Terphenyl-d14	244	17.333	17.333	(0.857)	656143	40.0000	39.98
131 Butylbenzylphthalate	149	19.061	19.061	(0.942)	663983	40.0000	41.14
133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	846472	40.0000	40.42
134 Chrysene	228	20.305	20.305	(1.004)	783477	40.0000	40.96
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	890148	40.0000	42.25
* 149 Perylene-d12	264	24.444	24.444	(1.000)	607758	40.0000	
150 Di-n-octylphthalate	149	22.742	22.742	(0.930)	1414627	40.0000	41.87
151 Benzo(b)fluoranthene	252	23.286	23.286	(0.953)	781022	40.0000	41.72
152 Benzo(k)fluoranthene	252	23.368	23.368	(0.956)	796060	40.0000	40.98
153 Benzo(a)pyrene	252	24.278	24.278	(0.993)	688181	40.0000	42.63
154 Indeno(1,2,3-cd)pyrene	276	26.322	26.322	(1.077)	537683	40.0000	39.04
155 Dibenz(a,h)anthracene	278	26.370	26.370	(1.079)	541386	40.0000	39.04
156 Benzo(g,h,i)perylene	276	26.721	26.721	(1.093)	589362	40.0000	41.23

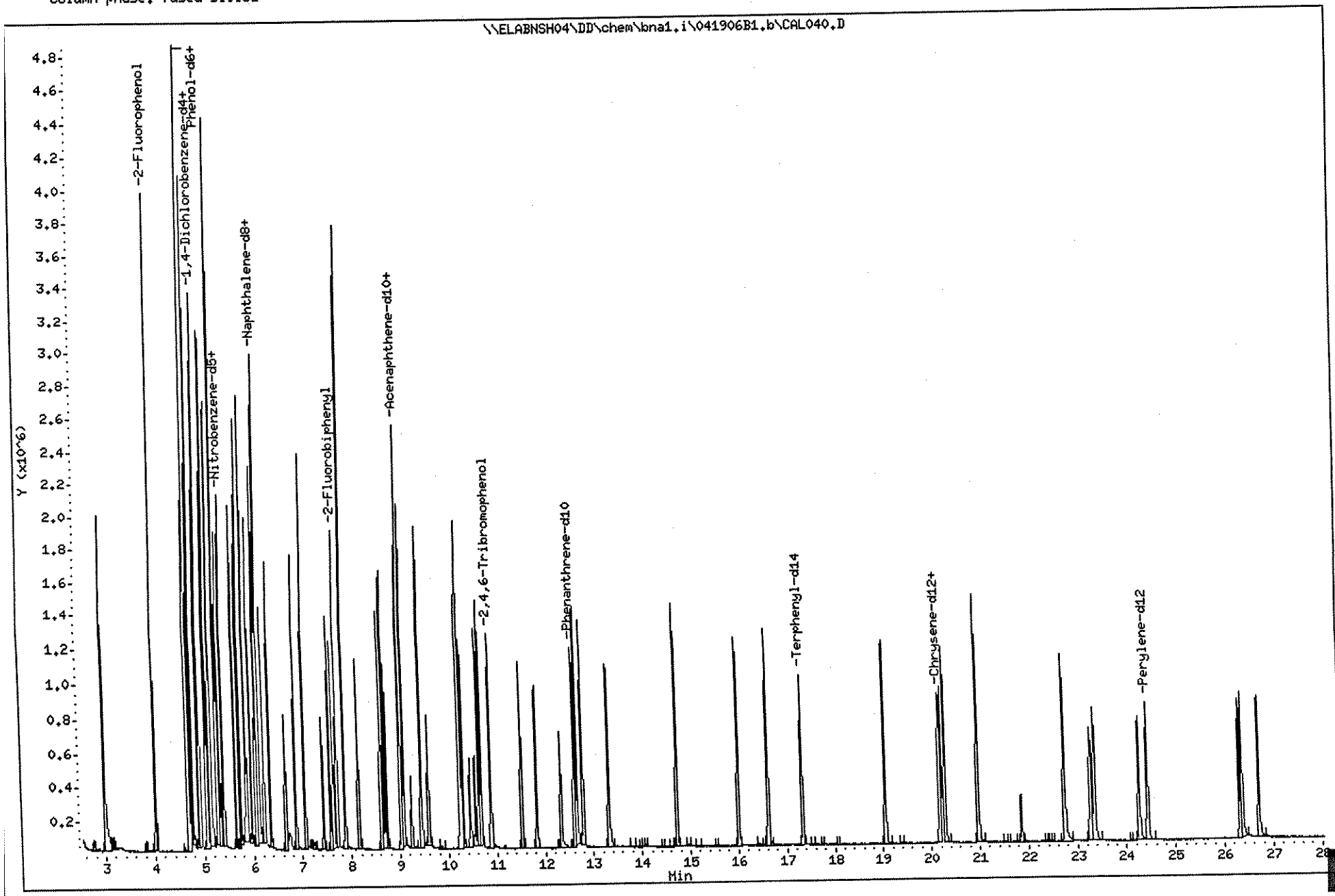
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Date : 19-APR-2006 19:29
Client ID: CAL040PPM
Sample Info: CAL040PPM;;;;;SV3350-7
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000400



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Lab Smp Id: CAL050PPM Client Smp ID: CAL050PPM
Inj Date : 19-APR-2006 20:05
Operator : ADM Inst ID: bna1.i
Smp Info : CAL050PPM;;;;;SV3350-8
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH 4/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	426841	40.0000	
$ 2 2-Fluorophenol	112	4.006	4.006	(0.816)	1394783	100.000	94.34
$ 3 Phenol-d6	99	4.676	4.676	(0.953)	1610208	100.000	91.11
4 Pyridine	79	2.964	2.964	(0.604)	943706	50.0000	49.56
5 N-Nitroso-di-methylamine	42	2.971	2.971	(0.605)	465853	50.0000	47.18
6 Aniline	93	4.703	4.703	(0.958)	1013897	50.0000	114.4(A)
8 Phenol	94	4.690	4.690	(0.955)	971534	50.0000	48.07
9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	821295	50.0000	46.38
10 2-Chlorophenol	128	4.778	4.778	(0.973)	710847	50.0000	50.62
11 1,3-Dichlorobenzene	146	4.882	4.882	(0.994)	744061	50.0000	46.71
12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	723387	50.0000	47.88
13 Benzyl alcohol	108	5.038	5.038	(1.026)	471992	50.0000	49.11
14 1,2-Dichlorobenzene	146	5.073	5.073	(1.033)	661473	50.0000	46.86
15 2-Methylphenol	108	5.135	5.135	(1.046)	630476	50.0000	48.12

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.B\CAL050.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.162	5.162	(1.052)	1578511	50.0000	45.92
	17 3-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	18 4-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	19 N-Nitroso-di-n-propylamine	70	5.286	5.286	(1.077)	586957	50.0000	47.94
	20 Hexachloroethane	117	5.334	5.334	(1.087)	323168	50.0000	48.05
*	31 Naphthalene-d8	136	6.117	6.117	(1.000)	1389508	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	723668	50.0000	47.71
	33 Nitrobenzene	77	5.416	5.416	(0.885)	699190	50.0000	45.53
	35 Isophorone	82	5.642	5.642	(0.922)	1461773	50.0000	44.68
	36 2-Nitrophenol	139	5.718	5.718	(0.935)	405832	50.0000	49.81
	38 2,4-Dimethylphenol	107	5.752	5.752	(0.940)	626896	50.0000	47.57
	39 Benzoic acid	105	5.903	5.903	(0.965)	448357	50.0000	48.97(M)
	40 bis(2-Chloroethoxy)methane	93	5.855	5.855	(0.957)	870457	50.0000	44.23
	43 2,4-Dichlorophenol	162	5.965	5.965	(0.975)	506423	50.0000	46.52
	46 1,2,4-Trichlorobenzene	180	6.061	6.061	(0.991)	517334	50.0000	44.54
	47 Naphthalene	128	6.137	6.137	(1.003)	1531061	50.0000	44.32
	48 4-Chloroaniline	127	6.227	6.227	(1.018)	720936	50.0000	51.02
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	268626	50.0000	45.72
	50 4-Chloro-3-methylphenol	107	6.885	6.885	(1.126)	514534	50.0000	47.34
	51 2-Methylnaphthalene	141	7.069	7.069	(1.156)	881205	50.0000	44.39
	53 Acetophenone	105	5.265	5.265	(1.073)	790123	50.0000	45.17
	64 Caprolactam	113	6.680	6.680	(1.092)	181604	50.0000	45.86
*	65 Acenaphthene-d10	164	9.022	9.022	(1.000)	677103	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	206574	50.0000	51.06
	67 2,4,6-Trichlorophenol	196	7.576	7.576	(0.840)	317582	50.0000	50.00
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.847)	334236	50.0000	50.80
	69 2-Chloronaphthalene	162	7.879	7.879	(0.873)	907587	50.0000	47.44
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	1036824	50.0000	48.12
	71 2-Nitroaniline	65	8.161	8.161	(0.905)	390061	50.0000	52.36
	72 Dimethylphthalate	163	8.628	8.628	(0.956)	1160123	50.0000	48.38
	73 Acenaphthylene	152	8.690	8.690	(0.963)	1352274	50.0000	47.50
	74 2,6-Dinitrotoluene	165	8.745	8.745	(0.969)	276761	50.0000	52.66
	75 3-Nitroaniline	138	9.029	9.029	(1.001)	299073	50.0000	51.23
	76 Acenaphthene	153	9.090	9.090	(1.008)	945069	50.0000	48.36
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.025)	146562	50.0000	54.64
	79 4-Nitrophenol	65	9.460	9.460	(1.049)	209395	50.0000	52.00
	80 Dibenzofuran	168	9.447	9.447	(1.047)	1308607	50.0000	48.32
	81 2,4-Dinitrotoluene	165	9.605	9.605	(1.065)	347886	50.0000	52.28
	82 Diethylphthalate	149	10.266	10.266	(1.138)	1085993	50.0000	47.26
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.143)	439071	50.0000	49.18
	84 Fluorene	166	10.245	10.245	(1.136)	1034771	50.0000	49.51
	85 4-Nitroaniline	138	10.465	10.465	(1.160)	266944	50.0000	53.30
	96 1,1'-Biphenyl	154	7.879	7.879	(0.873)	1131842	50.0000	47.09
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	895080	40.0000	
	99 1,2-Diphenylhydrazine	77	10.699	10.699	(0.848)	1400421	50.0000	46.55
	100 Carbazole	167	13.332	13.332	(1.057)	1184038	50.0000	48.14
	101 4,6-Dinitro-2-methylphenol	198	10.568	10.568	(0.838)	188363	50.0000	52.06

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.D\CAL050.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.644	10.644	(0.844)	663507	50.0000	47.25
$	103 2,4,6-Tribromophenol	330	10.898	10.898	(0.864)	349988	100.000	106.0(A)
	104 4-Bromophenyl-phenylether	248	11.532	11.532	(0.914)	288124	50.0000	47.31
	105 Hexachlorobenzene	284	11.844	11.844	(0.939)	317118	50.0000	47.29
	106 Pentachlorophenol	266	12.351	12.351	(0.979)	211144	50.0000	49.66
	107 Phenanthrene	178	12.681	12.681	(1.005)	1221426	50.0000	47.86
	108 Anthracene	178	12.804	12.804	(1.015)	1235438	50.0000	49.03
	110 Di-n-butylphthalate	149	14.741	14.741	(1.168)	1993207	50.0000	47.97
	111 Fluoranthene	202	16.018	16.018	(1.269)	1257210	50.0000	49.76
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	647428	40.0000	
	129 Pyrene	202	16.628	16.628	(0.822)	1262183	50.0000	48.82
$	130 Terphenyl-d14	244	17.340	17.340	(0.857)	848795	50.0000	51.92
	131 Butylbenzylphthalate	149	19.062	19.062	(0.942)	826767	50.0000	51.42
	133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	1100974	50.0000	52.78
	134 Chrysene	228	20.312	20.312	(1.004)	974329	50.0000	51.14
	135 Bis(2-ethylhexyl)phthalate	149	20.982	20.982	(1.037)	1136949	50.0000	54.17
*	149 Perylene-d12	264	24.443	24.443	(1.000)	688233	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	1736325	50.0000	45.38
	151 Benzo(b)fluoranthene	252	23.293	23.293	(0.953)	1043986	50.0000	49.24
	152 Benzo(k)fluoranthene	252	23.382	23.382	(0.957)	1019570	50.0000	46.35
	153 Benzo(a)pyrene	252	24.285	24.285	(0.994)	932801	50.0000	51.02
	154 Indeno(1,2,3-cd)pyrene	276	26.324	26.324	(1.077)	763675	50.0000	48.96
	155 Dibenz(a,h)anthracene	278	26.380	26.380	(1.079)	731520	50.0000	46.59
	156 Benzo(g,h,i)perylene	276	26.729	26.729	(1.094)	819253	50.0000	50.61

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Date : 19-APR-2006 20:05
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Instrument: bna1.i
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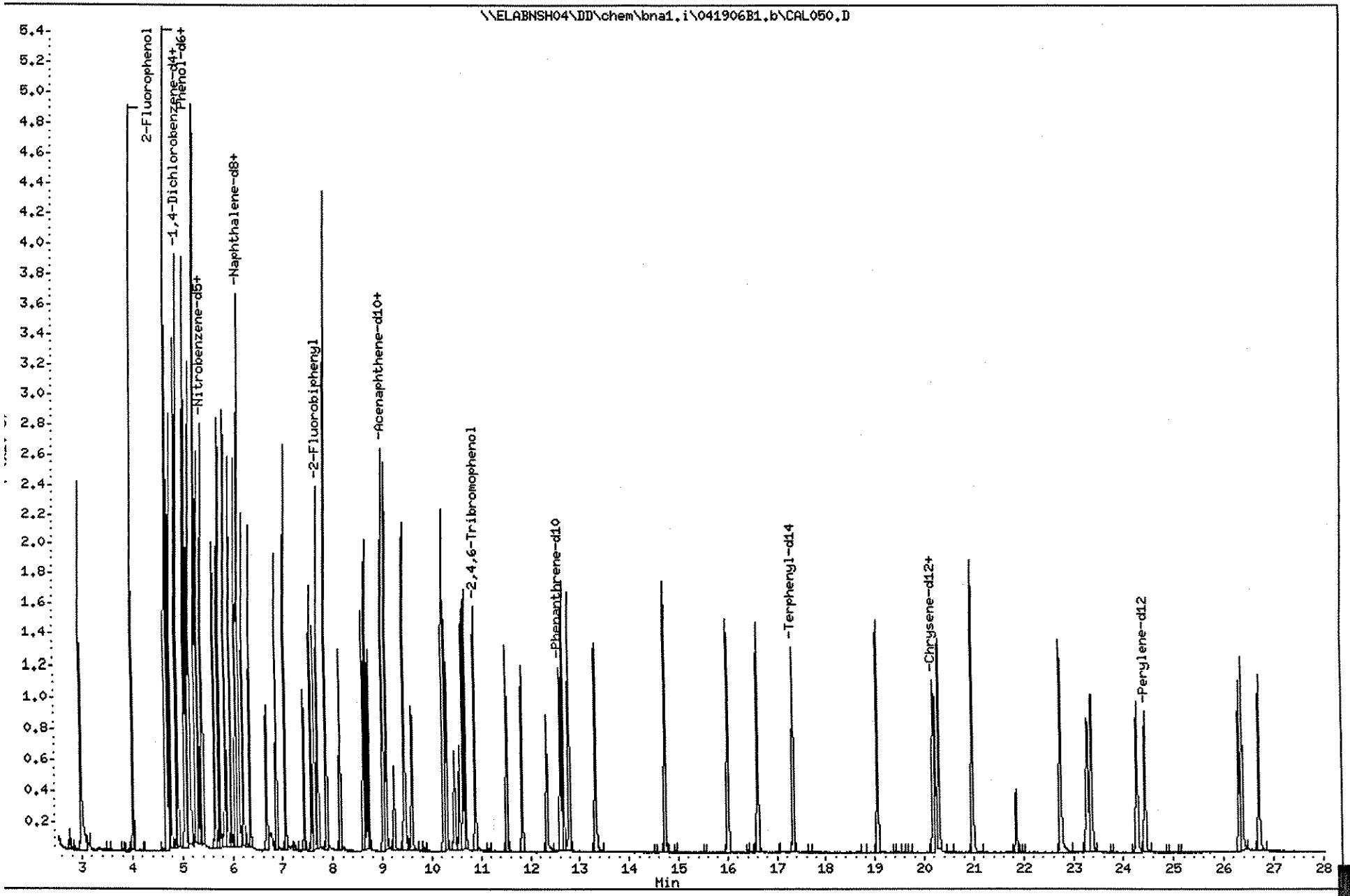
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000404



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
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Inj Date : 19-APR-2006 20:41
Operator : ADM Inst ID: bna1.i
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Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MJMC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	346547	40.0000	
$	2 2-Fluorophenol	112	4.004	4.004	(0.816)	1393005	120.000	116.0(A)
$	3 Phenol-d6	99	4.676	4.676	(0.953)	1670274	120.000	116.4(A)
	4 Pyridine	79	2.956	2.956	(0.602)	944907	60.0000	61.13
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	490843	60.0000	61.22
	6 Aniline	93	4.697	4.697	(0.957)	589493	60.0000	68.21
	8 Phenol	94	4.690	4.690	(0.955)	919741	60.0000	56.05
	9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	864560	60.0000	60.14
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	659441	60.0000	57.84
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	772055	60.0000	59.70
	12 1,4-Dichlorobenzene	146	4.923	4.923	(1.003)	716692	60.0000	58.43
	13 Benzyl alcohol	108	5.039	5.039	(1.027)	479538	60.0000	61.46
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	666044	60.0000	58.11
	15 2-Methylphenol	108	5.135	5.135	(1.046)	628825	60.0000	59.11

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.156	5.156	(1.050)	1610415	60.0000	57.71
	17 3-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	18 4-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	19 N-Nitroso-di-n-propylamine	70	5.287	5.287	(1.077)	585339	60.0000	58.89
	20 Hexachloroethane	117	5.335	5.335	(1.087)	324975	60.0000	59.52
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1067027	40.0000	
$	32 Nitrobenzene-d5	82	5.396	5.396	(0.883)	730272	60.0000	62.70
	33 Nitrobenzene	77	5.417	5.417	(0.886)	724122	60.0000	61.40
	35 Isophorone	82	5.637	5.637	(0.922)	1461141	60.0000	58.16
	36 2-Nitrophenol	139	5.719	5.719	(0.936)	414451	60.0000	66.24
	38 2,4-Dimethylphenol	107	5.753	5.753	(0.942)	573890	60.0000	56.71
	39 Benzoic acid	105	5.904	5.904	(0.966)	463519	60.0000	63.06(M)
	40 bis(2-Chloroethoxy)methane	93	5.856	5.856	(0.958)	883190	60.0000	58.44
	43 2,4-Dichlorophenol	162	5.966	5.966	(0.976)	502273	60.0000	60.08
	46 1,2,4-Trichlorobenzene	180	6.062	6.062	(0.992)	508466	60.0000	57.01
	47 Naphthalene	128	6.138	6.138	(1.004)	1531321	60.0000	57.72
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	626869	60.0000	57.77
	49 Hexachlorobutadiene	225	6.358	6.358	(1.040)	265793	60.0000	58.91
	50 4-Chloro-3-methylphenol	107	6.880	6.880	(1.126)	513775	60.0000	61.56
	51 2-Methylnaphthalene	141	7.065	7.065	(1.156)	897226	60.0000	58.86
	53 Acetophenone	105	5.266	5.266	(1.073)	790617	60.0000	55.67
	64 Caprolactam	113	6.681	6.681	(1.093)	190694	60.0000	62.70
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	557024	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.825)	201477	60.0000	60.53
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.841)	329890	60.0000	63.14
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.848)	334706	60.0000	61.83
	69 2-Chloronaphthalene	162	7.882	7.882	(0.874)	894517	60.0000	56.84
$	70 2-Fluorobiphenyl	172	7.725	7.725	(0.857)	1004156	60.0000	56.65
	71 2-Nitroaniline	65	8.157	8.157	(0.905)	395529	60.0000	64.54
	72 Dimethylphthalate	163	8.624	8.624	(0.957)	1170259	60.0000	59.32
	73 Acenaphthylene	152	8.686	8.686	(0.963)	1365262	60.0000	58.29
	74 2,6-Dinitrotoluene	165	8.741	8.741	(0.970)	276121	60.0000	63.86
	75 3-Nitroaniline	138	9.029	9.029	(1.002)	314116	60.0000	65.41
	76 Acenaphthene	153	9.091	9.091	(1.008)	939345	60.0000	58.43
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.026)	147077	60.0000	64.10
	79 4-Nitrophenol	65	9.468	9.468	(1.050)	222415	60.0000	67.14
	80 Dibenzofuran	168	9.448	9.448	(1.048)	1331507	60.0000	59.77
	81 2,4-Dinitrotoluene	165	9.606	9.606	(1.065)	356478	60.0000	65.12
	82 Diethylphthalate	149	10.271	10.271	(1.139)	1074515	60.0000	56.85
	83 4-Chlorophenyl-phenylether	204	10.313	10.313	(1.144)	436159	60.0000	59.38
	84 Fluorene	166	10.244	10.244	(1.136)	1029059	60.0000	59.85
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	285115	60.0000	69.20
	96 1,1'-Biphenyl	154	7.875	7.875	(0.874)	1114873	60.0000	56.38
*	98 Phenanthrene-d10	188	12.619	12.619	(1.000)	753681	40.0000	
	99 1,2-Diphenylhydrazine	77	10.697	10.697	(0.848)	1423240	60.0000	56.18
	100 Carbazole	167	13.332	13.332	(1.056)	1236436	60.0000	59.70
	101 4,6-Dinitro-2-methylphenol	198	10.573	10.573	(0.838)	191799	60.0000	61.16

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

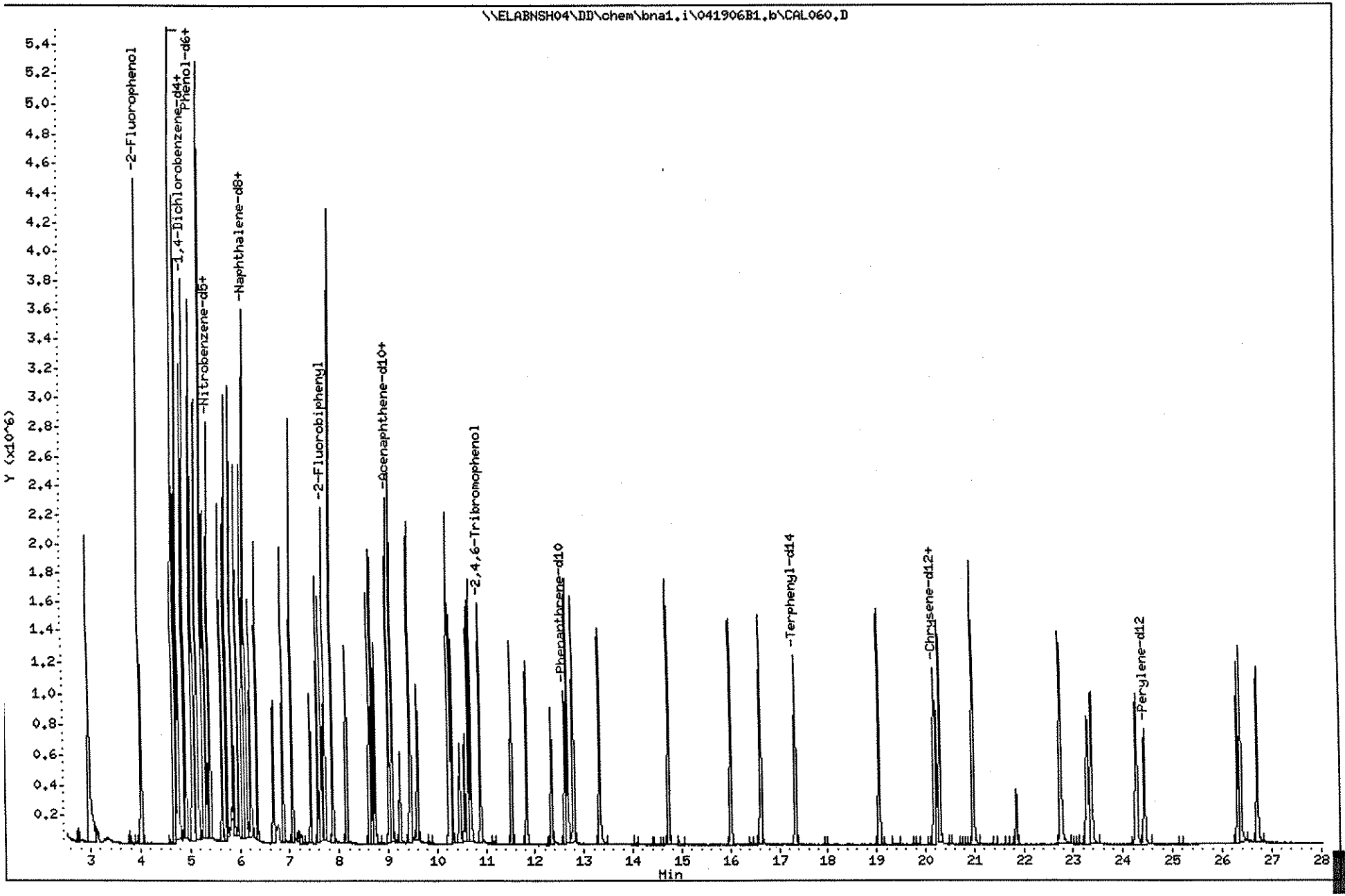
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.642	10.642	(0.843)	684957	60.0000	57.93
$ 103 2,4,6-Tribromophenol	330	10.896	10.896	(0.863)	345236	120.000	124.2(A)
104 4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	294644	60.0000	57.45
105 Hexachlorobenzene	284	11.841	11.841	(0.938)	319630	60.0000	56.61
106 Pentachlorophenol	266	12.343	12.343	(0.978)	215024	60.0000	60.06
107 Phenanthrene	178	12.681	12.681	(1.005)	1254669	60.0000	58.39
108 Anthracene	178	12.805	12.805	(1.015)	1238697	60.0000	58.39
110 Di-n-butylphthalate	149	14.742	14.742	(1.168)	2011711	60.0000	57.49
111 Fluoranthene	202	16.023	16.023	(1.270)	1297131	60.0000	60.97
* 127 Chrysene-d12	240	20.232	20.232	(1.000)	576436	40.0000	
129 Pyrene	202	16.632	16.632	(0.822)	1283874	60.0000	55.77
$ 130 Terphenyl-d14	244	17.335	17.335	(0.857)	842167	60.0000	57.86
131 Butylbenzylphthalate	149	19.063	19.063	(0.942)	874398	60.0000	61.08
133 Benzo(a)anthracene	228	20.191	20.191	(0.998)	1111140	60.0000	59.83
134 Chrysene	228	20.308	20.308	(1.004)	1030757	60.0000	60.76
135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	1135176	60.0000	60.75
* 149 Perylene-d12	264	24.442	24.442	(1.000)	554238	40.0000	
150 Di-n-octylphthalate	149	22.749	22.749	(0.931)	1815279	60.0000	58.92
151 Benzo(b)fluoranthene	252	23.295	23.295	(0.953)	1023868	60.0000	59.97
152 Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1073440	60.0000	60.60
153 Benzo(a)pyrene	252	24.283	24.283	(0.993)	922340	60.0000	62.65
154 Indeno(1,2,3-cd)pyrene	276	26.326	26.326	(1.077)	797190	60.0000	63.47
155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	776403	60.0000	61.40
156 Benzo(g,h,i)perylene	276	26.726	26.726	(1.093)	849219	60.0000	65.15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Date : 19-APR-2006 20:41
Client ID: CAL060PPM
Instrument: bna1.i
Sample Info: CAL060PPM;;;;;SV3350-9
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000408



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Lab Smp Id: CAL070PPM Client Smp ID: CAL070PPM
Inj Date : 19-APR-2006 21:17
Operator : ADM Inst ID: bna1.i
Smp Info : CAL070PPM;;;;;SV3350-10
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mn/mc

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.915	4.915	(1.000)	356087	40.0000	
$ 2	2-Fluorophenol	112	4.005	4.005	(0.815)	1726249	140.000	140.0(A)
$ 3	Phenol-d6	99	4.681	4.681	(0.953)	1955298	140.000	132.6(A)
4	Pyridine	79	2.968	2.968	(0.604)	1140339	70.0000	71.79
5	N-Nitroso-di-methylamine	42	2.974	2.974	(0.605)	564112	70.0000	68.48
6	Aniline	93	4.702	4.702	(0.957)	659657	70.0000	77.65
8	Phenol	94	4.688	4.688	(0.954)	1063294	70.0000	63.06
9	bis(2-Chloroethyl)ether	93	4.743	4.743	(0.965)	967706	70.0000	65.51
10	2-Chlorophenol	128	4.784	4.784	(0.973)	777670	70.0000	66.38
11	1,3-Dichlorobenzene	146	4.887	4.887	(0.994)	913023	70.0000	68.71
12	1,4-Dichlorobenzene	146	4.929	4.929	(1.003)	852332	70.0000	67.63
13	Benzyl alcohol	108	5.045	5.045	(1.026)	553670	70.0000	69.06
14	1,2-Dichlorobenzene	146	5.079	5.079	(1.033)	778386	70.0000	66.10
15	2-Methylphenol	108	5.140	5.140	(1.046)	730358	70.0000	66.82

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	1873601	70.0000	65.34
	17 3-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.36(H)
	18 4-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.37(H)
	19 N-Nitroso-di-n-propylamine	70	5.292	5.292	(1.077)	686163	70.0000	67.18
	20 Hexachloroethane	117	5.333	5.333	(1.085)	392042	70.0000	69.88
*	31 Naphthalene-d8	136	6.115	6.115	(1.000)	1106528	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	858803	70.0000	71.10
	33 Nitrobenzene	77	5.422	5.422	(0.887)	840170	70.0000	68.70
	35 Isophorone	82	5.642	5.642	(0.923)	1719973	70.0000	66.02
	36 2-Nitrophenol	139	5.724	5.724	(0.936)	492380	70.0000	75.89
	38 2,4-Dimethylphenol	107	5.758	5.758	(0.942)	682599	70.0000	65.04
	39 Benzoic acid	105	5.909	5.909	(0.966)	517866	70.0000	67.01(M)
	40 bis(2-Chloroethoxy)methane	93	5.861	5.861	(0.958)	1015334	70.0000	64.78
	43 2,4-Dichlorophenol	162	5.971	5.971	(0.976)	584957	70.0000	67.48
	46 1,2,4-Trichlorobenzene	180	6.067	6.067	(0.992)	638907	70.0000	69.08
	47 Naphthalene	128	6.142	6.142	(1.004)	1784366	70.0000	64.86
	48 4-Chloroaniline	127	6.225	6.225	(1.018)	706313	70.0000	62.76
	49 Hexachlorobutadiene	225	6.356	6.356	(1.039)	312907	70.0000	66.88
	50 4-Chloro-3-methylphenol	107	6.884	6.884	(1.126)	608276	70.0000	70.28
	51 2-Methylnaphthalene	141	7.068	7.068	(1.156)	984687	70.0000	62.29
	53 Acetophenone	105	5.271	5.271	(1.072)	904661	70.0000	61.99
	64 Caprolactam	113	6.692	6.692	(1.094)	227965	70.0000	72.28
*	65 Acenaphthene-d10	164	9.018	9.018	(1.000)	570025	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	199940	70.0000	58.70
	67 2,4,6-Trichlorophenol	196	7.583	7.583	(0.841)	374761	70.0000	70.09
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.848)	387285	70.0000	69.92
	69 2-Chloronaphthalene	162	7.886	7.886	(0.874)	1031414	70.0000	64.04
$	70 2-Fluorobiphenyl	172	7.728	7.728	(0.857)	1208004	70.0000	66.59
	71 2-Nitroaniline	65	8.160	8.160	(0.905)	452096	70.0000	72.08
	72 Dimethylphthalate	163	8.627	8.627	(0.957)	1373041	70.0000	68.01
	73 Acenaphthylene	152	8.689	8.689	(0.964)	1600955	70.0000	66.80
	74 2,6-Dinitrotoluene	165	8.751	8.751	(0.970)	324126	70.0000	73.25
	75 3-Nitroaniline	138	9.032	9.032	(1.002)	324303	70.0000	65.99
	76 Acenaphthene	153	9.094	9.094	(1.008)	1116149	70.0000	67.85
	77 2,4-Dinitrophenol	184	9.252	9.252	(1.026)	162510	70.0000	67.99
	79 4-Nitrophenol	65	9.470	9.470	(1.050)	221749	70.0000	65.41
	80 Dibenzofuran	168	9.450	9.450	(1.048)	1523389	70.0000	66.82
	81 2,4-Dinitrotoluene	165	9.607	9.607	(1.065)	407281	70.0000	72.71
	82 Diethylphthalate	149	10.272	10.272	(1.139)	1297373	70.0000	67.07
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.144)	513049	70.0000	68.26
	84 Fluorene	166	10.251	10.251	(1.137)	1180279	70.0000	67.08
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	265517	70.0000	62.98
	96 1,1'-Biphenyl	154	7.879	7.879	(0.874)	1283268	70.0000	63.42
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	694954	40.0000	
	99 1,2-Diphenylhydrazine	77	10.698	10.698	(0.848)	1610960	70.0000	68.97
	100 Carbazole	167	13.330	13.330	(1.057)	1271070	70.0000	66.55
	101 4,6-Dinitro-2-methylphenol	198	10.574	10.574	(0.838)	205794	70.0000	69.18

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102	N-Nitrosodiphenylamine	169	10.649	10.649	(0.844)	761903	70.0000	69.89
$ 103	2,4,6-Tribromophenol	330	10.896	10.896	(0.864)	386238	140.000	150.6(A)
104	4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	338155	70.0000	71.51
105	Hexachlorobenzene	284	11.841	11.841	(0.939)	370833	70.0000	71.22
106	Pentachlorophenol	266	12.348	12.348	(0.979)	242378	70.0000	73.42
107	Phenanthrene	178	12.685	12.685	(1.005)	1350093	70.0000	68.14
108	Anthracene	178	12.802	12.802	(1.015)	1301163	70.0000	66.51
110	Di-n-butylphthalate	149	14.747	14.747	(1.169)	2295255	70.0000	71.14
111	Fluoranthene	202	16.025	16.025	(1.270)	1344877	70.0000	68.56
* 127	Chrysene-d12	240	20.229	20.229	(1.000)	453976	40.0000	
129	Pyrene	202	16.632	16.632	(0.822)	1346204	70.0000	74.25
$ 130	Terphenyl-d14	244	17.339	17.339	(0.857)	851735	70.0000	74.30
131	Butylbenzylphthalate	149	19.060	19.060	(0.942)	908313	70.0000	80.56
133	Benzo(a)anthracene	228	20.188	20.188	(0.998)	1037608	70.0000	70.94
134	Chrysene	228	20.305	20.305	(1.004)	956853	70.0000	71.62
135	Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1186218	70.0000	80.60
* 149	Perylene-d12	264	24.439	24.439	(1.000)	367952	40.0000	
150	Di-n-octylphthalate	149	22.746	22.746	(0.931)	1659995	70.0000	81.16
151	Benzo(b)fluoranthene	252	23.290	23.290	(0.953)	851399	70.0000	75.12
152	Benzo(k)fluoranthene	252	23.373	23.373	(0.956)	872371	70.0000	74.18
153	Benzo(a)pyrene	252	24.280	24.280	(0.993)	730032	70.0000	74.69
154	Indeno(1,2,3-cd)pyrene	276	26.317	26.317	(1.077)	568920	70.0000	68.22
155	Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	565396	70.0000	67.35
156	Benzo(g,h,i)perylene	276	26.723	26.723	(1.093)	609575	70.0000	70.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
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Instrument: bna1.i
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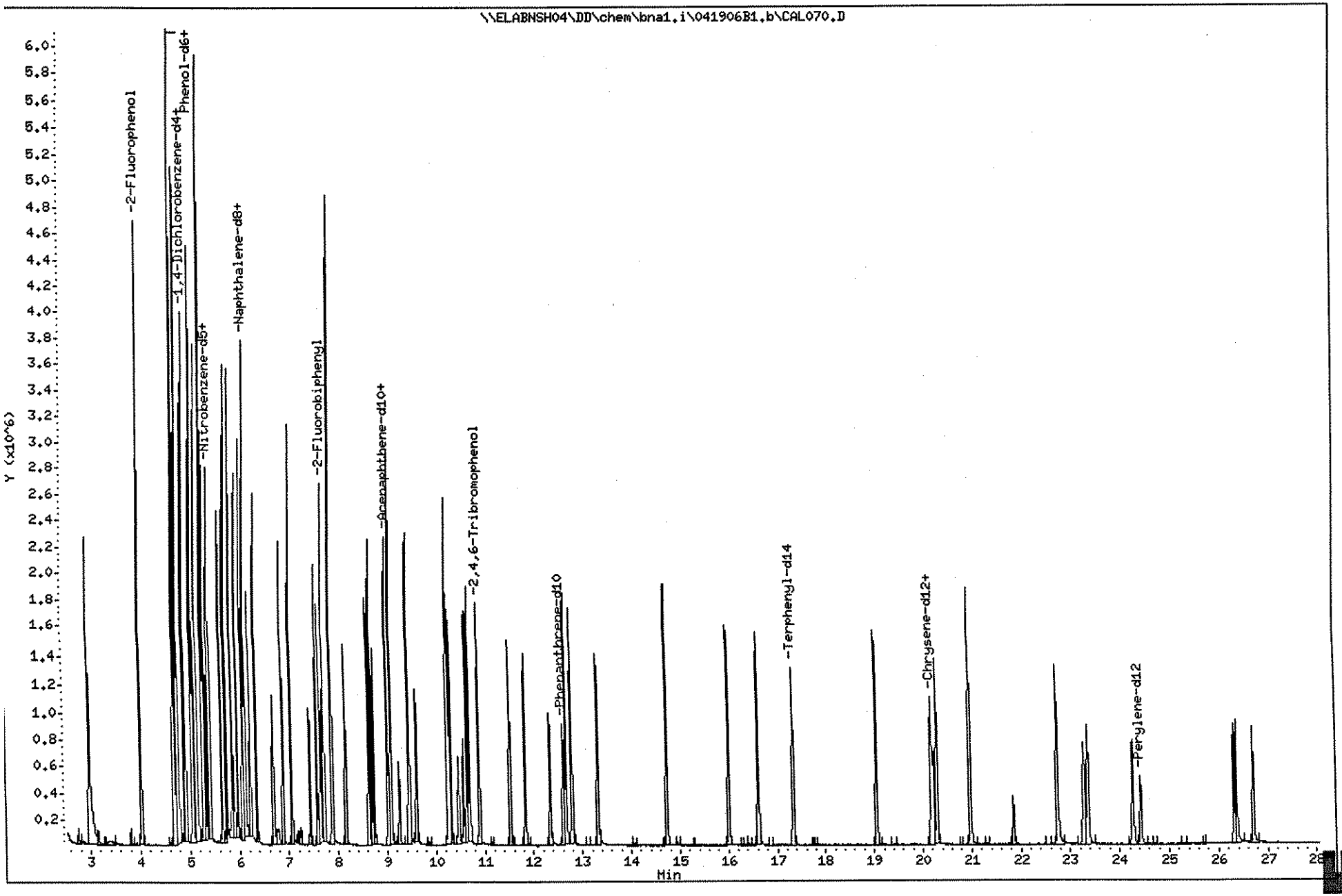
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000412



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
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Inj Date : 19-APR-2006 21:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL080PPM;;;;;SV3350-11
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 12 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MMC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.916	4.916	(1.000)	395752	40.0000	
$	2 2-Fluorophenol	112	4.009	4.009	(0.816)	2081876	160.000	151.9(A)
$	3 Phenol-d6	99	4.683	4.683	(0.953)	2340308	160.000	142.8(A)
	4 Pyridine	79	2.969	2.969	(0.604)	1426222	80.0000	80.79
	5 N-Nitroso-di-methylamine	42	2.977	2.977	(0.606)	711587	80.0000	77.72
	6 Aniline	93	4.704	4.704	(0.957)	796870	80.0000	88.28
	8 Phenol	94	4.696	4.696	(0.955)	1281093	80.0000	68.36
	9 bis(2-Chloroethyl)ether	93	4.745	4.745	(0.965)	1209383	80.0000	73.66
	10 2-Chlorophenol	128	4.786	4.786	(0.974)	942065	80.0000	72.36
	11 1,3-Dichlorobenzene	146	4.888	4.888	(0.994)	1096078	80.0000	74.22
	12 1,4-Dichlorobenzene	146	4.930	4.930	(1.003)	1022524	80.0000	73.00
	13 Benzyl alcohol	108	5.046	5.046	(1.026)	705637	80.0000	79.19
	14 1,2-Dichlorobenzene	146	5.080	5.080	(1.033)	934784	80.0000	71.42
	15 2-Methylphenol	108	5.142	5.142	(1.046)	946682	80.0000	77.93

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.B\CAL080.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.163	5.163	(1.050)	2261747	80.0000	70.97
	17 3-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.47(H)
	18 4-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.48(H)
	19 N-Nitroso-di-n-propylamine	70	5.293	5.293	(1.077)	881543	80.0000	77.66
	20 Hexachloroethane	117	5.335	5.335	(1.085)	472769	80.0000	75.82
*	31 Naphthalene-d8	136	6.118	6.118	(1.000)	1203800	40.0000	
$	32 Nitrobenzene-d5	82	5.403	5.403	(0.883)	1080921	80.0000	82.26
	33 Nitrobenzene	77	5.424	5.424	(0.887)	1029846	80.0000	77.40
	35 Isophorone	82	5.643	5.643	(0.922)	2239710	80.0000	79.02
	36 2-Nitrophenol	139	5.726	5.726	(0.936)	621853	80.0000	88.10
	38 2,4-Dimethylphenol	107	5.760	5.760	(0.942)	863479	80.0000	75.63
	39 Benzoic acid	105	5.932	5.932	(0.970)	728367	80.0000	81.74(M)
	40 bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1273696	80.0000	74.70
	43 2,4-Dichlorophenol	162	5.973	5.973	(0.976)	738222	80.0000	78.27
	46 1,2,4-Trichlorobenzene	180	6.070	6.070	(0.992)	766782	80.0000	76.20
	47 Naphthalene	128	6.145	6.145	(1.004)	2178652	80.0000	72.79
	48 4-Chloroaniline	127	6.228	6.228	(1.018)	911216	80.0000	74.43
	49 Hexachlorobutadiene	225	6.359	6.359	(1.039)	382800	80.0000	75.21
	50 4-Chloro-3-methylphenol	107	6.895	6.895	(1.127)	745093	80.0000	79.13
	51 2-Methylnaphthalene	141	7.073	7.073	(1.156)	1278310	80.0000	74.33
	53 Acetophenone	105	5.273	5.273	(1.073)	1098616	80.0000	67.74
	64 Caprolactam	113	6.709	6.709	(1.097)	298993	80.0000	87.15
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	638693	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	265315	80.0000	69.52
	67 2,4,6-Trichlorophenol	196	7.589	7.589	(0.841)	489740	80.0000	81.74
	68 2,4,5-Trichlorophenol	196	7.650	7.650	(0.848)	514213	80.0000	82.85
	69 2-Chloronaphthalene	162	7.891	7.891	(0.875)	1285870	80.0000	71.25
$	70 2-Fluorobiphenyl	172	7.726	7.726	(0.856)	1525820	80.0000	75.07
	71 2-Nitroaniline	65	8.172	8.172	(0.906)	590850	80.0000	84.08
	72 Dimethylphthalate	163	8.639	8.639	(0.957)	1742705	80.0000	77.04
	73 Acenaphthylene	152	8.694	8.694	(0.963)	2000820	80.0000	74.51
	74 2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	428011	80.0000	86.33
	75 3-Nitroaniline	138	9.044	9.044	(1.002)	442346	80.0000	80.33
	76 Acenaphthene	153	9.099	9.099	(1.008)	1388632	80.0000	75.33
	77 2,4-Dinitrophenol	184	9.264	9.264	(1.027)	224478	80.0000	79.07
	79 4-Nitrophenol	65	9.484	9.484	(1.051)	311541	80.0000	82.02
	80 Dibenzofuran	168	9.456	9.456	(1.048)	1908351	80.0000	74.71
	81 2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	538354	80.0000	85.77
	82 Diethylphthalate	149	10.279	10.279	(1.139)	1600023	80.0000	73.82
	83 4-Chlorophenyl-phenylether	204	10.321	10.321	(1.144)	648220	80.0000	76.97
	84 Fluorene	166	10.252	10.252	(1.136)	1482422	80.0000	75.19
	85 4-Nitroaniline	138	10.486	10.486	(1.162)	389539	80.0000	82.46
	96 1,1'-Biphenyl	154	7.884	7.884	(0.874)	1547927	80.0000	68.28
*	98 Phenanthrene-d10	188	12.623	12.623	(1.000)	798658	40.0000	
	99 1,2-Diphenylhydrazine	77	10.706	10.706	(0.848)	2056035	80.0000	76.59
	100 Carbazole	167	13.339	13.339	(1.057)	1678116	80.0000	76.46
	101 4,6-Dinitro-2-methylphenol	198	10.589	10.589	(0.839)	293532	80.0000	81.64

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	==========	====	==	======	======	========	=======	=======
102	N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	980696	80.0000	78.28
$ 103	2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	495160	160.000	168.0(A)
104	4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	422843	80.0000	77.81
105	Hexachlorobenzene	284	11.852	11.852	(0.939)	470372	80.0000	78.61
106	Pentachlorophenol	266	12.355	12.355	(0.979)	331611	80.0000	87.40
107	Phenanthrene	178	12.692	12.692	(1.005)	1760261	80.0000	77.30
108	Anthracene	178	12.810	12.810	(1.015)	1711507	80.0000	76.13
110	Di-n-butylphthalate	149	14.749	14.749	(1.168)	2917698	80.0000	78.69
111	Fluoranthene	202	16.025	16.025	(1.269)	1748791	80.0000	77.57
* 127	Chrysene-d12	240	20.236	20.236	(1.000)	547234	40.0000	
129	Pyrene	202	16.638	16.638	(0.822)	1777310	80.0000	81.32
$ 130	Terphenyl-d14	244	17.341	17.341	(0.857)	1116593	80.0000	80.80
131	Butylbenzylphthalate	149	19.065	19.065	(0.942)	1162263	80.0000	85.51
133	Benzo(a)anthracene	228	20.194	20.194	(0.998)	1401014	80.0000	79.46
134	Chrysene	228	20.319	20.319	(1.004)	1270601	80.0000	78.90
135	Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1483644	80.0000	83.63
* 149	Perylene-d12	264	24.439	24.439	(1.000)	432695	40.0000	
150	Di-n-octylphthalate	149	22.750	22.750	(0.931)	2192931	80.0000	91.17
151	Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1160679	80.0000	87.08
152	Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1179401	80.0000	85.29
153	Benzo(a)pyrene	252	24.287	24.287	(0.994)	976923	80.0000	85.00
154	Indeno(1,2,3-cd)pyrene	276	26.327	26.327	(1.077)	794180	80.0000	80.99
155	Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	813592	80.0000	82.41
156	Benzo(g,h,i)perylene	276	26.726	26.726	(1.094)	867281	80.0000	85.23

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Date : 19-APR-2006 21:53
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Instrument: bna1.i
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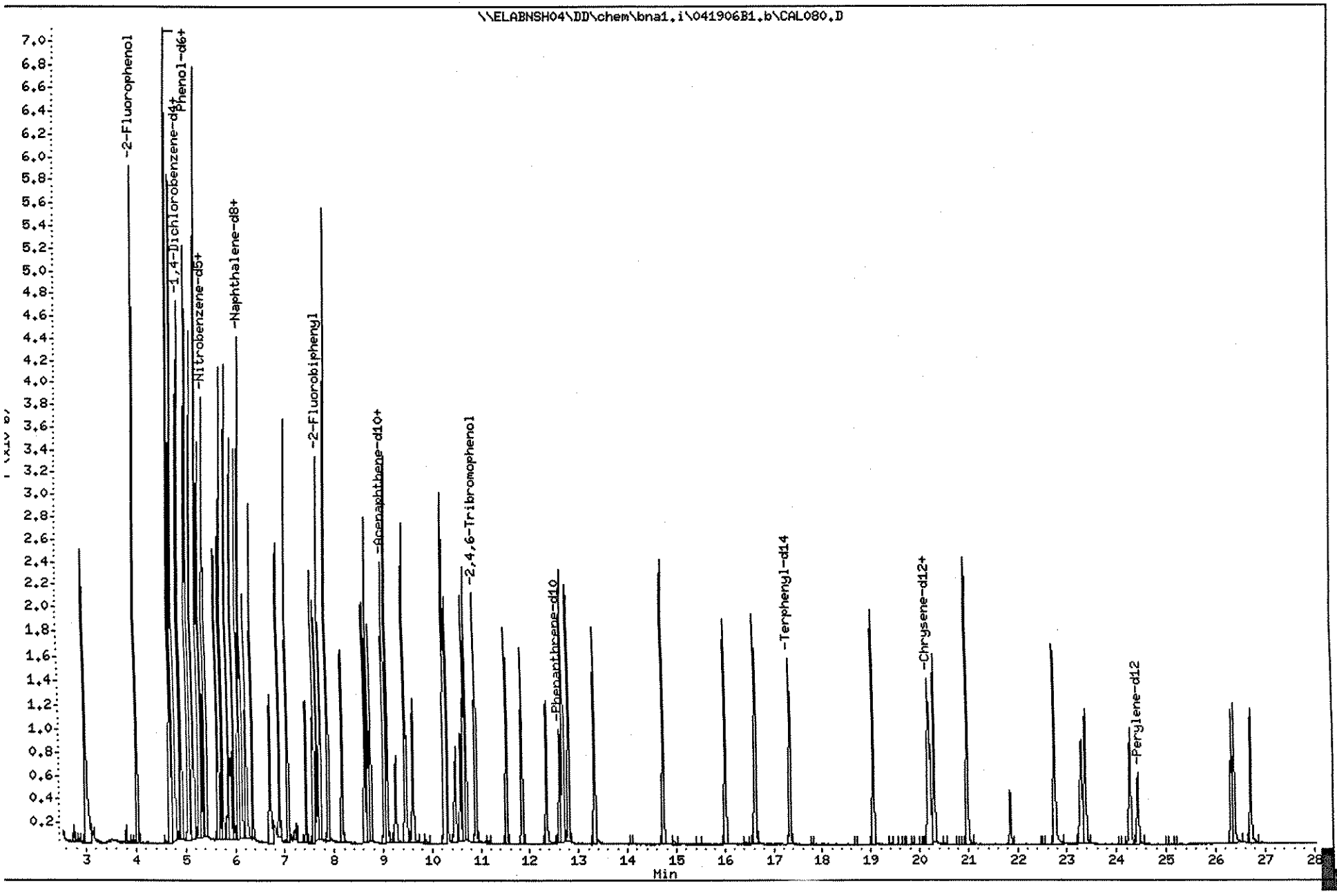
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000416



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
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Inj Date : 19-APR-2006 22:28
Operator : ADM Inst ID: bna1.i
Smp Info : CAL090PPM;;;;;SV3350-12
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 13 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/MC

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	4.910	4.910	(1.000)	362602	40.0000	
$ 2 2-Fluorophenol	112	4.009	4.009	(0.817)	2068431	180.000	164.7(A)
$ 3 Phenol-d6	99	4.684	4.684	(0.954)	2343173	180.000	156.1(A)
4 Pyridine	79	2.961	2.961	(0.603)	1480765	90.0000	91.55
5 N-Nitroso-di-methylamine	42	2.968	2.968	(0.605)	724870	90.0000	86.41
6 Aniline	93	4.705	4.705	(0.958)	772474	90.0000	96.38
8 Phenol	94	4.691	4.691	(0.955)	1290924	90.0000	75.19
9 bis(2-Chloroethyl)ether	93	4.746	4.746	(0.967)	1269164	90.0000	84.37
10 2-Chlorophenol	128	4.780	4.780	(0.974)	963655	90.0000	80.78
11 1,3-Dichlorobenzene	146	4.883	4.883	(0.994)	1129431	90.0000	83.47
12 1,4-Dichlorobenzene	146	4.924	4.924	(1.003)	1043033	90.0000	81.28
13 Benzyl alcohol	108	5.041	5.041	(1.027)	741617	90.0000	90.84
14 1,2-Dichlorobenzene	146	5.075	5.075	(1.034)	949483	90.0000	79.17
15 2-Methylphenol	108	5.144	5.144	(1.048)	979037	90.0000	87.96

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16	bis(2-Chloroisopropyl)ether	45	5.164	5.164	(1.052)	2295270	90.0000	78.61
	17	3-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.19(H)
	18	4-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.20(H)
	19	N-Nitroso-di-n-propylamine	70	5.294	5.294	(1.078)	902265	90.0000	86.75
	20	Hexachloroethane	117	5.335	5.335	(1.087)	488296	90.0000	85.47
*	31	Naphthalene-d8	136	6.117	6.117	(1.000)	1119140	40.0000	
$	32	Nitrobenzene-d5	82	5.404	5.404	(0.883)	1105555	90.0000	90.49
	33	Nitrobenzene	77	5.425	5.425	(0.887)	1085442	90.0000	87.75
	35	Isophorone	82	5.643	5.643	(0.922)	2323363	90.0000	88.18
	36	2-Nitrophenol	139	5.726	5.726	(0.936)	647312	90.0000	98.64
	38	2,4-Dimethylphenol	107	5.760	5.760	(0.942)	879533	90.0000	82.86
	39	Benzoic acid	105	5.932	5.932	(0.970)	738142	90.0000	86.98(M)
	40	bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1309663	90.0000	82.62
	43	2,4-Dichlorophenol	162	5.973	5.973	(0.976)	758064	90.0000	86.46
	46	1,2,4-Trichlorobenzene	180	6.069	6.069	(0.992)	776197	90.0000	82.98
	47	Naphthalene	128	6.138	6.138	(1.003)	2223716	90.0000	79.92
	48	4-Chloroaniline	127	6.228	6.228	(1.018)	933486	90.0000	82.02
	49	Hexachlorobutadiene	225	6.359	6.359	(1.039)	402337	90.0000	85.02
	50	4-Chloro-3-methylphenol	107	6.894	6.894	(1.127)	782367	90.0000	89.38
	51	2-Methylnaphthalene	141	7.072	7.072	(1.156)	1316111	90.0000	82.32
	53	Acetophenone	105	5.273	5.273	(1.074)	1135952	90.0000	76.44
	64	Caprolactam	113	6.716	6.716	(1.098)	307219	90.0000	96.32
*	65	Acenaphthene-d10	164	9.023	9.023	(1.000)	587079	40.0000	
	66	Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	263921	90.0000	75.23
	67	2,4,6-Trichlorophenol	196	7.587	7.587	(0.841)	502860	90.0000	91.31
	68	2,4,5-Trichlorophenol	196	7.656	7.656	(0.849)	523695	90.0000	91.80
	69	2-Chloronaphthalene	162	7.891	7.891	(0.874)	1298286	90.0000	78.27
$	70	2-Fluorobiphenyl	172	7.725	7.725	(0.856)	1531161	90.0000	81.96
	71	2-Nitroaniline	65	8.172	8.172	(0.906)	598573	90.0000	92.67
	72	Dimethylphthalate	163	8.639	8.639	(0.957)	1790422	90.0000	86.11
	73	Acenaphthylene	152	8.694	8.694	(0.964)	2068463	90.0000	83.80
	74	2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	434041	90.0000	95.25
	75	3-Nitroaniline	138	9.044	9.044	(1.002)	451488	90.0000	89.20
	76	Acenaphthene	153	9.098	9.098	(1.008)	1427523	90.0000	84.25
	77	2,4-Dinitrophenol	184	9.263	9.263	(1.027)	237311	90.0000	86.61
	79	4-Nitrophenol	65	9.483	9.483	(1.051)	322059	90.0000	92.24
	80	Dibenzofuran	168	9.456	9.456	(1.048)	1955300	90.0000	83.28
	81	2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	541533	90.0000	93.86
	82	Diethylphthalate	149	10.280	10.280	(1.139)	1634486	90.0000	82.04
	83	4-Chlorophenyl-phenylether	204	10.322	10.322	(1.144)	657995	90.0000	85.00
	84	Fluorene	166	10.253	10.253	(1.136)	1501597	90.0000	82.86
	85	4-Nitroaniline	138	10.493	10.493	(1.163)	392226	90.0000	90.33
	96	1,1'-Biphenyl	154	7.884	7.884	(0.874)	1575314	90.0000	75.59
*	98	Phenanthrene-d10	188	12.622	12.622	(1.000)	737835	40.0000	
	99	1,2-Diphenylhydrazine	77	10.707	10.707	(0.848)	2094798	90.0000	84.47
	100	Carbazole	167	13.335	13.335	(1.057)	1689423	90.0000	83.32
	101	4,6-Dinitro-2-methylphenol	198	10.590	10.590	(0.839)	301518	90.0000	88.07

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	988459	90.0000	85.40
$	103 2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	492679	180.000	181.0(A)
	104 4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	433478	90.0000	86.34
	105 Hexachlorobenzene	284	11.846	11.846	(0.939)	490901	90.0000	88.81
	106 Pentachlorophenol	266	12.354	12.354	(0.979)	330160	90.0000	94.19
	107 Phenanthrene	178	12.691	12.691	(1.005)	1795214	90.0000	85.33
	108 Anthracene	178	12.815	12.815	(1.015)	1746191	90.0000	84.08
	110 Di-n-butylphthalate	149	14.746	14.746	(1.168)	3055200	90.0000	89.19
	111 Fluoranthene	202	16.032	16.032	(1.270)	1782543	90.0000	85.58
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	497031	40.0000	
	129 Pyrene	202	16.637	16.637	(0.822)	1799703	90.0000	90.67
$	130 Terphenyl-d14	244	17.349	17.349	(0.857)	1148902	90.0000	91.54
	131 Butylbenzylphthalate	149	19.065	19.065	(0.942)	1186712	90.0000	96.13
	133 Benzo(a)anthracene	228	20.202	20.202	(0.998)	1409032	90.0000	87.98
	134 Chrysene	228	20.318	20.318	(1.004)	1333323	90.0000	91.16
	135 Bis(2-ethylhexyl)phthalate	149	20.988	20.988	(1.037)	1548288	90.0000	96.09
*	149 Perylene-d12	264	24.442	24.442	(1.000)	405286	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	2305162	90.0000	102.3(A)
	151 Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1208798	90.0000	96.82
	152 Benzo(k)fluoranthene	252	23.385	23.385	(0.957)	1243514	90.0000	96.00
	153 Benzo(a)pyrene	252	24.292	24.292	(0.994)	1037058	90.0000	96.33
	154 Indeno(1,2,3-cd)pyrene	276	26.328	26.328	(1.077)	851481	90.0000	92.70
	155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	869312	90.0000	94.01
	156 Benzo(g,h,i)perylene	276	26.733	26.733	(1.094)	893198	90.0000	93.71

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
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Operator: ADM
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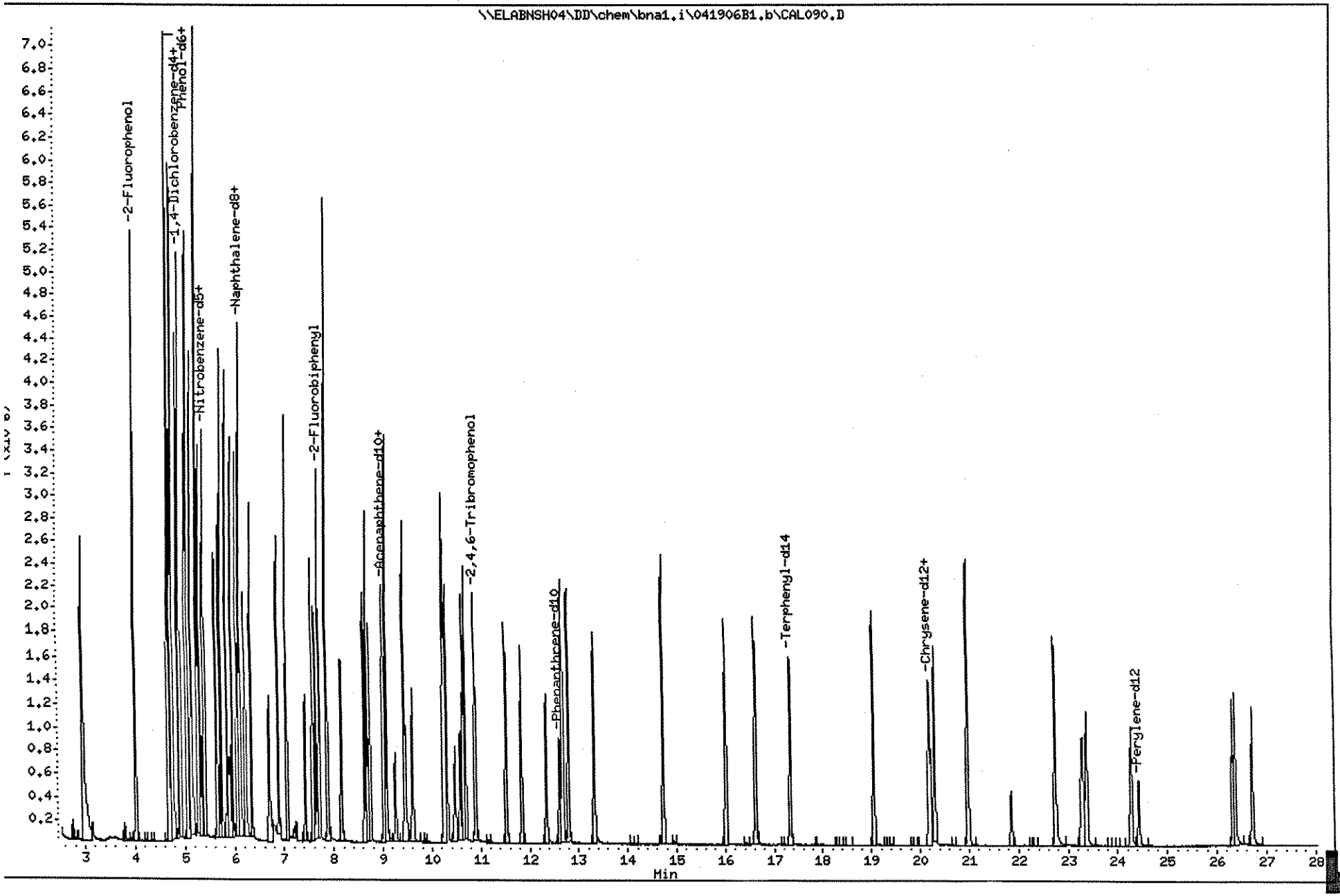
Column diameter: 0.25

000420



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
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Inj Date : 19-APR-2006 23:04
Operator : ADM Inst ID: bna1.i
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Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 14 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/MC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.914	4.914	(1.000)	405811	40.0000	
$	2 2-Fluorophenol	112	4.014	4.014	(0.817)	2416155	200.000	171.9(A)
$	3 Phenol-d6	99	4.687	4.687	(0.954)	2760384	200.000	164.3(A)
	4 Pyridine	79	2.967	2.967	(0.604)	1745541	100.000	96.43
	5 N-Nitroso-di-methylamine	42	2.980	2.980	(0.607)	922574	100.000	98.27
	6 Aniline	93	4.708	4.708	(0.958)	934422	100.000	108.9(A)
	8 Phenol	94	4.702	4.702	(0.957)	1532153	100.000	79.74
	9 bis(2-Chloroethyl)ether	93	4.749	4.749	(0.966)	1555603	100.000	92.40
	10 2-Chlorophenol	128	4.783	4.783	(0.973)	1148806	100.000	86.05
	11 1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	1313595	100.000	86.74
	12 1,4-Dichlorobenzene	146	4.928	4.928	(1.003)	1222693	100.000	85.13
	13 Benzyl alcohol	108	5.051	5.051	(1.028)	923081	100.000	101.0(A)
	14 1,2-Dichlorobenzene	146	5.079	5.079	(1.034)	1073685	100.000	80.00
	15 2-Methylphenol	108	5.147	5.147	(1.048)	1202388	100.000	96.52

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	2710555	100.000	82.94
	17 3-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.11(H)
	18 4-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.12(H)
	19 N-Nitroso-di-n-propylamine	70	5.305	5.305	(1.080)	1126036	100.000	96.74
	20 Hexachloroethane	117	5.333	5.333	(1.085)	573760	100.000	89.74
*	31 Naphthalene-d8	136	6.116	6.116	(1.000)	1277943	40.0000	
$	32 Nitrobenzene-d5	82	5.409	5.409	(0.884)	1416051	100.000	101.5(A)
	33 Nitrobenzene	77	5.429	5.429	(0.888)	1349092	100.000	95.52
	35 Isophorone	82	5.656	5.656	(0.925)	2920935	100.000	97.08
	36 2-Nitrophenol	139	5.725	5.725	(0.936)	801557	100.000	107.0(A)
	38 2,4-Dimethylphenol	107	5.766	5.766	(0.943)	1100618	100.000	90.81
	39 Benzoic acid	105	5.958	5.958	(0.974)	1057702	100.000	100.9(A)
	40 bis(2-Chloroethoxy)methane	93	5.868	5.868	(0.960)	1615752	100.000	89.27
	43 2,4-Dichlorophenol	162	5.979	5.979	(0.978)	942543	100.000	94.14
	46 1,2,4-Trichlorobenzene	180	6.068	6.068	(0.992)	951116	100.000	89.04
	47 Naphthalene	128	6.143	6.143	(1.004)	2662428	100.000	83.79
	48 4-Chloroaniline	127	6.226	6.226	(1.018)	1181026	100.000	90.87(M)
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	476029	100.000	88.10
	50 4-Chloro-3-methylphenol	107	6.900	6.900	(1.128)	971006	100.000	97.14
	51 2-Methylnaphthalene	141	7.072	7.072	(1.156)	1634250	100.000	89.51
	53 Acetophenone	105	5.278	5.278	(1.074)	1361350	100.000	81.86
	64 Caprolactam	113	6.736	6.736	(1.101)	382420	100.000	105.0(A)
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	684968	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.824)	424741	100.000	103.8(A)
	67 2,4,6-Trichlorophenol	196	7.594	7.594	(0.842)	647723	100.000	100.8(A)
	68 2,4,5-Trichlorophenol	196	7.662	7.662	(0.849)	679681	100.000	102.1(A)
	69 2-Chloronaphthalene	162	7.897	7.897	(0.875)	1609689	100.000	83.17
$	70 2-Fluorobiphenyl	172	7.731	7.731	(0.857)	1910349	100.000	87.64
	71 2-Nitroaniline	65	8.178	8.178	(0.906)	828450	100.000	109.9(A)
	72 Dimethylphthalate	163	8.645	8.645	(0.958)	2224891	100.000	91.71
	73 Acenaphthylene	152	8.700	8.700	(0.964)	2569052	100.000	89.20
	74 2,6-Dinitrotoluene	165	8.762	8.762	(0.971)	578158	100.000	108.7(A)
	75 3-Nitroaniline	138	9.058	9.058	(1.004)	664775	100.000	112.6(A)
	76 Acenaphthene	153	9.106	9.106	(1.009)	1767405	100.000	89.40
	77 2,4-Dinitrophenol	184	9.270	9.270	(1.027)	373175	100.000	101.2(A)
	79 4-Nitrophenol	65	9.504	9.504	(1.053)	498418	100.000	122.3(A)
	80 Dibenzofuran	168	9.462	9.462	(1.049)	2532148	100.000	92.44
	81 2,4-Dinitrotoluene	165	9.634	9.634	(1.068)	749880	100.000	111.4(A)
	82 Diethylphthalate	149	10.294	10.294	(1.141)	2030573	100.000	87.36
	83 4-Chlorophenyl-phenylether	204	10.328	10.328	(1.145)	841580	100.000	93.18
	84 Fluorene	166	10.259	10.259	(1.137)	1950834	100.000	92.27
	85 4-Nitroaniline	138	10.513	10.513	(1.165)	640626	100.000	126.4(A)
	96 1,1'-Biphenyl	154	7.890	7.890	(0.874)	1878750	100.000	77.27
*	98 Phenanthrene-d10	188	12.629	12.629	(1.000)	897598	40.0000	
	99 1,2-Diphenylhydrazine	77	10.720	10.720	(0.849)	2922027	100.000	96.86
	100 Carbazole	167	13.352	13.352	(1.057)	2455839	100.000	99.56
	101 4,6-Dinitro-2-methylphenol	198	10.609	10.609	(0.840)	446432	100.000	100.1(A)

Data File: \\ELABNSH04\DD\chem\bnal.i\041906B1.D\CAL100.D
Report Date: 20-Apr-2006 14:25

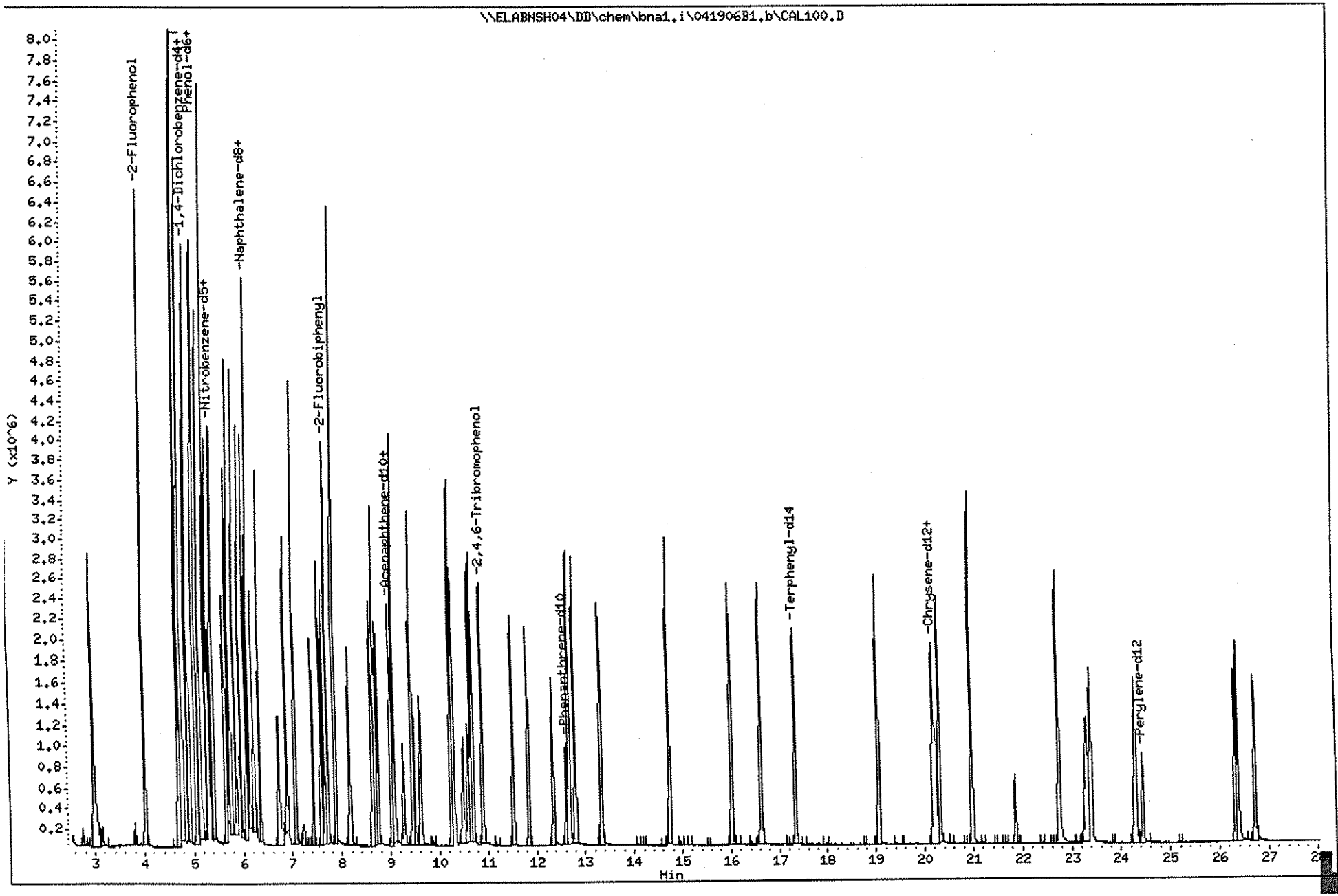
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.672	10.672	(0.845)	1319581	100.000	93.72
$	103 2,4,6-Tribromophenol	330	10.920	10.920	(0.865)	657394	200.000	198.5(A)
	104 4-Bromophenyl-phenylether	248	11.545	11.545	(0.914)	571547	100.000	93.58
	105 Hexachlorobenzene	284	11.854	11.854	(0.939)	621615	100.000	92.44
	106 Pentachlorophenol	266	12.361	12.361	(0.979)	474713	100.000	111.3(A)
	107 Phenanthrene	178	12.705	12.705	(1.006)	2454608	100.000	95.91
	108 Anthracene	178	12.823	12.823	(1.015)	2377225	100.000	94.08
	110 Di-n-butylphthalate	149	14.753	14.753	(1.168)	3805527	100.000	91.32
	111 Fluoranthene	202	16.042	16.042	(1.270)	2490336	100.000	98.29
*	127 Chrysene-d12	240	20.256	20.256	(1.000)	693596	40.0000	
	129 Pyrene	202	16.647	16.647	(0.822)	2514423	100.000	90.77
$	130 Terphenyl-d14	244	17.355	17.355	(0.857)	1600764	100.000	91.40
	131 Butylbenzylphthalate	149	19.072	19.072	(0.942)	1650098	100.000	95.79
	133 Benzo(a)anthracene	228	20.214	20.214	(0.998)	2223330	100.000	99.49
	134 Chrysene	228	20.338	20.338	(1.004)	2041530	100.000	100.0(A)
	135 Bis(2-ethylhexyl)phthalate	149	20.992	20.992	(1.036)	2229718	100.000	99.17
*	149 Perylene-d12	264	24.462	24.462	(1.000)	667141	40.0000	
	150 Di-n-octylphthalate	149	22.759	22.759	(0.930)	3720192	100.000	100.3(A)
	151 Benzo(b)fluoranthene	252	23.328	23.328	(0.954)	2327837	100.000	113.3(A)
	152 Benzo(k)fluoranthene	252	23.425	23.425	(0.958)	2031015	100.000	95.26
	153 Benzo(a)pyrene	252	24.317	24.317	(0.994)	1868496	100.000	105.4(A)
	154 Indeno(1,2,3-cd)pyrene	276	26.346	26.346	(1.077)	1470143	100.000	97.24
	155 Dibenz(a,h)anthracene	278	26.401	26.401	(1.079)	1490218	100.000	97.90
	156 Benzo(g,h,i)perylene	276	26.744	26.744	(1.093)	1412666	100.000	90.04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Date : 19-APR-2006 23:04
Client ID: CAL100PPM
Instrument: bna1.i
Sample Info: CAL100PPM;;;;;SV3350-13
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000424



Empirical Laboratories

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF0.1: PAH001 RF0.2: PAH002 RF0.4: PAH003
RF0.6: PAH004 RF0.8: PAHLOW05

COMPOUND	RF0.1	RF0.2	RF0.4	RF0.6	RF0.8
Acenaphthene	0.978	0.948	0.976	1.001	
Acenaphthylene	1.606	1.440	1.533	1.580	
Anthracene	1.012	0.933	0.997	1.101	
Benzo(a)anthracene	1.112	1.078	1.100	1.165	
Benzo(b)fluoranthene	1.221	1.269	1.234	1.395	
Benzo(k)fluoranthene	1.294	1.254	1.288	1.347	
Benzo(g,h,i)perylene	0.898	0.780	0.805	0.859	
Benzo(a)pyrene	1.123	0.982	1.041	1.086	
Chrysene	1.133	1.081	1.101	1.162	
Dibenz(a,h)anthracene	0.698	0.691	0.726	0.689	
Fluoranthene	1.091	1.028	1.061	1.130	
Fluorene	1.114	1.086	1.137	1.188	
Indeno(1,2,3-cd)pyrene	0.718	0.688	0.827	0.808	
2-Methylnaphthalene	0.506	0.490	0.521	0.518	
1-Methylnaphthalene	0.544	0.541	0.537	0.557	
Naphthalene	1.033	0.947	0.940	0.978	
Phenanthrene	1.106	1.047	1.050	1.140	
Pyrene	1.406	1.364	1.478	1.516	
Nitrobenzene-d5	0.140	0.133	0.161	0.159	
2-Fluorobiphenyl	1.224	1.107	1.202	1.184	
Terphenyl-d14	0.963	0.862	0.932	0.933	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF1: PAH006 RF2: PAHLOW07 RF2.5: PAH008
RF5: PAH009 RF7.5: PAHLOW10

COMPOUND	RF1	RF2	RF2.5	RF5	RF7.5
Acenaphthene	1.018		1.013	1.063	
Acenaphthylene	1.691		1.652	1.739	
Anthracene	1.107		1.113	1.150	
Benzo(a)anthracene	1.147		1.176	1.237	
Benzo(b)fluoranthene	1.370		1.455	1.502	
Benzo(k)fluoranthene	1.372		1.380	1.510	
Benzo(g,h,i)perylene	0.842		0.812	0.858	
Benzo(a)pyrene	1.132		1.154	1.226	
Chrysene	1.158		1.158	1.217	
Dibenz(a,h)anthracene	0.756		0.758	0.825	
Fluoranthene	1.175		1.138	1.198	
Fluorene	1.243		1.218	1.265	
Indeno(1,2,3-cd)pyrene	0.792		0.800	0.842	
2-Methylnaphthalene	0.534		0.524	0.547	
1-Methylnaphthalene	0.554		0.528	0.567	
Naphthalene	0.986		0.958	1.005	
Phenanthrene	1.145		1.113	1.158	
Pyrene	1.479		1.540	1.644	
Nitrobenzene-d5	0.175		0.188	0.219	
2-Fluorobiphenyl	1.232		1.228	1.264	
Terphenyl-d14	0.920		0.952	0.999	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF10: PAH011 RF15: PAHLOW12 RF20: PAH013

COMPOUND	RF10	RF15	RF20
Acenaphthene	1.059		1.021
Acenaphthylene	1.725		1.365
Anthracene	1.142		0.950
Benzo(a)anthracene	1.248		1.216
Benzo(b)fluoranthene	1.468		1.512
Benzo(k)fluoranthene	1.520		1.461
Benzo(g,h,i)perylene	0.837		0.864
Benzo(a)pyrene	1.235		1.260
Chrysene	1.189		1.150
Dibenz(a,h)anthracene	0.834		0.873
Fluoranthene	1.175		1.000
Fluorene	1.254		1.194
Indeno(1,2,3-cd)pyrene	0.857		0.906
2-Methylnaphthalene	0.538		0.531
1-Methylnaphthalene	0.549		0.551
Naphthalene	0.988		0.792
Phenanthrene	1.161		0.943
Pyrene	1.602		1.347
Nitrobenzene-d5	0.240		0.262
2-Fluorobiphenyl	1.255		1.159
Terphenyl-d14	0.987		1.020

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.00859922	3.8
Acenaphthylene	AVRG		1.59235903	8.0
Anthracene	AVRG		1.05614919	7.9
Benzo(a)anthracene	AVRG		1.16454143	5.2
Benzo(b)fluoranthene	AVRG		1.38070945	8.3
Benzo(k)fluoranthene	AVRG		1.38076579	7.0
Benzo(g,h,i)perylene	AVRG		0.83961210	4.2
Benzo(a)pyrene	AVRG		1.13766615	8.2
Chrysene	AVRG		1.14984769	3.6
Dibenz(a,h)anthracene	AVRG		0.76118804	8.9
Fluoranthene	AVRG		1.11063449	6.3
Fluorene	AVRG		1.18887180	5.4
Indeno(1,2,3-cd)pyrene	AVRG		0.80427558	8.3
2-Methylnaphthalene	AVRG		0.52309280	3.3
1-Methylnaphthalene	AVRG		0.54766113	2.1
Naphthalene	AVRG		0.95861266	7.2
Phenanthrene	AVRG		1.09594991	6.5
Pyrene	AVRG		1.48619522	6.8
Nitrobenzene-d5	LINR	0.00000000	0.25594367	0.995
2-Fluorobiphenyl	AVRG		1.20621177	4.1
Terphenyl-d14	AVRG		0.95206285	5.0

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Lab Smp Id: PAHCCV0.10PPM Client Smp ID: PAHCCV0.10PPM
Inj Date : 21-APR-2006 16:28 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.10PPM;;;;;SV3490-1
Misc Info : ;;;;;;pahsurr.sub;3459
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
10-4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	268691	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1002947	1.00000	
$	4 Nitrobenzene-d5	82	6.718	6.718	(0.820)	14013	0.10000	0.05459(aM)
	5 Naphthalene	128	8.225	8.225	(1.004)	103637	0.10000	0.1078
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	50704	0.10000	0.09665(a)
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	54528	0.10000	0.09927(a)
*	8 Acenaphthene-d10	164	12.300	12.300	(1.000)	632514	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.875)	77412	0.10000	0.1015
	11 Acenaphthylene	152	11.924	11.924	(0.969)	101588	0.10000	0.1009(M)
	12 Acenaphthene	153	12.369	12.369	(1.006)	61848	0.10000	0.09695(a)
	15 Fluorene	166	13.590	13.590	(1.105)	70472	0.10000	0.09372(a)
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1000931	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.003)	110752	0.10000	0.1010

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Report Date: 22-Apr-2006 08:16

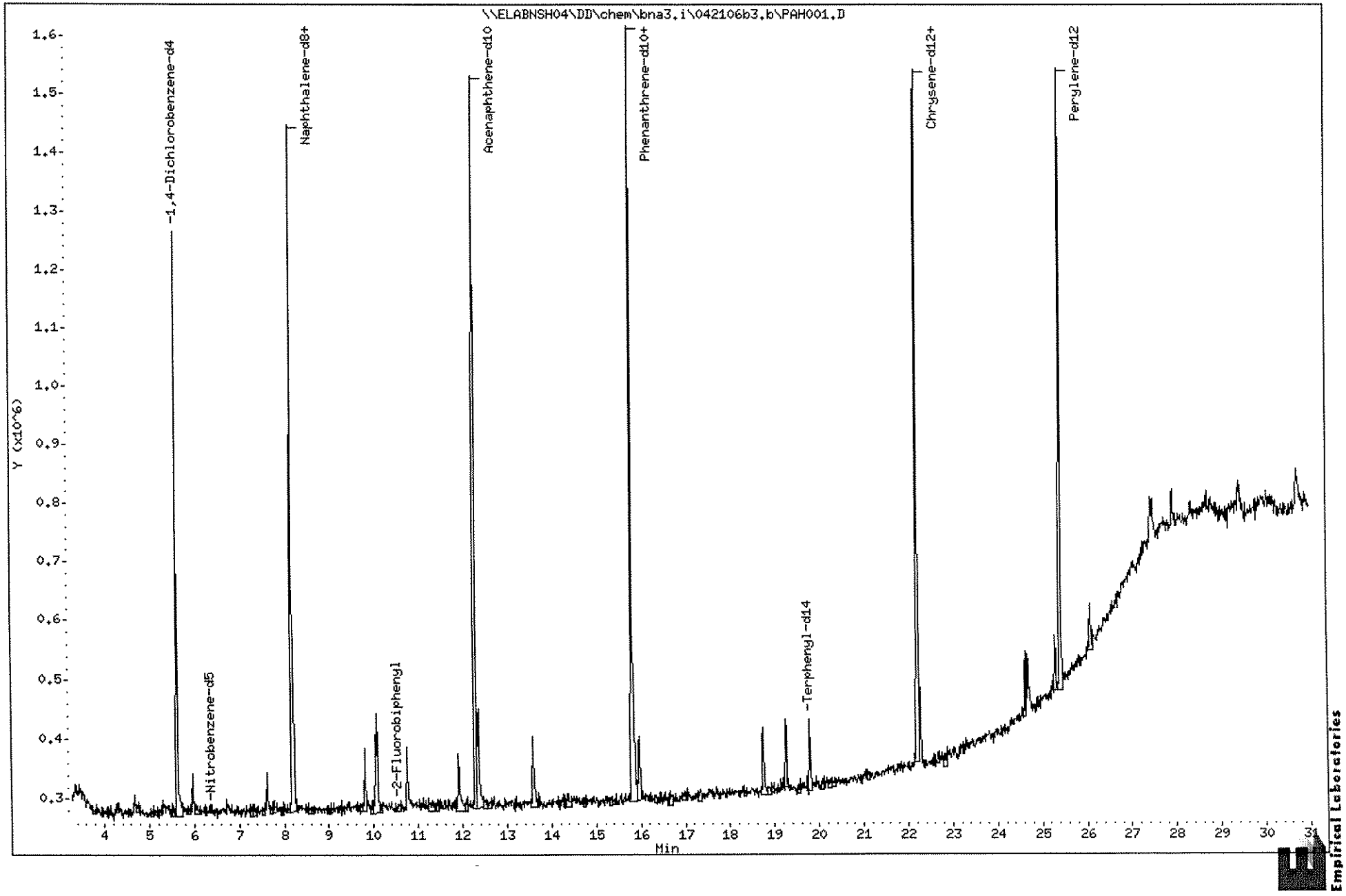
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	101289	0.10000	0.09581(a)
	19 Fluoranthene	202	18.751	18.751	(1.186)	109173	0.10000	0.09821(a)
*	20 Chrysene-d12	240	22.233	22.233	(1.000)	830583	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	116743	0.10000	0.09457(a)
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	80001	0.10000	0.1012
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	92361	0.10000	0.09549(a)
	24 Chrysene	228	22.290	22.290	(1.003)	94125	0.10000	0.09856(a)
*	25 Perylene-d12	264	25.430	25.430	(1.000)	683436	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	83465	0.10000	0.08845(a)
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	88445	0.10000	0.09372(a)
	28 Benzo(a)pyrene	252	25.315	25.315	(0.996)	76772	0.10000	0.09874(a)
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	49108	0.10000	0.08934(a)
	30 Dibenz(a,h)anthracene	278	27.519	27.519	(1.082)	47722	0.10000	0.09173(a)
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	61387	0.10000	0.1070

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Date : 21-APR-2006 16:28
Client ID: PAHCCV0.10PPM
Instrument: bna3.i
Sample Info: PAHCCV0.10PPM;;;;;SV3490-1
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

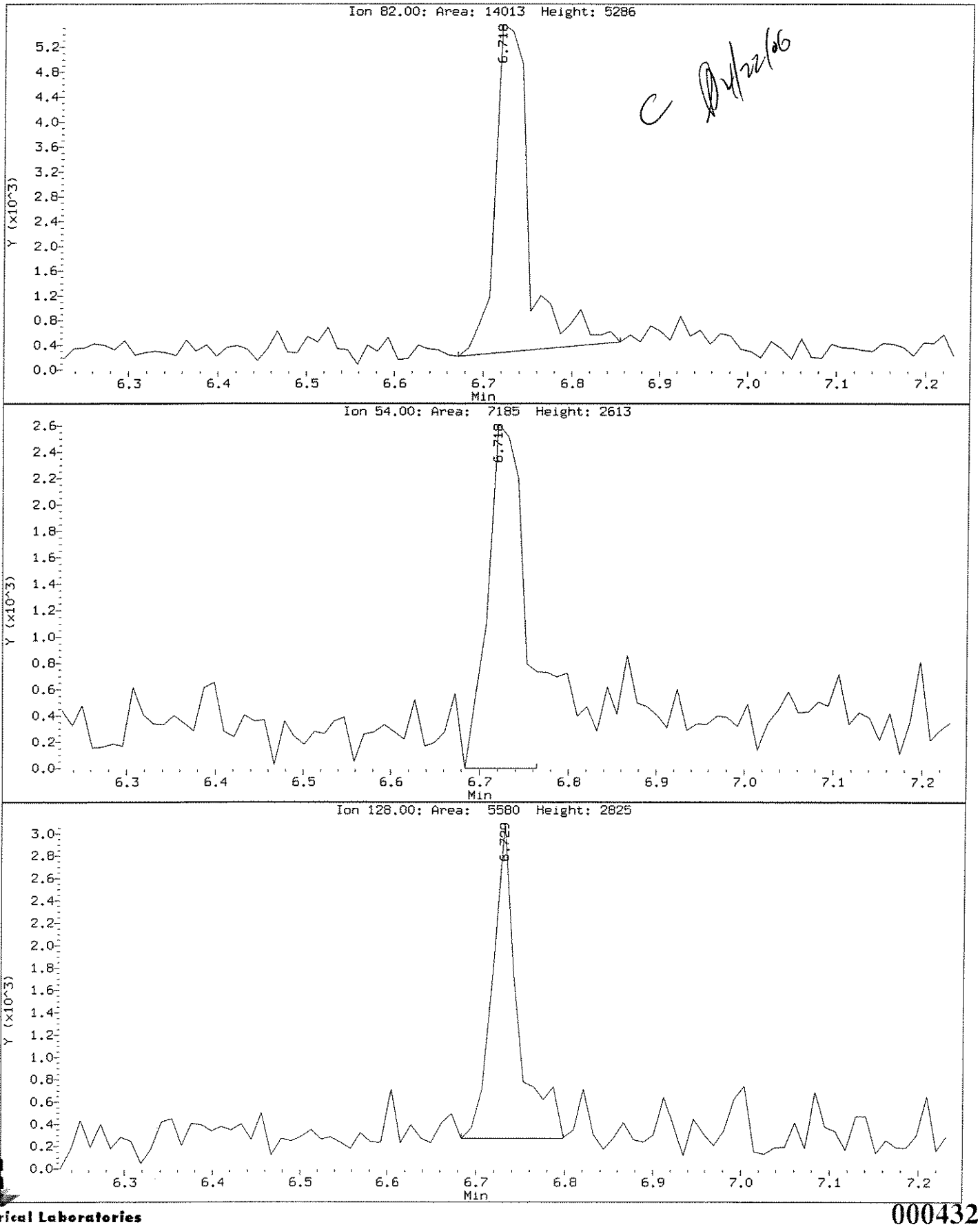
000431



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Injection Date: 21-APR-2006 16:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0



C 4/22/06

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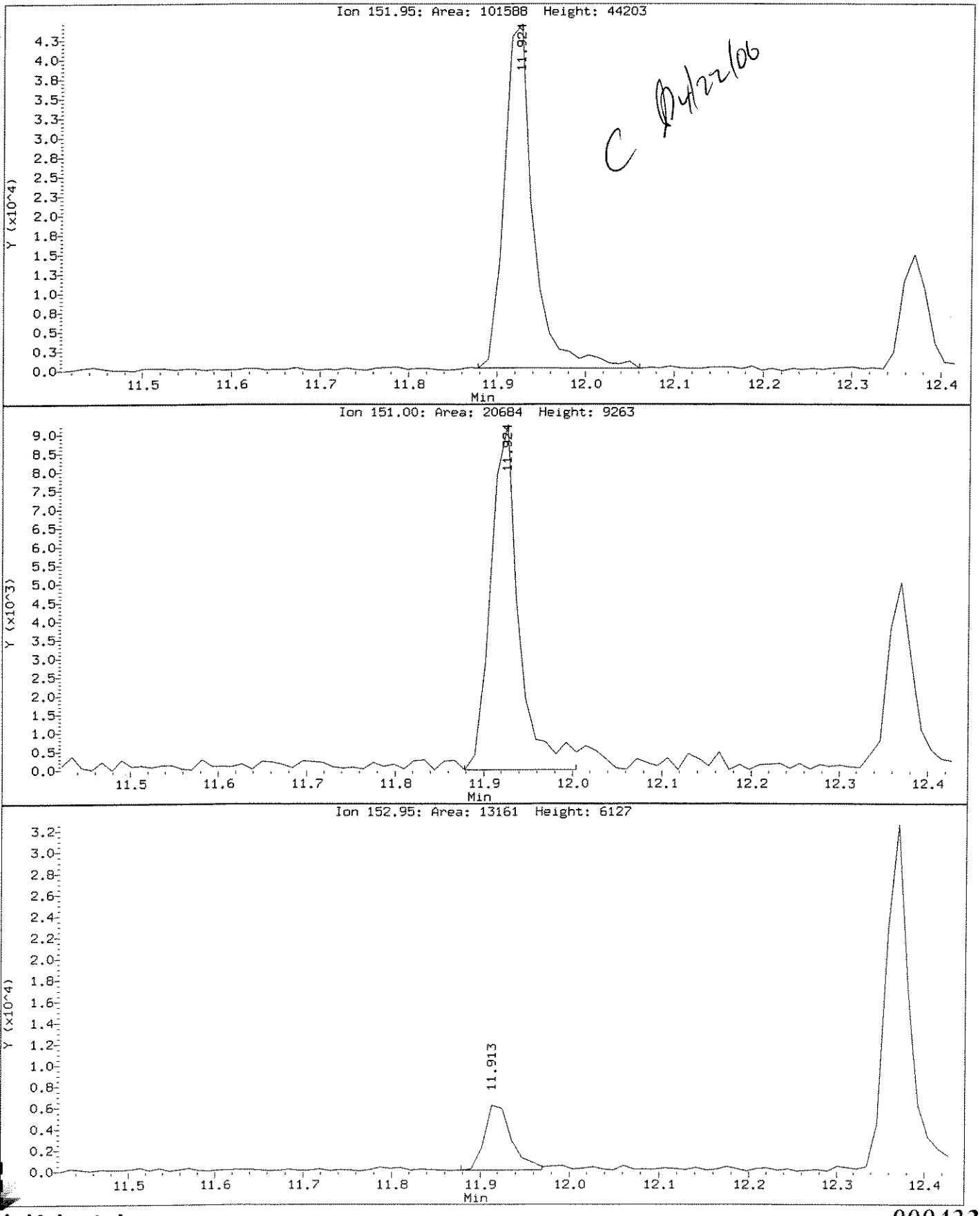
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

Compound: Acenaphthylene
CAS Number: 208-96-8



C 4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Lab Smp Id: PAHCCV0.20PPM Client Smp ID: PAHCCV0.20PPM
Inj Date : 21-APR-2006 17:08 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.20PPM;;;;;SV3490-2
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	287217	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1102562	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	29257	0.20000	0.1037
	5 Naphthalene	128	8.226	8.226	(1.004)	208840	0.20000	0.1976
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	107973	0.20000	0.1872
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	119332	0.20000	0.1976
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	693083	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	153463	0.20000	0.1836
	11 Acenaphthylene	152	11.913	11.913	(0.969)	199575	0.20000	0.1808
	12 Acenaphthene	153	12.370	12.370	(1.007)	131420	0.20000	0.1880
	15 Fluorene	166	13.592	13.592	(1.106)	150557	0.20000	0.1827
*	16 Phenanthrene-d10	188	15.818	15.818	(1.000)	1100008	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	230260	0.20000	0.1910

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.978	15.978	(1.010)	205329	0.20000	0.1767
	19 Fluoranthene	202	18.752	18.752	(1.185)	226241	0.20000	0.1852
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	884931	1.00000	
	21 Pyrene	202	19.266	19.266	(0.866)	241490	0.20000	0.1836
$	22 Terphenyl-d14	244	19.791	19.791	(0.890)	152668	0.20000	0.1812
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	190838	0.20000	0.1852
	24 Chrysene	228	22.291	22.291	(1.003)	191396	0.20000	0.1881
*	25 Perylene-d12	264	25.431	25.431	(1.000)	659251	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	167314	0.20000	0.1838
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	165364	0.20000	0.1817
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	129460	0.20000	0.1726
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	90772	0.20000	0.1712(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	91148	0.20000	0.1816
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	102911	0.20000	0.1859

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
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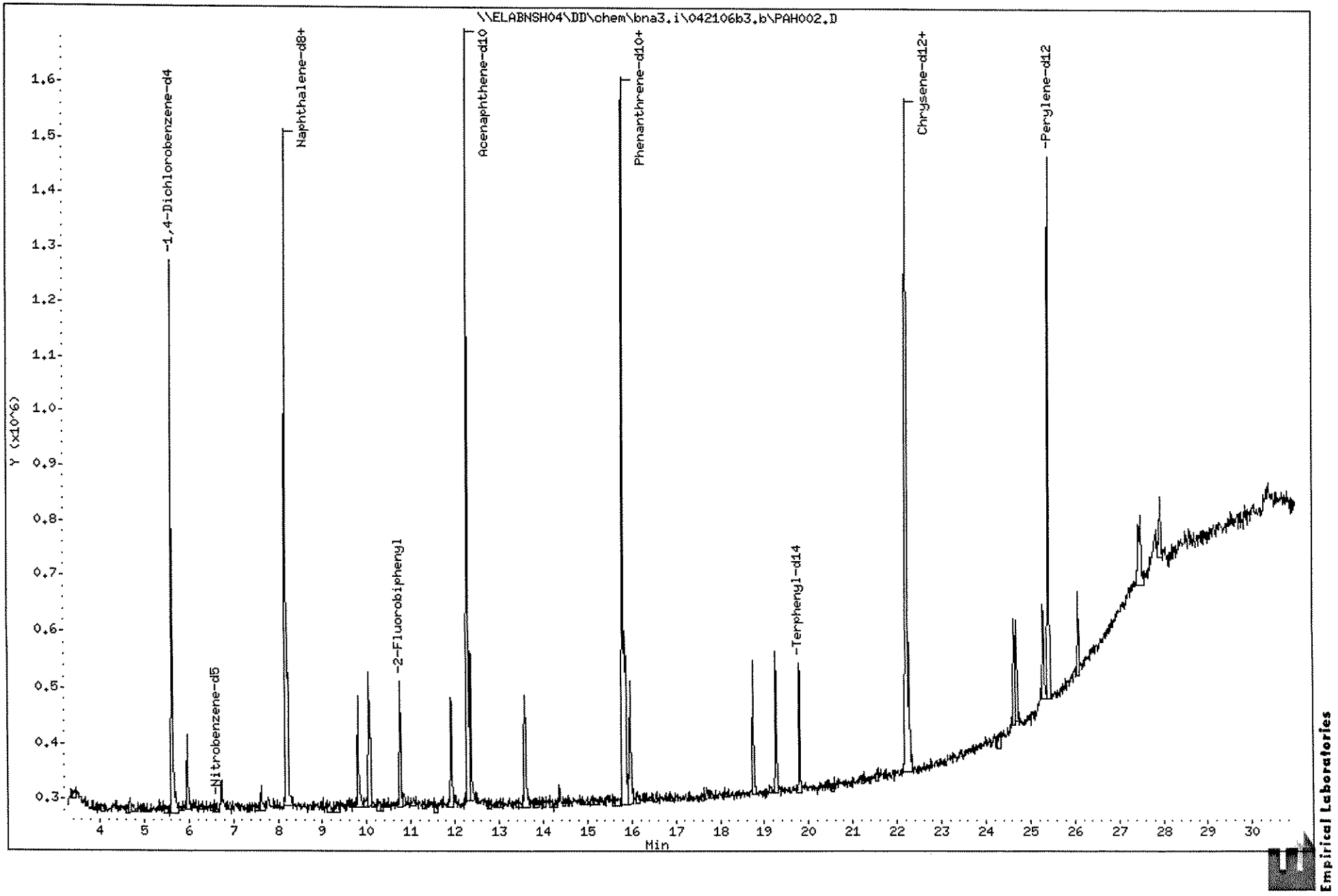
Client ID: PAHCCV0.20PPM
Sample Info: PAHCCV0.20PPM;;;;;SV3490-2
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

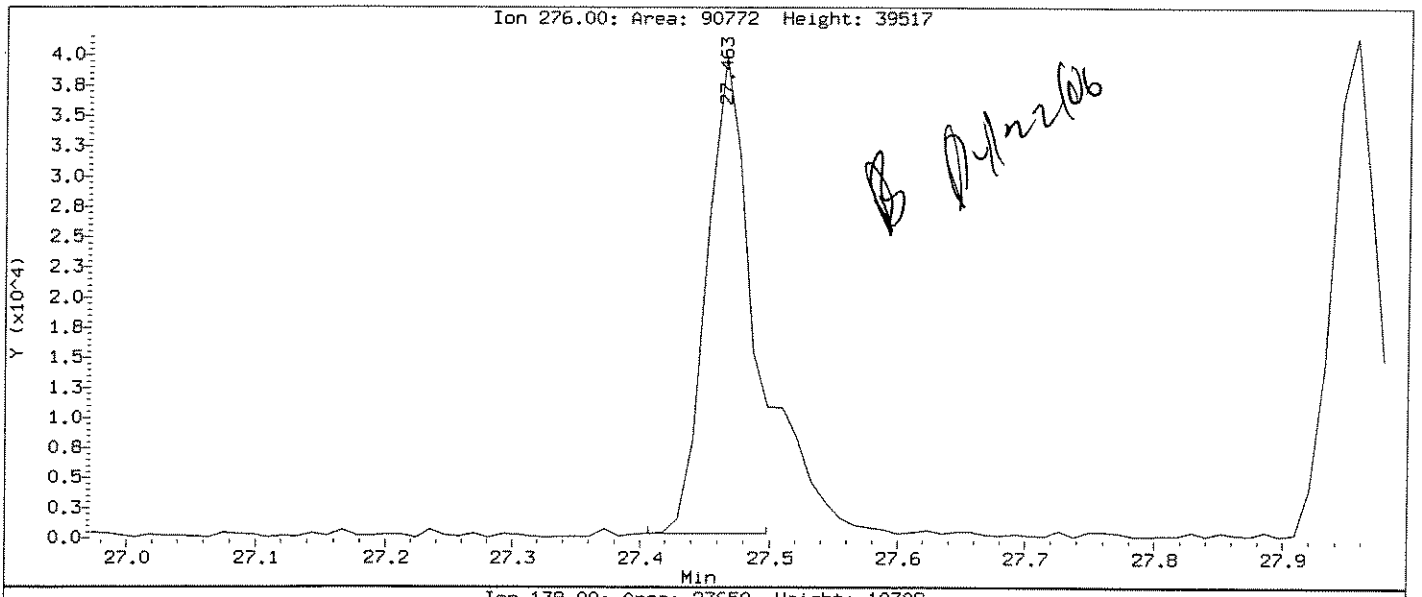
000436

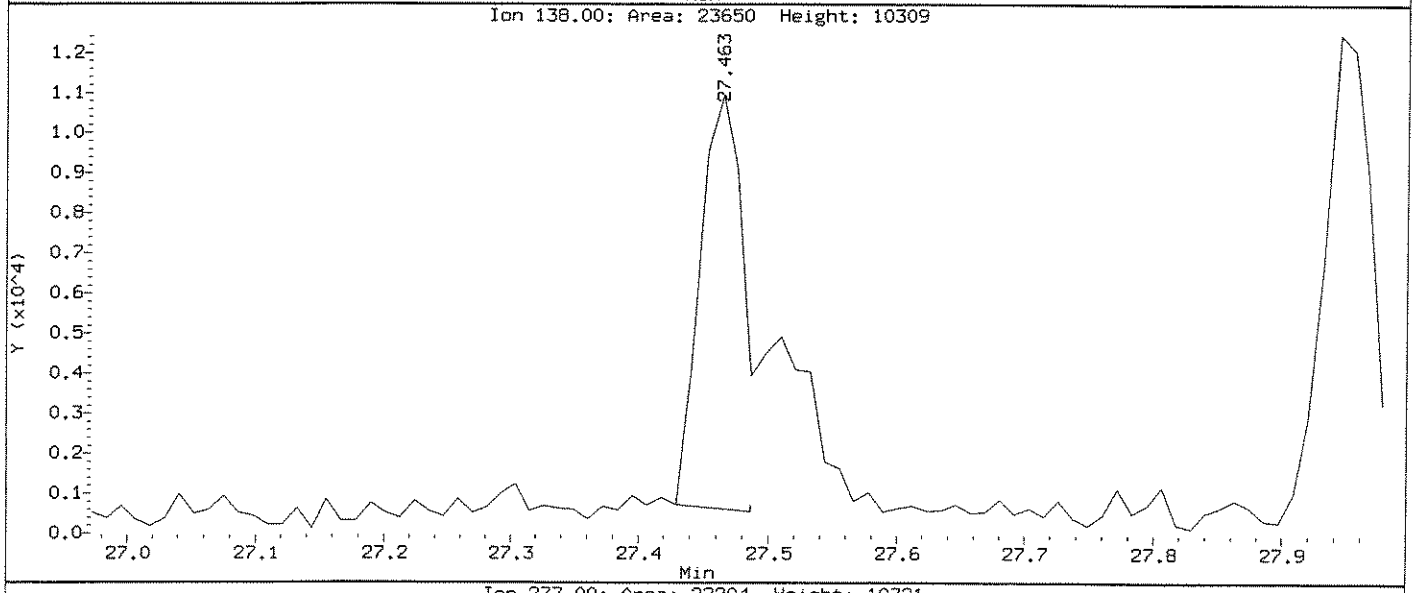


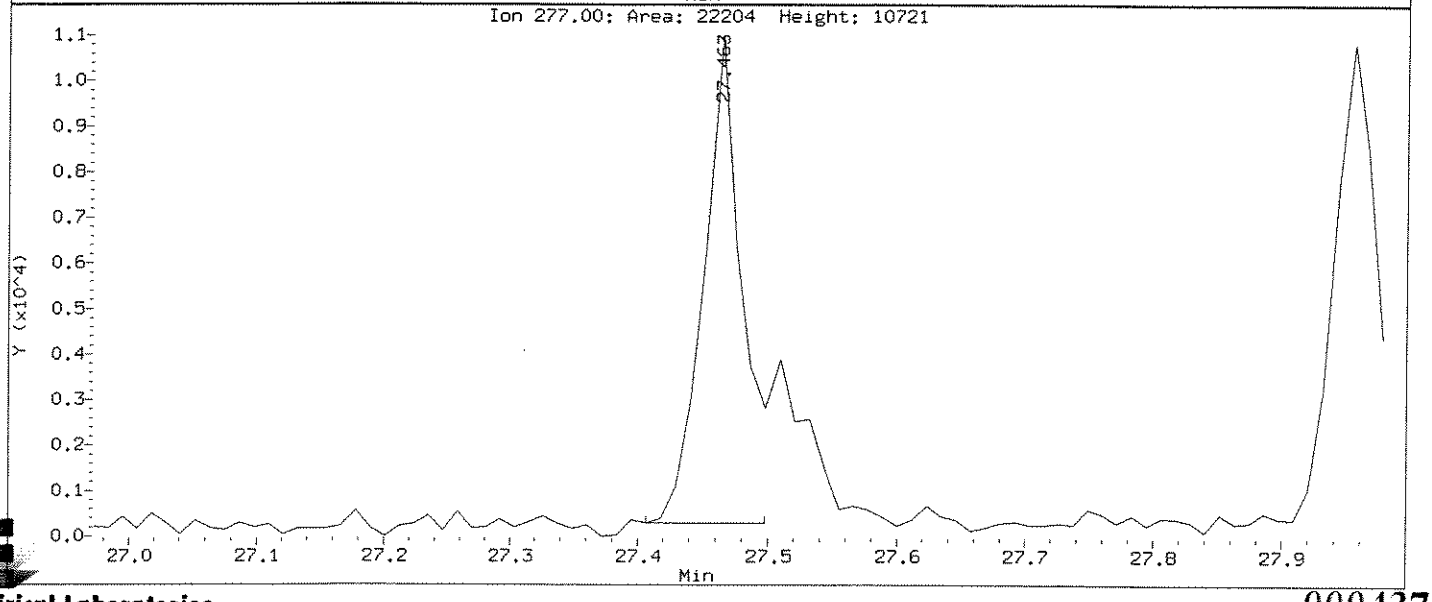
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Injection Date: 21-APR-2006 17:08
Instrument: bna3.i
Client Sample ID: PAHCCV0.20PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Lab Smp Id: PAHCCV0.40PPM Client Smp ID: PAHCCV0.40PPM
Inj Date : 21-APR-2006 17:48 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.40PPM;;;;;SV3490-3
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	302877	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1115729	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	71751	0.40000	0.2513
	5 Naphthalene	128	8.225	8.225	(1.004)	419539	0.40000	0.3922
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	232515	0.40000	0.3984
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	239779	0.40000	0.3924
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	694561	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	334012	0.40000	0.3987
	11 Acenaphthylene	152	11.924	11.924	(0.970)	425811	0.40000	0.3850
	12 Acenaphthene	153	12.369	12.369	(1.007)	271253	0.40000	0.3872
	15 Fluorene	166	13.579	13.579	(1.105)	315782	0.40000	0.3824
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1082317	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	454618	0.40000	0.3833

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	431691	0.40000	0.3776
	19 Fluoranthene	202	18.751	18.751	(1.185)	459347	0.40000	0.3821
*	20 Chrysene-d12	240	22.222	22.222	(1.000)	808078	1.00000	
	21 Pyrene	202	19.265	19.265	(0.867)	477723	0.40000	0.3978
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	301254	0.40000	0.3916
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	355700	0.40000	0.3780
	24 Chrysene	228	22.290	22.290	(1.003)	355759	0.40000	0.3829
*	25 Perylene-d12	264	25.430	25.430	(1.000)	592716	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	292455	0.40000	0.3574
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	305339	0.40000	0.3731
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	246925	0.40000	0.3662
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	196006	0.40000	0.4112(M)
	30 Dibenz(a,h)anthracene	278	27.508	27.508	(1.082)	172186	0.40000	0.3816
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	190964	0.40000	0.3837

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
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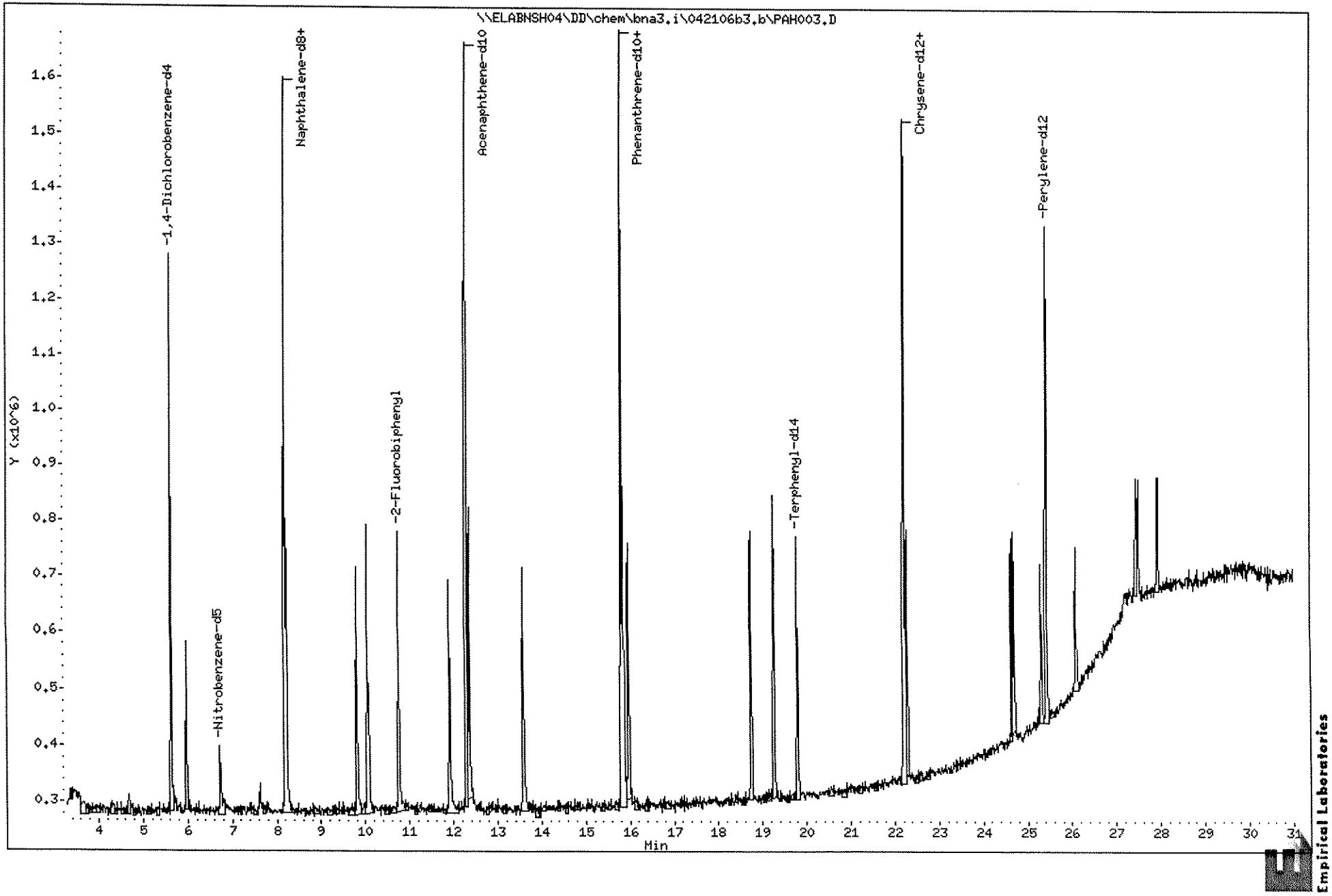
Client ID: PAHCCV0.40PPM
Sample Info: PAHCCV0.40PPM;;;;;SV3490-3
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

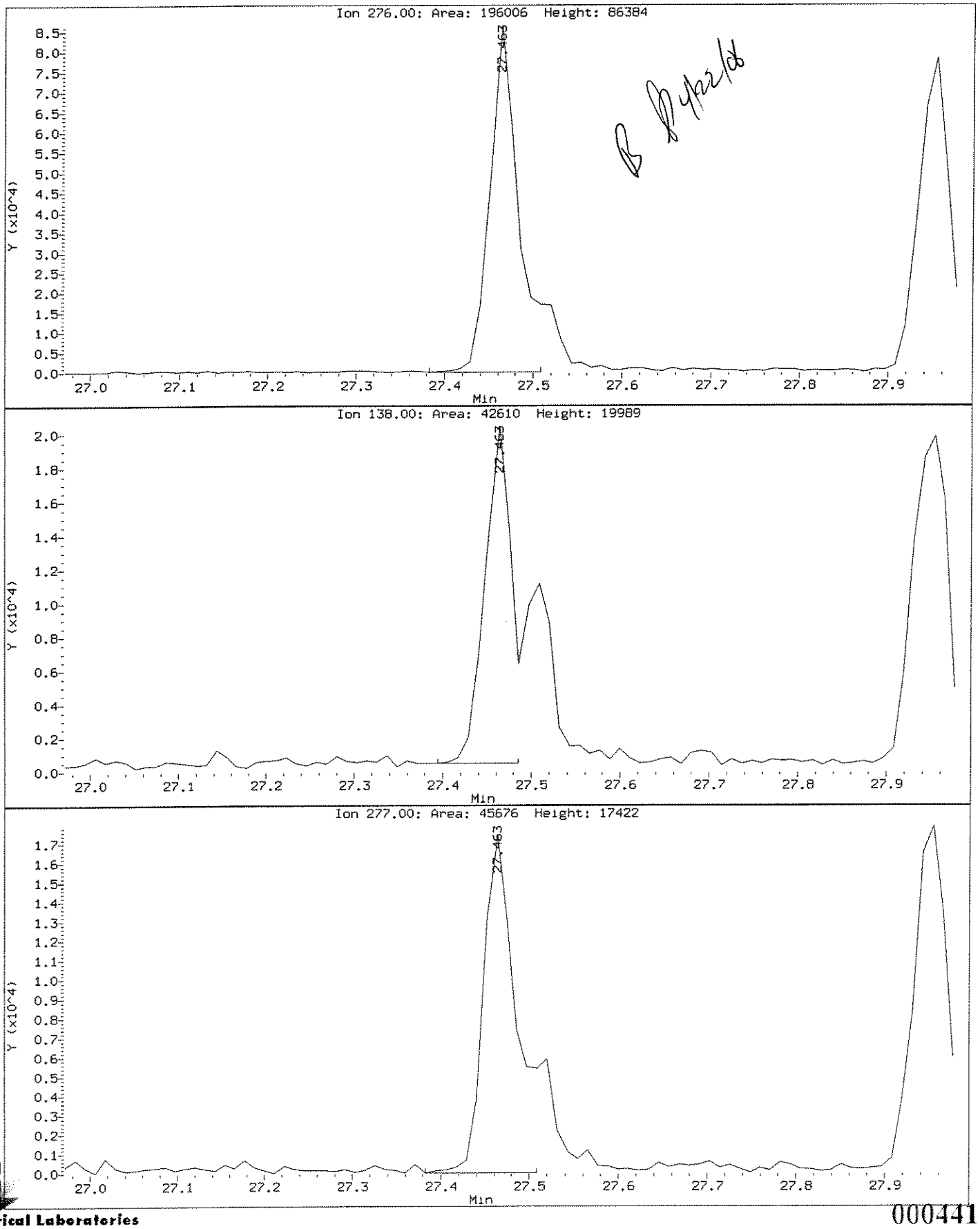
000440



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Injection Date: 21-APR-2006 17:48
Instrument: bna3.i
Client Sample ID: PAHCCV0.40PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Lab Smp Id: PAHCCV0.60PPM Client Smp ID: PAHCCV0.60PPM
Inj Date : 21-APR-2006 18:28 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.60PPM;;;;;SV3490-4
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.624	5.624	(1.000)	329200	1.00000	
*	3 Naphthalene-d8	136	8.182	8.182	(1.000)	1226474	1.00000	
$	4 Nitrobenzene-d5	82	6.732	6.732	(0.823)	117346	0.60000	0.3738
	5 Naphthalene	128	8.227	8.227	(1.006)	719719	0.60000	0.6122
	6 2-Methylnaphthalene	141	9.803	9.803	(1.198)	381395	0.60000	0.5945
	7 1-Methylnaphthalene	141	10.054	10.054	(1.229)	410164	0.60000	0.6106
*	8 Acenaphthene-d10	164	12.292	12.292	(1.000)	767876	1.00000	
$	10 2-Fluorobiphenyl	172	10.762	10.762	(0.876)	545610	0.60000	0.5891
	11 Acenaphthylene	152	11.915	11.915	(0.969)	727799	0.60000	0.5952
	12 Acenaphthene	153	12.372	12.372	(1.007)	461133	0.60000	0.5954
	15 Fluorene	166	13.582	13.582	(1.105)	547310	0.60000	0.5995
*	16 Phenanthrene-d10	188	15.808	15.808	(1.000)	1172520	1.00000	
	17 Phenanthrene	178	15.865	15.865	(1.004)	801691	0.60000	0.6239

4/22/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	774639	0.60000	0.6255
	19 Fluoranthene	202	18.742	18.742	(1.186)	795002	0.60000	0.6105
*	20 Chrysene-d12	240	22.224	22.224	(1.000)	946467	1.00000	
	21 Pyrene	202	19.267	19.267	(0.867)	861082	0.60000	0.6122
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	530003	0.60000	0.5882
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	661443	0.60000	0.6001
	24 Chrysene	228	22.281	22.281	(1.003)	659798	0.60000	0.6063
*	25 Perylene-d12	264	25.433	25.433	(1.000)	688483	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	576126	0.60000	0.6061
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.971)	556636	0.60000	0.5855
	28 Benzo(a)pyrene	252	25.307	25.307	(0.995)	448426	0.60000	0.5725
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	333760	0.60000	0.6027(M)
	30 Dibenz(a,h)anthracene	278	27.510	27.510	(1.082)	284631	0.60000	0.5431
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	354811	0.60000	0.6138

QC Flag Legend

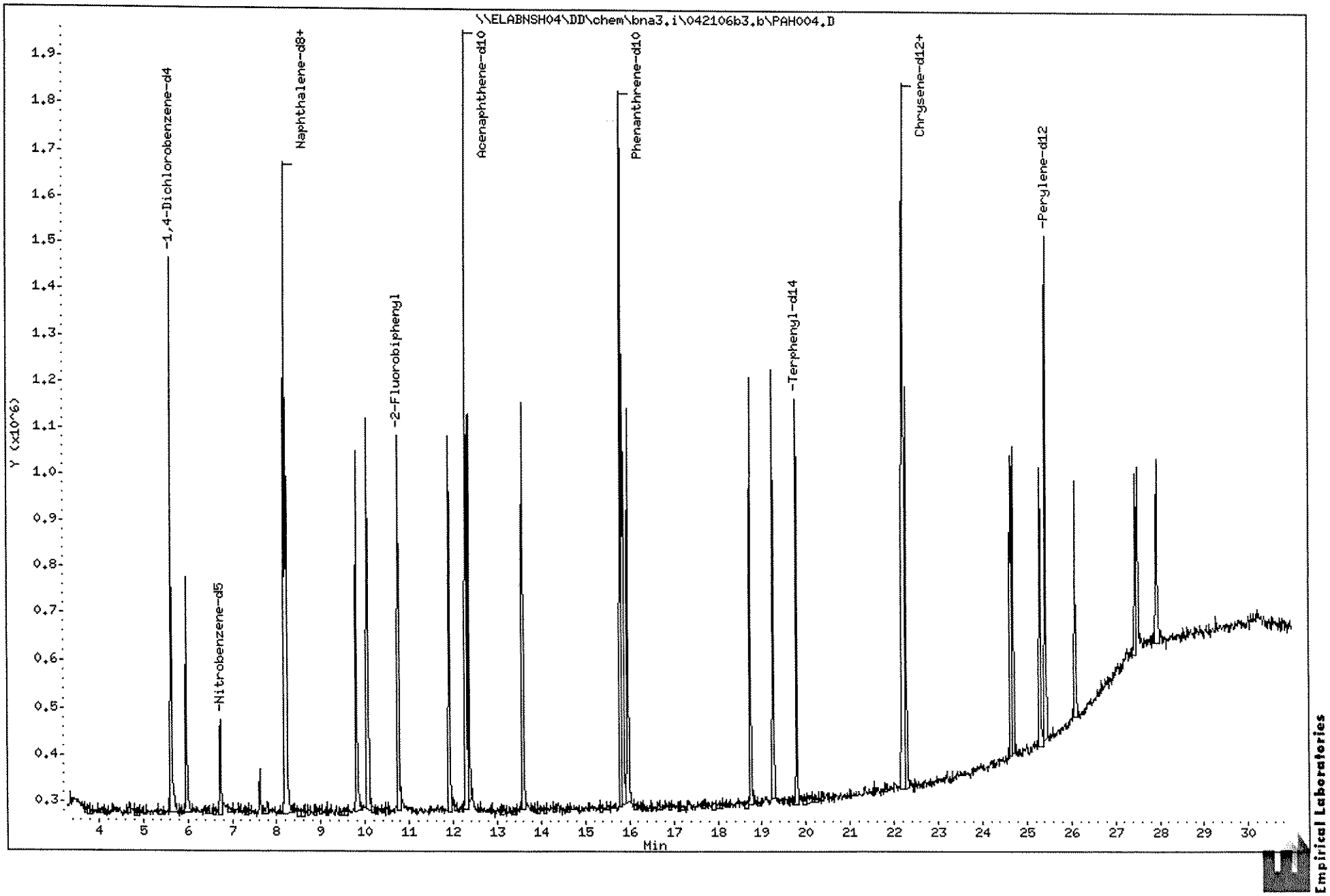
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Date : 21-APR-2006 18:28
Client ID: PAHCCV0.60PPM
Sample Info: PAHCCV0.60PPM;;;;;SV3490-4
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

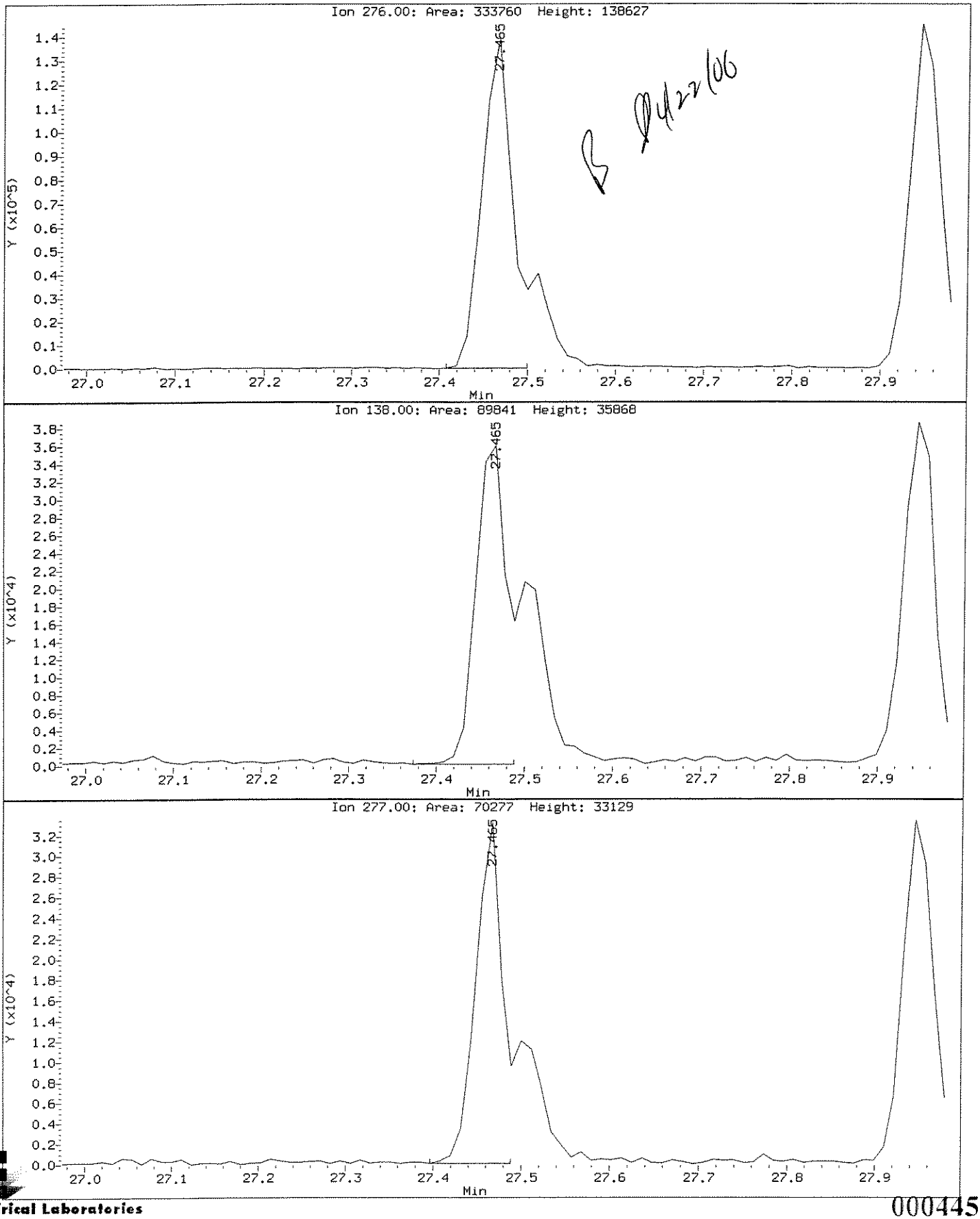
000444



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Injection Date: 21-APR-2006 18:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.60PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Lab Smp Id: PAHCCV1.00PPM Client Smp ID: PAHCCV1.00PPM
Inj Date : 21-APR-2006 19:08 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV1.00PPM;;;;;SV3490-6
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	329299	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1224400	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	214407	1.00000	0.6842
	5 Naphthalene	128	8.226	8.226	(1.004)	1207319	1.00000	1.029
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	653238	1.00000	1.020
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	678548	1.00000	1.012
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	756735	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	932424	1.00000	1.022
	11 Acenaphthylene	152	11.913	11.913	(0.969)	1279930	1.00000	1.062
	12 Acenaphthene	153	12.370	12.370	(1.007)	770344	1.00000	1.009
	15 Fluorene	166	13.580	13.580	(1.105)	940817	1.00000	1.046
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1203294	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	1377910	1.00000	1.045

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.966	15.966	(1.010)	1332118	1.00000	1.048
	19 Fluoranthene	202	18.740	18.740	(1.186)	1414100	1.00000	1.058
*	20 Chrysene-d12	240	22.223	22.223	(1.000)	1000636	1.00000	
	21 Pyrene	202	19.266	19.266	(0.867)	1480435	1.00000	0.9955
$	22 Terphenyl-d14	244	19.791	19.791	(0.891)	920381	1.00000	0.9661
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	1147993	1.00000	0.9852
	24 Chrysene	228	22.280	22.280	(1.003)	1159160	1.00000	1.007
*	25 Perylene-d12	264	25.431	25.431	(1.000)	714580	1.00000	
	26 Benzo(b)fluoranthene	252	24.643	24.643	(0.969)	979171	1.00000	0.9924
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	980610	1.00000	0.9939
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	808656	1.00000	0.9947
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	566235	1.00000	0.9852 (M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	539929	1.00000	0.9926
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	601831	1.00000	1.003

QC Flag Legend

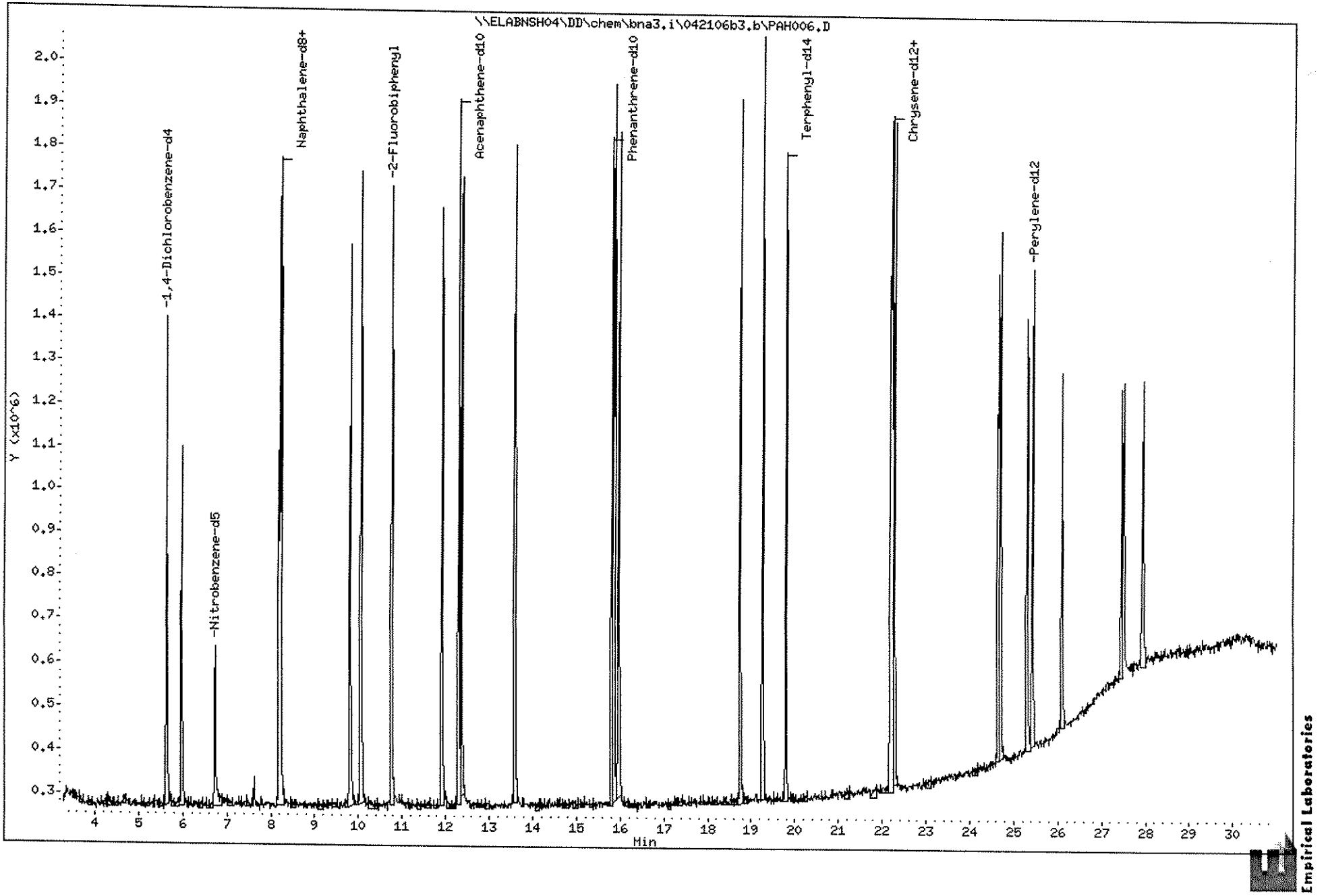
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Date : 21-APR-2006 19:08
Client ID: PAHCCV1.00PPM
Sample Info: PAHCCV1.00PPM;;;;;SV3490-6
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

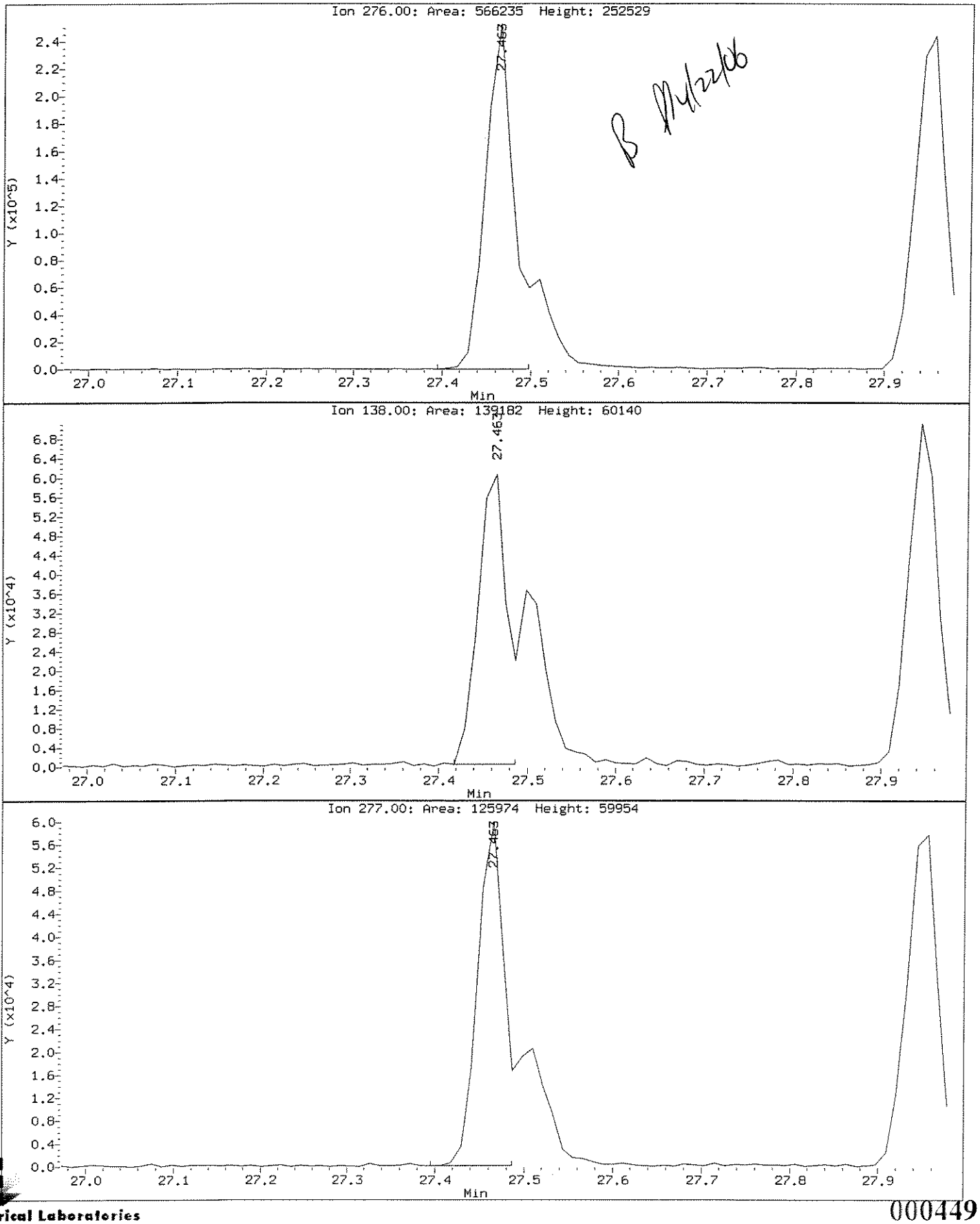
000448



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Injection Date: 21-APR-2006 19:08
Instrument: bna3.i
Client Sample ID: PAHCCV1.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



B 4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Lab Smp Id: PAHCCV2.50PPM Client Smp ID: PAHCCV2.50PPM
Inj Date : 21-APR-2006 19:48 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV2.50PPM;;;;;SV3490-8
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	351441	1.00000	
*	3 Naphthalene-d8	136	8.182	8.182	(1.000)	1256420	1.00000	
$	4 Nitrobenzene-d5	82	6.732	6.732	(0.823)	589518	2.50000	1.833
	5 Naphthalene	128	8.228	8.228	(1.006)	3009506	2.50000	2.499
	6 2-Methylnaphthalene	141	9.803	9.803	(1.198)	1644661	2.50000	2.502
	7 1-Methylnaphthalene	141	10.054	10.054	(1.229)	1658458	2.50000	2.410
*	8 Acenaphthene-d10	164	12.292	12.292	(1.000)	749522	1.00000	
$	10 2-Fluorobiphenyl	172	10.762	10.762	(0.876)	2301812	2.50000	2.546
	11 Acenaphthylene	152	11.915	11.915	(0.969)	3095703	2.50000	2.594
	12 Acenaphthene	153	12.360	12.360	(1.006)	1898346	2.50000	2.511
	15 Fluorene	166	13.582	13.582	(1.105)	2282690	2.50000	2.562
*	16 Phenanthrene-d10	188	15.808	15.808	(1.000)	1165893	1.00000	
	17 Phenanthrene	178	15.865	15.865	(1.004)	3243172	2.50000	2.538

4/22/06

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Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	3243718	2.50000	2.634
	19 Fluoranthene	202	18.742	18.742	(1.186)	3318557	2.50000	2.563
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	921360	1.00000	
	21 Pyrene	202	19.256	19.256	(0.866)	3546273	2.50000	2.590
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	2192924	2.50000	2.500
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	2709732	2.50000	2.525
	24 Chrysene	228	22.282	22.282	(1.003)	2667007	2.50000	2.517
*	25 Perylene-d12	264	25.421	25.421	(1.000)	641370	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	2332875	2.50000	2.634
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.972)	2212441	2.50000	2.498
	28 Benzo(a)pyrene	252	25.307	25.307	(0.996)	1851015	2.50000	2.537
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	1282224	2.50000	2.486
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	1216301	2.50000	2.491
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	1301749	2.50000	2.417

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
Date : 21-APR-2006 19:48
Client ID: PAHCCV2.50PPM
Sample Info: PAHCCV2.50PPM;;;;;SV3490-8
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

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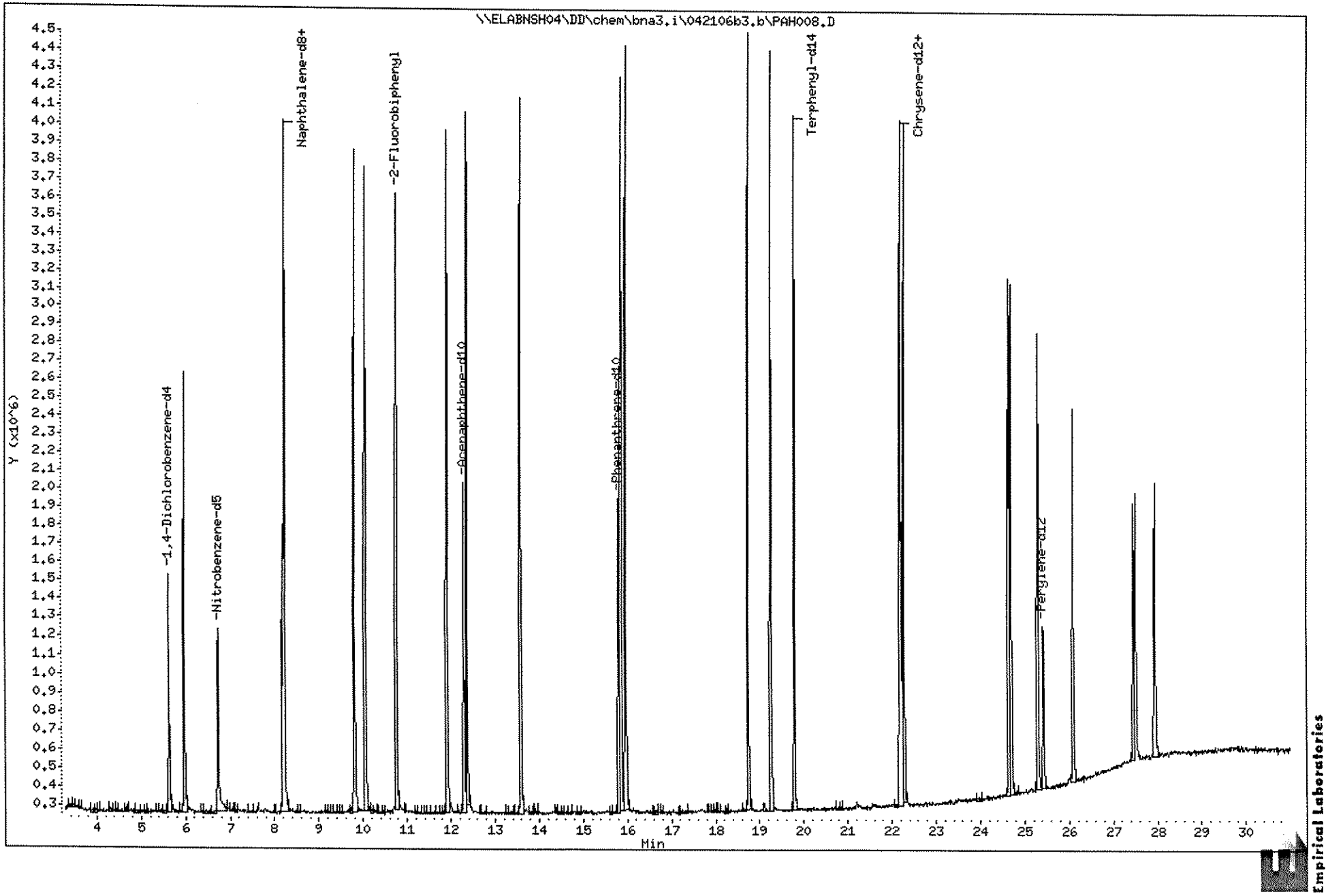

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Lab Smp Id: PAHCCV5.00PPM Client Smp ID: PAHCCV5.00PPM
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Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV5.00PPM;;;;;SV3490-9
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	327761	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1141420	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	1251055	5.00000	4.282
	5 Naphthalene	128	8.224	8.224	(1.004)	5737503	5.00000	5.244
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	3121069	5.00000	5.227
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	3234343	5.00000	5.174
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	690701	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	4365308	5.00000	5.240
	11 Acenaphthylene	152	11.912	11.912	(0.969)	6005889	5.00000	5.461
	12 Acenaphthene	153	12.369	12.369	(1.007)	3671339	5.00000	5.270
	15 Fluorene	166	13.579	13.579	(1.105)	4369991	5.00000	5.322
*	16 Phenanthrene-d10	188	15.805	15.805	(1.000)	1054546	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.004)	6107666	5.00000	5.285

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Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.965	15.965	(1.010)	6062413	5.00000	5.443
	19 Fluoranthene	202	18.739	18.739	(1.186)	6314580	5.00000	5.391
*	20 Chrysene-d12	240	22.221	22.221	(1.000)	817413	1.00000	
	21 Pyrene	202	19.264	19.264	(0.867)	6717942	5.00000	5.530
$	22 Terphenyl-d14	244	19.789	19.789	(0.891)	4081780	5.00000	5.245
	23 Benzo(a)anthracene	228	22.187	22.187	(0.998)	5054634	5.00000	5.310
	24 Chrysene	228	22.290	22.290	(1.003)	4973401	5.00000	5.291
*	25 Perylene-d12	264	25.429	25.429	(1.000)	555716	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	4173515	5.00000	5.439
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	4195909	5.00000	5.468
	28 Benzo(a)pyrene	252	25.304	25.304	(0.995)	3406369	5.00000	5.388
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	2338576	5.00000	5.232(M)
	30 Dibenz(a,h)anthracene	278	27.507	27.507	(1.082)	2292764	5.00000	5.420
	31 Benzo(g,h,i)perylene	276	27.952	27.952	(1.099)	2384785	5.00000	5.111

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
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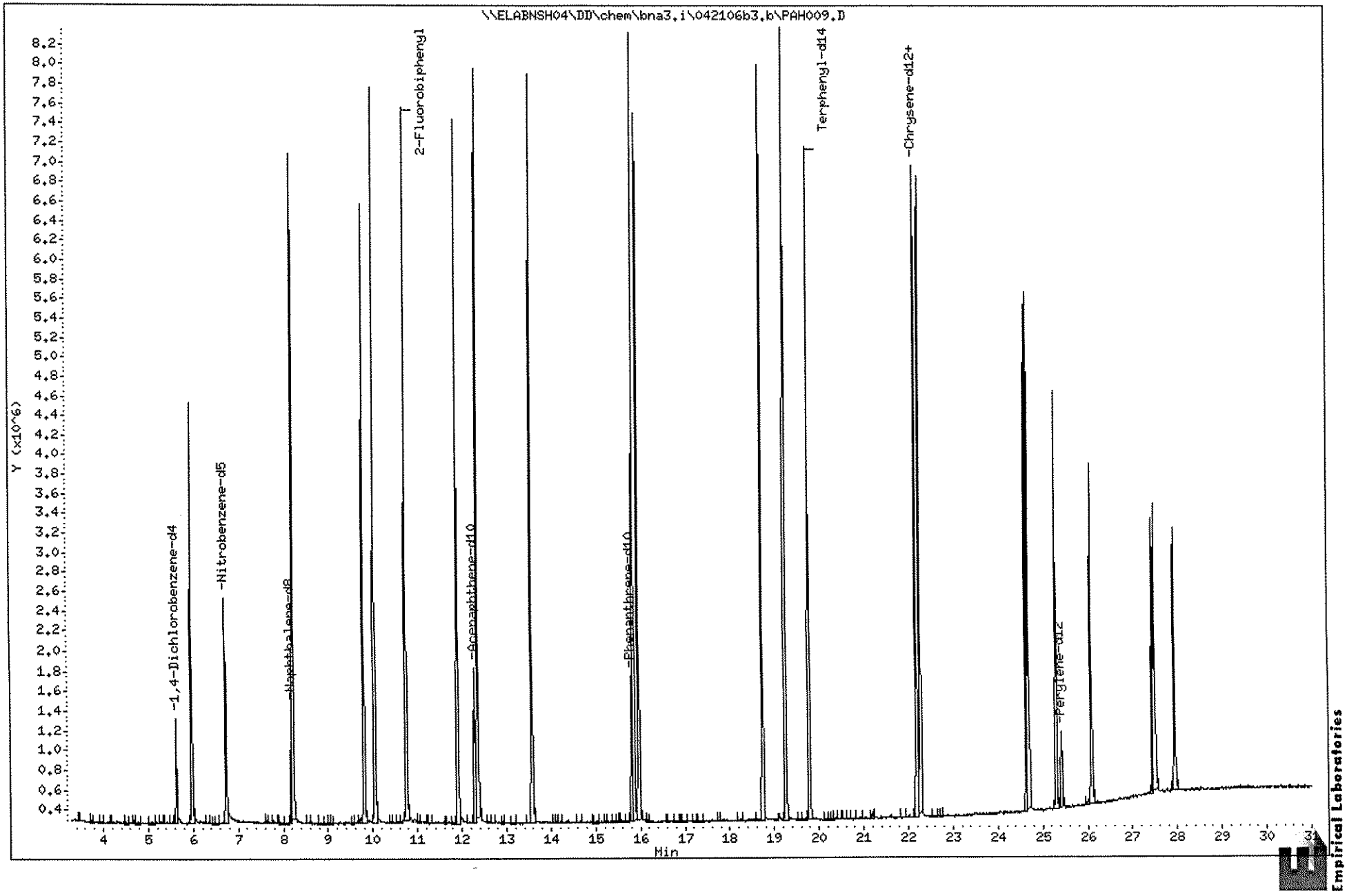
Sample Info: PAHCCV5.00PPM;;;;;SV3490-9
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: ADM
Column diameter: 0.25

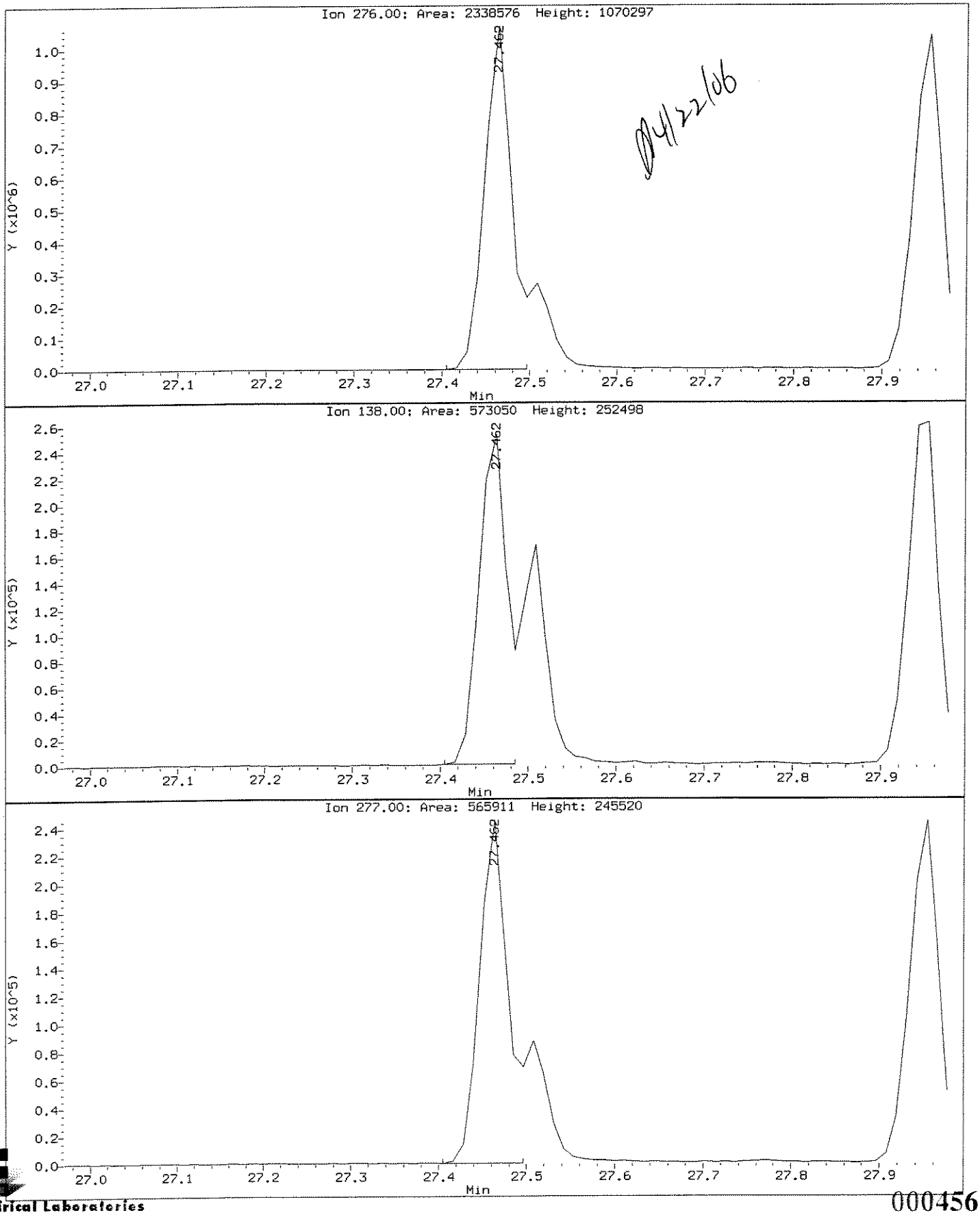
000455



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Injection Date: 21-APR-2006 20:27
Instrument: bna3.i
Client Sample ID: PAHCCV5.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



04/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Lab Smp Id: PAHCCV10.0PPM Client Smp ID: PAHCCV10.0PPM
Inj Date : 21-APR-2006 21:07 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV10.0PPM;;;;;SV3490-11
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 10 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	328202	1.00000	
*	3 Naphthalene-d8	136	8.183	8.183	(1.000)	1168941	1.00000	
$	4 Nitrobenzene-d5	82	6.733	6.733	(0.823)	2809787	10.0000	9.392
	5 Naphthalene	128	8.228	8.228	(1.006)	11547364	10.0000	10.30
	6 2-Methylnaphthalene	141	9.804	9.804	(1.198)	6288467	10.0000	10.28
	7 1-Methylnaphthalene	141	10.055	10.055	(1.229)	6423303	10.0000	10.03
*	8 Acenaphthene-d10	164	12.293	12.293	(1.000)	690455	1.00000	
$	10 2-Fluorobiphenyl	172	10.763	10.763	(0.876)	8665745	10.0000	10.40
	11 Acenaphthylene	152	11.916	11.916	(0.969)	11912417	10.0000	10.83
	12 Acenaphthene	153	12.373	12.373	(1.007)	7309886	10.0000	10.50
	15 Fluorene	166	13.583	13.583	(1.105)	8658849	10.0000	10.55
*	16 Phenanthrene-d10	188	15.809	15.809	(1.000)	1034743	1.00000	
	17 Phenanthrene	178	15.866	15.866	(1.004)	12015977	10.0000	10.60

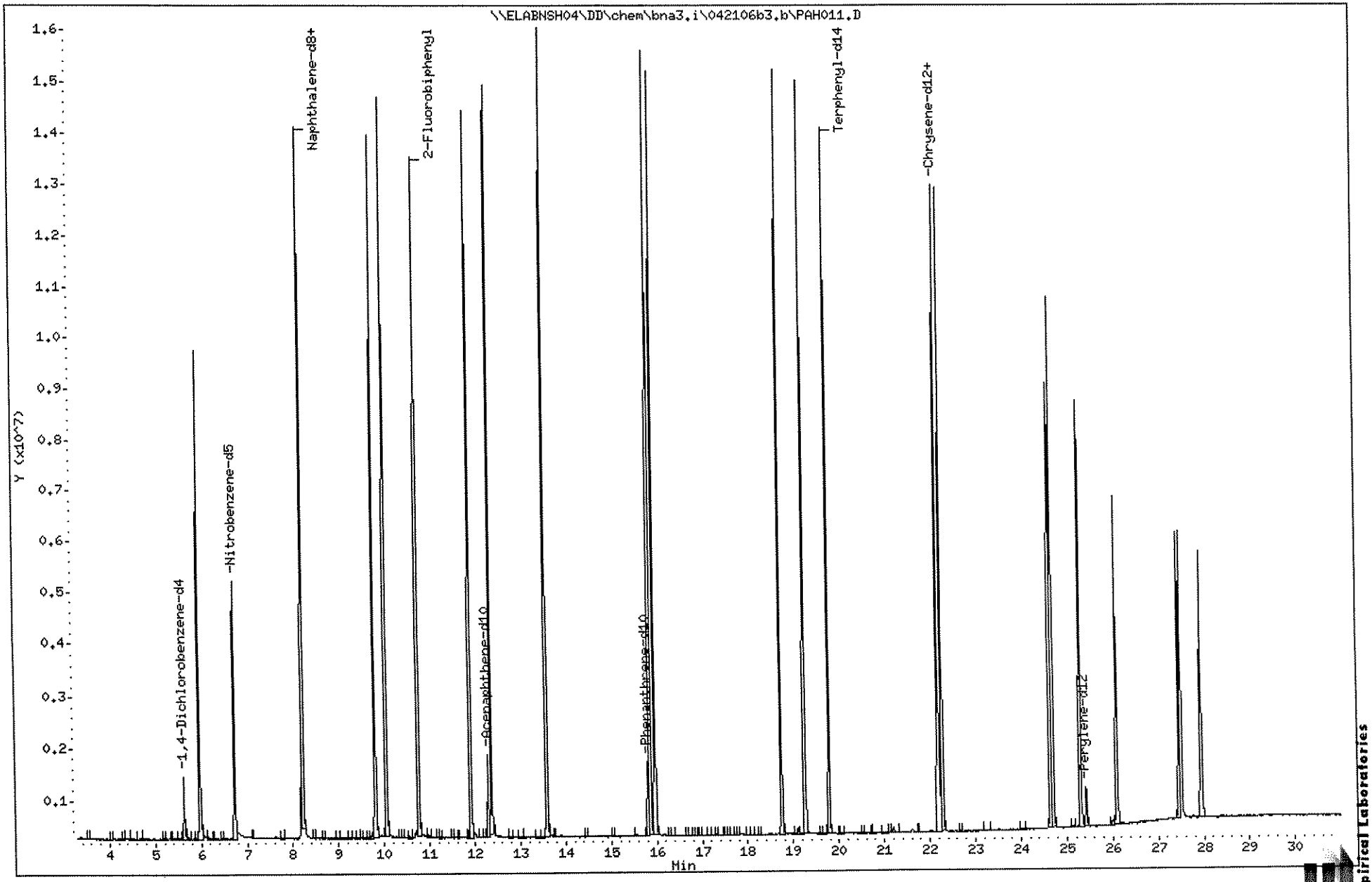
4/21/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.969	15.969	(1.010)	11816583	10.0000	10.81
	19 Fluoranthene	202	18.743	18.743	(1.186)	12154493	10.0000	10.58
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	799663	1.00000	
	21 Pyrene	202	19.268	19.268	(0.867)	12810447	10.0000	10.78
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	7894983	10.0000	10.37
	23 Benzo(a)anthracene	228	22.191	22.191	(0.998)	9983668	10.0000	10.72
	24 Chrysene	228	22.294	22.294	(1.003)	9506218	10.0000	10.34
*	25 Perylene-d12	264	25.422	25.422	(1.000)	534584	1.00000	
	26 Benzo(b)fluoranthene	252	24.657	24.657	(0.970)	7848714	10.0000	10.63
	27 Benzo(k)fluoranthene	252	24.703	24.703	(0.972)	8127846	10.0000	11.01
	28 Benzo(a)pyrene	252	25.308	25.308	(0.996)	6600718	10.0000	10.85
	29 Indeno(1,2,3-cd)pyrene	276	27.466	27.466	(1.080)	4581178	10.0000	10.66
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	4457770	10.0000	10.95
	31 Benzo(g,h,i)perylene	276	27.957	27.957	(1.100)	4476890	10.0000	9.974

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Date : 21-APR-2006 21:07
Client ID: PAHCCV10.0PPM
Instrument: bna3.i
Sample Info: PAHCCV10.0PPM;;;;;SV3490-11
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000459



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Lab Smp Id: PAHCCV20.0PPM Client Smp ID: PAHCCV20.0PPM
Inj Date : 21-APR-2006 21:47 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV20.0PPM;;;;;SV3490-13
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
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Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 11 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	324325	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1113673	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	5844767	20.0000	20.50(A)
	5 Naphthalene	128	8.225	8.225	(1.004)	17633624	20.0000	16.52
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	11836293	20.0000	20.32(A)
	7 1-Methylnaphthalene	141	10.063	10.063	(1.229)	12274146	20.0000	20.12(A)
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	665068	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	15413066	20.0000	19.21
	11 Acenaphthylene	152	11.913	11.913	(0.969)	18158725	20.0000	17.15
	12 Acenaphthene	153	12.369	12.369	(1.007)	13586065	20.0000	20.25(A)
	15 Fluorene	166	13.591	13.591	(1.106)	15882727	20.0000	20.09(A)
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1001093	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	18888056	20.0000	17.22

4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.011)	19023984	20.0000	17.99
	19 Fluoranthene	202	18.751	18.751	(1.186)	20013711	20.0000	18.00
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	734542	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	19784312	20.0000	18.12
$	22 Terphenyl-d14	244	19.802	19.802	(0.891)	14979344	20.0000	21.42(A)
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	17871479	20.0000	20.89(A)
	24 Chrysene	228	22.302	22.302	(1.003)	16887934	20.0000	19.99
*	25 Perylene-d12	264	25.430	25.430	(1.000)	500206	1.00000	
	26 Benzo(b)fluoranthene	252	24.665	24.665	(0.970)	15131398	20.0000	21.91(A)
	27 Benzo(k)fluoranthene	252	24.711	24.711	(0.972)	14612083	20.0000	21.16(A)
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	12605362	20.0000	22.15(A)
	29 Indeno(1,2,3-cd)pyrene	276	27.474	27.474	(1.080)	9064855	20.0000	22.53(A)
	30 Dibenz(a,h)anthracene	278	27.520	27.520	(1.082)	8730118	20.0000	22.93(A)
	31 Benzo(g,h,i)perylene	276	27.965	27.965	(1.100)	8639579	20.0000	20.57(A)

QC Flag Legend

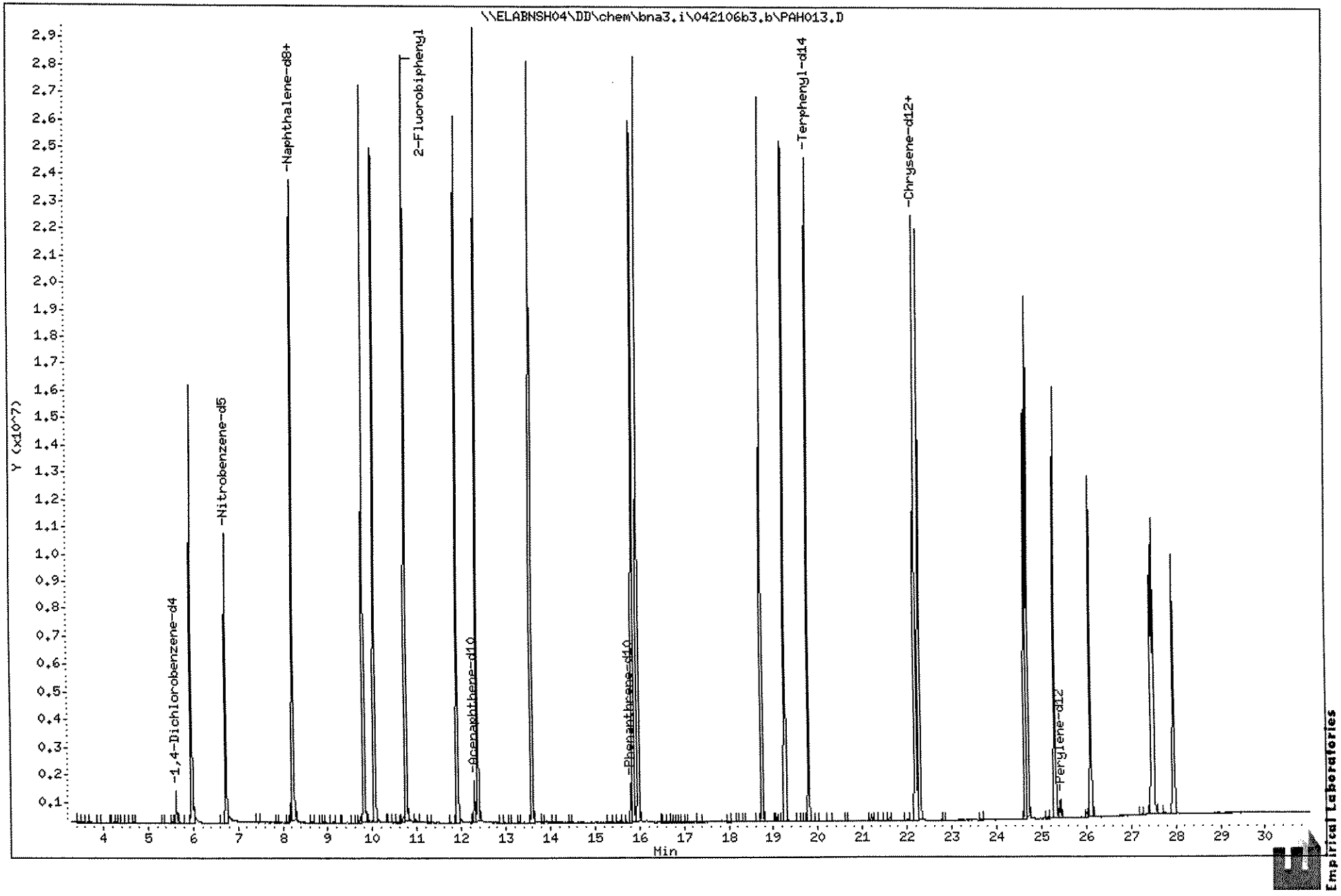
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Date : 21-APR-2006 21:47
Client ID: PAHCCV20.0PPM
Sample Info: PAHCCV20.0PPM;;;;;SV3490-13
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

000462



Empirical Laboratories

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Acenaphthene	50.00	47.26	94	75-125
Acenaphthylene	50.00	54.24	108	75-125
Anthracene	50.00	47.86	96	75-125
Benzoic acid	50.00	52.76	106	75-125
Benzo(a)anthracene	50.00	46.71	93	75-125
Benzo(b)fluoranthene	50.00	49.33	99	75-125
Benzo(k)fluoranthene	50.00	50.08	100	75-125
Benzo(g,h,i)perylene	50.00	45.90	92	75-125
Benzo(a)pyrene	50.00	50.61	101	75-125
Benzyl alcohol	50.00	48.61	97	75-125
bis(2-Chloroethoxy)meth	50.00	48.53	97	75-125
bis(2-Chloroethyl)ether	50.00	46.90	94	75-125
bis(2-Chloroisopropyl)e	50.00	48.81	98	75-125
Bis(2-ethylhexyl)phthal	50.00	49.50	99	75-125
4-Bromophenyl-phenyleth	50.00	40.59	81	75-125
Butylbenzylphthalate	50.00	49.75	100	75-125
4-Chloroaniline	50.00	54.74	109	75-125
Carbazole	50.00	48.49	97	75-125
4-Chloro-3-methylphenol	50.00	49.56	99	75-125
2-Chloronaphthalene	50.00	51.57	103	75-125
2-Chlorophenol	50.00	50.59	101	75-125
4-Chlorophenyl-phenylet	50.00	47.62	95	75-125
Chrysene	50.00	46.03	92	75-125
Dibenz(a,h)anthracene	50.00	45.58	91	75-125
Dibenzofuran	50.00	47.63	95	75-125
1,3-Dichlorobenzene	50.00	48.01	96	75-125
1,4-Dichlorobenzene	50.00	47.11	94	75-125
1,2-Dichlorobenzene	50.00	51.29	102	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
3,3'-Dichlorobenzidine	50.00	51.84	104	75-125
2,4-Dichlorophenol	50.00	47.31	95	75-125
Diethylphthalate	50.00	47.79	96	75-125
2,4-Dimethylphenol	50.00	44.79	90	75-125
Dimethylphthalate	50.00	48.46	97	75-125
Di-n-butylphthalate	50.00	48.42	97	75-125
4,6-Dinitro-2-methylphe	50.00	53.86	108	75-125
2,4-Dinitrophenol	50.00	55.40	111	75-125
2,4-Dinitrotoluene	50.00	52.25	104	75-125
2,6-Dinitrotoluene	50.00	53.44	107	75-125
Di-n-octylphthalate	50.00	51.97	104	75-125
1,2-Diphenylhydrazine	50.00	49.65	99	75-125
Fluoranthene	50.00	48.18	96	75-125
Fluorene	50.00	46.66	93	75-125
Hexachlorobenzene	50.00	47.65	95	75-125
Hexachlorobutadiene	50.00	51.09	102	75-125
Hexachlorocyclopentadie	50.00	62.47	125	75-125
Hexachloroethane	50.00	48.55	97	75-125
Indeno(1,2,3-cd)pyrene	50.00	45.20	90	75-125
Isophorone	50.00	49.58	99	75-125
2-Methylnaphthalene	50.00	48.30	97	75-125
2-Methylphenol	50.00	47.85	96	75-125
3-Methylphenol	50.00	51.69	103	75-125
Naphthalene	50.00	46.63	93	75-125
4-Methylphenol	50.00	51.70	103	75-125
2-Nitroaniline	50.00	56.19	112	75-125
3-Nitroaniline	50.00	54.85	110	75-125
4-Nitroaniline	50.00	58.14	116	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA20213

Matrix Spike - Client Sample No.: ICV050PPM

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Nitrobenzene	50.00	49.69	99	75-125
2-Nitrophenol	50.00	52.18	104	75-125
4-Nitrophenol	50.00	54.00	108	75-125
N-Nitroso-di-methylamin	50.00	45.48	91	75-125
N-Nitrosodiphenylamine	50.00	47.86	96	75-125
N-Nitroso-di-n-prop.(1)	50.00	49.70	99	75-125
Pentachlorophenol	50.00	50.49	101	75-125
Phenanthrene	50.00	47.19	94	75-125
Phenol	50.00	49.08	98	75-125
Pyrene	50.00	45.22	90	75-125
1,2,4-Trichlorobenzene	50.00	47.10	94	75-125
2,4,5-Trichlorophenol	50.00	52.13	104	75-125
2,4,6-Trichlorophenol	50.00	51.42	103	75-125
2-Fluorophenol	50.00	53.29	106	75-125
Phenol-d6	50.00	53.90	108	75-125
Nitrobenzene-d5	50.00	51.93	104	75-125
2-Fluorobiphenyl	50.00	48.17	96	75-125
2,4,6-Tribromophenol	50.00	54.56	109	75-125
Terphenyl-d14	50.00	46.15	92	75-125

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

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tegrator: HP RTE Compound Sublist: ppbna.sub
rget Version: 4.04
ocessing Host: NSH-BURCHFIELD

ncentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

4/20/06

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
1 1,4-Dichlorobenzene-d4	152	4.910	4.914	(1.000)	400547	40.0000	
2 2-Fluorophenol	112	4.007	4.014	(0.816)	739364	53.2906	53.29
3 Phenol-d6	99	4.676	4.687	(0.952)	893946	53.9018	53.90
4 Pyridine	79	2.960	2.967	(0.603)	913930	51.1516	51.15
5 N-Nitroso-di-methylamine	42	2.974	2.980	(0.606)	421473	45.4845	45.48
6 Aniline	93	4.696	4.708	(0.956)	740594	77.4184	77.42
8 Phenol	94	4.683	4.702	(0.954)	930930	49.0835	49.08
9 bis(2-Chloroethyl)ether	93	4.737	4.749	(0.965)	779252	46.8964	46.90
10 2-Chlorophenol	128	4.779	4.783	(0.973)	666698	50.5930	50.59
11 1,3-Dichlorobenzene	146	4.883	4.886	(0.994)	717569	48.0080	48.01
12 1,4-Dichlorobenzene	146	4.924	4.928	(1.003)	667818	47.1090	47.11
13 Benzyl alcohol	108	5.040	5.051	(1.026)	438360	48.6060	48.61
14 1,2-Dichlorobenzene	146	5.074	5.079	(1.033)	679439	51.2894	51.29
15 2-Methylphenol	108	5.136	5.147	(1.046)	588344	47.8499	47.85

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
16 bis(2-Chloroisopropyl)ether	45	5.156	5.161	(1.050)	1574275	48.8068	48.81
17 3-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6931	51.69
18 4-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6980	51.70
19 N-Nitroso-di-n-propylamine	70	5.287	5.305	(1.077)	570973	49.6976	49.70
20 Hexachloroethane	117	5.335	5.333	(1.087)	306393	48.5494	48.55
31 Naphthalene-d8	136	6.111	6.116	(1.000)	1246820	40.0000	
32 Nitrobenzene-d5	82	5.397	5.409	(0.883)	706793	51.9295	51.93
33 Nitrobenzene	77	5.417	5.429	(0.887)	684749	49.6904	49.69
35 Isophorone	82	5.637	5.656	(0.922)	1455528	49.5831	49.58
36 2-Nitrophenol	139	5.719	5.725	(0.936)	381478	52.1794	52.18
38 2,4-Dimethylphenol	107	5.753	5.766	(0.942)	529642	44.7906	44.79
39 Benzoic acid	105	5.898	5.958	(0.965)	438381	52.7621	52.76
40 bis(2-Chloroethoxy)methane	93	5.856	5.868	(0.958)	857091	48.5347	48.53
43 2,4-Dichlorophenol	162	5.966	5.979	(0.976)	462113	47.3072	47.31
46 1,2,4-Trichlorobenzene	180	6.062	6.068	(0.992)	490904	47.1047	47.10
47 Naphthalene	128	6.138	6.143	(1.004)	1445608	46.6329	46.63
48 4-Chloroaniline	127	6.227	6.226	(1.019)	694084	54.7375	54.74
49 Hexachlorobutadiene	225	6.358	6.357	(1.040)	269347	51.0916	51.09
50 4-Chloro-3-methylphenol	107	6.872	6.900	(1.125)	483354	49.5630	49.56
51 2-Methylnaphthalene	141	7.064	7.072	(1.156)	660347	48.2994	48.30
65 Acenaphthene-d10	164	9.016	9.023	(1.000)	639570	40.0000	
66 Hexachlorocyclopentadiene	237	7.435	7.436	(0.825)	238751	62.4728	62.47
67 2,4,6-Trichlorophenol	196	7.572	7.594	(0.840)	308469	51.4165	51.42
68 2,4,5-Trichlorophenol	196	7.634	7.662	(0.847)	323972	52.1267	52.13
69 2-Chloronaphthalene	162	7.875	7.897	(0.873)	931870	51.5670	51.57
70 2-Fluorobiphenyl	172	7.724	7.731	(0.857)	980511	48.1750	48.17
71 2-Nitroaniline	65	8.157	8.178	(0.905)	395379	56.1871	56.19
72 Dimethylphthalate	163	8.624	8.645	(0.957)	1097747	48.4635	48.46
73 Acenaphthylene	152	8.686	8.700	(0.963)	1458654	54.2438	54.24
74 2,6-Dinitrotoluene	165	8.741	8.762	(0.969)	265325	53.4445	53.44
75 3-Nitroaniline	138	9.023	9.058	(1.001)	302450	54.8499	54.85
76 Acenaphthene	153	9.092	9.106	(1.008)	872375	47.2620	47.26
77 2,4-Dinitrophenol	184	9.243	9.270	(1.025)	140791	55.4040	55.40
79 4-Nitrophenol	65	9.456	9.504	(1.049)	205414	54.0023	54.00
80 Dibenzofuran	168	9.442	9.462	(1.047)	1218226	47.6281	47.63
81 2,4-Dinitrotoluene	165	9.607	9.634	(1.066)	328399	52.2502	52.25
82 Diethylphthalate	149	10.267	10.294	(1.139)	1037178	47.7896	47.79
83 4-Chlorophenyl-phenylether	204	10.315	10.328	(1.144)	401589	47.6214	47.62
84 Fluorene	166	10.247	10.259	(1.136)	921265	46.6649	46.66
85 4-Nitroaniline	138	10.466	10.513	(1.161)	275045	58.1425	58.14
98 Phenanthrene-d10	188	12.614	12.629	(1.000)	848846	40.0000	
99 1,2-Diphenylhydrazine	77	10.699	10.720	(0.848)	1416542	49.6502	49.65
100 Carbazole	167	13.330	13.352	(1.057)	1131235	48.4941	48.49
101 4,6-Dinitro-2-methylphenol	198	10.569	10.609	(0.838)	185817	53.8581	53.86
102 N-Nitrosodiphenylamine	169	10.644	10.672	(0.844)	637280	47.8584	47.86
103 2,4,6-Tribromophenol	330	10.884	10.920	(0.863)	170865	54.5621	54.56
104 4-Bromophenyl-phenylether	248	11.528	11.545	(0.914)	234436	40.5877	40.59

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
05 Hexachlorobenzene	284	11.837	11.854	(0.938)	303002	47.6463	47.65
06 Pentachlorophenol	266	12.347	12.361	(0.979)	203601	50.4905	50.49
07 Phenanthrene	178	12.677	12.705	(1.005)	1142074	47.1884	47.19
08 Anthracene	178	12.800	12.823	(1.015)	1143543	47.8586	47.86
10 Di-n-butylphthalate	149	14.739	14.753	(1.168)	1907934	48.4156	48.42
11 Fluoranthene	202	16.016	16.042	(1.270)	1154345	48.1752	48.18
27 Chrysene-d12	240	20.234	20.256	(1.000)	658581	40.0000	
29 Pyrene	202	16.624	16.647	(0.822)	1189297	45.2180	45.22
30 Terphenyl-d14	244	17.338	17.355	(0.857)	767441	46.1479	46.15
31 Butylbenzylphthalate	149	19.058	19.072	(0.942)	813722	49.7480	49.75
32 3,3'-Dichlorobenzidine	252	20.324	20.349	(1.004)	301186	51.8399	51.84
33 Benzo(a)anthracene	228	20.185	20.214	(0.998)	991085	46.7062	46.71
34 Chrysene	228	20.310	20.338	(1.004)	892181	46.0340	46.03
35 Bis(2-ethylhexyl)phthalate	149	20.981	20.992	(1.037)	1056866	49.5033	49.50
49 Perylene-d12	264	24.441	24.462	(1.000)	582226	40.0000	
50 Di-n-octylphthalate	149	22.744	22.759	(0.931)	1682049	51.9706	51.97
51 Benzo(b)fluoranthene	252	23.286	23.328	(0.953)	884827	49.3350	49.33
52 Benzo(k)fluoranthene	252	23.376	23.425	(0.956)	931839	50.0781	50.08
53 Benzo(a)pyrene	252	24.284	24.317	(0.994)	782660	50.6069	50.61
54 Indeno(1,2,3-cd)pyrene	276	26.319	26.346	(1.077)	596463	45.2040	45.20
55 Dibenz(a,h)anthracene	278	26.375	26.401	(1.079)	605494	45.5823	45.58
56 Benzo(g,h,i)perylene	276	26.718	26.744	(1.093)	628573	45.9049	45.90

Empirical Laboratories

FORM 3
SOIL SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA70555

Matrix Spike - Client Sample No.: PAHICV5.0PPM Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (SV3397	% REC #	QC. LIMITS REC.
Acenaphthene	166.7	161.0	96	75-125
Acenaphthylene	166.7	167.0	100	75-125
Anthracene	166.7	167.6	100	75-125
Benzo(a)anthracene	166.7	167.6	100	75-125
Benzo(b)fluoranthene	166.7	170.1	102	75-125
Benzo(k)fluoranthene	166.7	172.0	103	75-125
Benzo(g,h,i)perylene	166.7	156.9	94	75-125
Benzo(a)pyrene	166.7	163.1	98	75-125
Chrysene	166.7	164.6	99	75-125
Dibenz(a,h)anthracene	166.7	172.4	103	75-125
Fluoranthene	166.7	171.1	103	75-125
Fluorene	166.7	166.0	100	75-125
Indeno(1,2,3-cd)pyrene	166.7	167.9	101	75-125
2-Methylnaphthalene	166.7	177.0	106	75-125
1-Methylnaphthalene	166.7	174.8	105	75-125
Naphthalene	166.7	164.2	98	75-125
Phenanthrene	166.7	161.6	97	75-125
Pyrene	166.7	178.1	107	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Lab Smp Id: PAHICV5.0PPM Client Smp ID: PAHICV5.0PPM
Inj Date : 21-APR-2006 22:27 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHICV5.0PPM;;;;;SV3397
Misc Info : ;;;;;;pahsurr.sub;3353
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

(04/25/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (SV3397)	
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.622	(1.000)	353000	1.00000		(QM)
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1305757	1.00000		
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	1610691	4.81954	160.6	(R)
	5 Naphthalene	128	8.226	8.225	(1.004)	6168065	4.92769	164.2	
	6 2-Methylnaphthalene	141	9.801	9.812	(1.197)	3626953	5.31008	177.0	
	7 1-Methylnaphthalene	141	10.052	10.063	(1.227)	3750314	5.24437	174.8	
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	802342	1.00000		
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	4940600	5.10501	170.2	(R)
	11 Acenaphthylene	152	11.913	11.913	(0.969)	6402837	5.01155	167.0	
	12 Acenaphthene	153	12.370	12.369	(1.007)	3908464	4.82979	161.0	
	15 Fluorene	166	13.580	13.591	(1.105)	4749777	4.97942	166.0	
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1215373	1.00000		
	17 Phenanthrene	178	15.863	15.863	(1.004)	6457340	4.84790	161.6	

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

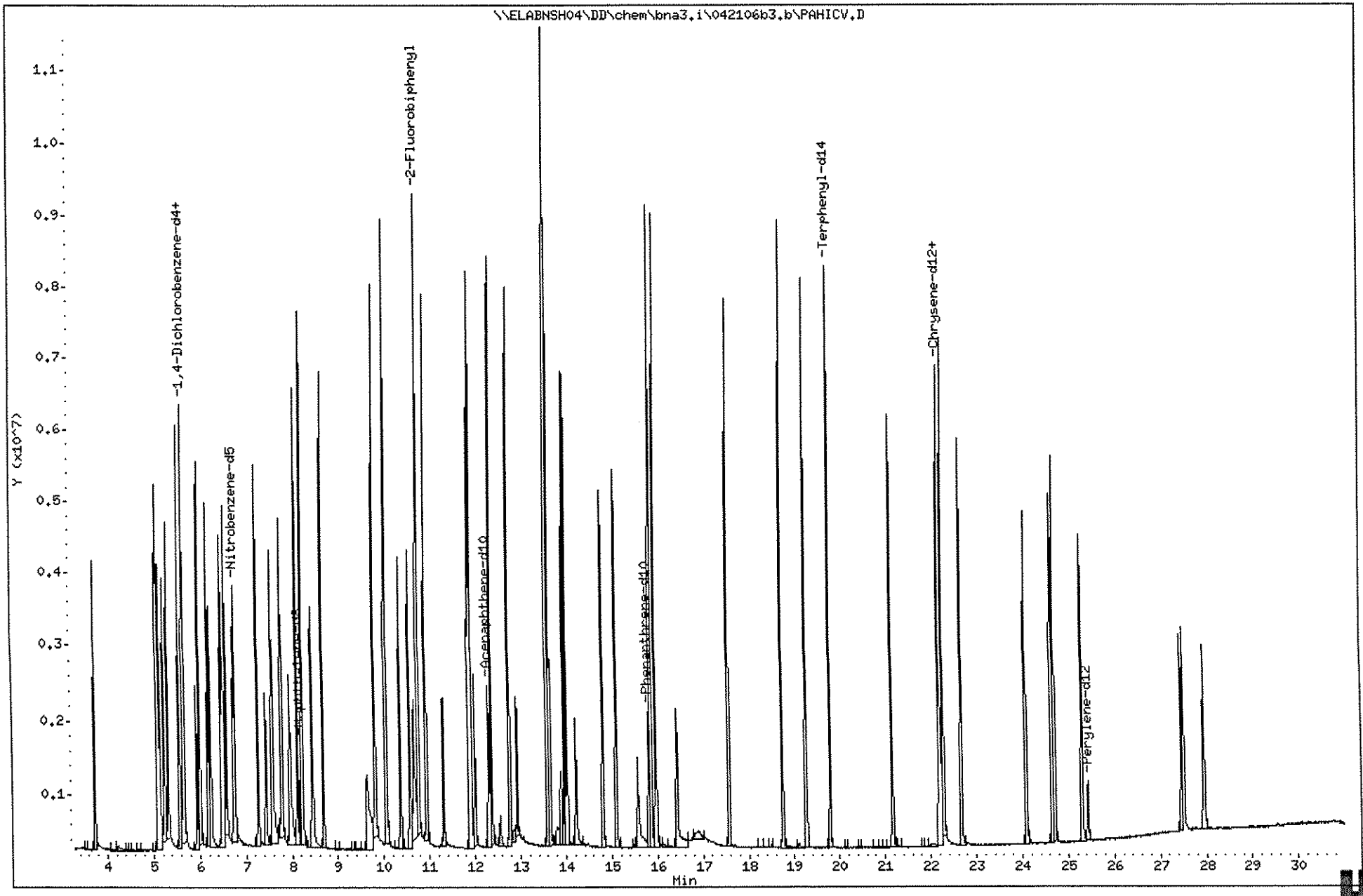
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (SV3397)
	18 Anthracene	178	15.966	15.977	(1.010)	6452415	5.02675	167.6
	19 Fluoranthene	202	18.740	18.751	(1.186)	6929091	5.13329	171.1
*	20 Chrysene-d12	240	22.223	22.234	(1.000)	889243	1.00000	
	21 Pyrene	202	19.266	19.265	(0.867)	7062998	5.34432	178.1
$	22 Terphenyl-d14	244	19.791	19.802	(0.891)	4437355	5.24129	174.7(R)
	23 Benzo(a)anthracene	228	22.188	22.199	(0.998)	5205413	5.02666	167.6
	24 Chrysene	228	22.291	22.302	(1.003)	5049629	4.93854	164.6
*	25 Perylene-d12	264	25.431	25.430	(1.000)	574826	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.665	(0.969)	4050622	5.10368	170.1
	27 Benzo(k)fluoranthene	252	24.700	24.711	(0.971)	4094738	5.15905	172.0
	28 Benzo(a)pyrene	252	25.305	25.316	(0.995)	3200053	4.89335	163.1
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.474	(1.080)	2329096	5.03786	167.9(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.520	(1.082)	2262420	5.17065	172.4
	31 Benzo(g,h,i)perylene	276	27.954	27.965	(1.099)	2271292	4.70606	156.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Date : 21-APR-2006 22:27
Client ID: PAHICV5.0PPM
Instrument: bna3.i
Sample Info: PAHICV5.0PPM;;;;;SV3397
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

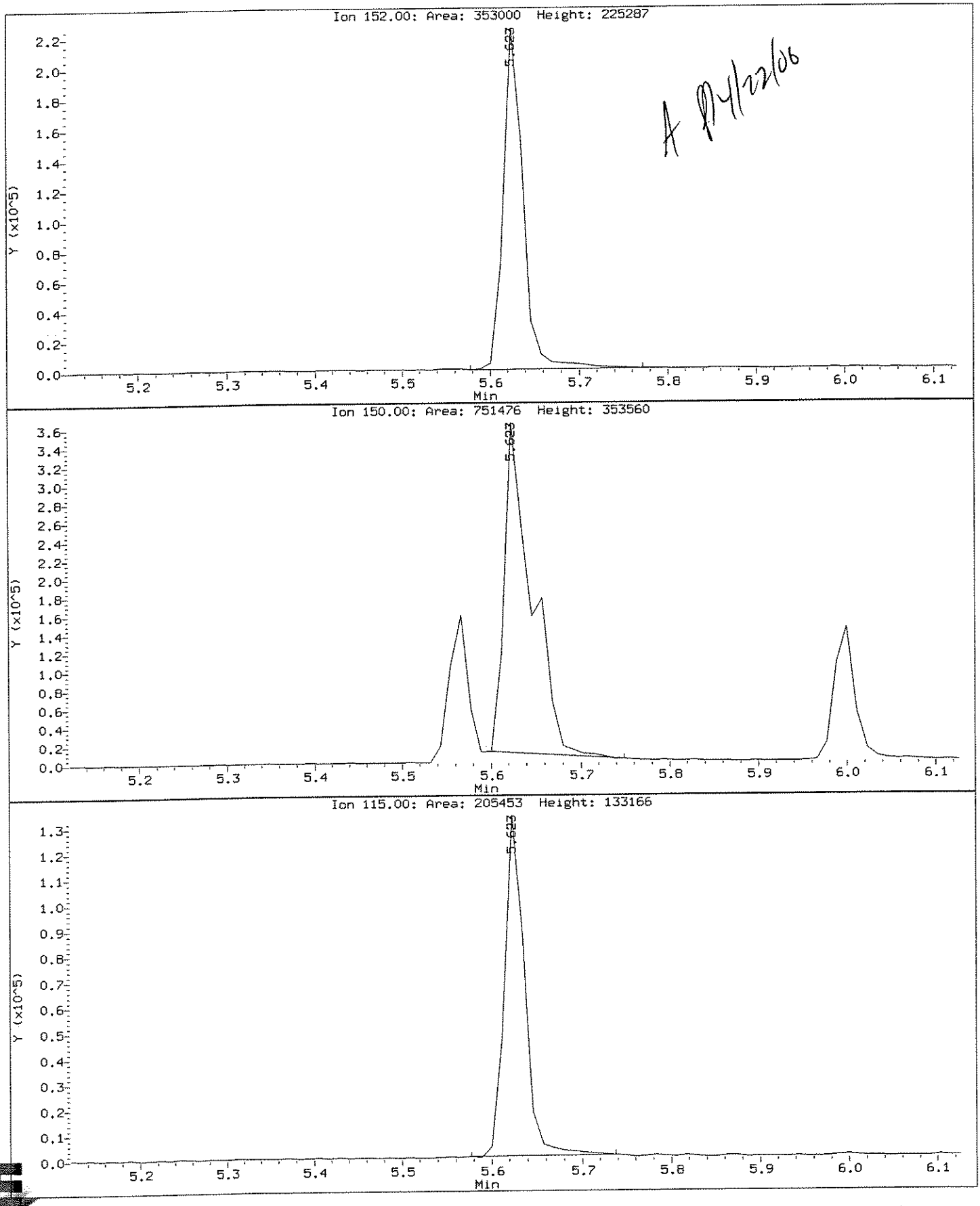
000473



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.0PPM

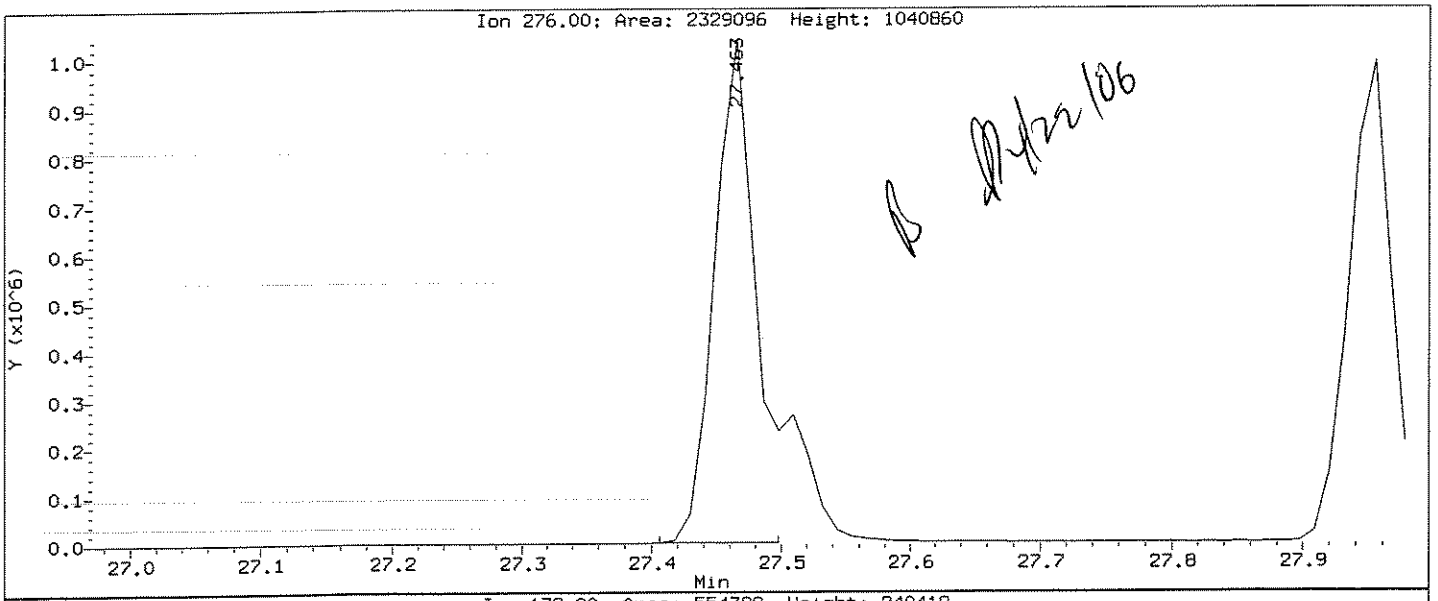
Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

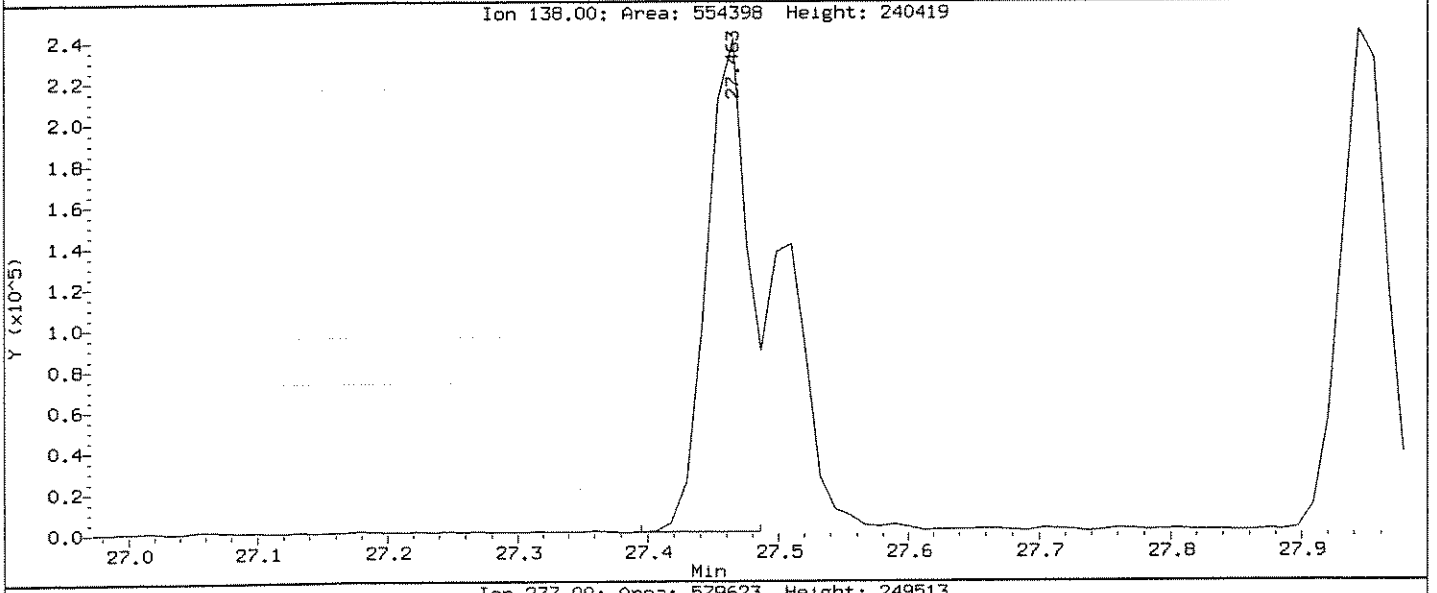


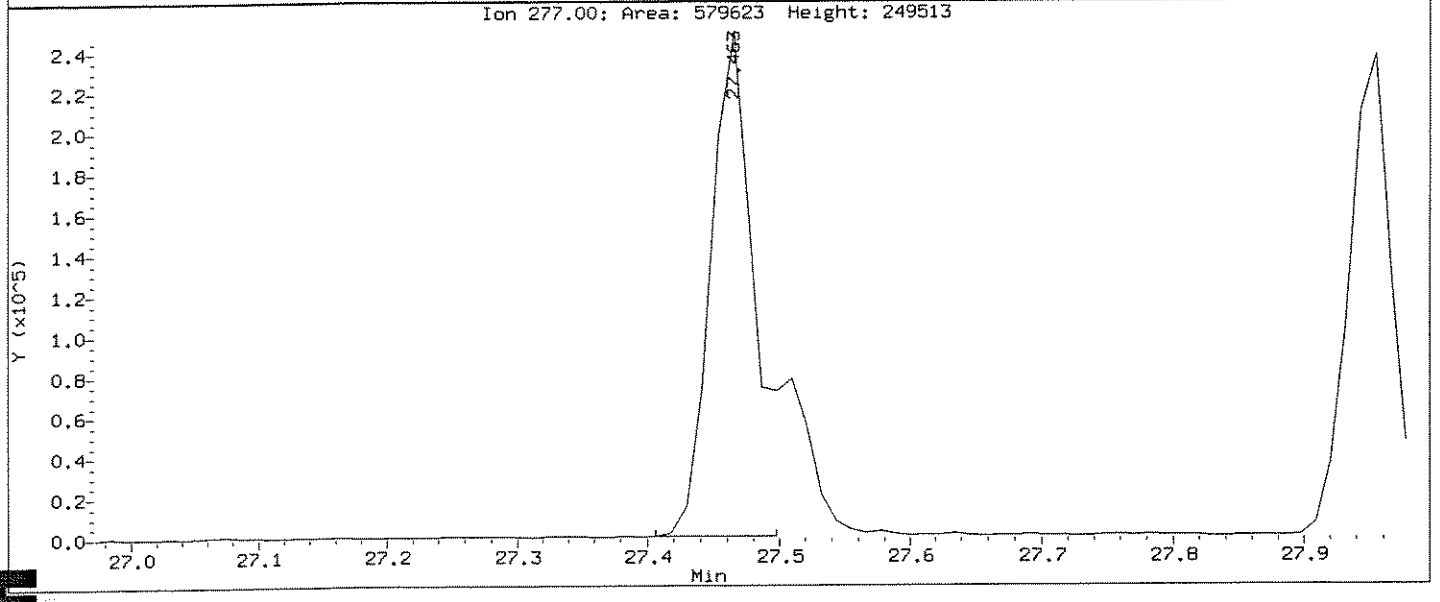
A 04/22/06

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.OPPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.048	50.00	45.40		AVRG	-9.2	20.0
Acenaphthylene	1.682	1.508	50.00	44.82		AVRG	-10.4	
Acetophenone	1.639	1.619	50.00	49.39		AVRG	-1.2	
Aniline	1.729	1.522	50.00	80.85		2ORDR	61.7	
Anthracene	1.126	1.031	50.00	45.78		AVRG	-8.4	
Atrazine	0.229	0.129	50.00	28.18		AVRG	-43.6	
Benzaldehyde	1.123	0.802	50.00	35.68		AVRG	-28.6	
Benzidine	0.802	0.092	50.00	5.730		AVRG	-88.5	
Benzoic acid	0.244	0.269	50.00	50.73		2ORDR	1.4	
Benzo(a)anthracene	1.289	1.277	50.00	49.54		AVRG	-0.9	
Benzo(b)fluoranthene	1.232	1.173	50.00	47.59		AVRG	-4.8	
Benzo(k)fluoranthene	1.278	1.215	50.00	47.52		AVRG	-5.0	
Benzo(g,h,i)perylene	0.941	0.942	50.00	50.06		AVRG	0.1	
Benzo(a)pyrene	1.062	1.051	50.00	49.46		AVRG	-1.1	20.0
Benzyl alcohol	0.901	0.661	50.00	36.70		AVRG	-26.6	
1,1'-Biphenyl	1.420	1.285	50.00	45.24		AVRG	-9.5	
bis(2-Chloroethoxy)methane	0.566	0.468	50.00	41.27		AVRG	-17.5	
bis(2-Chloroethyl)ether	1.659	1.437	50.00	43.30		AVRG	-13.4	
bis(2-Chloroisopropyl)ether	3.221	2.769	50.00	42.98		AVRG	-14.0	
Bis(2-ethylhexyl)phthalate	1.297	1.466	50.00	56.53		AVRG	13.1	
4-Bromophenyl-phenylether	0.272	0.250	50.00	45.87		AVRG	-8.3	
Butylbenzylphthalate	0.993	1.113	50.00	56.03		AVRG	12.1	
4-Chloroaniline	0.407	0.362	50.00	44.47		AVRG	-11.1	
Carbazole	1.099	0.917	50.00	41.71		AVRG	-16.6	
Caprolactam	0.114	0.114	50.00	49.81		AVRG	-0.4	
4-Chloro-3-methylphenol	0.313	0.324	50.00	51.74		AVRG	3.5	20.0
2-Chloronaphthalene	1.130	1.060	50.00	46.89		AVRG	-6.2	
2-Chlorophenol	1.316	1.294	50.00	49.18		AVRG	-1.6	
4-Chlorophenyl-phenylether	0.527	0.469	50.00	44.49		AVRG	-11.0	
Chrysene	1.177	1.139	50.00	48.39		AVRG	-3.2	
Dibenz(a,h)anthracene	0.812	0.857	50.00	46.95		LINR	-6.1	
Dibenzofuran	1.600	1.443	50.00	45.11		AVRG	-9.8	
1,2-Dichlorobenzene	1.323	1.171	50.00	44.28		AVRG	-11.4	
1,4-Dichlorobenzene	1.416	1.312	50.00	46.35		AVRG	-7.3	20.0
1,3-Dichlorobenzene	1.492	1.344	50.00	45.01		AVRG	-10.0	
3,3'-Dichlorobenzidine	0.353	0.363	50.00	51.39		AVRG	2.8	
2,4-Dichlorophenol	0.313	0.277	50.00	44.21		AVRG	-11.6	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.319	50.00	48.60		AVRG	-2.8	
2,4-Dimethylphenol	0.379	0.384	50.00	50.56		AVRG	1.1	
Dimethylphthalate	1.417	1.346	50.00	47.50		AVRG	-5.0	
Di-n-butylphthalate	1.857	1.879	50.00	50.59		AVRG	1.2	
4,6-Dinitro-2-methylphenol	0.149	0.161	50.00	50.19		2ORDR	0.4	
2,4-Dinitrophenol	0.144	0.165	50.00	52.39	0.050	2ORDR	4.8	
2,4-Dinitrotoluene	0.393	0.409	50.00	52.08		AVRG	4.2	
2,6-Dinitrotoluene	0.310	0.305	50.00	49.07		AVRG	-1.8	
1,2-Diphenylhydrazine	1.344	1.411	50.00	52.49		AVRG	5.0	
Di-n-octylphthalate	2.224	2.373	50.00	53.36		AVRG	6.7	20.0
Fluoranthene	1.129	1.049	50.00	46.47		AVRG	-7.1	20.0
Fluorene	1.234	1.101	50.00	44.59		AVRG	-10.8	
Hexachlorobenzene	0.300	0.291	50.00	48.56		AVRG	-2.9	
Hexachlorobutadiene	0.169	0.159	50.00	46.93		AVRG	-6.1	20.0
Hexachlorocyclopentadiene	0.206	0.189	50.00	39.58	0.050	LINR	-20.8	
Hexachloroethane	0.630	0.617	50.00	48.99		AVRG	-2.0	
Indeno(1,2,3-cd)pyrene	0.811	0.911	50.00	50.25		LINR	0.5	
Isophorone	0.942	0.808	50.00	42.91		AVRG	-14.2	
2-Methylnaphthalene	0.572	0.486	50.00	42.54		AVRG	-14.9	
2-Methylphenol	1.228	1.189	50.00	48.40		AVRG	-3.2	
3-Methylphenol	1.160	1.136	50.00	48.94		AVRG	-2.1	
Naphthalene	0.994	0.897	50.00	45.12		AVRG	-9.8	
4-Methylphenol	1.160	1.136	50.00	48.94		AVRG	-2.1	
2-Nitroaniline	0.440	0.491	50.00	55.74		AVRG	11.5	
3-Nitroaniline	0.345	0.308	50.00	44.68		AVRG	-10.6	
4-Nitroaniline	0.296	0.269	50.00	45.46		AVRG	-9.1	
Nitrobenzene	0.442	0.424	50.00	47.98		AVRG	-4.0	
2-Nitrophenol	0.235	0.231	50.00	49.34		AVRG	-1.3	20.0
4-Nitrophenol	0.238	0.312	50.00	65.64	0.050	AVRG	31.3	
N-Nitroso-di-methylamine	0.925	1.015	50.00	54.84		AVRG	9.7	
N-Nitrosodiphenylamine(1)	0.627	0.542	50.00	43.20		AVRG	-13.6	20.0
N-Nitroso-di-n-propylamine	1.147	1.109	50.00	48.34	0.050	AVRG	-3.3	
Pentachlorophenol	0.190	0.164	50.00	43.12		AVRG	-13.8	20.0
Phenanthrene	1.140	1.048	50.00	45.93		AVRG	-8.1	
Phenol	1.894	1.690	50.00	44.61		AVRG	-10.8	20.0
Pyrene	1.597	1.535	50.00	48.04		AVRG	-3.9	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 0835

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	1.492	50.00	41.80		AVRG	-16.4	
1,2,4-Trichlorobenzene	0.334	0.285	50.00	42.60		AVRG	-14.8	
2,4,5-Trichlorophenol	0.388	0.364	50.00	46.81		AVRG	-6.4	
2,4,6-Trichlorophenol	0.375	0.349	50.00	46.47		AVRG	-7.1	20.0
2-Fluorophenol	1.386	1.375	100.0	99.28		AVRG	-0.7	
Phenol-d6	1.656	1.470	100.0	88.75		AVRG	-11.2	
Nitrobenzene-d5	0.437	0.478	50.00	54.73		AVRG	9.5	
2-Fluorobiphenyl	1.273	1.151	50.00	45.20		AVRG	-9.6	
2,4,6-Tribromophenol	0.147	0.155	100.0	105.2		AVRG	5.2	
Terphenyl-d14	1.010	1.018	50.00	50.39		AVRG	0.8	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Lab Smp Id: CCV050PPM Client Smp ID: CCV050PPM
Inj Date : 10-JUL-2006 08:35
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3607
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXBN1.m
Meth Date : 11-Jul-2006 10:59 sburchfiel Quant Type: ISTD
Cal Date : 14-JUN-2006 00:32 Cal File: OPHOS100.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

7/11/06

7/11/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.276	4.276	(1.000)	490511	40.0000	
$	2 2-Fluorophenol	112	3.368	3.368	(0.788)	1686725	100.000	99.28
$	3 Phenol-d6	99	4.106	4.106	(0.960)	1802488	100.000	88.75
	4 Pyridine	79	1.992	1.992	(0.466)	914629	50.0000	41.80(M)
	5 N-Nitroso-di-methylamine	42	2.033	2.033	(0.475)	622249	50.0000	54.84
	6 Aniline	93	4.079	4.079	(0.954)	932954	50.0000	80.85(Q)
	8 Phenol	94	4.113	4.113	(0.962)	1036154	50.0000	44.61
	9 bis(2-Chloroethyl)ether	93	4.127	4.127	(0.965)	881031	50.0000	43.30
	10 2-Chlorophenol	128	4.161	4.161	(0.973)	793624	50.0000	49.18
	11 1,3-Dichlorobenzene	146	4.249	4.249	(0.994)	823942	50.0000	45.01
	12 1,4-Dichlorobenzene	146	4.290	4.290	(1.003)	804613	50.0000	46.35
	13 Benzyl alcohol	108	4.421	4.421	(1.034)	405342	50.0000	36.70
	14 1,2-Dichlorobenzene	146	4.427	4.427	(1.035)	718265	50.0000	44.28
	15 2-Methylphenol	108	4.538	4.538	(1.061)	728830	50.0000	48.40

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	4.524	4.524	(1.058)	1697884	50.0000	42.98
	17 3-Methylphenol	108	4.641	4.641	(1.085)	696299	50.0000	48.94
	18 4-Methylphenol	108	4.641	4.641	(1.085)	696299	50.0000	48.94
	19 N-Nitroso-di-n-propylamine	70	4.634	4.634	(1.084)	680151	50.0000	48.34
	20 Hexachloroethane	117	4.648	4.648	(1.087)	378606	50.0000	48.99
	30 Benzaldehyde	106	3.963	3.963	(0.927)	491469	50.0000	35.68
*	31 Naphthalene-d8	136	5.287	5.287	(1.000)	1549037	40.0000	
$	32 Nitrobenzene-d5	82	4.709	4.709	(0.891)	925552	50.0000	54.73
	33 Nitrobenzene	77	4.723	4.723	(0.893)	821490	50.0000	47.98
	35 Isophorone	82	4.908	4.908	(0.928)	1564876	50.0000	42.91
	36 2-Nitrophenol	139	4.977	4.977	(0.941)	448204	50.0000	49.34
	38 2,4-Dimethylphenol	107	5.039	5.039	(0.953)	742723	50.0000	50.56(M)
	39 Benzoic acid	105	5.191	5.191	(0.982)	520434	50.0000	50.73(M)
	40 bis(2-Chloroethoxy)methane	93	5.108	5.108	(0.966)	905437	50.0000	41.27
	43 2,4-Dichlorophenol	162	5.197	5.197	(0.983)	536551	50.0000	44.21
	46 1,2,4-Trichlorobenzene	180	5.252	5.252	(0.993)	551567	50.0000	42.60
	47 Naphthalene	128	5.307	5.307	(1.004)	1737646	50.0000	45.12
	48 4-Chloroaniline	127	5.397	5.397	(1.021)	700553	50.0000	44.47
	49 Hexachlorobutadiene	225	5.493	5.493	(1.039)	307389	50.0000	46.93
	50 4-Chloro-3-methylphenol	107	5.973	5.973	(1.130)	626835	50.0000	51.74
	51 2-Methylnaphthalene	141	6.062	6.062	(1.147)	941518	50.0000	42.54
	53 Acetophenone	105	4.600	4.600	(1.076)	992861	50.0000	49.39
	64 Caprolactam	113	5.769	5.769	(1.091)	219903	50.0000	49.81
*	65 Acenaphthene-d10	164	7.719	7.719	(1.000)	762535	40.0000	
	66 Hexachlorocyclopentadiene	237	6.371	6.371	(0.825)	180334	50.0000	39.58
	67 2,4,6-Trichlorophenol	196	6.515	6.515	(0.844)	332372	50.0000	46.47
	68 2,4,5-Trichlorophenol	196	6.583	6.583	(0.853)	346865	50.0000	46.81
	69 2-Chloronaphthalene	162	6.734	6.734	(0.872)	1010259	50.0000	46.89
$	70 2-Fluorobiphenyl	172	6.617	6.617	(0.857)	1096916	50.0000	45.20
	71 2-Nitroaniline	65	6.988	6.988	(0.905)	467687	50.0000	55.74
	72 Dimethylphthalate	163	7.405	7.405	(0.959)	1282705	50.0000	47.50
	73 Acenaphthylene	152	7.426	7.426	(0.962)	1436979	50.0000	44.82
	74 2,6-Dinitrotoluene	165	7.501	7.501	(0.972)	290454	50.0000	49.07
	75 3-Nitroaniline	138	7.746	7.746	(1.004)	293709	50.0000	44.68
	76 Acenaphthene	153	7.781	7.781	(1.008)	999067	50.0000	45.40
	77 2,4-Dinitrophenol	184	7.945	7.945	(1.029)	156907	50.0000	52.39
	79 4-Nitrophenol	65	8.253	8.253	(1.069)	297696	50.0000	65.64
	80 Dibenzofuran	168	8.096	8.096	(1.049)	1375789	50.0000	45.11
	81 2,4-Dinitrotoluene	165	8.260	8.260	(1.070)	390275	50.0000	52.08
	82 Diethylphthalate	149	8.889	8.889	(1.152)	1257454	50.0000	48.60
	83 4-Chlorophenyl-phenylether	204	8.903	8.903	(1.153)	447277	50.0000	44.49
	84 Fluorene	166	8.814	8.814	(1.142)	1049504	50.0000	44.59
	85 4-Nitroaniline	138	9.053	9.053	(1.173)	256381	50.0000	45.46
	96 1,1'-Biphenyl	154	6.748	6.748	(0.874)	1224441	50.0000	45.24
*	98 Phenanthrene-d10	188	11.020	11.020	(1.000)	979351	40.0000	
	99 1,2-Diphenylhydrazine	77	9.252	9.252	(0.840)	1727818	50.0000	52.49
	100 Carbazole	167	11.738	11.738	(1.065)	1122635	50.0000	41.71

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Report Date: 11-Jul-2006 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
101	4,6-Dinitro-2-methylphenol	198	9.142	9.142	(0.830)	197575	50.0000	50.19
102	N-Nitrosodiphenylamine	169	9.218	9.218	(0.836)	663662	50.0000	43.20
$ 103	2,4,6-Tribromophenol	330	9.423	9.423	(0.855)	380262	100.000	105.2(A)
104	4-Bromophenyl-phenylether	248	10.024	10.024	(0.910)	305675	50.0000	45.87
105	Hexachlorobenzene	284	10.292	10.292	(0.934)	356268	50.0000	48.56
106	Pentachlorophenol	266	10.820	10.820	(0.982)	200611	50.0000	43.12
107	Phenanthrene	178	11.082	11.082	(1.006)	1282605	50.0000	45.93
108	Anthracene	178	11.192	11.192	(1.016)	1262149	50.0000	45.78
110	Di-n-butylphthalate	149	13.175	13.175	(1.196)	2300320	50.0000	50.59
111	Fluoranthene	202	14.296	14.296	(1.297)	1284635	50.0000	46.47
124	Atrazine	200	10.737	10.737	(0.974)	158307	50.0000	28.18
* 127	Chrysene-d12	240	18.441	18.441	(1.000)	678371	40.0000	
128	Benzidine	184	14.912	14.912	(0.809)	77968	50.0000	5.730(a)
129	Pyrene	202	14.878	14.878	(0.807)	1301577	50.0000	48.04
$ 130	Terphenyl-d14	244	15.647	15.647	(0.848)	863148	50.0000	50.39
131	Butylbenzylphthalate	149	17.399	17.399	(0.943)	944034	50.0000	56.03
132	3,3'-Dichlorobenzidine	252	18.592	18.592	(1.008)	307563	50.0000	51.39
133	Benzo(a)anthracene	228	18.400	18.400	(0.998)	1082895	50.0000	49.54
134	Chrysene	228	18.510	18.510	(1.004)	966001	50.0000	48.39
135	Bis(2-ethylhexyl)phthalate	149	19.341	19.341	(1.049)	1243202	50.0000	56.53
* 149	Perylene-d12	264	22.273	22.273	(1.000)	671653	40.0000	
150	Di-n-octylphthalate	149	21.065	21.065	(0.946)	1992449	50.0000	53.36
151	Benzo(b)fluoranthene	252	21.352	21.352	(0.959)	984717	50.0000	47.59
152	Benzo(k)fluoranthene	252	21.421	21.421	(0.962)	1019973	50.0000	47.52
153	Benzo(a)pyrene	252	22.121	22.121	(0.993)	882471	50.0000	49.46
154	Indeno(1,2,3-cd)pyrene	276	24.990	24.990	(1.122)	764826	50.0000	50.25
155	Dibenz(a,h)anthracene	278	25.065	25.065	(1.125)	719463	50.0000	46.95
156	Benzo(g,h,i)perylene	276	25.361	25.361	(1.139)	790681	50.0000	50.06

QC Flag Legend

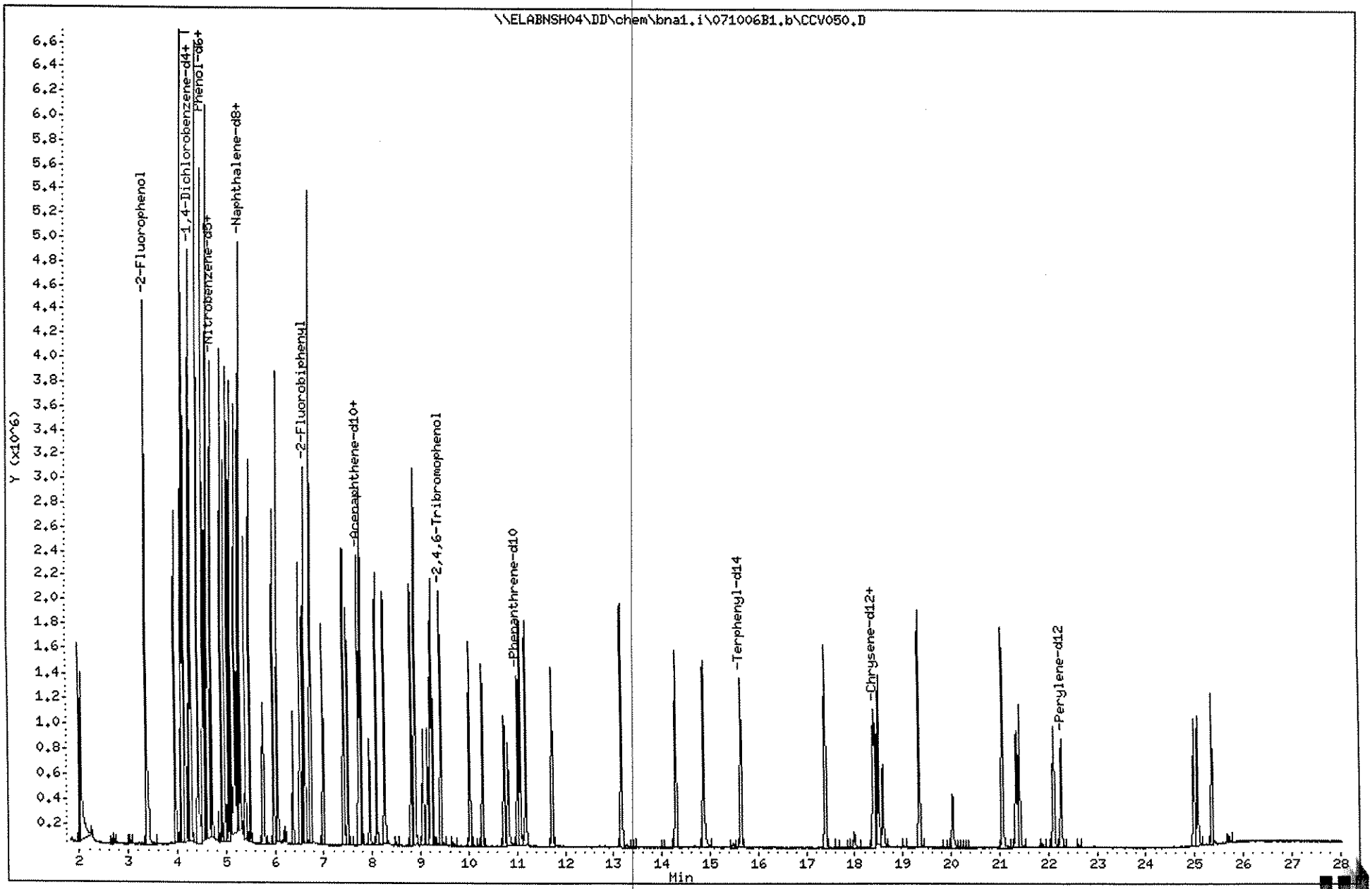
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Date : 10-JUL-2006 08:35
Client ID: CCV050PPM
Sample Info: CCV050PPM;;;;;SV3607
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: SDB
Column diameter: 0.25

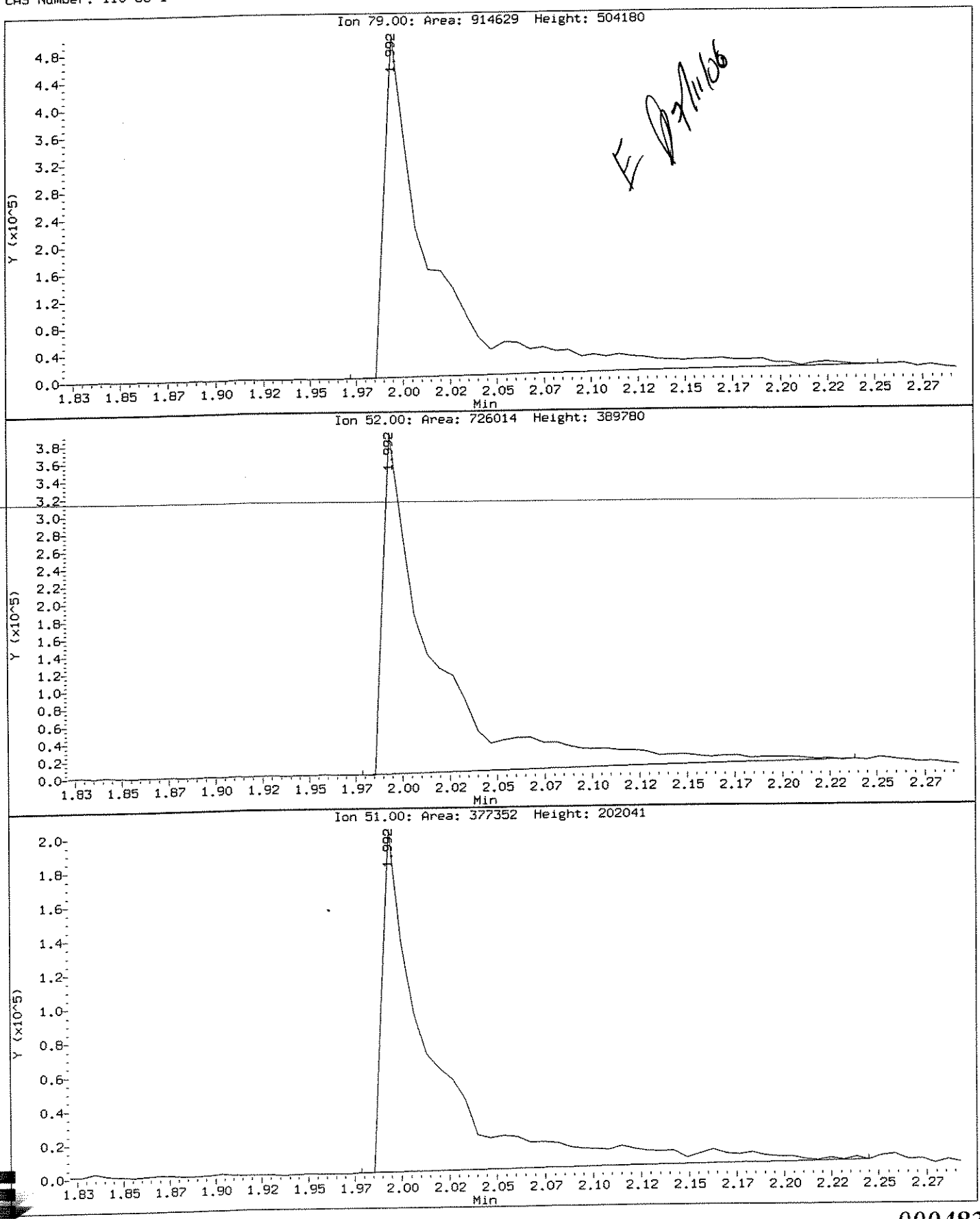
000482



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Pyridine
CAS Number: 110-86-1



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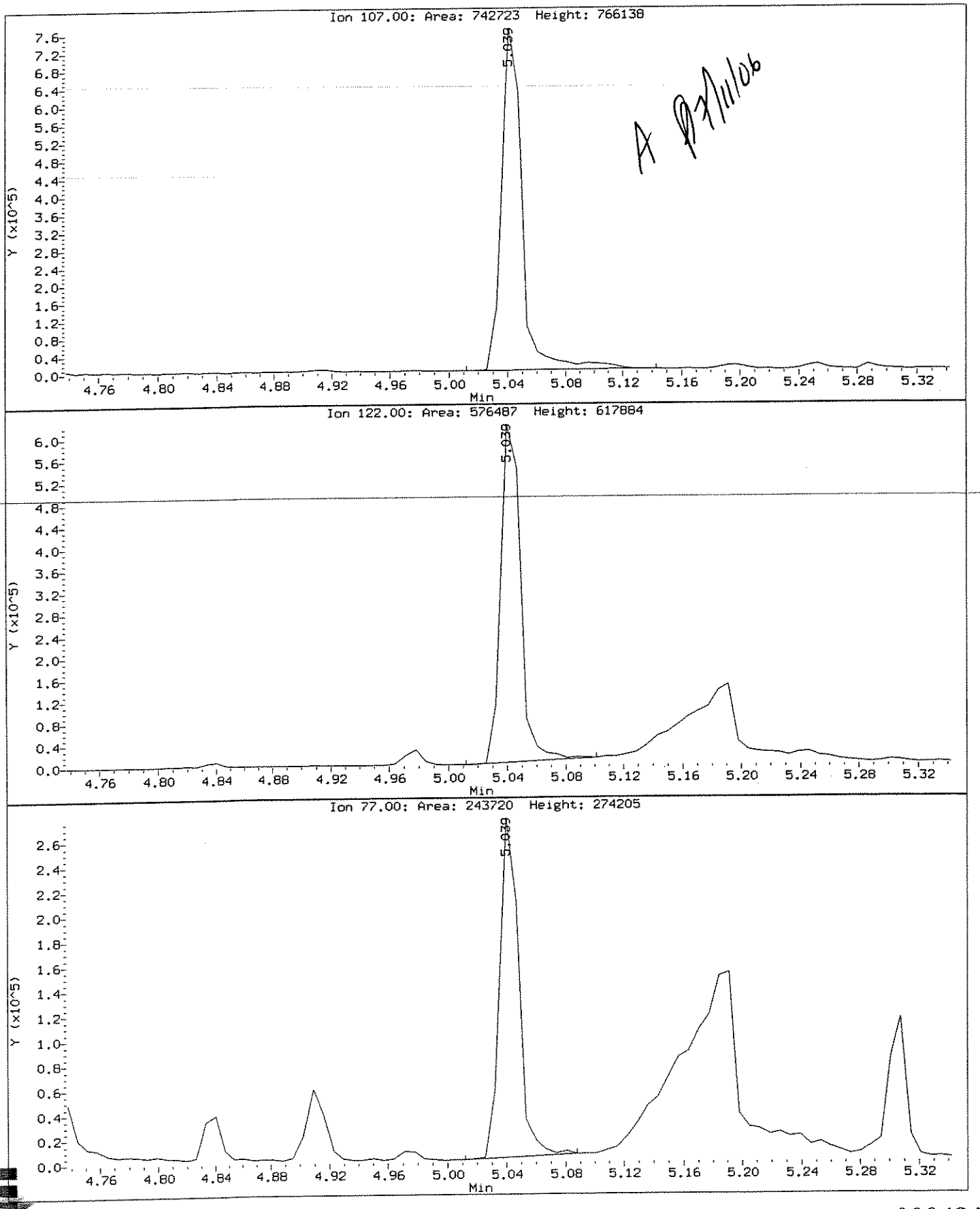
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9

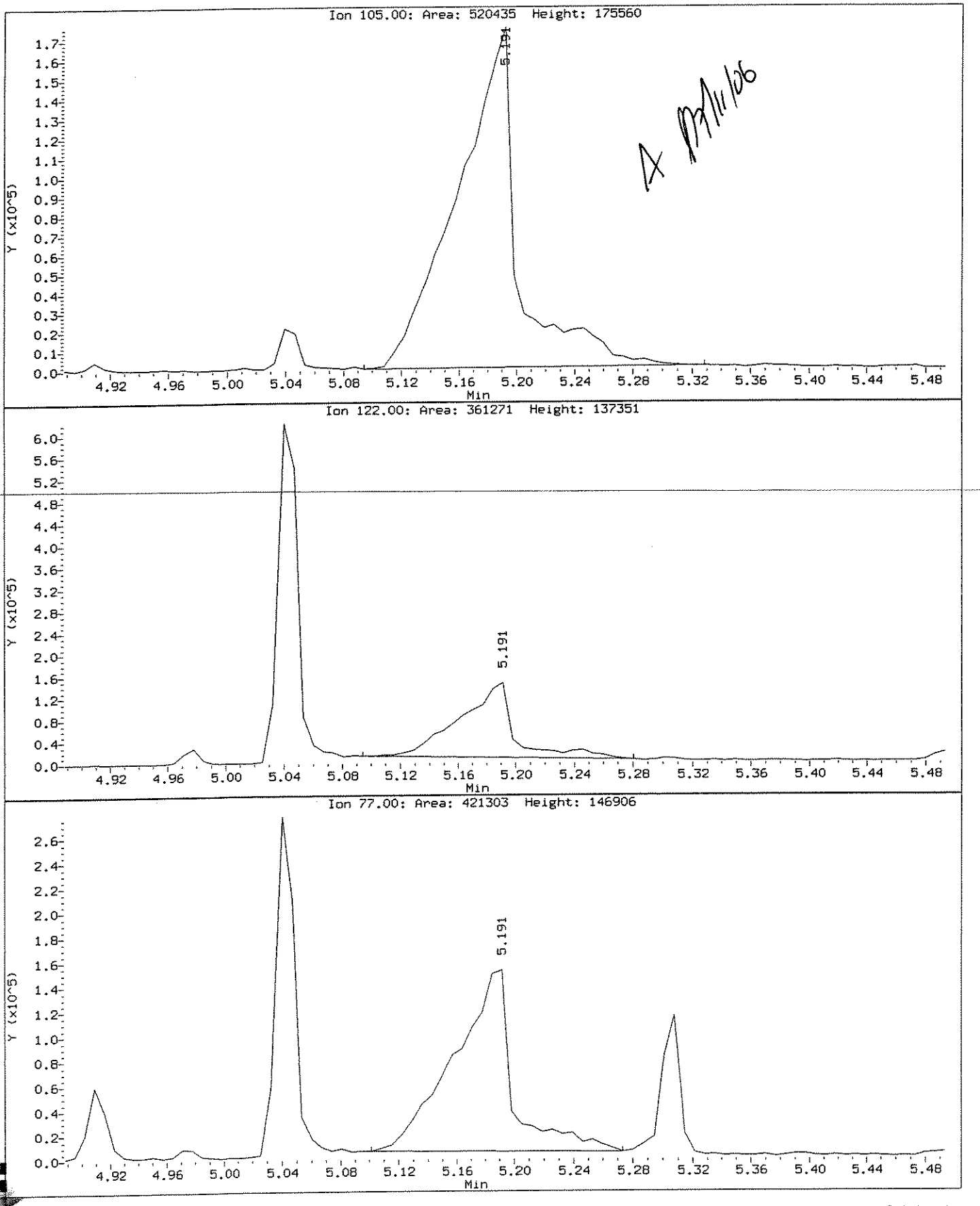


A 9/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\CCV050.D
Injection Date: 10-JUL-2006 08:35
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0



A 7/11/06

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.041	50.00	45.10		AVRG	-9.8	20.0
Acenaphthylene	1.682	1.513	50.00	44.99		AVRG	-10.0	
Acetophenone	1.639	1.741	50.00	53.10		AVRG	6.2	
Aniline	1.729	1.417	50.00	72.49		2ORDR	45.0	
Anthracene	1.126	0.995	50.00	44.18		AVRG	-11.6	
Atrazine	0.229	0.093	50.00	20.18		AVRG	-59.6	
Benzaldehyde	1.123	0.821	50.00	36.56		AVRG	-26.9	
Benzidine	0.802	0.114	50.00	7.104		AVRG	-85.8	
Benzoic acid	0.244	0.311	50.00	57.42		2ORDR	14.8	
Benzo(a)anthracene	1.289	1.213	50.00	47.06		AVRG	-5.9	
Benzo(b)fluoranthene	1.232	1.162	50.00	47.16		AVRG	-5.7	
Benzo(k)fluoranthene	1.278	1.184	50.00	46.29		AVRG	-7.4	
Benzo(g,h,i)perylene	0.941	1.069	50.00	56.80		AVRG	13.6	
Benzo(a)pyrene	1.062	1.070	50.00	50.35		AVRG	0.7	20.0
Benzyl alcohol	0.901	0.790	50.00	43.84		AVRG	-12.3	
1,1'-Biphenyl	1.420	1.263	50.00	44.46		AVRG	-11.1	
bis(2-Chloroethoxy)methane	0.566	0.480	50.00	42.35		AVRG	-15.3	
bis(2-Chloroethyl)ether	1.659	1.548	50.00	46.66		AVRG	-6.7	
bis(2-Chloroisopropyl)ether	3.221	2.680	50.00	41.59		AVRG	-16.8	
Bis(2-ethylhexyl)phthalate	1.297	1.305	50.00	50.34		AVRG	0.7	
4-Bromophenyl-phenylether	0.272	0.242	50.00	44.40		AVRG	-11.2	
Butylbenzylphthalate	0.993	1.022	50.00	51.41		AVRG	2.8	
4-Chloroaniline	0.407	0.388	50.00	47.73		AVRG	-4.5	
Carbazole	1.099	1.013	50.00	46.08		AVRG	-7.8	
Caprolactam	0.114	0.118	50.00	51.94		AVRG	3.9	
4-Chloro-3-methylphenol	0.313	0.324	50.00	51.77		AVRG	3.5	20.0
2-Chloronaphthalene	1.130	1.042	50.00	46.08		AVRG	-7.8	
2-Chlorophenol	1.316	1.295	50.00	49.21		AVRG	-1.6	
4-Chlorophenyl-phenylether	0.527	0.461	50.00	43.74		AVRG	-12.5	
Chrysene	1.177	1.084	50.00	46.04		AVRG	-7.9	
Dibenz(a,h)anthracene	0.812	0.957	50.00	52.44		LINR	4.9	
Dibenzofuran	1.600	1.520	50.00	47.52		AVRG	-5.0	
1,2-Dichlorobenzene	1.323	1.194	50.00	45.15		AVRG	-9.7	
1,4-Dichlorobenzene	1.416	1.319	50.00	46.58		AVRG	-6.8	20.0
1,3-Dichlorobenzene	1.492	1.365	50.00	45.71		AVRG	-8.6	
3,3'-Dichlorobenzidine	0.353	0.404	50.00	57.31		AVRG	14.6	
2,4-Dichlorophenol	0.313	0.289	50.00	46.16		AVRG	-7.7	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.373	50.00	50.58		AVRG	1.2	
2,4-Dimethylphenol	0.379	0.387	50.00	51.04		AVRG	2.1	
Dimethylphthalate	1.417	1.322	50.00	46.65		AVRG	-6.7	
Di-n-butylphthalate	1.857	1.782	50.00	47.98		AVRG	-4.0	
4,6-Dinitro-2-methylphenol	0.149	0.173	50.00	53.20		2ORDR	6.4	
2,4-Dinitrophenol	0.144	0.203	50.00	62.05	0.050	2ORDR	24.1	
2,4-Dinitrotoluene	0.393	0.422	50.00	53.73		AVRG	7.5	
2,6-Dinitrotoluene	0.310	0.310	50.00	49.99		AVRG	-0.0	
1,2-Diphenylhydrazine	1.344	1.355	50.00	50.39		AVRG	0.8	
Di-n-octylphthalate	2.224	2.180	50.00	49.01		AVRG	-2.0	20.0
Fluoranthene	1.129	1.044	50.00	46.21		AVRG	-7.6	20.0
Fluorene	1.234	1.178	50.00	47.72		AVRG	-4.6	
Hexachlorobenzene	0.300	0.283	50.00	47.18		AVRG	-5.6	
Hexachlorobutadiene	0.169	0.159	50.00	47.08		AVRG	-5.8	20.0
Hexachlorocyclopentadiene	0.206	0.222	50.00	46.54	0.050	LINR	-6.9	
Hexachloroethane	0.630	0.614	50.00	48.72		AVRG	-2.6	
Indeno(1,2,3-cd)pyrene	0.811	1.014	50.00	55.96		LINR	11.9	
Isophorone	0.942	0.804	50.00	42.67		AVRG	-14.7	
2-Methylnaphthalene	0.572	0.502	50.00	43.97		AVRG	-12.0	
2-Methylphenol	1.228	1.141	50.00	46.46		AVRG	-7.1	
3-Methylphenol	1.160	1.157	50.00	49.86		AVRG	-0.3	
Naphthalene	0.994	0.886	50.00	44.52		AVRG	-10.9	
4-Methylphenol	1.160	1.157	50.00	49.86		AVRG	-0.3	
2-Nitroaniline	0.440	0.539	50.00	61.19		AVRG	22.4	
3-Nitroaniline	0.345	0.352	50.00	51.01		AVRG	2.0	
4-Nitroaniline	0.296	0.345	50.00	58.35		AVRG	16.7	
Nitrobenzene	0.442	0.429	50.00	48.49		AVRG	-3.0	
2-Nitrophenol	0.235	0.229	50.00	48.84		AVRG	-2.3	20.0
4-Nitrophenol	0.238	0.370	50.00	77.83	0.050	AVRG	55.6	
N-Nitroso-di-methylamine	0.925	0.961	50.00	51.92		AVRG	3.8	
N-Nitrosodiphenylamine(1)	0.627	0.512	50.00	40.82		AVRG	-18.4	20.0
N-Nitroso-di-n-propylamine	1.147	1.092	50.00	47.58	0.050	AVRG	-4.8	
Pentachlorophenol	0.190	0.175	50.00	46.00		AVRG	-8.0	20.0
Phenanthrene	1.140	1.061	50.00	46.53		AVRG	-6.9	
Phenol	1.894	1.842	50.00	48.64		AVRG	-2.7	20.0
Pyrene	1.597	1.410	50.00	44.14		AVRG	-11.7	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 0943

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	1.456	50.00	40.81		AVRG	-18.4	
1,2,4-Trichlorobenzene	0.334	0.285	50.00	42.66		AVRG	-14.7	
2,4,5-Trichlorophenol	0.388	0.374	50.00	48.14		AVRG	-3.7	
2,4,6-Trichlorophenol	0.375	0.356	50.00	47.43		AVRG	-5.1	20.0
2-Fluorophenol	1.386	1.328	100.0	95.85		AVRG	-4.1	
Phenol-d6	1.656	1.531	100.0	92.46		AVRG	-7.5	
Nitrobenzene-d5	0.437	0.485	50.00	55.53		AVRG	11.1	
2-Fluorobiphenyl	1.273	1.145	50.00	44.99		AVRG	-10.0	
2,4,6-Tribromophenol	0.147	0.152	100.0	102.8		AVRG	2.8	
Terphenyl-d14	1.010	0.960	50.00	47.55		AVRG	-4.9	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Lab Smp Id: CCV050PPM Client Smp ID: CCV050PPM
Inj Date : 11-JUL-2006 09:43
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3607
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.235	4.235	(1.000)	470349	40.0000	
$	2 2-Fluorophenol	112	3.316	3.316	(0.783)	1561636	100.000	95.85
$	3 Phenol-d6	99	4.071	4.071	(0.961)	1800685	100.000	92.46
	4 Pyridine	79	1.924	1.924	(0.454)	856205	50.0000	40.81
	5 N-Nitroso-di-methylamine	42	1.965	1.965	(0.464)	564954	50.0000	51.92
	6 Aniline	93	4.036	4.036	(0.953)	832905	50.0000	72.49(Q)
	8 Phenol	94	4.077	4.077	(0.963)	1083320	50.0000	48.64
	9 bis(2-Chloroethyl)ether	93	4.091	4.091	(0.966)	910454	50.0000	46.66
	10 2-Chlorophenol	128	4.118	4.118	(0.972)	761432	50.0000	49.21
	11 1,3-Dichlorobenzene	146	4.208	4.208	(0.993)	802318	50.0000	45.71
	12 1,4-Dichlorobenzene	146	4.249	4.249	(1.003)	775319	50.0000	46.58
	13 Benzyl alcohol	108	4.380	4.380	(1.034)	464256	50.0000	43.84
	14 1,2-Dichlorobenzene	146	4.387	4.387	(1.036)	702291	50.0000	45.15
	15 2-Methylphenol	108	4.497	4.497	(1.062)	670855	50.0000	46.46

7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	4.483	4.483	(1.058)	1575430	50.0000	41.59
	17 3-Methylphenol	108	4.599	4.599	(1.086)	680217	50.0000	49.86
	18 4-Methylphenol	108	4.599	4.599	(1.086)	680217	50.0000	49.86
	19 N-Nitroso-di-n-propylamine	70	4.593	4.593	(1.084)	641892	50.0000	47.58
	20 Hexachloroethane	117	4.606	4.606	(1.088)	361059	50.0000	48.72
	30 Benzaldehyde	106	3.919	3.919	(0.925)	482874	50.0000	36.56
*	31 Naphthalene-d8	136	5.240	5.240	(1.000)	1533236	40.0000	
$	32 Nitrobenzene-d5	82	4.668	4.668	(0.891)	929480	50.0000	55.53
	33 Nitrobenzene	77	4.682	4.682	(0.894)	821737	50.0000	48.49
	35 Isophorone	82	4.868	4.868	(0.929)	1540253	50.0000	42.67
	36 2-Nitrophenol	139	4.930	4.930	(0.941)	439073	50.0000	48.84
	38 2,4-Dimethylphenol	107	4.999	4.999	(0.954)	742139	50.0000	51.04(M)
	39 Benzoic acid	105	5.143	5.143	(0.982)	595282	50.0000	57.42(M)
	40 bis(2-Chloroethoxy)methane	93	5.061	5.061	(0.966)	919610	50.0000	42.35
	43 2,4-Dichlorophenol	162	5.143	5.143	(0.982)	554504	50.0000	46.16
	46 1,2,4-Trichlorobenzene	180	5.205	5.205	(0.993)	546690	50.0000	42.66
	47 Naphthalene	128	5.254	5.254	(1.003)	1697341	50.0000	44.52
	48 4-Chloroaniline	127	5.350	5.350	(1.021)	744310	50.0000	47.73
	49 Hexachlorobutadiene	225	5.439	5.439	(1.038)	305212	50.0000	47.08
	50 4-Chloro-3-methylphenol	107	5.914	5.914	(1.129)	620865	50.0000	51.77
	51 2-Methylnaphthalene	141	6.004	6.004	(1.146)	963243	50.0000	43.97
	53 Acetophenone	105	4.565	4.565	(1.078)	1023556	50.0000	53.10
	64 Caprolactam	113	5.722	5.722	(1.092)	226956	50.0000	51.94
*	65 Acenaphthene-d10	164	7.641	7.641	(1.000)	784651	40.0000	
	66 Hexachlorocyclopentadiene	237	6.307	6.307	(0.825)	218191	50.0000	46.54
	67 2,4,6-Trichlorophenol	196	6.444	6.444	(0.843)	349101	50.0000	47.43
	68 2,4,5-Trichlorophenol	196	6.513	6.513	(0.852)	367068	50.0000	48.14
	69 2-Chloronaphthalene	162	6.665	6.665	(0.872)	1021568	50.0000	46.08
$	70 2-Fluorobiphenyl	172	6.555	6.555	(0.858)	1123438	50.0000	44.99
	71 2-Nitroaniline	65	6.920	6.920	(0.906)	528290	50.0000	61.19
	72 Dimethylphthalate	163	7.332	7.332	(0.960)	1296334	50.0000	46.65
	73 Acenaphthylene	152	7.352	7.352	(0.962)	1484350	50.0000	44.99
	74 2,6-Dinitrotoluene	165	7.428	7.428	(0.972)	304466	50.0000	49.99
	75 3-Nitroaniline	138	7.676	7.676	(1.005)	345063	50.0000	51.01
	76 Acenaphthene	153	7.703	7.703	(1.008)	1021410	50.0000	45.10
	77 2,4-Dinitrophenol	184	7.875	7.875	(1.031)	198793	50.0000	62.05
	79 4-Nitrophenol	65	8.164	8.164	(1.068)	363202	50.0000	77.83
	80 Dibenzofuran	168	8.013	8.013	(1.049)	1491057	50.0000	47.52
	81 2,4-Dinitrotoluene	165	8.185	8.185	(1.071)	414309	50.0000	53.73
	82 Diethylphthalate	149	8.810	8.810	(1.153)	1346637	50.0000	50.58
	83 4-Chlorophenyl-phenylether	204	8.817	8.817	(1.154)	452488	50.0000	43.74
	84 Fluorene	166	8.727	8.727	(1.142)	1155816	50.0000	47.72
	85 4-Nitroaniline	138	8.975	8.975	(1.175)	338651	50.0000	58.35
	96 1,1'-Biphenyl	154	6.679	6.679	(0.874)	1238452	50.0000	44.46
*	97 Phenanthrene-d10	188	10.923	10.923	(1.000)	1083046	40.0000	
	98 1,2-Diphenylhydrazine	77	9.168	9.168	(0.839)	1834252	50.0000	50.39
	99 Carbazole	167	11.645	11.645	(1.066)	1371385	50.0000	46.08

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Report Date: 12-Jul-2006 11:55

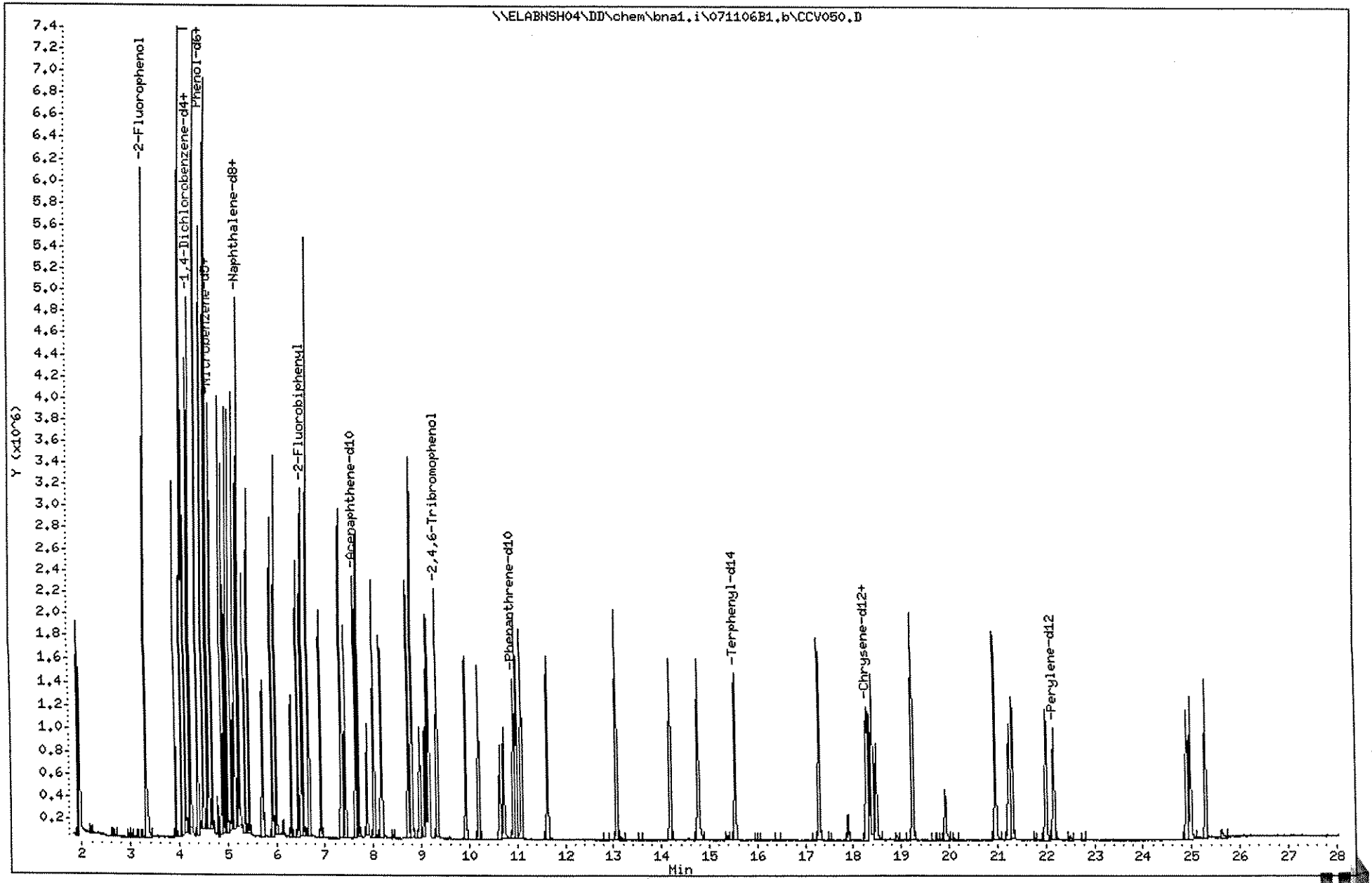
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
100 4,6-Dinitro-2-methylphenol	198	9.072	9.072	(0.830)	233739	50.0000	53.20
101 N-Nitrosodiphenylamine	169	9.133	9.133	(0.836)	693479	50.0000	40.82
$ 102 2,4,6-Tribromophenol	330	9.333	9.333	(0.854)	410865	100.000	102.8(A)
103 4-Bromophenyl-phenylether	248	9.932	9.932	(0.909)	327184	50.0000	44.40
104 Hexachlorobenzene	284	10.200	10.200	(0.934)	382835	50.0000	47.18
105 Pentachlorophenol	266	10.723	10.723	(0.982)	236677	50.0000	46.00
106 Phenanthrene	178	10.986	10.986	(1.006)	1436878	50.0000	46.53
107 Anthracene	178	11.096	11.096	(1.016)	1346804	50.0000	44.18
109 Di-n-butylphthalate	149	13.072	13.072	(1.197)	2412495	50.0000	47.98
110 Fluoranthene	202	14.195	14.195	(1.299)	1412872	50.0000	46.21
123 Atrazine	200	10.647	10.647	(0.975)	125377	50.0000	20.18
* 124 Chrysene-d12	240	18.333	18.333	(1.000)	817298	40.0000	
125 Benzidine	184	14.805	14.805	(0.808)	116460	50.0000	7.104(a)
126 Pyrene	202	14.770	14.770	(0.806)	1440766	50.0000	44.14
$ 127 Terphenyl-d14	244	15.545	15.545	(0.848)	981293	50.0000	47.55
128 Butylbenzylphthalate	149	17.297	17.297	(0.943)	1043628	50.0000	51.41
129 3,3'-Dichlorobenzidine	252	18.485	18.485	(1.008)	413192	50.0000	57.31
130 Benzo(a)anthracene	228	18.291	18.291	(0.998)	1239401	50.0000	47.06
131 Chrysene	228	18.409	18.409	(1.004)	1107301	50.0000	46.04
132 Bis(2-ethylhexyl)phthalate	149	19.240	19.240	(1.049)	1333649	50.0000	50.34
* 145 Perylene-d12	264	22.175	22.175	(1.000)	813632	40.0000	
146 Di-n-octylphthalate	149	20.959	20.959	(0.945)	2216749	50.0000	49.01
147 Benzo(b)fluoranthene	252	21.248	21.248	(0.958)	1181923	50.0000	47.16
148 Benzo(k)fluoranthene	252	21.317	21.317	(0.961)	1203763	50.0000	46.29
149 Benzo(a)pyrene	252	22.017	22.017	(0.993)	1088127	50.0000	50.35
150 Indeno(1,2,3-cd)pyrene	276	24.921	24.921	(1.124)	1031855	50.0000	55.96
151 Dibenz(a,h)anthracene	278	24.998	24.998	(1.127)	973423	50.0000	52.44
152 Benzo(g,h,i)perylene	276	25.301	25.301	(1.141)	1086839	50.0000	56.80

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Date : 11-JUL-2006 09:43
Client ID: CCV050PPM
Instrument: bna1.i
Sample Info: CCV050PPM;;;;;SV3607
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

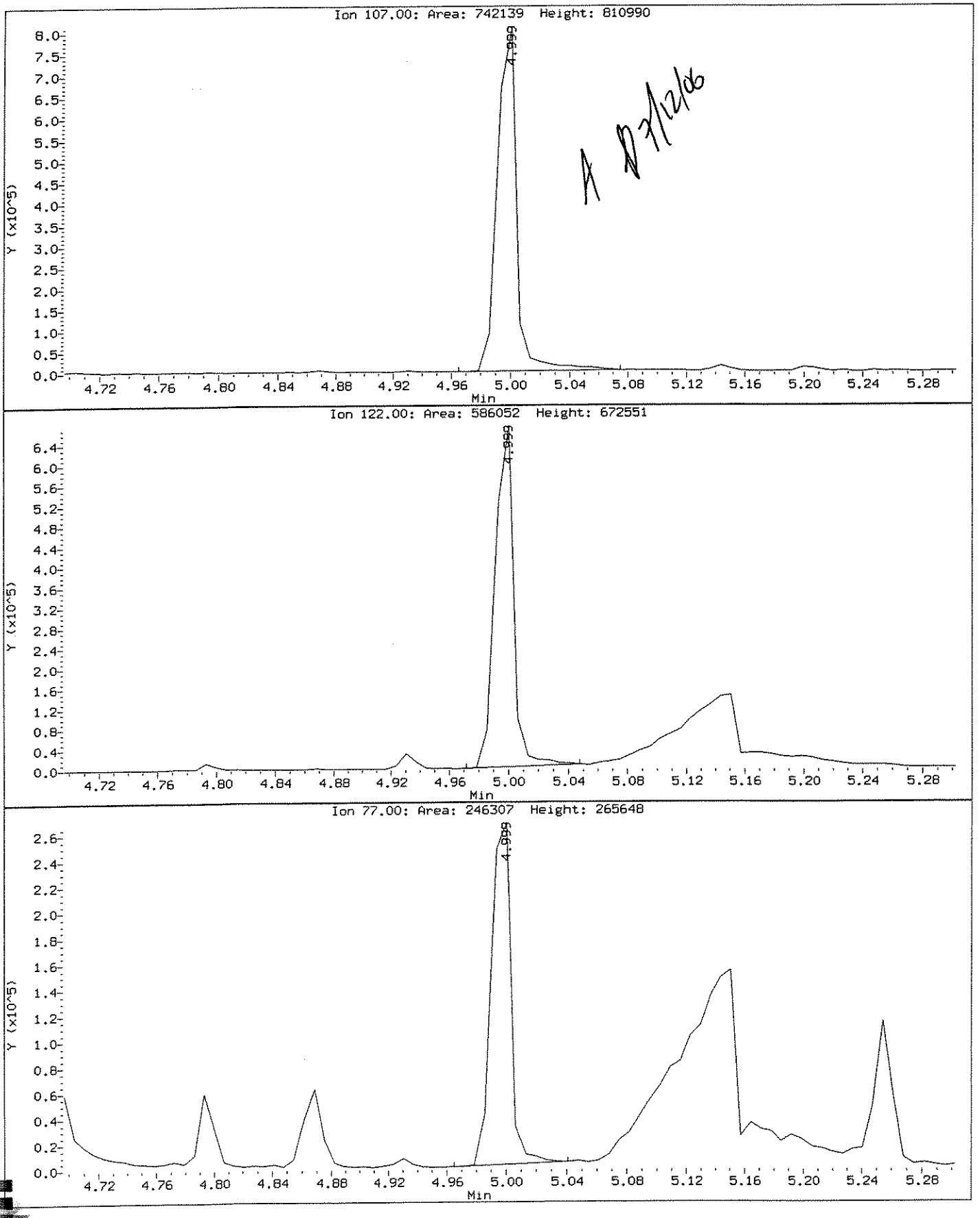
000492



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Injection Date: 11-JUL-2006 09:43
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9

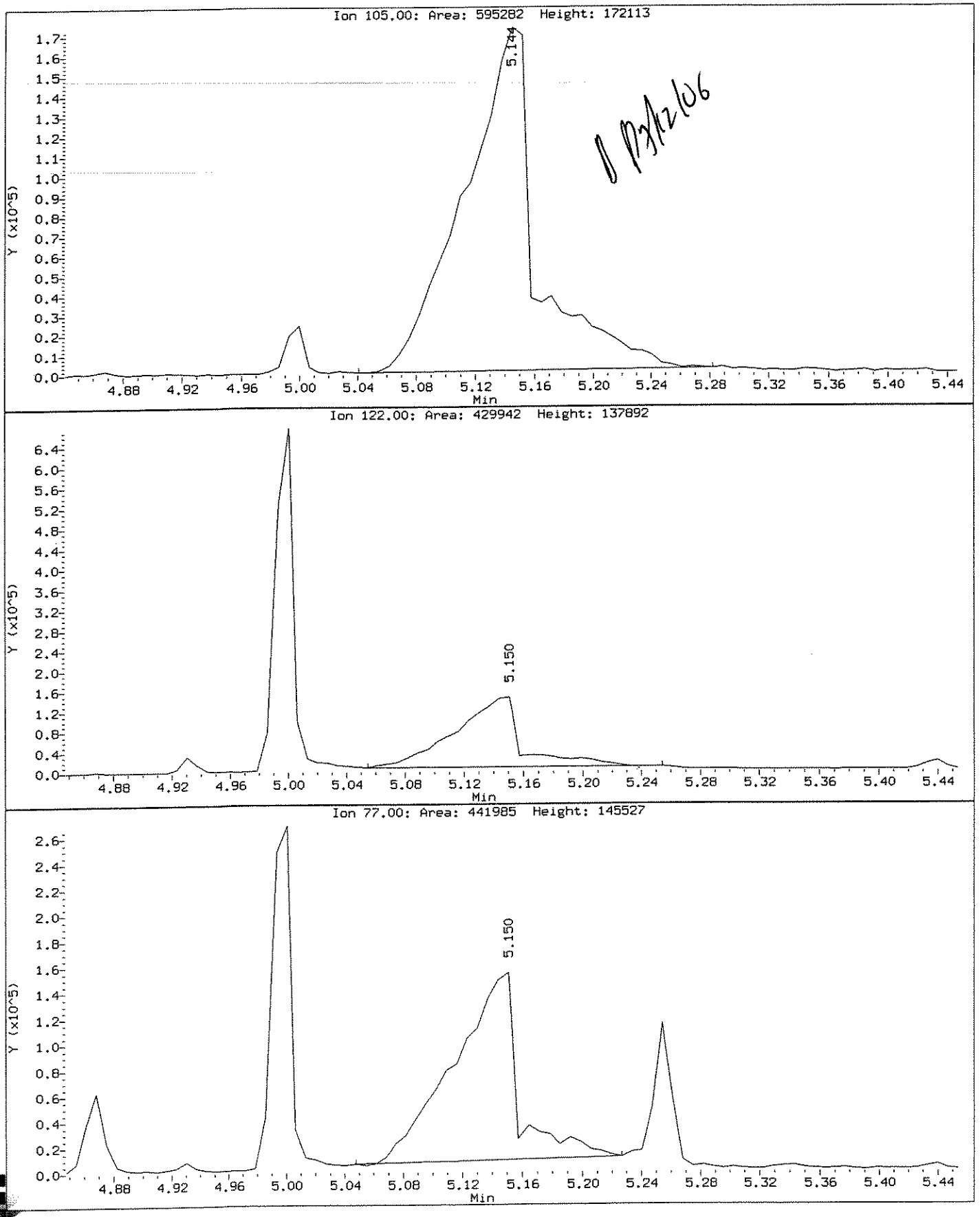


A D 7/12/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\CCV050.D
Injection Date: 11-JUL-2006 09:43
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0



1 p3/12/06

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/10/06 Time: 1506

Lab File ID: APP9ACCV Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1-Methylnaphthalene	0.546	0.478	50.00	43.83		AVRG	-12.3	20.0
Nitrobenzene-d5	0.437	0.478	50.00	0.0000		AVRG	9.5	
2-Fluorobiphenyl	1.273	1.151	50.00	0.0000		AVRG	-9.6	
Terphenyl-d14	1.010	1.018	50.00	0.0000		AVRG	0.8	

FORM VII SV

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Report Date: 20-Jul-2006 12:37

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Lab Smp Id: APP9ACCV050PPM Client Smp ID: APP9ACCV050PPM
Inj Date : 10-JUL-2006 15:06
Operator : SDB Inst ID: bna1.i
Smp Info : APP9ACCV050PPM;;;;;SV3625
Misc Info : ;;;;;app9a.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 20-Jul-2006 12:37 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 95 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.274	4.274	(1.000)	491612	40.0000	
7	Pentachloroethane	167	4.061	4.061	(0.950)	298429	50.0000	45.82
29	o-Toluidine	106	4.631	4.631	(1.084)	1176065	50.0000	48.11
* 31	Naphthalene-d8	136	5.283	5.283	(1.000)	1763556	40.0000	
52	1-Methylnaphthalene	141	6.203	6.203	(1.174)	1054137	50.0000	43.83
57	Hexachloropropene	213	5.420	5.420	(1.026)	238499	50.0000	26.56
63	1,2,4,5-Tetrachlorobenzene	216	6.341	6.341	(1.200)	582849	50.0000	43.14
* 65	Acenaphthene-d10	164	7.722	7.722	(1.000)	798988	40.0000	
88	m-Dinitrobenzene	168	7.399	7.399	(0.958)	246905	50.0000	54.33
89	Pentachlorobenzene	250	8.155	8.155	(1.056)	517305	50.0000	51.16
93	5-Nitro-o-toluidine	152	8.998	8.998	(1.165)	437521	50.0000	64.22
* 97	Phenanthrene-d10	188	11.038	11.038	(1.000)	1024967	40.0000	
112	sym-Trinitrobenzene	75	10.104	10.104	(0.915)	216551	50.0000	37.77
114	4-Aminobiphenyl	169	10.715	10.715	(0.971)	1152379	50.0000	55.13

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Report Date: 20-Jul-2006 12:37

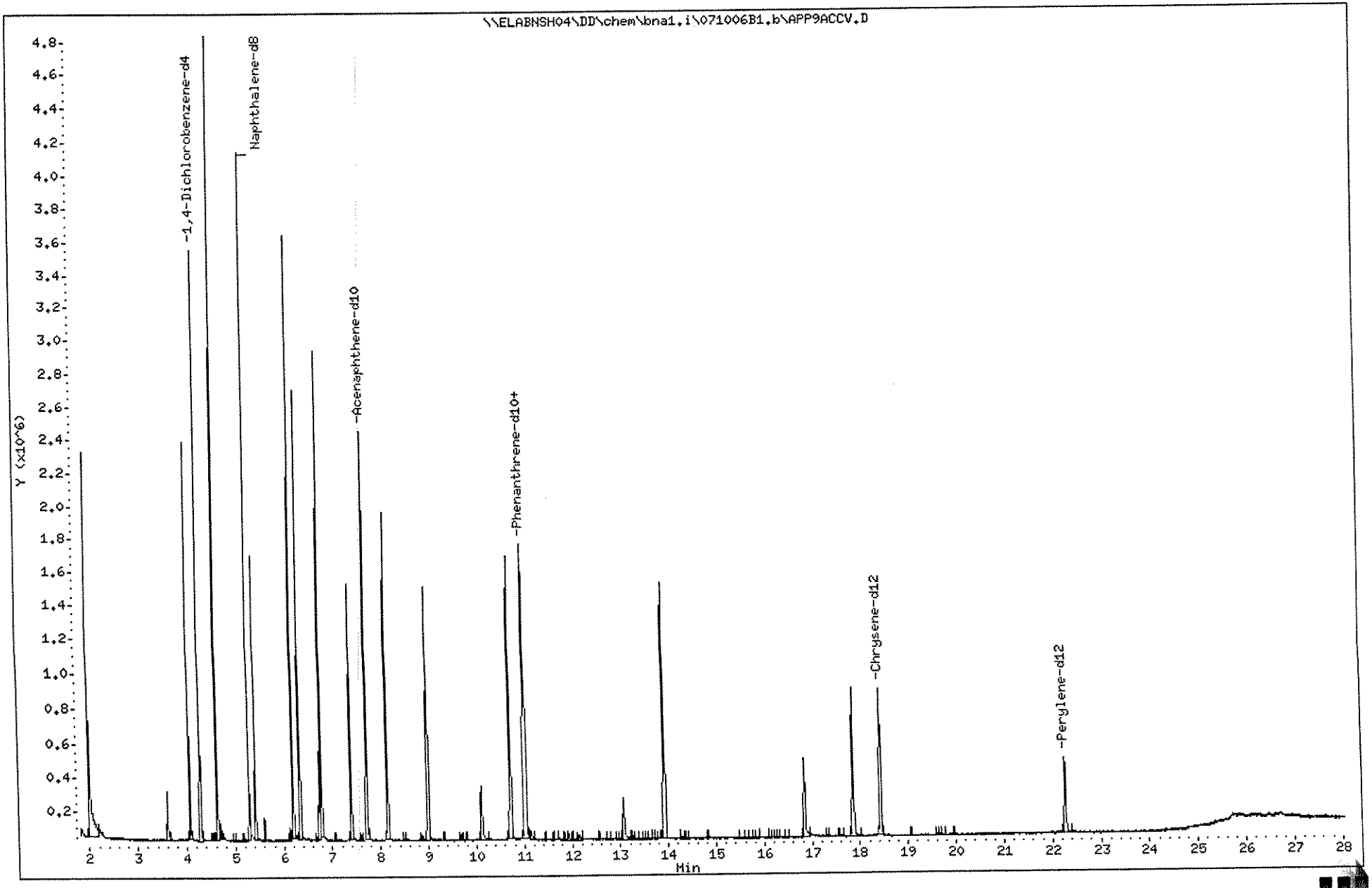
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
115 Pentachloronitrobenzene	237	11.010	11.010	(0.997)	139510	50.0000	48.35
* 124 Chrysene-d12	240	18.438	18.438	(1.000)	633203	40.0000	
137 2-Acetylaminofluorene	181	17.867	17.867	(0.969)	503237	50.0000	61.62
142 Isodrin	193	13.931	13.931	(0.756)	221961	50.0000	56.36
143 Kepone	272	16.842	16.842	(0.913)	109861	50.0000	38.32
* 145 Perylene-d12	264	22.268	22.268	(1.000)	323935	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\APP9ACCV.D
Date : 10-JUL-2006 15:06
Client ID: APP9ACCV050PPM
Sample Info: APP9ACCV050PPM;;;;;SV3625
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: SDB
Column diameter: 0.25

000498



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA1 Calibration Date: 07/11/06 Time: 1019

Lab File ID: APP9ACCV Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1-Methylnaphthalene	0.546	0.477	50.00	43.75		AVRG	-12.5	20.0
Nitrobenzene-d5	0.437	0.485	50.00	0.0000		AVRG	11.1	
2-Fluorobiphenyl	1.273	1.145	50.00	0.0000		AVRG	-10.0	
Terphenyl-d14	1.010	0.960	50.00	0.0000		AVRG	-4.9	

FORM VII SV

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Report Date: 12-Jul-2006 11:55

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Lab Smp Id: APP9ACCV050PPM Client Smp ID: APP9ACCV050PPM
Inj Date : 11-JUL-2006 10:19
Operator : SDB Inst ID: bna1.i
Smp Info : APP9ACCV050PPM;;;;;SV3625
Misc Info : ;;;;;ppbna.sub;3605
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

7/12/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Amt	1000.000	Volume of initial extraction
Vi	0.500	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.233	4.233	(1.000)	554090	40.0000	
7	Pentachloroethane	167	4.014	4.014	(0.948)	339293	50.0000	46.22
29	o-Toluidine	106	4.590	4.590	(1.084)	1304522	50.0000	47.35
* 31	Naphthalene-d8	136	5.230	5.230	(1.000)	1838326	40.0000	
52	1-Methylnaphthalene	141	6.137	6.137	(1.173)	1096986	50.0000	43.75
57	Hexachloropropene	213	5.369	5.369	(1.027)	409719	50.0000	43.77
63	1,2,4,5-Tetrachlorobenzene	216	6.274	6.274	(1.200)	621663	50.0000	44.14
* 65	Acenaphthene-d10	164	7.637	7.637	(1.000)	865912	40.0000	
88	m-Dinitrobenzene	168	7.326	7.326	(0.959)	252418	50.0000	51.25
89	Pentachlorobenzene	250	8.065	8.065	(1.056)	546330	50.0000	49.86
93	5-Nitro-o-toluidine	152	8.905	8.905	(1.166)	446159	50.0000	60.42
* 97	Phenanthrene-d10	188	10.929	10.929	(1.000)	1063444	40.0000	
112	sym-Trinitrobenzene	75	10.017	10.017	(0.916)	456438	50.0000	69.68
114	4-Aminobiphenyl	169	10.622	10.622	(0.972)	1140679	50.0000	52.59

7-12-06

Empirical Laboratories

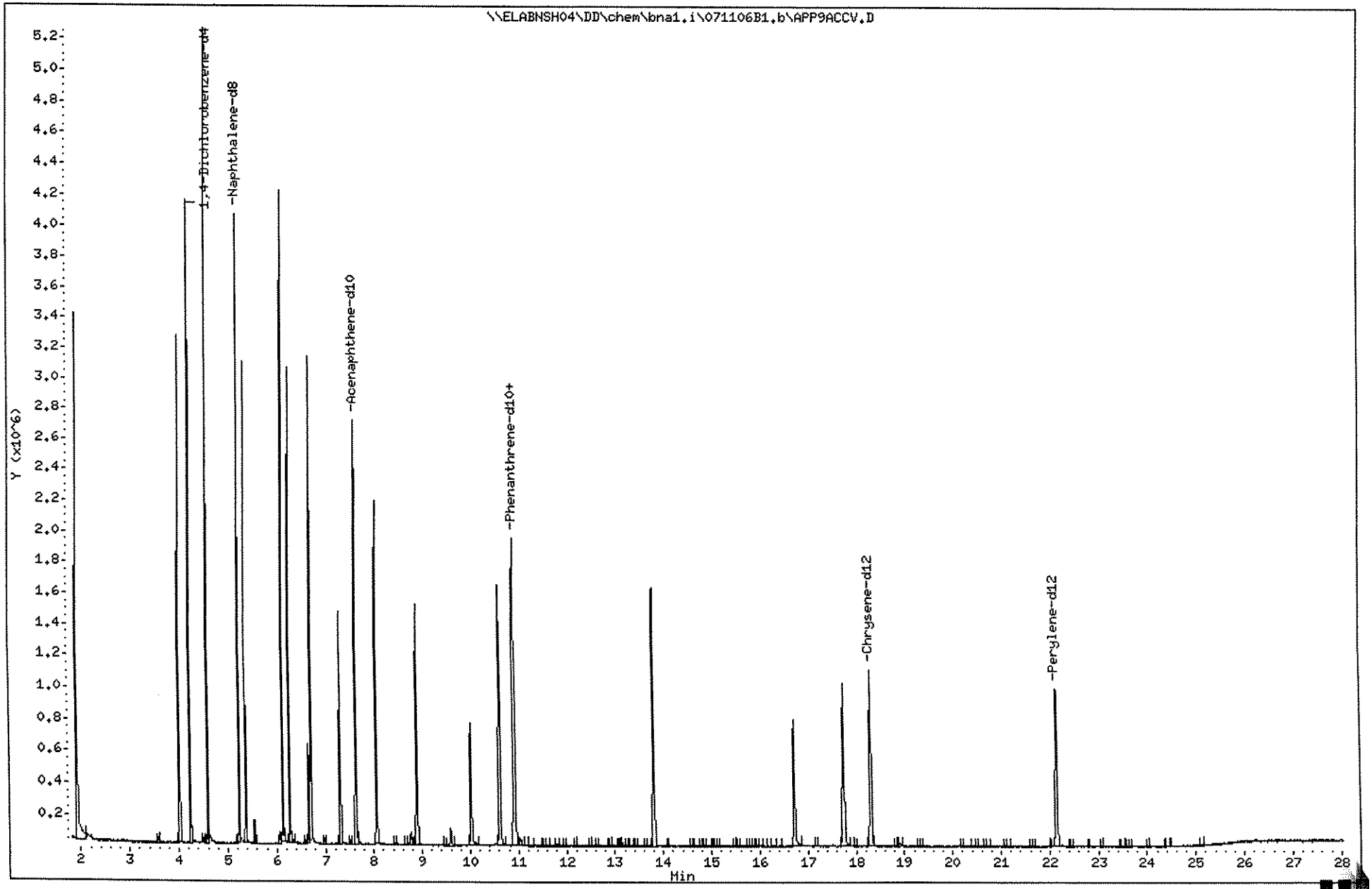
Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Report Date: 12-Jul-2006 11:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
115 Pentachloronitrobenzene	237	10.909	10.909	(0.998)	156588	50.0000	52.31
* 124 Chrysene-d12	240	18.318	18.318	(1.000)	845458	40.0000	
137 2-Acetylaminofluorene	181	17.757	17.757	(0.969)	614153	50.0000	56.32
142 Isodrin	193	13.816	13.816	(0.754)	244396	50.0000	46.48
143 Kepone	272	16.716	16.716	(0.913)	184051	50.0000	48.08
* 145 Perylene-d12	264	22.154	22.154	(1.000)	852893	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\APP9ACCV.D
Date : 11-JUL-2006 10:19
Client ID: APP9ACCV050PPM
Sample Info: APP9ACCV050PPM;;;;;SV3625
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000502



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date: 07/17/06 Time: 1359

Lab File ID: PAHCCV Init. Calib. Date(s): 03/11/06 04/21/06

Init. Calib. Times: 1210 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.008	1.022	5.000	5.065		AVRG	1.3	20.0
Acenaphthylene	1.592	1.502	5.000	4.717		AVRG	-5.6	20.0
Anthracene	1.056	1.052	5.000	4.983		AVRG	-0.3	20.0
Benzo(a)anthracene	1.164	1.120	5.000	4.808		AVRG	-3.8	20.0
Benzo(b)fluoranthene	1.381	1.280	5.000	4.637		AVRG	-7.2	20.0
Benzo(k)fluoranthene	1.381	1.680	5.000	6.085		AVRG	21.7	20.0
Benzo(g,h,i)perylene	0.839	0.773	5.000	4.604		AVRG	-7.9	20.0
Benzo(a)pyrene	1.138	1.127	5.000	4.953		AVRG	-0.9	20.0
Chrysene	1.150	1.268	5.000	5.515		AVRG	10.3	20.0
Dibenz(a,h)anthracene	0.761	0.644	5.000	4.230		AVRG	-15.4	20.0
Fluoranthene	1.111	1.128	5.000	5.079		AVRG	1.6	20.0
Fluorene	1.189	1.102	5.000	4.637		AVRG	-7.2	20.0
Indeno(1,2,3-cd)pyrene	0.804	0.758	5.000	4.712		AVRG	-5.8	20.0
2-Methylnaphthalene	0.523	0.485	5.000	4.635		AVRG	-7.3	20.0
1-Methylnaphthalene	0.548	0.536	5.000	4.895		AVRG	-2.1	20.0
Naphthalene	0.958	0.931	5.000	4.854		AVRG	-2.9	20.0
Phenanthrene	1.096	1.106	5.000	5.044		AVRG	0.9	20.0
Pyrene	1.486	1.935	5.000	6.510		AVRG	30.2	20.0
Nitrobenzene-d5	0.186	0.294	5.000	5.745		LINR	14.9	
2-Fluorobiphenyl	1.206	1.108	5.000	4.592		AVRG	-8.2	
Terphenyl-d14	0.952	1.031	5.000	5.414		AVRG	8.3	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Report Date: 18-Jul-2006 09:08

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Lab Smp Id: PAHCCV5.0PPM Client Smp ID: PAHCCV5.0PPM
Inj Date : 17-JUL-2006 13:59 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : PAHCCV5.0PPM;;;;;SV3624
Misc Info : ;;;;;;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	2.000	Volume injected (uL)
Solids	100.000	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.453	5.453	(1.000)	91793	1.00000	
*	3 Naphthalene-d8	136	8.056	8.056	(1.000)	440409	1.00000	
$	4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	647540	5.00000	5.745
	5 Naphthalene	128	8.102	8.102	(1.006)	2049517	5.00000	4.854
	6 2-Methylnaphthalene	141	9.689	9.689	(1.203)	1067711	5.00000	4.635
	7 1-Methylnaphthalene	141	9.940	9.940	(1.234)	1180595	5.00000	4.895(M)
*	8 Acenaphthene-d10	164	12.189	12.189	(1.000)	269649	1.00000	
$	10 2-Fluorobiphenyl	172	10.648	10.648	(0.874)	1493481	5.00000	4.592
	11 Acenaphthylene	152	11.813	11.813	(0.969)	2025416	5.00000	4.717
	12 Acenaphthene	153	12.258	12.258	(1.006)	1377608	5.00000	5.065
	15 Fluorene	166	13.479	13.479	(1.106)	1486564	5.00000	4.637
*	16 Phenanthrene-d10	188	15.706	15.706	(1.000)	361669	1.00000	
	17 Phenanthrene	178	15.763	15.763	(1.004)	1999508	5.00000	5.044

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Report Date: 18-Jul-2006 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.866	15.866	(1.010)	1903397	5.00000	4.983
	19 Fluoranthene	202	18.651	18.651	(1.188)	2040145	5.00000	5.079
*	20 Chrysene-d12	240	22.133	22.133	(1.000)	239219	1.00000	
	21 Pyrene	202	19.165	19.165	(0.866)	2314302	5.00000	6.510
$	22 Terphenyl-d14	244	19.690	19.690	(0.890)	1233144	5.00000	5.414
	23 Benzo(a)anthracene	228	22.099	22.099	(0.998)	1339309	5.00000	4.808
	24 Chrysene	228	22.190	22.190	(1.003)	1517081	5.00000	5.515
*	25 Perylene-d12	264	25.330	25.330	(1.000)	175042	1.00000	
	26 Benzo(b)fluoranthene	252	24.554	24.554	(0.969)	1120771	5.00000	4.637
	27 Benzo(k)fluoranthene	252	24.599	24.599	(0.971)	1470770	5.00000	6.085
	28 Benzo(a)pyrene	252	25.216	25.216	(0.995)	986384	5.00000	4.953
	29 Indeno(1,2,3-cd)pyrene	276	27.362	27.362	(1.080)	663348	5.00000	4.712(M)
	30 Dibenz(a,h)anthracene	278	27.397	27.397	(1.082)	563559	5.00000	4.230
	31 Benzo(g,h,i)perylene	276	27.830	27.830	(1.099)	676659	5.00000	4.604

QC Flag Legend

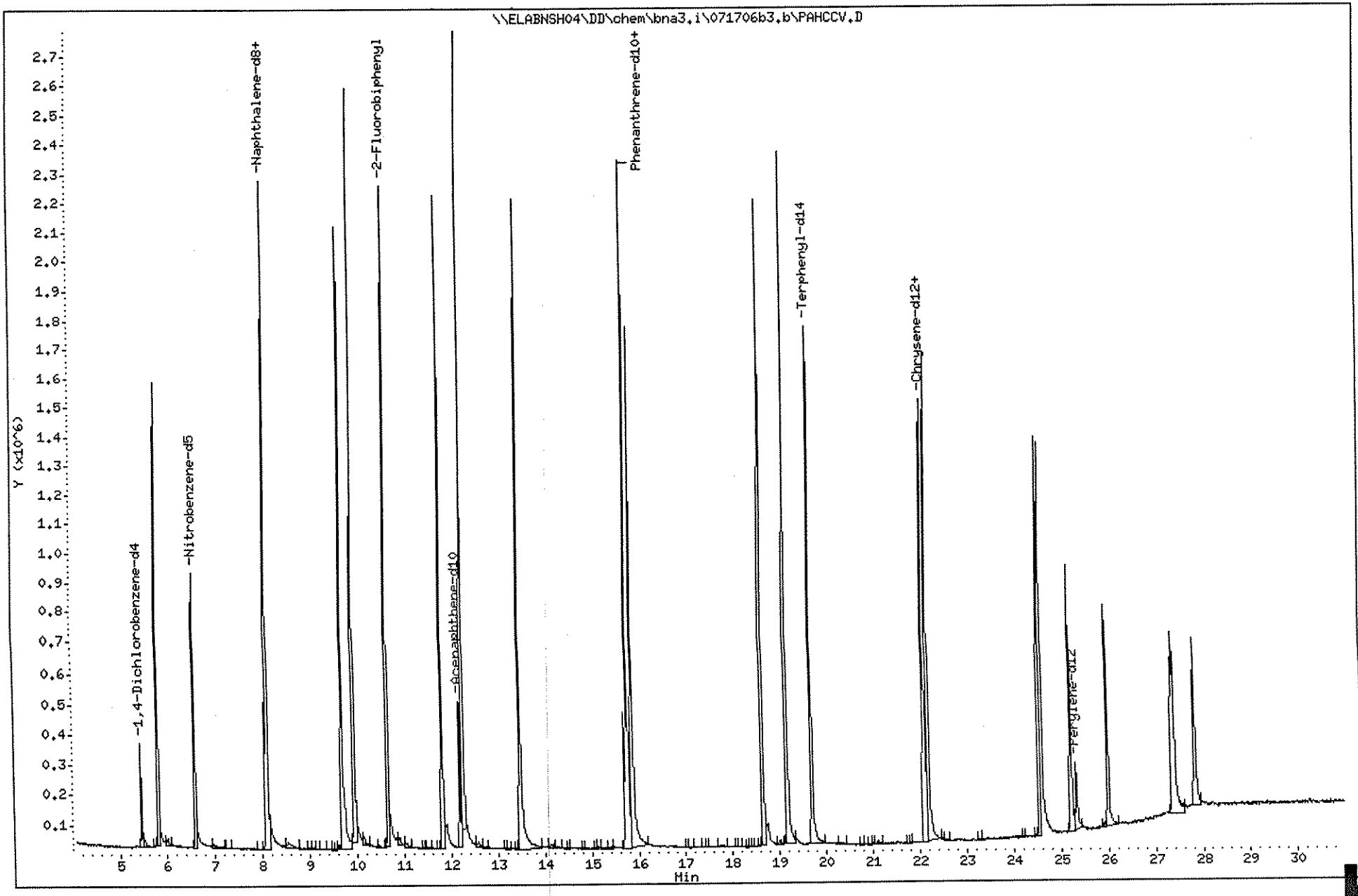
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Date : 17-JUL-2006 13:59
Client ID: PAHCCV5.0PPM
Sample Info: PAHCCV5.0PPM;;;;;SV3624
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i

Operator: SDB
Column diameter: 0.25

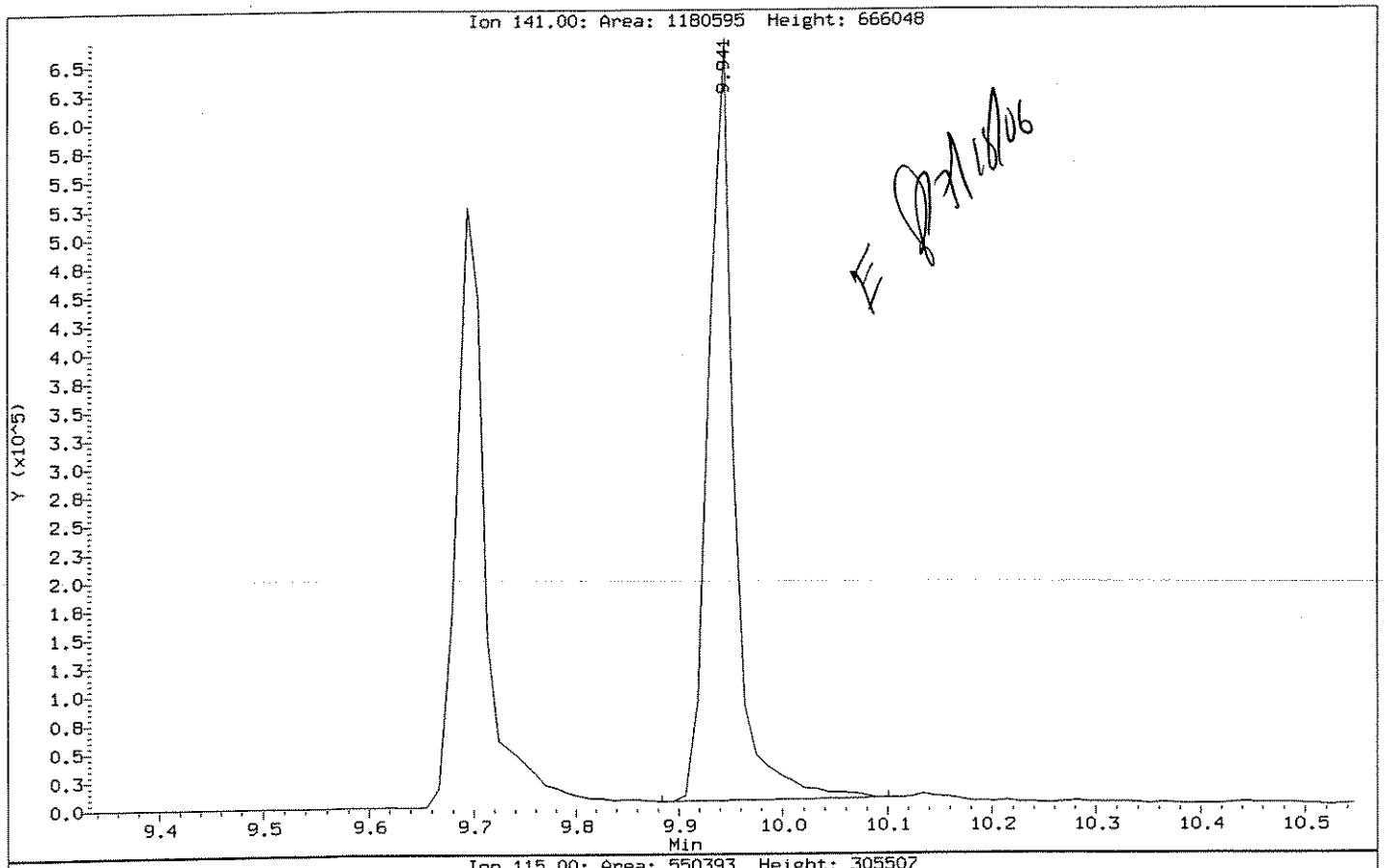
000506

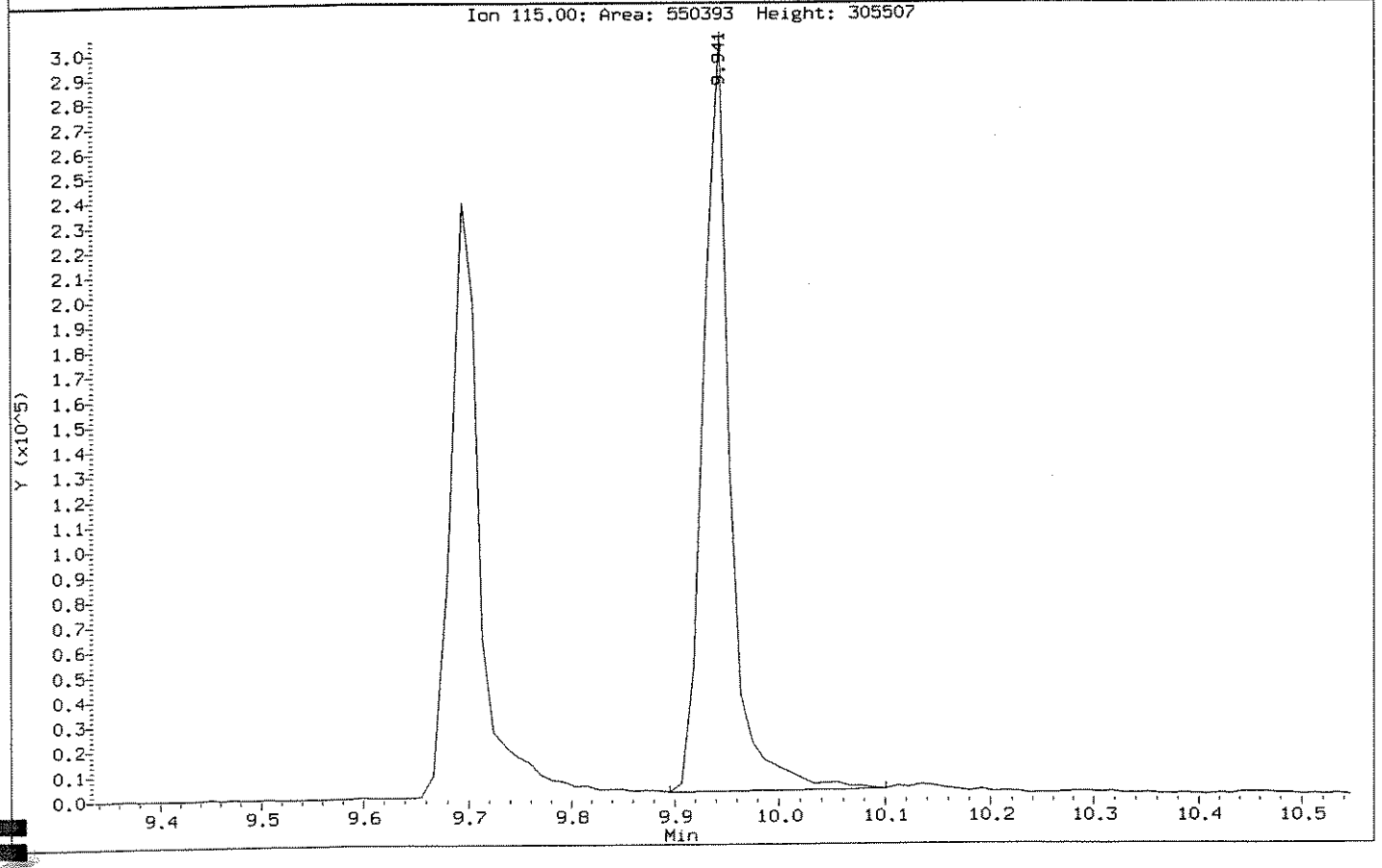


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Injection Date: 17-JUL-2006 13:59
Instrument: bna3.i
Client Sample ID: PAHCCV5.0PPM

Compound: 1-Methylnaphthalene
CAS Number: 90-12-0

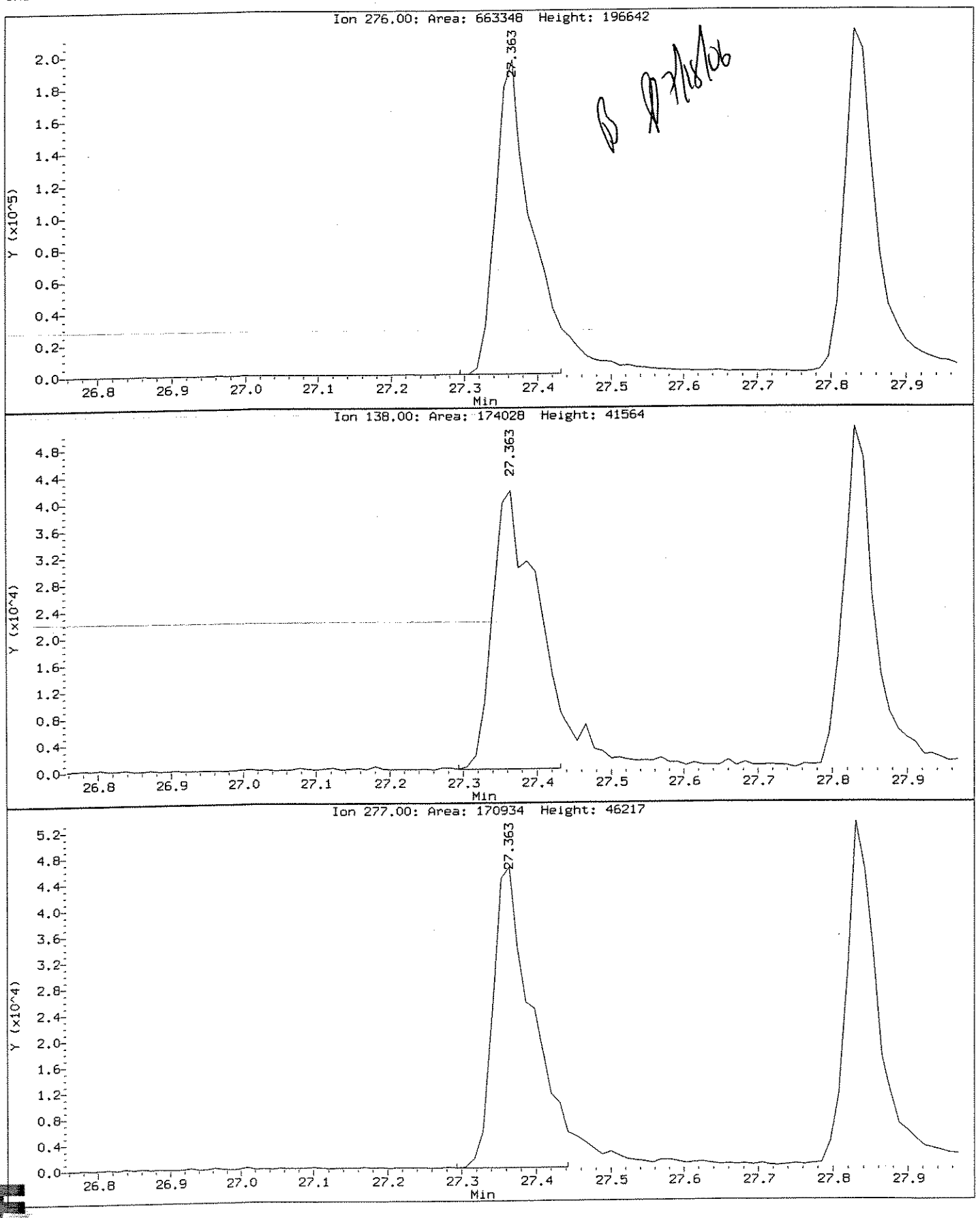




Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHCCV.D
Injection Date: 17-JUL-2006 13:59
Instrument: bna3.i
Client Sample ID: PAHCCV5.0PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Instrument ID: BNA3 Calibration Date: 07/17/06 Time: 1318

Lab File ID: SPCC020 Init. Calib. Date(s): 02/13/06 04/21/06

Init. Calib. Times: 1342 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2,4-Dinitrophenol	0.063	0.082	20.00	26.20	0.050	AVRG	31.0	20.0
Hexachlorocyclopentadiene	0.274	0.469	20.00	34.20	0.050	AVRG	71.0	20.0
4-Nitrophenol	0.147	0.122	20.00	16.50	0.050	AVRG	-17.5	20.0
N-Nitroso-di-n-propylamine	0.644	1.031	20.00	32.02	0.050	AVRG	60.1	20.0

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Report Date: 18-Jul-2006 09:08

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Lab Smp Id: SPCC020PPM Client Smp ID: SPCC020PPM
Inj Date : 17-JUL-2006 13:18 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SPCC020PPM;;;;;SV3628
Misc Info : ;;;;;;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spcc.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	2.000	Volume injected (uL)
Solids	100.000	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)	
*	1 1,4-Dichlorobenzene-d4	152	5.452	5.452	(1.000)	91427	1.00000		(aH)
	2 N-Nitroso-di-n-propylamine	70	6.354	6.354	(1.112)	1885189	20.0000	32.02	
*	3 Naphthalene-d8	136	8.055	8.055	(1.000)	408965	1.00000		(a)
*	8 Acenaphthene-d10	164	12.188	12.188	(1.000)	229968	1.00000		(aH)
	9 Hexachlorocyclopentadiene	237	10.247	10.247	(0.833)	2158070	20.0000	34.20	
	13 2,4-Dinitrophenol	184	12.462	12.462	(1.013)	377998	20.0000	26.20	(a)
	14 4-Nitrophenol	65	12.827	12.827	(1.052)	559192	20.0000	16.50	(aM)
*	16 Phenanthrene-d10	188	15.704	15.704	(1.000)	334265	1.00000		(a)
*	20 Chrysene-d12	240	22.132	22.132	(1.000)	128361	1.00000		(a)
*	25 Perylene-d12	264	25.340	25.340	(1.000)	96128	1.00000		(a)

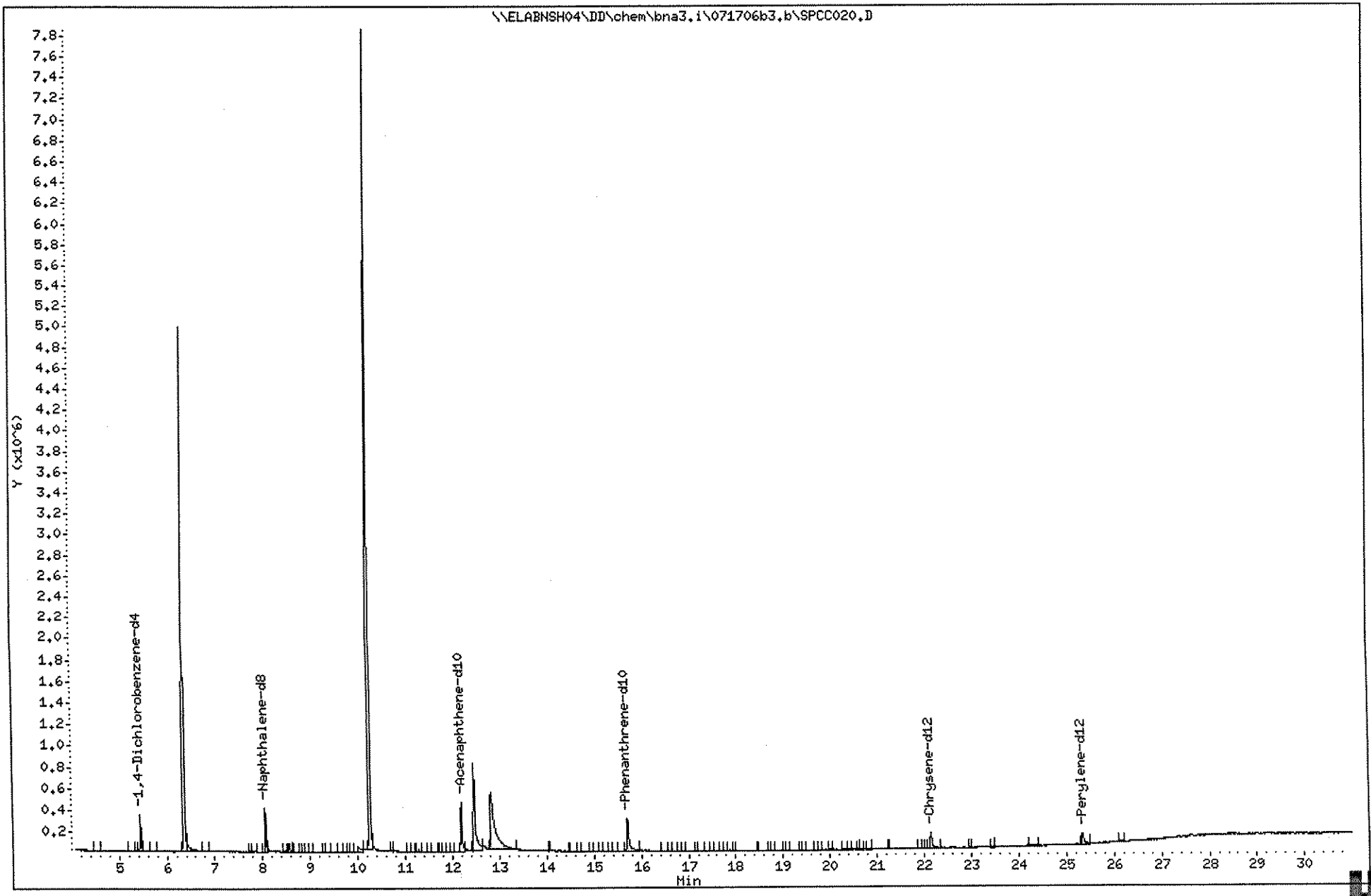
Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Report Date: 18-Jul-2006 09:08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SPCC020.D
Date : 17-JUL-2006 13:18
Client ID: SPCC020PPM
Instrument: bna3.i
Sample Info: SPCC020PPM;;;;;SV3628
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

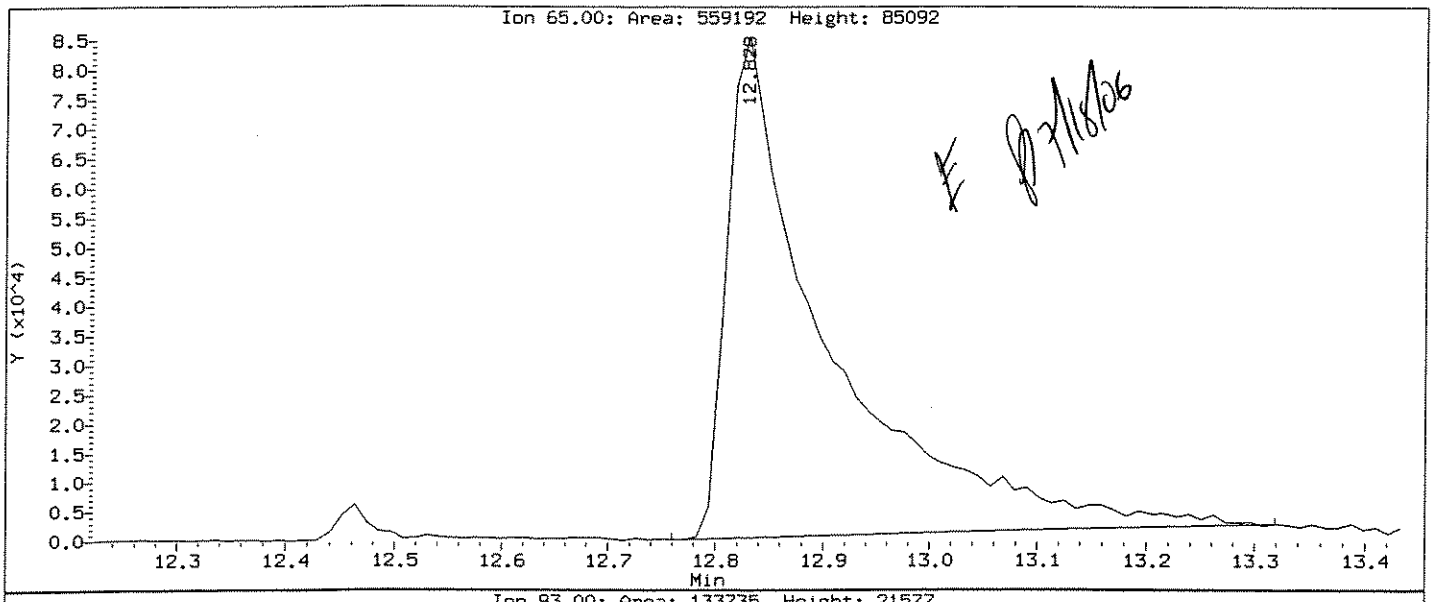
000512

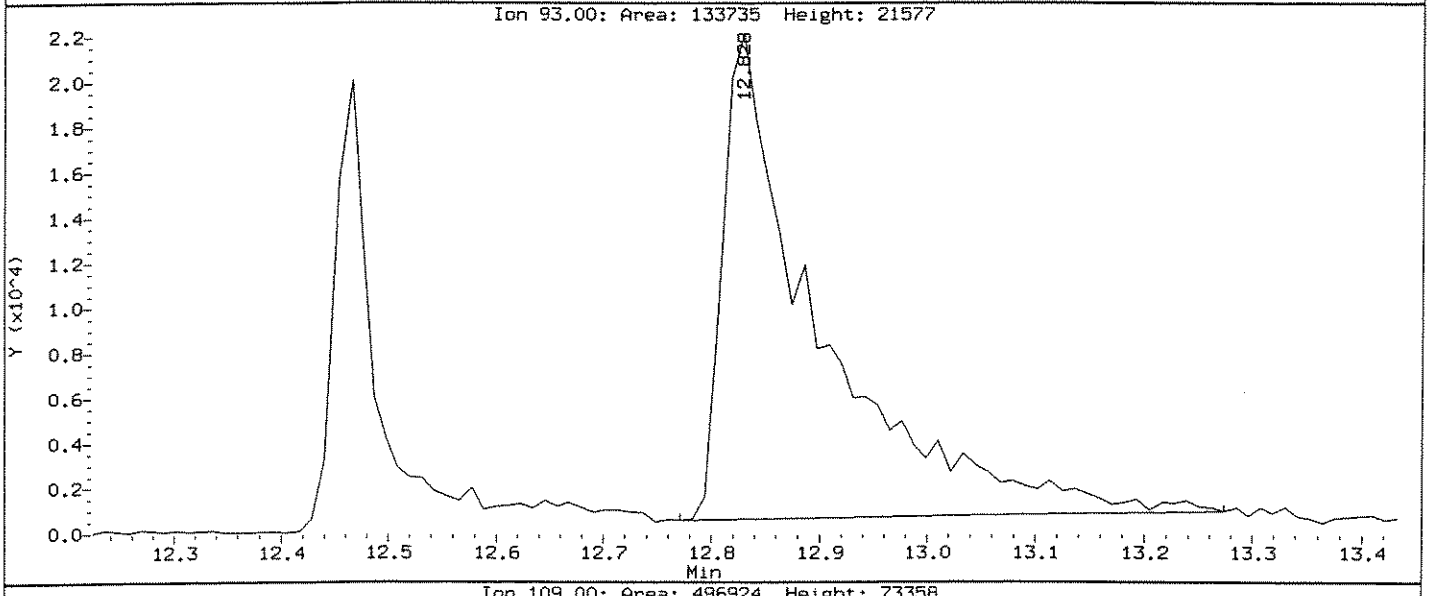


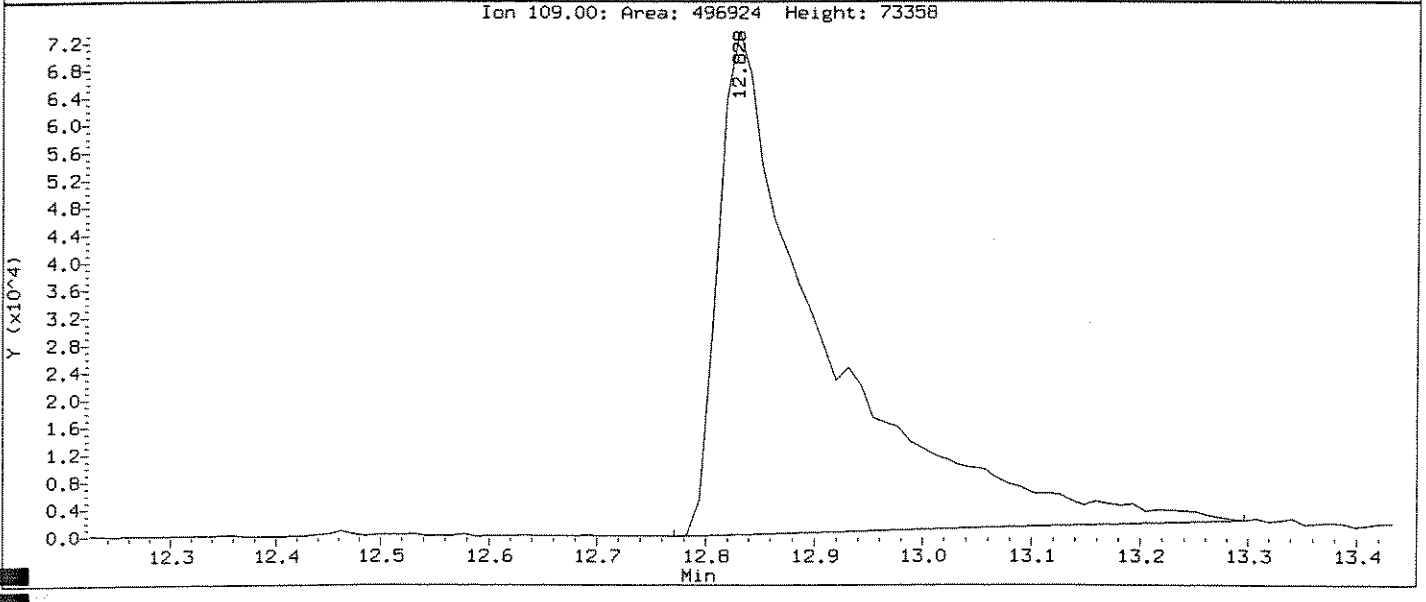
Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna3.i\071706b3.b\SPCC020.D
Injection Date: 17-JUL-2006 13:18
Instrument: bna3.i
Client Sample ID: SPCC020PPM

Compound: 4-Nitrophenol
CAS Number: 100-02-7







E 8/18/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

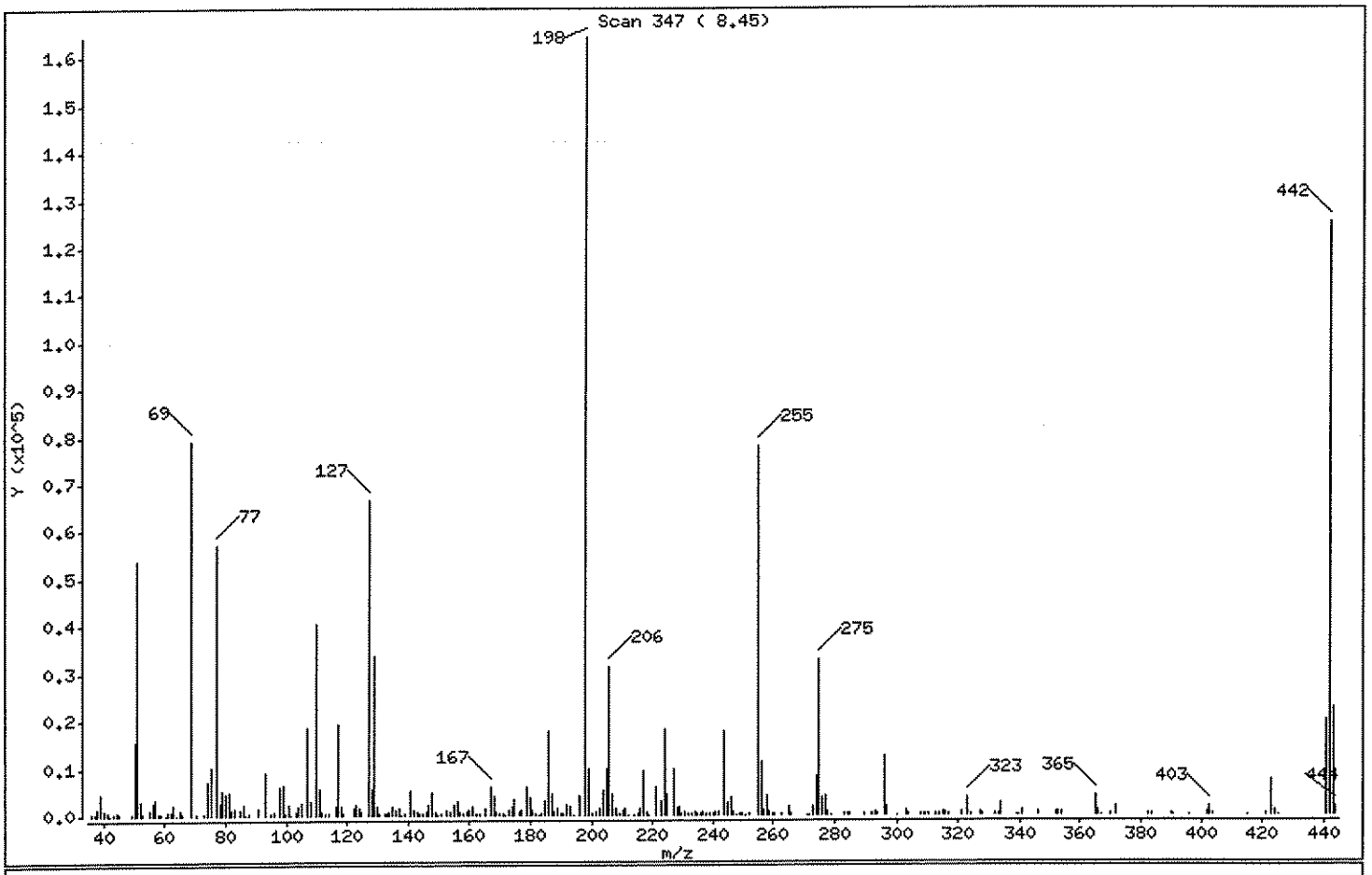
Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	32.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.22
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.53
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.89
275	10.00 - 30.00% of mass 198	20.10
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	12.31
442	Greater than 40.00% of mass 198	76.26
443	17.00 - 23.00% of mass 442	13.87 (18.19)

M 4/8/16

RDW 2-8-06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0207B1.D
Spectrum: Scan 347 (8.45)
Location of Maximum: 197.85
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	212	119.00	212	191.95	2158	272.80	1930
37.20	196	122.00	1475	192.95	1782	274.00	8355
38.05	1339	123.00	2127	194.05	174	274.90	33024
39.05	4630	123.90	1423	195.95	4304	275.85	3855
39.95	955	124.85	755	197.85	164288	276.95	4268
41.05	745	126.95	66584	198.85	9670	277.85	660
41.95	134	128.05	5570	200.00	357	278.65	101
43.05	567	128.95	33568	201.40	704	282.85	415
44.05	887	129.95	1947	202.80	1397	283.95	415
44.75	369	130.85	496	204.00	5297	284.65	475
49.00	468	132.15	292	205.00	9670	289.80	310
50.10	15552	132.85	405	205.90	31440	291.80	254
51.00	53872	133.75	631	207.00	4643	292.90	704
52.00	3115	134.90	1874	207.90	1462	293.90	394
52.70	298	136.00	1102	209.00	496	295.90	12627
55.00	1306	136.90	1605	210.10	961	296.85	1777
56.00	2637	138.00	122	211.05	1539	300.35	122
57.00	3571	139.00	278	212.05	133	302.95	1191
58.00	547	140.90	5122	213.75	126	303.75	301
58.80	385	141.90	1151	214.95	404	308.00	260
60.25	171	143.00	601	215.75	1674	309.00	231
61.05	820	143.90	222	216.85	9408	310.10	280
61.95	876	145.20	209	217.95	890	312.80	437
63.05	2255	146.05	812	218.65	115	314.10	344
63.95	188	146.95	2127	220.85	6227	315.00	905
64.95	1290	147.95	5037	223.00	2858	315.90	810
65.75	305	149.05	831	223.90	18320	317.00	289
68.95	79216	149.85	135	224.90	4452	320.95	831
70.80	325	150.95	526	226.90	9859	322.95	3602
73.10	437	152.85	1115	228.00	1591	323.85	396
74.00	7056	153.95	922	228.90	1730	326.95	591
75.00	10051	154.95	2096	229.60	239	327.75	555
77.00	57344	155.95	3142	230.90	714	331.80	516
78.00	2532	157.00	672	231.90	247	332.90	514
79.00	5478	157.90	469	232.95	254	333.80	2675

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0207B1.D
Spectrum: Scan 347 (8.45)
Location of Maximum: 197.85
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.90	4377	159.10	823	233.95	773	339.10	116
80.95	4802	159.90	980	234.95	454	339.80	138
81.95	1318	160.90	2000	235.85	473	340.95	968
83.05	1567	161.90	393	236.75	867	345.95	820
84.95	1021	163.40	309	237.75	205	352.00	761
85.95	2084	164.90	1548	238.95	343	352.80	741
86.65	113	166.90	5923	240.05	190	354.10	672
87.85	359	167.95	4091	240.75	773	364.85	4161
90.95	1581	168.85	859	242.15	910	365.95	1012
93.00	8977	169.95	441	244.00	17928	366.85	159
95.10	303	171.05	426	244.90	2706	370.05	324
95.90	610	171.95	187	245.90	3790	371.85	1874
98.00	5923	172.95	1102	246.80	649	382.70	200
99.00	6565	173.85	1735	247.70	123	383.75	266
99.80	427	174.85	3355	248.90	366	390.05	212
100.90	2439	176.25	804	249.80	423	390.85	174
101.60	170	176.85	1028	250.80	170	396.30	114
103.05	750	178.90	5989	252.30	240	401.80	736
103.95	1869	180.00	3877	254.95	77936	402.80	1982
105.05	2577	180.90	1282	255.95	11438	403.90	309
106.95	18520	181.90	429	256.95	955	414.85	107
107.95	3001	182.80	156	257.85	4208	420.80	431
109.95	40608	183.80	276	258.85	604	423.00	7711
110.95	5633	185.00	3205	259.95	476	423.90	1071
111.85	702	185.90	17776	260.65	218	425.00	147
112.85	264	186.90	4427	263.05	286	441.00	20216
113.90	226	188.00	638	265.00	1919	442.00	125280
116.10	1959	188.80	1401	265.80	206	442.90	22792
116.90	19456	190.25	549	270.90	176	443.90	2029
118.10	1709	190.85	410	271.60	154		

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1.D

Date : 07-FEB-2006 10:16

Client ID: 50ppm DFTPP

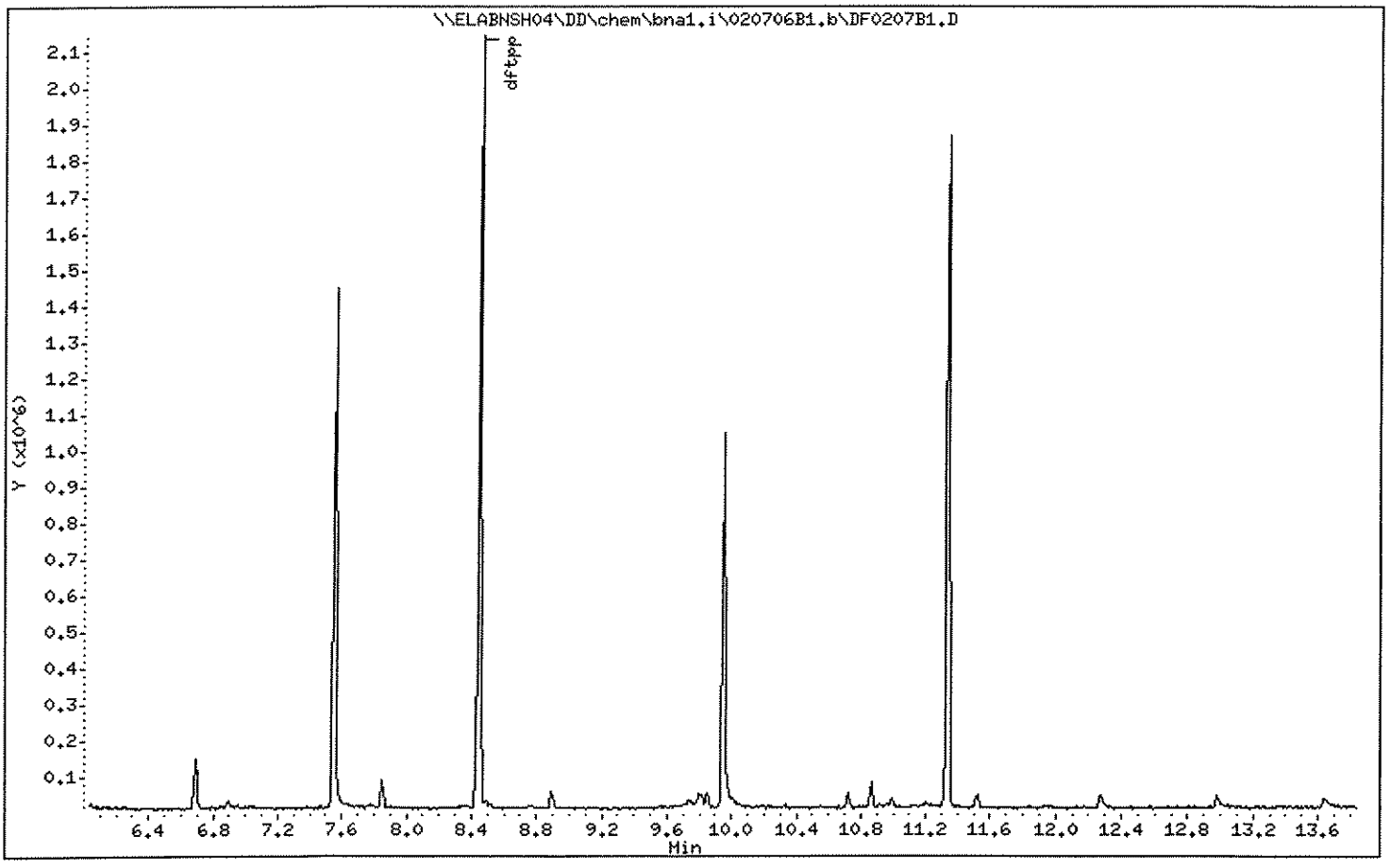
Instrument: bna1.i

Sample Info: DF0207B1;;;;;SV3361

Operator: sdb

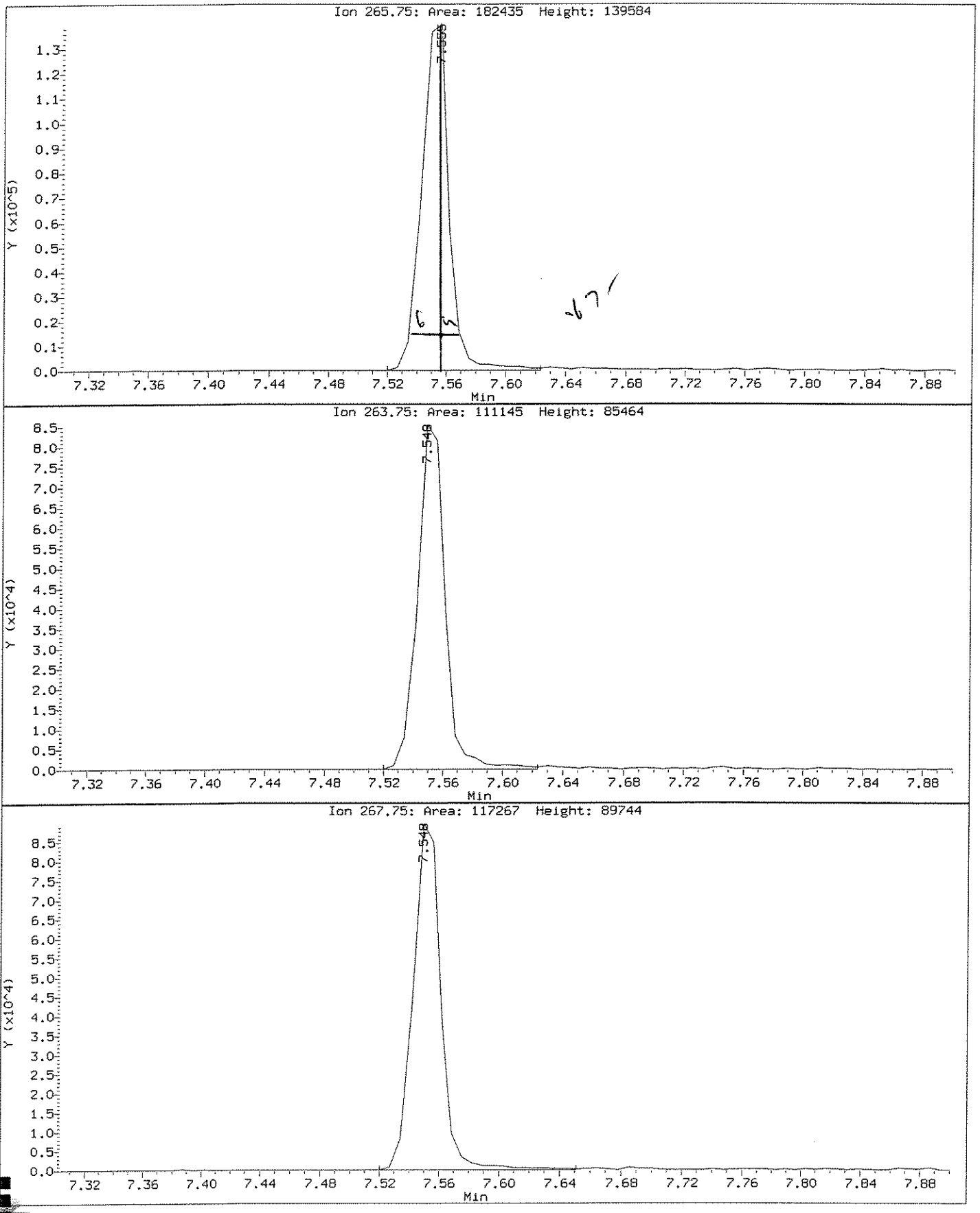
Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Injection Date: 07-FEB-2006 10:16
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

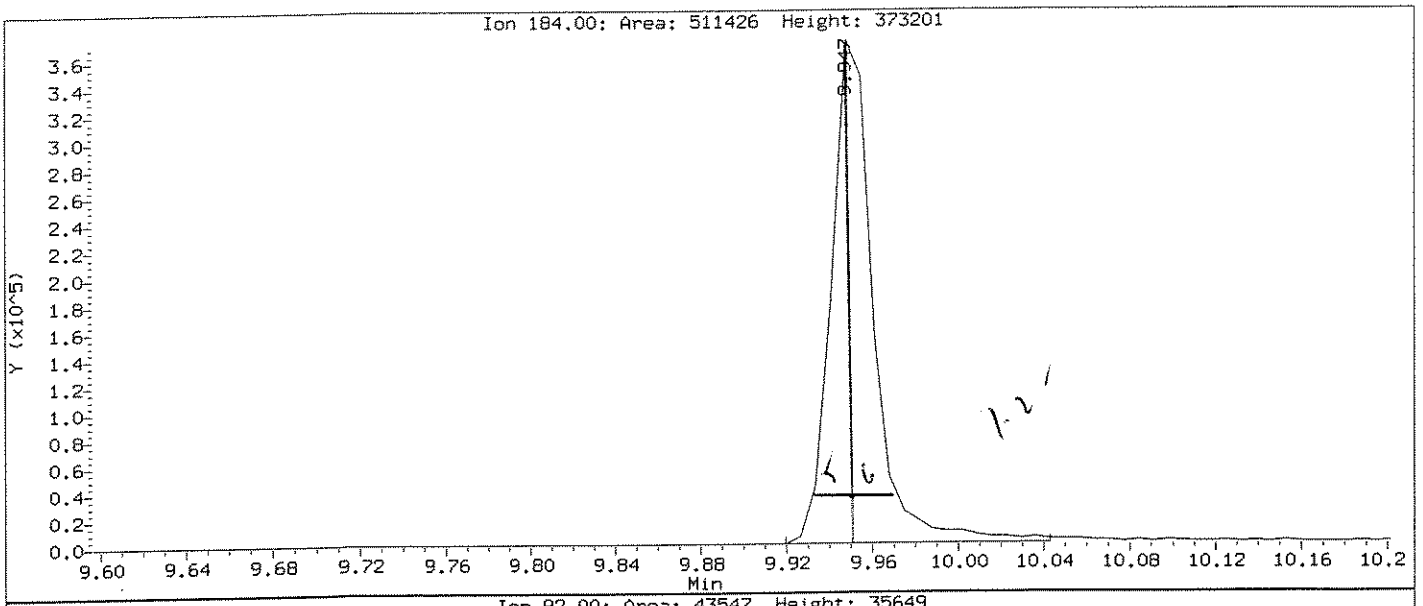
Compound: Pentachlorophenol
CAS Number: 87-86-5

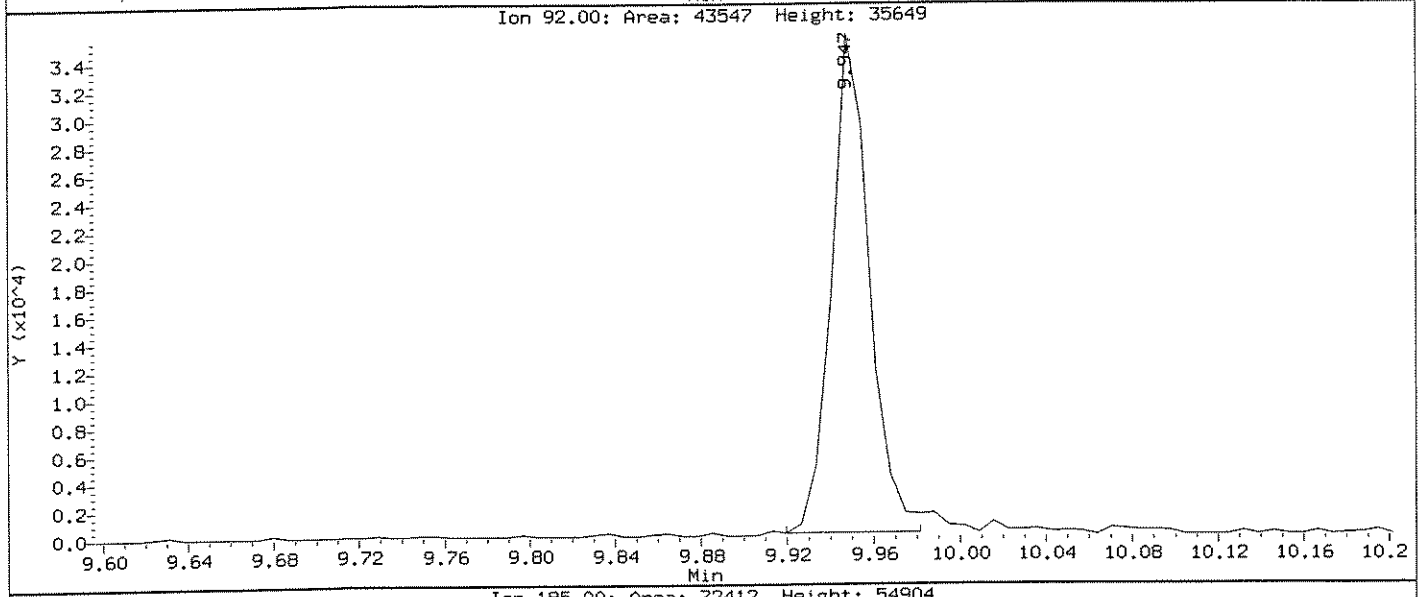


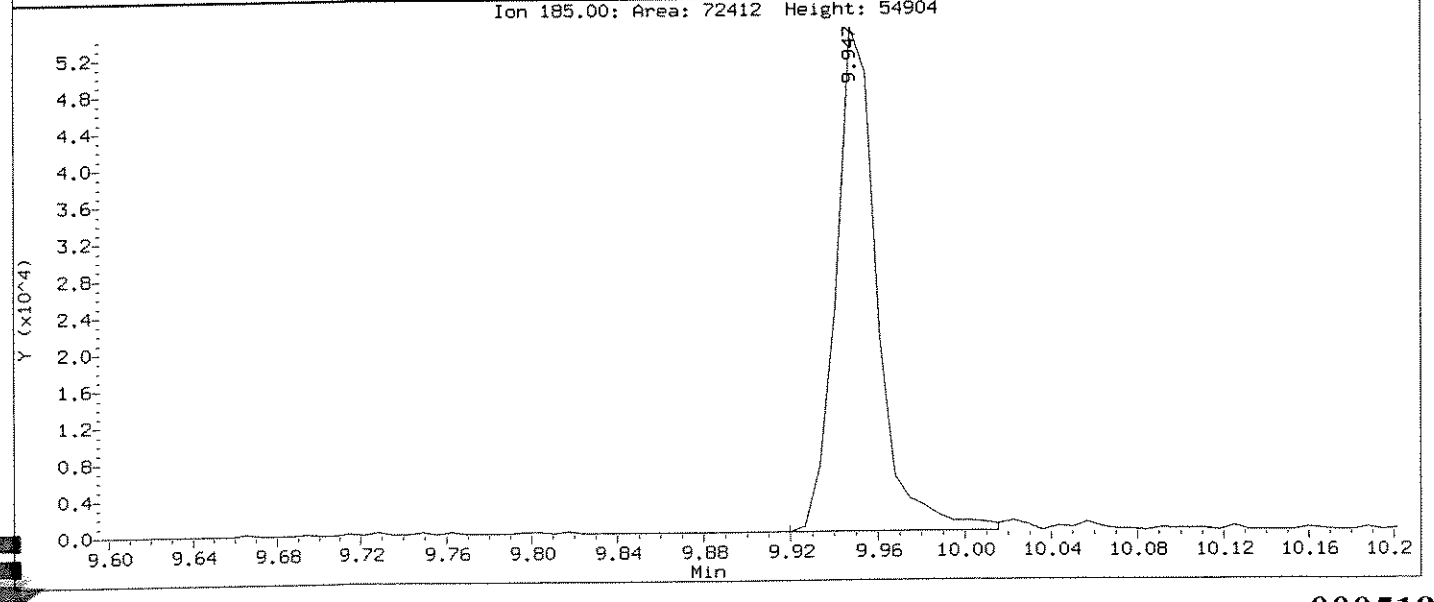
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Injection Date: 07-FEB-2006 10:16
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Report Date: 08-Feb-2006 09:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\DF0207B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 07-FEB-2006 10:16
Operator : sdb Inst ID: bna1.i
Smp Info : DF0207B1;;;;;SV3361
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\020706B1.b\dftppbn1ex.m
Meth Date : 30-Jan-2006 07:42 amonteiro Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)
1 Pentachlorophenol	266	7.554	7.600	-0.046	182435		
2 Benzidine	184	9.947	9.900	0.047	511426		
4 4,4'-DDD	235	10.864	10.800	0.064	12896		
5 4,4'-DDT	235	11.340	11.300	0.040	393663		

DDT breakdown = 12896 / 406559 = 3.2% DDT breakdown < 20% ✓

PM 9/16

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

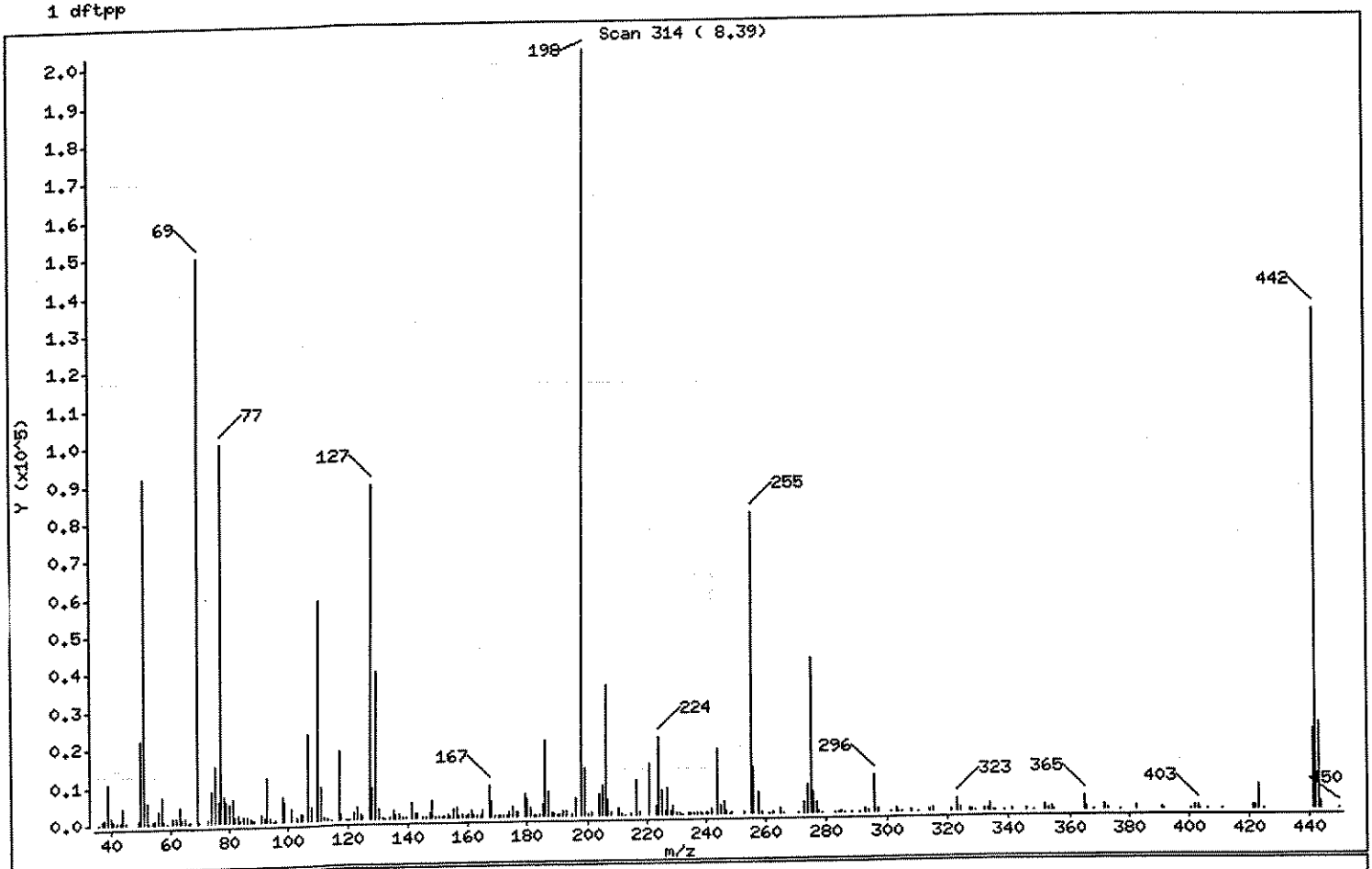
Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.19
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	74.01
70	Less than 2.00% of mass 69	0.15 (0.21)
127	40.00 - 60.00% of mass 198	43.74
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.31
275	10.00 - 30.00% of mass 198	20.18
365	Greater than 1.00% of mass 198	1.79
441	Present, but less than mass 443	10.26
442	Greater than 40.00% of mass 198	65.34
443	17.00 - 23.00% of mass 442	11.26 (17.24)

4/20/06

MS/MSC

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	154	117.00	18368	186.90	6565	276.85	2645
37.00	723	117.80	1314	187.90	896	277.75	492
38.05	1401	119.20	197	188.85	794	278.85	156
39.05	10590	119.90	214	190.15	286	282.95	230
40.05	1902	120.80	210	190.85	678	283.95	179
41.05	826	121.90	1803	191.95	1553	284.65	407
41.85	298	123.00	3242	192.95	1629	286.20	151
43.15	471	124.05	1191	194.85	379	288.70	111
44.05	4365	124.95	999	195.95	4884	290.70	117
45.05	376	126.95	88776	197.95	202944	292.90	856
49.10	786	128.05	8332	198.85	12801	293.80	279
50.10	21760	128.95	39088	200.00	372	295.95	9617
51.10	91712	129.95	2746	201.20	823	296.85	1078
52.10	5841	131.15	321	204.00	5539	300.85	143
53.00	141	132.25	155	205.00	8015	302.95	1115
54.00	235	132.75	187	206.00	34400	303.75	203
55.00	842	133.85	563	207.00	4033	304.95	182
56.00	3307	135.00	2562	207.90	916	307.70	270
57.00	6940	135.90	910	210.75	1809	310.00	163
57.90	391	136.90	1314	211.95	290	313.90	305
59.00	166	137.80	309	212.75	166	314.90	845
61.05	1334	139.30	324	214.85	447	320.95	360
62.05	1502	141.00	4184	216.85	9152	322.95	3481
63.05	4161	142.00	1581	217.95	980	323.95	702
63.95	791	142.90	1228	221.00	13486	326.95	500
65.05	1620	144.90	234	223.10	2216	327.85	257
65.95	129	145.95	498	224.00	20664	328.70	102
67.05	260	147.05	1405	224.90	6547	331.80	307
68.95	150208	147.95	4643	226.00	1054	332.90	266
70.00	314	148.95	585	226.90	7056	333.90	1639
73.00	726	149.95	280	228.00	1122	335.10	202
74.00	8447	151.05	463	228.90	2397	335.80	196
75.00	15008	151.55	503	229.90	390	338.80	180
76.20	5712	152.05	415	230.80	473	340.95	413
77.00	100576	152.95	996	231.65	154	345.85	370

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	7056	153.95	636	232.55	170	348.45	105
79.00	5792	154.95	2349	233.85	274	351.90	1405
80.00	4464	155.95	2706	234.85	610	352.90	404
81.05	6022	156.90	672	235.75	436	354.00	1091
82.05	1530	157.90	873	236.85	354	354.90	111
83.05	1841	159.00	606	238.05	237	364.85	3632
83.75	249	159.90	1129	238.65	156	365.85	745
84.95	1489	161.00	1664	239.15	114	368.35	110
85.95	1436	161.80	812	239.85	269	371.90	1334
87.05	818	162.70	410	240.95	421	372.90	336
87.85	364	164.00	382	241.95	1516	377.30	102
88.75	236	164.90	1891	244.00	17488	382.85	745
90.95	1659	166.95	8194	245.00	2158	390.95	287
92.00	1084	167.85	4102	245.90	3187	391.75	205
93.00	11628	168.95	573	246.90	741	400.90	162
93.90	826	169.95	446	247.90	228	401.90	781
94.90	124	170.85	308	248.70	697	402.90	845
96.00	349	171.95	583	252.95	280	403.95	191
98.00	6657	173.15	699	254.95	80080	405.95	143
98.90	4911	173.95	1534	255.95	11952	410.75	128
101.00	3124	174.95	2950	257.85	5508	421.00	804
103.15	910	175.95	1194	258.85	513	421.90	1064
104.05	2102	176.85	1355	261.05	206	422.90	6620
104.95	1994	179.00	5989	262.75	252	424.70	111
106.95	22736	180.00	4604	264.80	1634	441.00	20832
107.95	3812	181.00	2308	266.00	146	441.90	132608
109.95	58608	181.90	411	270.80	193	442.90	22856
110.95	8684	183.00	292	273.00	2809	443.90	2053
111.95	1154	184.10	378	273.90	7711	449.85	138
113.10	388	185.00	3403	274.95	40944		
114.50	192	186.00	19888	275.95	5776		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

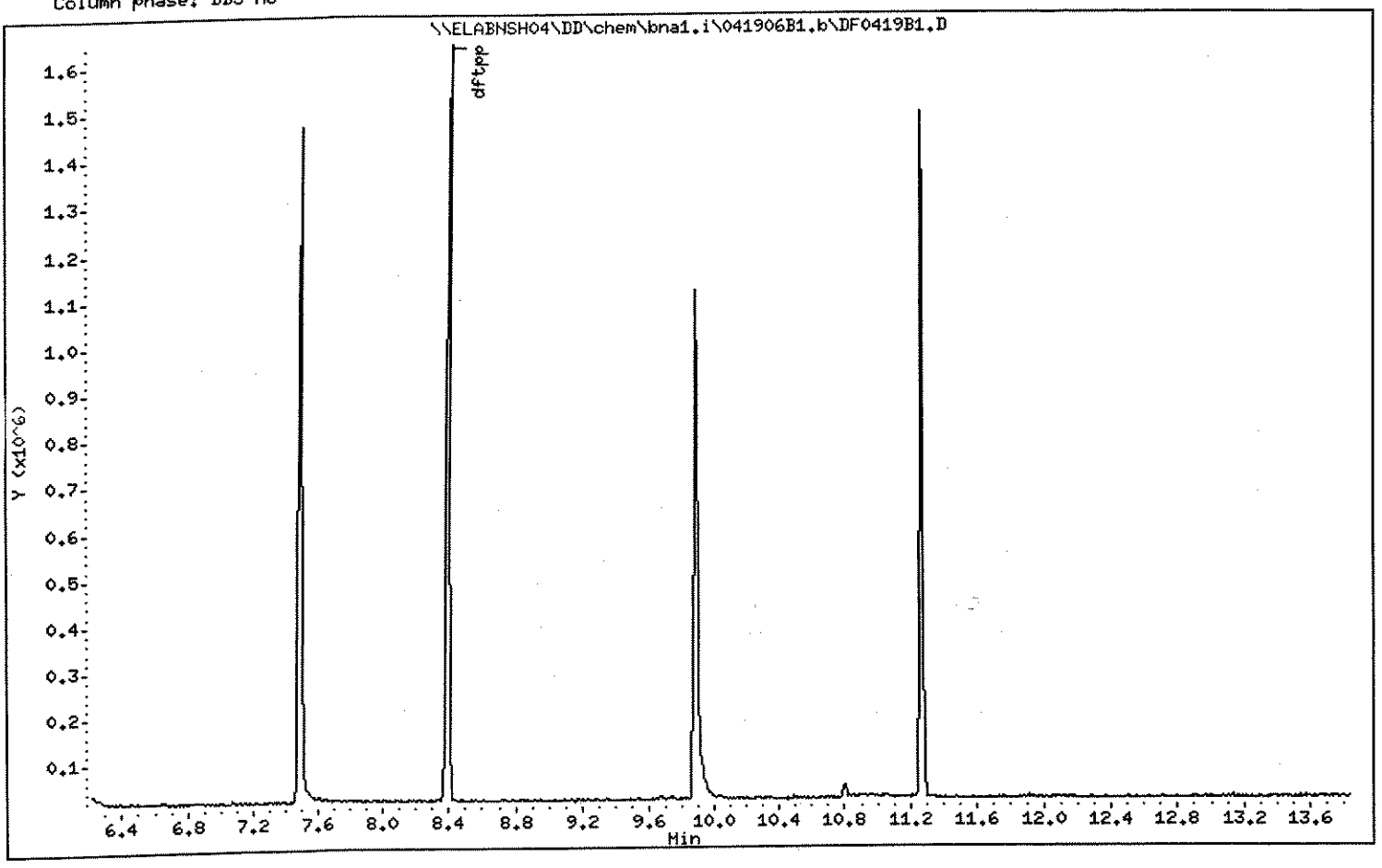
Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

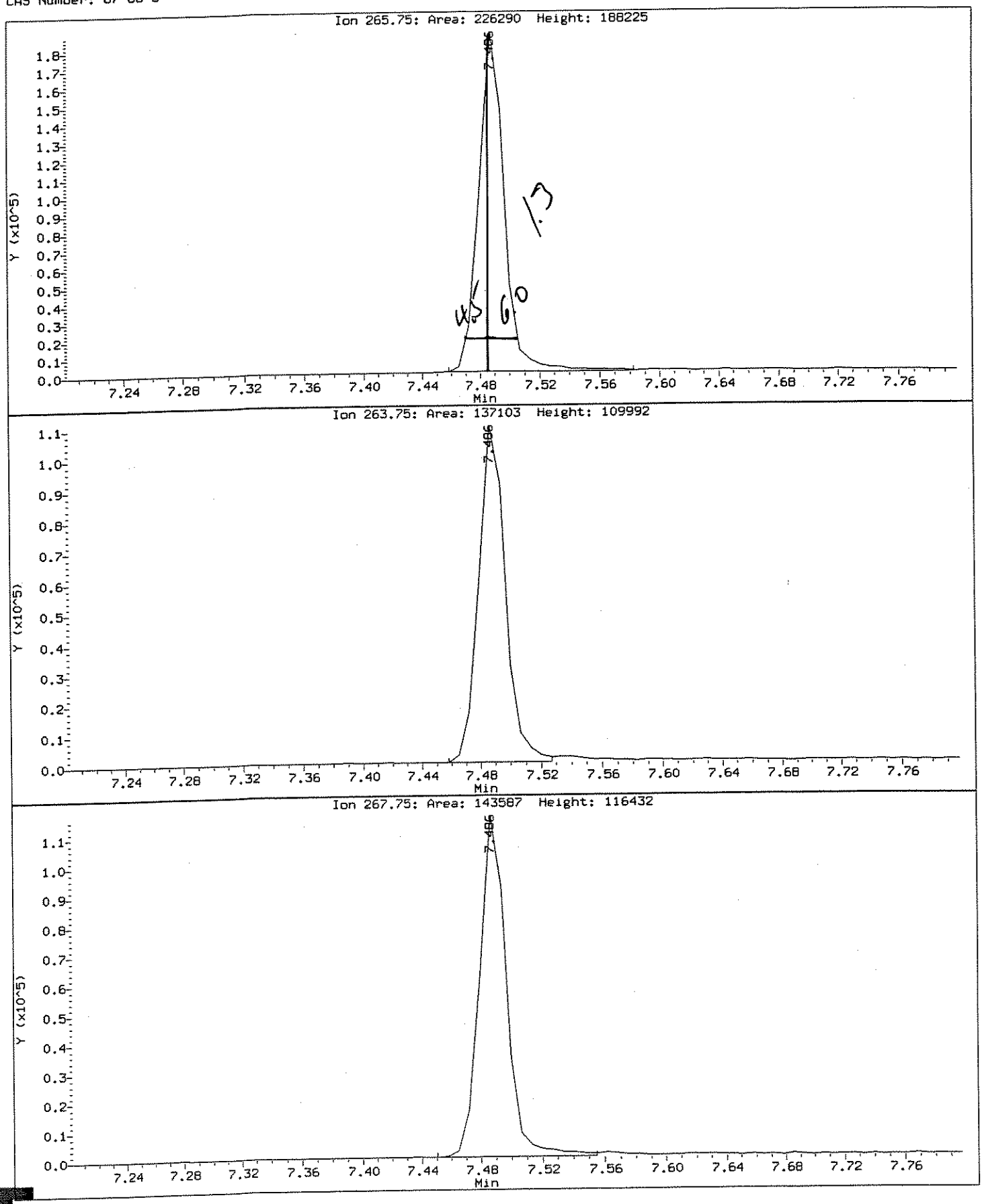
Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

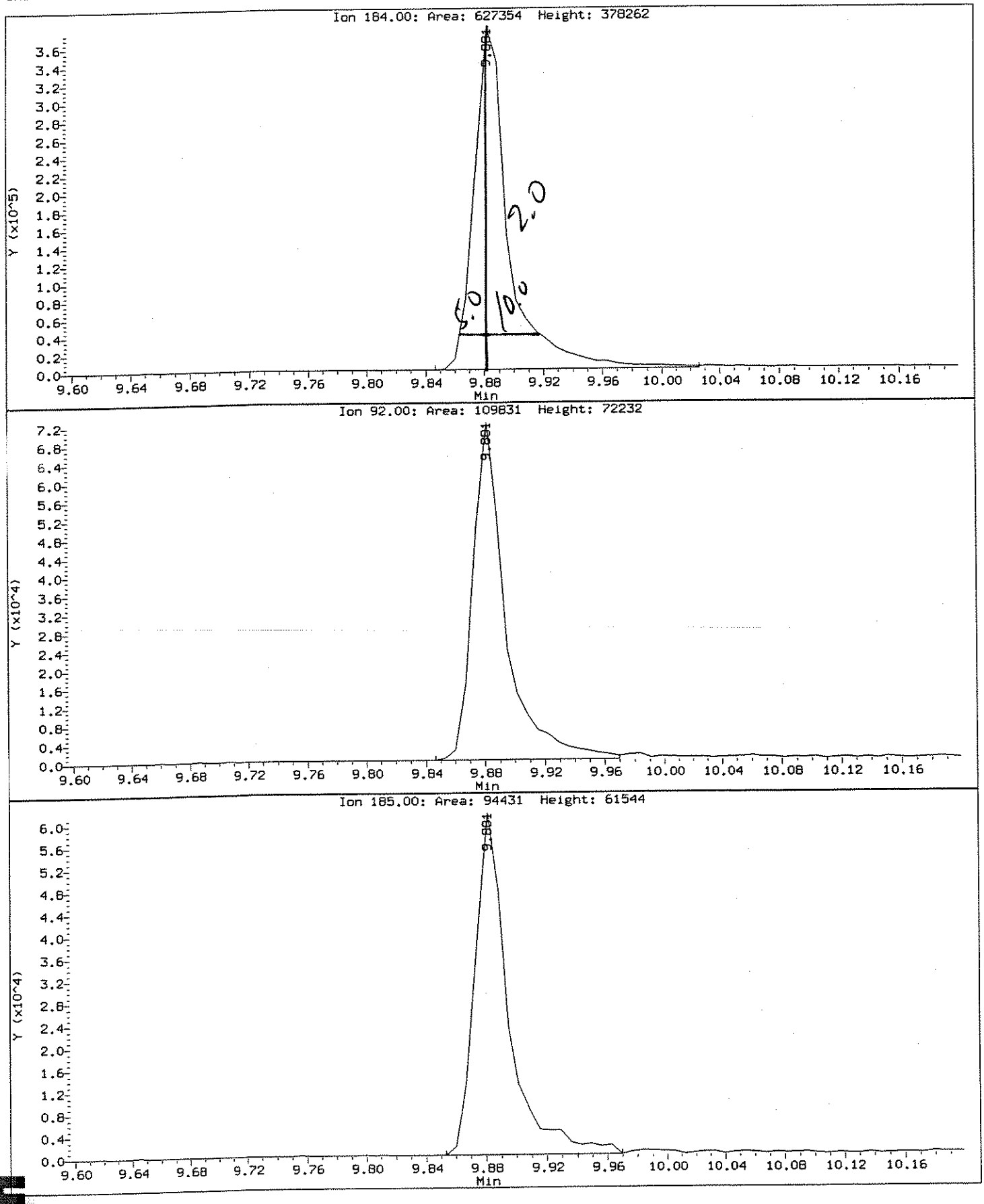
Compound: Pentachlorophenol
CAS Number: 87-86-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Report Date: 20-Apr-2006 14:22

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 19-APR-2006 15:30
Operator : ADM Inst ID: bna1.i
Smp Info : DF0419B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\dftppbn1ex.m
Meth Date : 17-Apr-2006 15:31 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	7.485	7.500	-0.015	226290			
2 Benzidine	184	9.880	9.900	-0.020	627354			(Q)
4 4,4'-DDD	235	10.800	10.800	0.000	7101			
5 4,4'-DDT	235	11.271	11.300	-0.029	331693			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

4,4'-DDT Breakdown = 7101 / (7101 + 331693) x 100 = 2.1%

5/20/06

ng/ul

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

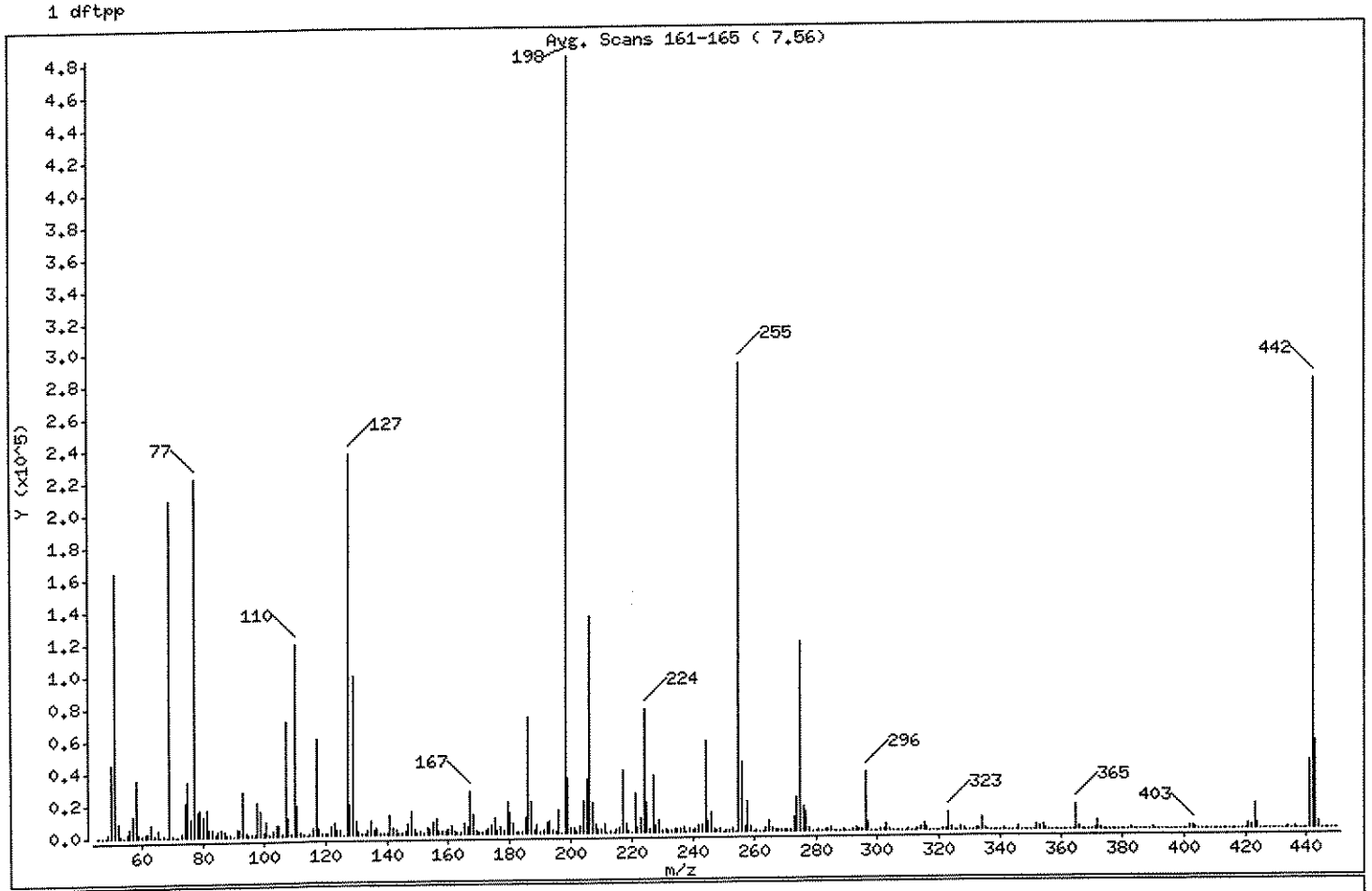
Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.09
68	Less than 2.00% of mass 69	0.05 (0.12)
69	Mass 69 relative abundance	43.24
70	Less than 2.00% of mass 69	0.33 (0.76)
127	40.00 - 60.00% of mass 198	49.03
197	Less than 1.00% of mass 198	0.04
199	5.00 - 9.00% of mass 198	7.08
275	10.00 - 30.00% of mass 198	24.47
365	Greater than 1.00% of mass 198	3.24
441	Present, but less than mass 443	8.75
442	Greater than 40.00% of mass 198	57.88
443	17.00 - 23.00% of mass 442	11.21 (19.36)

4/22/06

10412306

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	407	147.00	6498	249.00	1811	351.00	189
46.00	220	148.00	14562	250.00	373	352.00	2909
47.00	307	149.00	3024	251.00	924	353.00	1935
48.00	337	150.00	1001	252.00	1106	354.00	3210
49.00	1818	151.00	1860	253.00	2013	355.00	676
50.00	45616	152.00	1247	254.00	117	356.00	99
51.00	164672	153.00	4466	255.00	292160	357.00	83
52.00	8555	154.00	3633	256.00	43256	358.00	60
53.00	1462	155.00	7980	257.00	3090	359.00	407
54.00	508	156.00	10555	258.00	18672	360.00	130
55.00	2545	157.00	2283	259.00	2920	361.00	235
56.00	5449	158.00	2424	260.00	393	362.00	80
57.00	13015	159.00	2048	261.00	601	363.00	104
58.00	35320	160.00	3776	262.00	177	364.00	108
59.00	1715	161.00	6105	263.00	156	365.00	15658
60.00	682	162.00	2053	264.00	1703	366.00	1910
61.00	2635	163.00	891	265.00	7148	367.00	199
62.00	2576	164.00	1010	266.00	2659	368.00	61
63.00	7987	165.00	6396	267.00	645	369.00	47
64.00	1335	166.00	4023	268.00	1464	370.00	401
65.00	4027	167.00	26456	269.00	624	371.00	919
66.00	387	168.00	12742	270.00	863	372.00	5045
67.00	802	169.00	2343	271.00	885	373.00	1309
68.00	249	170.00	978	272.00	1483	374.00	163
69.00	208896	171.00	1360	273.00	8555	375.00	62
70.00	1579	172.00	2294	274.00	21160	376.00	60
71.00	524	173.00	3585	275.00	118208	377.00	377
72.00	372	174.00	5775	276.00	15980	378.00	86
73.00	2476	175.00	10261	277.00	11948	379.00	54
74.00	21592	176.00	2782	278.00	1809	380.00	10
75.00	34432	177.00	4841	279.00	326	381.00	56
76.00	11196	178.00	1919	280.00	166	382.00	15
77.00	222336	179.00	19672	281.00	704	383.00	1295
78.00	15033	180.00	13169	282.00	484	384.00	365
79.00	16624	181.00	7014	283.00	1607	385.00	146

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	12503	182.00	1168	284.00	791	386.00	63
81.00	17088	183.00	879	285.00	1959	387.00	124
82.00	4263	184.00	1464	286.00	545	388.00	89
83.00	4293	185.00	10039	287.00	183	389.00	157
84.00	949	186.00	71840	288.00	145	390.00	676
85.00	3459	187.00	19992	289.00	579	391.00	439
86.00	4815	188.00	2425	290.00	414	392.00	369
87.00	3024	189.00	5352	291.00	296	393.00	259
88.00	1055	190.00	1027	292.00	776	394.00	44
89.00	817	191.00	2767	293.00	2411	395.00	103
90.00	194	192.00	7043	294.00	670	396.00	58
91.00	4277	193.00	7798	295.00	1210	397.00	136
92.00	4413	194.00	1728	296.00	36264	398.00	54
93.00	27384	195.00	1570	297.00	5374	399.00	13
94.00	2133	196.00	14343	298.00	397	400.00	25
95.00	1492	197.00	181	299.00	160	401.00	348
96.00	1646	198.00	483072	300.00	146	402.00	1964
97.00	932	199.00	34208	301.00	778	403.00	2662
98.00	20968	200.00	2947	302.00	750	404.00	967
99.00	15993	201.00	3849	303.00	4586	405.00	179
100.00	2289	202.00	674	304.00	1125	406.00	48
101.00	9383	203.00	4373	305.00	268	407.00	33
102.00	804	204.00	20360	306.00	28	408.00	80
103.00	3527	205.00	33664	307.00	85	409.00	53
104.00	6557	206.00	134784	308.00	504	410.00	200
105.00	6223	207.00	19064	309.00	492	411.00	79
106.00	1181	208.00	5121	310.00	742	412.00	54
107.00	71768	209.00	1949	311.00	236	413.00	87
108.00	10894	210.00	2633	312.00	155	414.00	69
109.00	873	211.00	5656	313.00	558	415.00	206
110.00	119376	212.00	73	314.00	1694	416.00	116
111.00	18496	213.00	582	315.00	4052	417.00	123
112.00	2565	214.00	257	316.00	2511	418.00	117
113.00	963	215.00	1725	317.00	418	419.00	196
114.00	404	216.00	3354	318.00	106	420.00	71

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	828	217.00	38936	319.00	171	421.00	2794
116.00	4307	218.00	5228	320.00	175	422.00	2215
117.00	60544	219.00	599	321.00	1264	423.00	15940
118.00	4678	220.00	79	322.00	688	424.00	2968
119.00	1070	221.00	25016	323.00	11088	425.00	356
120.00	1327	222.00	2799	324.00	2091	426.00	203
121.00	680	223.00	8402	325.00	279	427.00	213
122.00	5220	224.00	76744	326.00	372	428.00	193
123.00	7639	225.00	19192	327.00	1735	429.00	232
124.00	3766	226.00	1998	328.00	1351	430.00	187
125.00	3229	227.00	35432	329.00	317	431.00	390
126.00	88	228.00	4956	330.00	56	432.00	450
127.00	236864	229.00	7347	331.00	122	433.00	300
128.00	19336	230.00	1218	332.00	791	434.00	687
129.00	99104	231.00	2742	333.00	1181	435.00	135
130.00	8870	232.00	769	334.00	7843	436.00	1008
131.00	2332	233.00	800	335.00	1473	437.00	551
132.00	1369	234.00	2465	336.00	237	438.00	554
133.00	1139	235.00	2535	337.00	68	439.00	431
134.00	3457	236.00	1728	338.00	98	440.00	24
135.00	9254	237.00	2819	339.00	212	441.00	42248
136.00	2956	238.00	501	340.00	233	442.00	279616
137.00	3939	239.00	1855	341.00	1371	443.00	54144
138.00	1053	240.00	1375	342.00	405	444.00	4554
139.00	755	241.00	2345	343.00	172	445.00	328
140.00	1509	242.00	4305	344.00	78	446.00	68
141.00	12792	243.00	4434	345.00	105	447.00	70
142.00	4240	244.00	56984	346.00	2139	448.00	18
143.00	3538	245.00	7193	347.00	472	449.00	25
144.00	907	246.00	12419	348.00	86	450.00	13
145.00	748	247.00	2599	349.00	53		
146.00	2421	248.00	623	350.00	128		

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

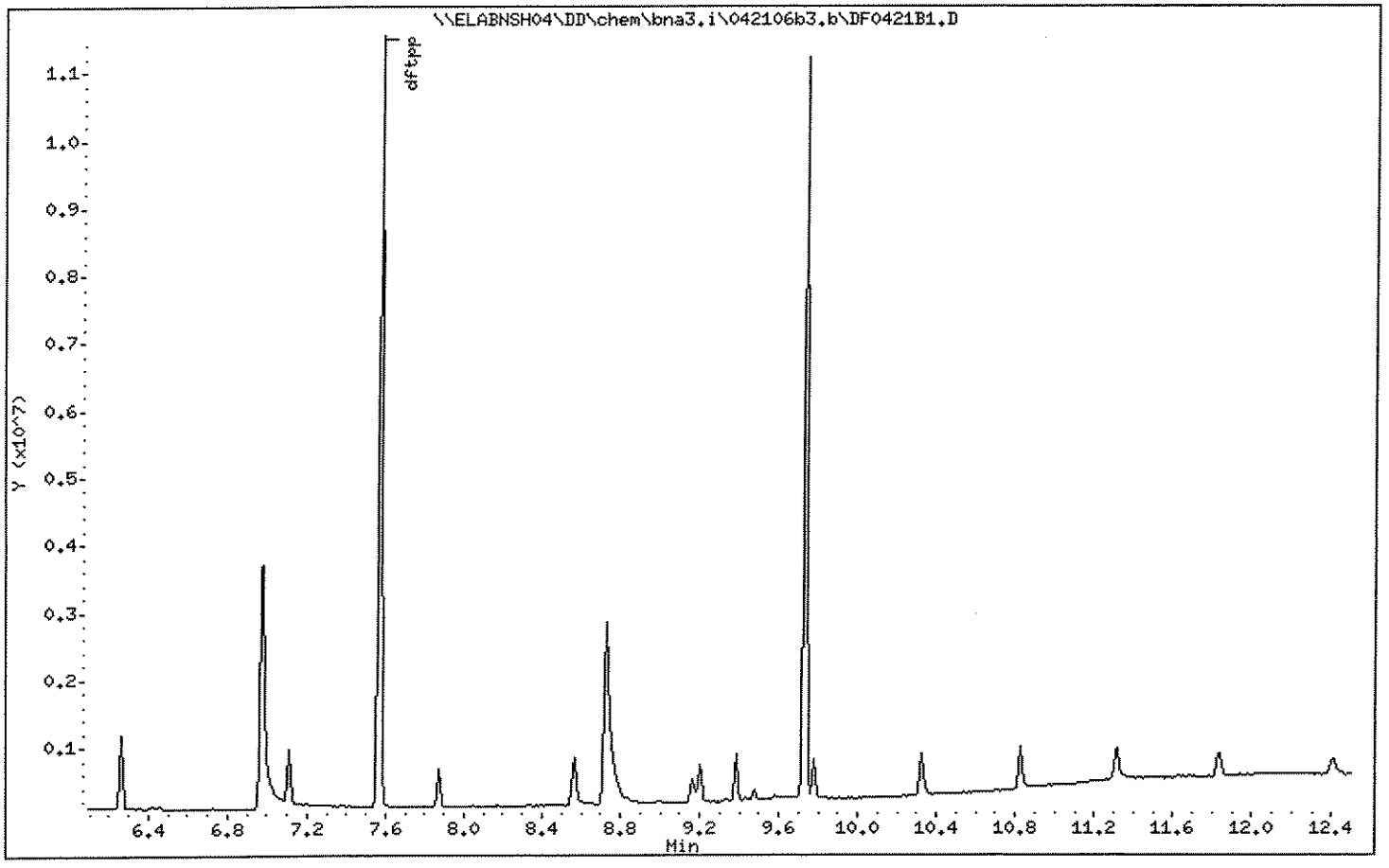
Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

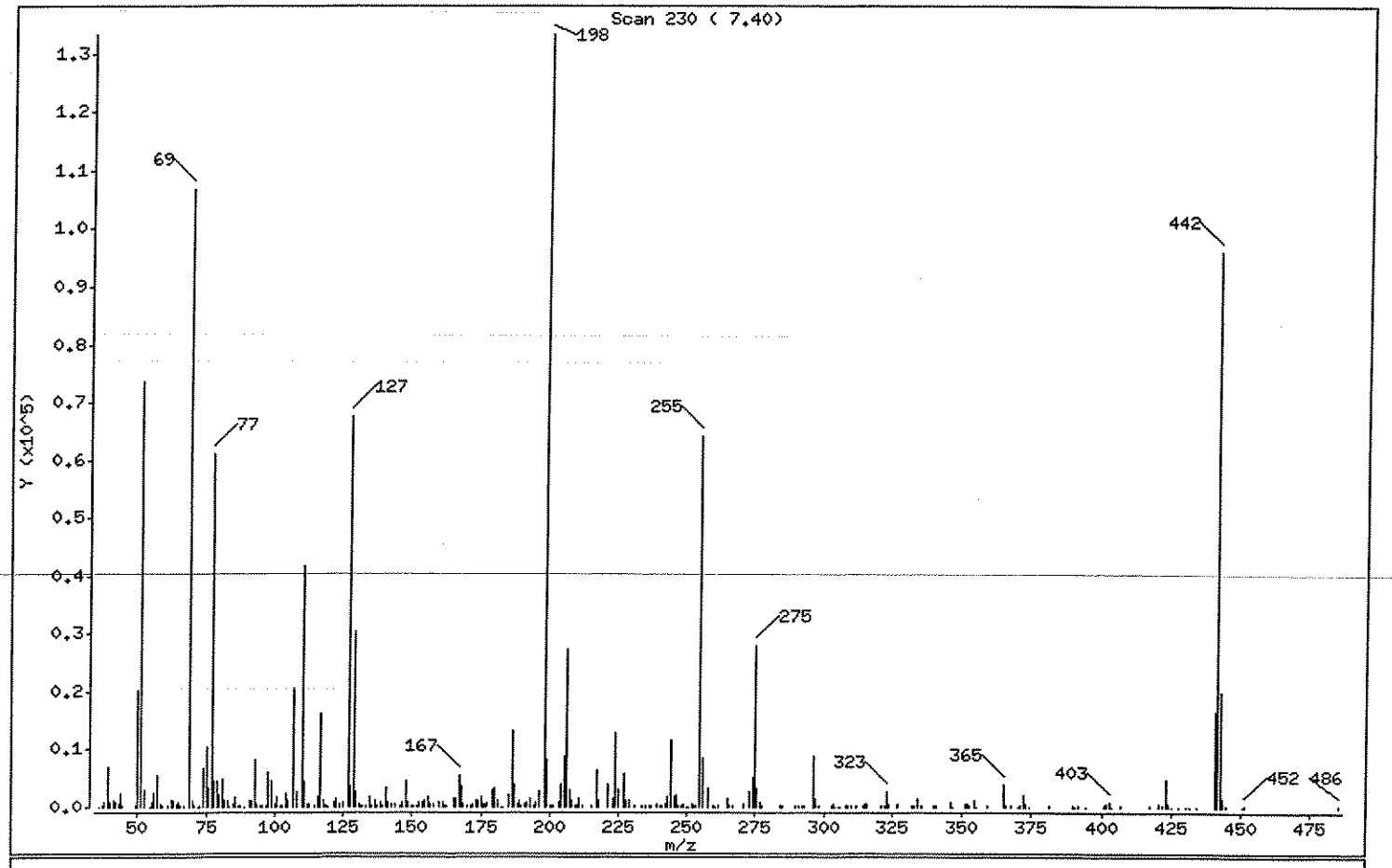
Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	55.37
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	80.30
70	Less than 2.00% of mass 69	1.03 (1.28)
127	40.00 - 60.00% of mass 198	50.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 30.00% of mass 198	21.04
365	Greater than 1.00% of mass 198	3.07
441	Present, but less than mass 443	12.39
442	Greater than 40.00% of mass 198	72.04
443	17.00 - 23.00% of mass 442	15.04 (20.87)

7/11/06

7/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.60	115	118.00	1218	194.80	860	297.80	323
37.05	360	118.80	161	195.90	2723	302.20	297
37.95	950	119.10	161	197.90	133312	302.90	531
39.05	6979	119.85	135	198.90	8356	304.10	129
39.95	854	122.15	1026	199.90	318	305.30	116
41.05	1287	122.85	1549	200.90	313	306.00	122
42.05	813	123.95	626	201.60	169	307.65	258
43.05	512	124.95	1006	203.10	1042	308.65	238
43.95	2497	126.95	67680	204.05	4034	309.55	282
44.75	321	127.85	3759	205.05	8781	311.55	211
48.80	352	128.95	30520	205.95	27440	314.05	411
50.00	20216	129.95	2901	207.05	3215	314.75	732
51.00	73816	130.90	568	207.85	1199	315.75	729
52.00	3028	131.80	338	209.05	333	320.70	354
54.10	109	132.40	302	209.95	169	321.90	277
55.00	911	133.90	425	210.85	1428	322.90	2731
55.90	2322	135.00	1810	211.85	157	323.70	717
56.90	5387	135.60	215	215.00	262	326.80	465
58.15	464	137.00	1188	216.90	6602	332.05	314
59.05	412	137.90	380	217.80	1241	332.85	340
61.05	398	138.80	821	220.90	3911	333.85	1445
61.85	1356	139.70	218	222.80	1680	335.55	160
62.95	1279	140.95	3280	223.90	12838	339.90	267
64.05	560	141.85	920	224.95	3179	340.80	175
64.95	941	142.95	675	226.85	5809	346.00	857
65.65	300	144.05	584	227.95	1109	346.80	151
66.75	158	146.05	313	228.85	1233	350.95	727
68.90	107048	146.75	1062	230.85	425	351.95	512
69.90	1368	147.95	4554	233.65	408	352.55	354
70.90	154	149.05	956	234.80	322	354.05	1092
72.00	119	149.85	246	235.90	297	355.25	132
73.00	414	150.95	389	236.90	419	358.75	315
74.00	6713	151.90	191	239.00	508	364.80	4092
75.00	10361	152.90	972	239.80	154	365.80	330
76.10	3234	154.10	1045	240.90	433	367.50	163

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	61208	154.90	1373	241.90	607	370.05	126
78.00	4567	155.90	1960	243.00	1903	370.75	420
78.95	4567	156.90	531	243.90	11629	371.95	2007
79.95	2276	157.80	483	245.05	1989	372.85	592
80.95	5066	159.70	871	245.85	2236	374.05	147
81.95	1307	161.00	984	246.75	395	381.30	161
82.95	1225	161.95	448	247.85	168	390.00	258
83.65	122	162.95	371	248.75	495	390.50	146
84.85	617	165.05	1485	249.65	112	392.05	273
85.85	1794	165.95	1499	250.85	110	394.65	123
86.95	347	166.95	5418	251.85	574	400.85	332
88.05	250	167.95	3738	252.45	280	401.90	558
88.90	127	168.75	652	253.05	374	402.90	906
90.90	1237	169.95	319	254.85	64096	403.70	121
92.00	1210	171.05	194	255.90	8590	407.00	227
92.90	8333	171.75	558	257.90	3318	417.25	189
94.00	578	173.00	1344	259.70	200	420.95	684
95.00	386	173.90	1106	260.70	130	421.75	432
95.70	202	175.00	1948	262.00	158	423.00	4982
96.70	397	175.60	582	264.90	1472	423.90	628
97.90	6280	176.30	727	265.75	227	425.60	132
98.90	4631	177.00	987	266.75	167	428.00	109
100.05	510	178.80	3179	270.95	666	430.60	100
100.85	1778	179.90	3261	272.85	2747	431.60	123
102.35	275	180.90	1229	273.95	5109	434.15	152
102.75	242	182.45	117	274.85	28048	440.95	16512
103.95	2412	182.95	115	275.85	3252	441.95	96040
104.85	1222	184.95	2223	276.90	920	443.00	20048
106.95	20552	185.95	13087	277.80	315	443.80	1645
107.85	2700	186.85	4023	283.90	322	444.70	161
110.00	41840	188.05	605	284.70	209	450.60	139
111.00	4478	188.85	1085	289.05	178	451.70	197
111.90	521	189.85	158	290.75	171	486.00	304
113.00	531	190.95	637	291.85	175		
115.00	192	191.85	953	292.75	386		

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0710B1.D
Spectrum: Scan 230 (7.40)
Location of Maximum: 197.90
Number of points: 284

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.10	1858	193.00	1508	295.85	8854		
116.90	16293	194.00	309	296.75	1394		

Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\071006B1.b\DF0710B1.D

Date : 10-JUL-2006 08:14

Client ID: 50ppm DFTPP

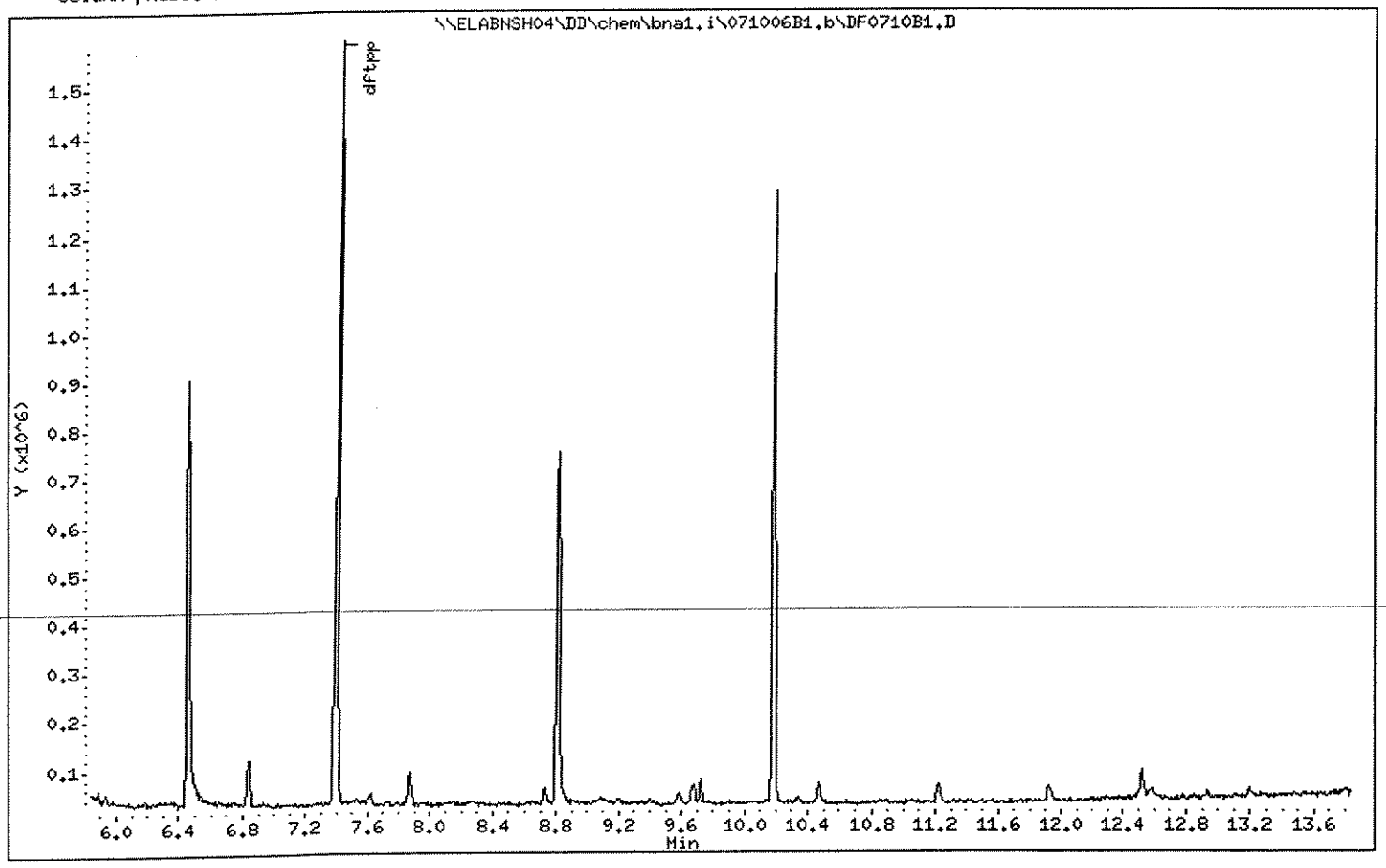
Instrument: bna1.i

Sample Info: DF0710B1;;;;;SV3529

Operator: SDB

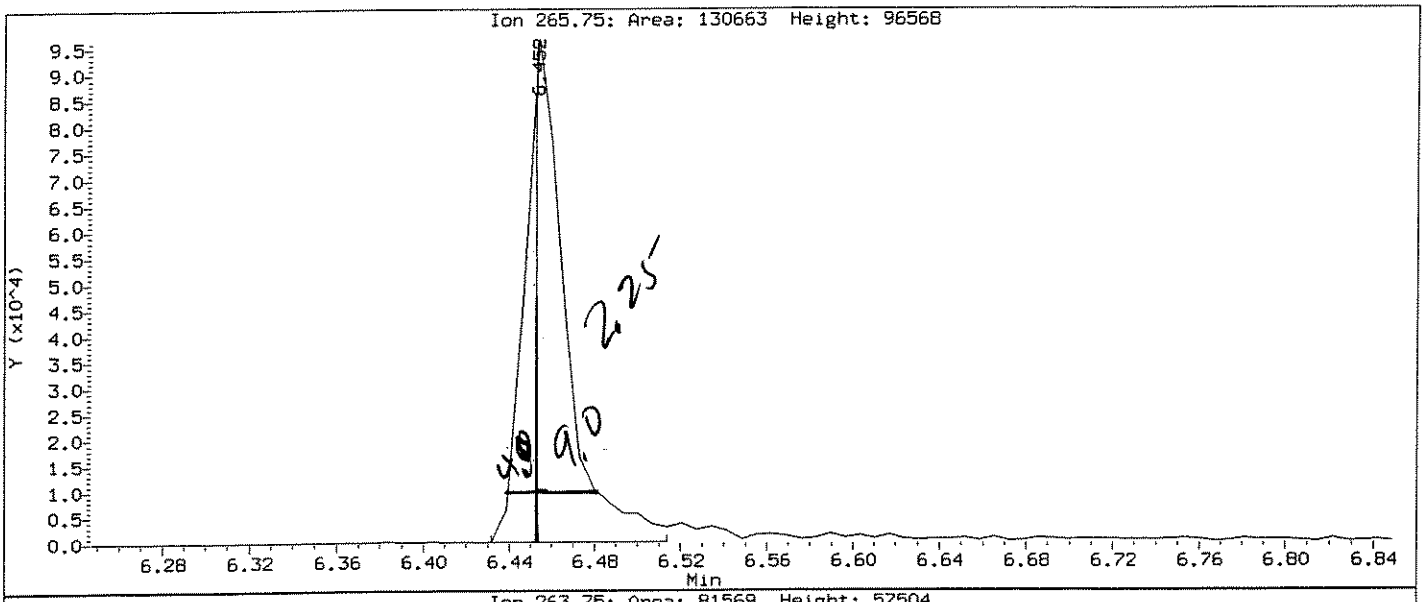
Column phase: DB5-MS

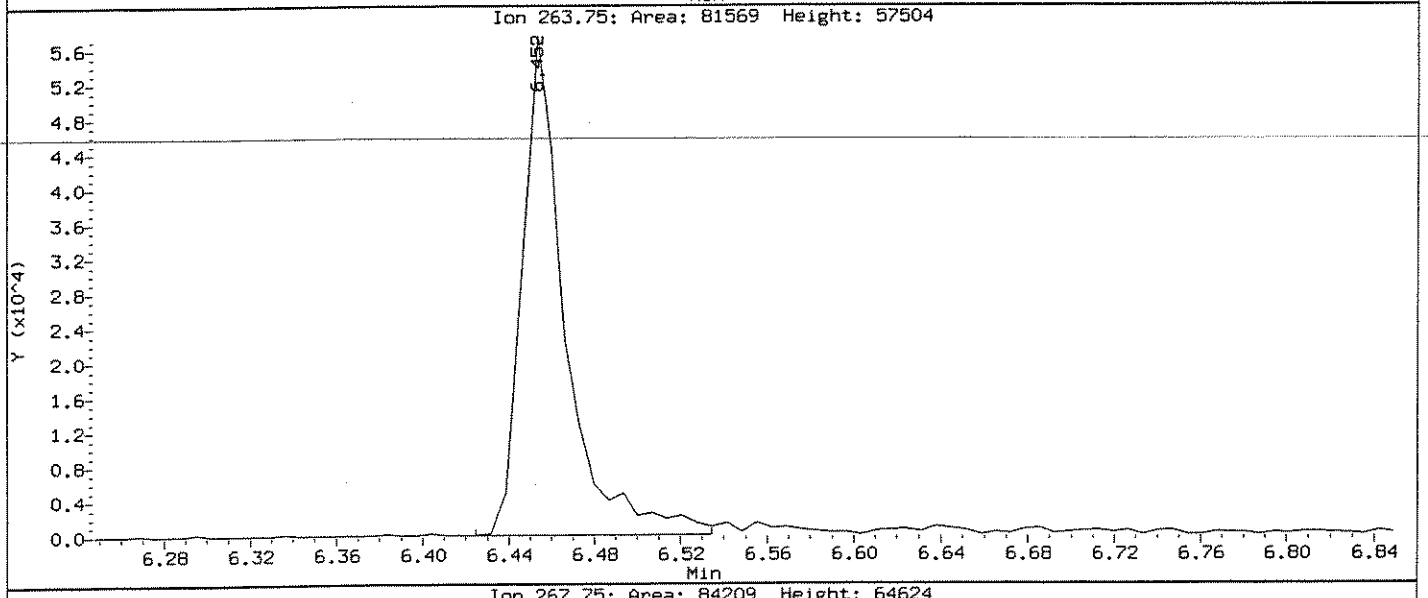
Column diameter: 0.25

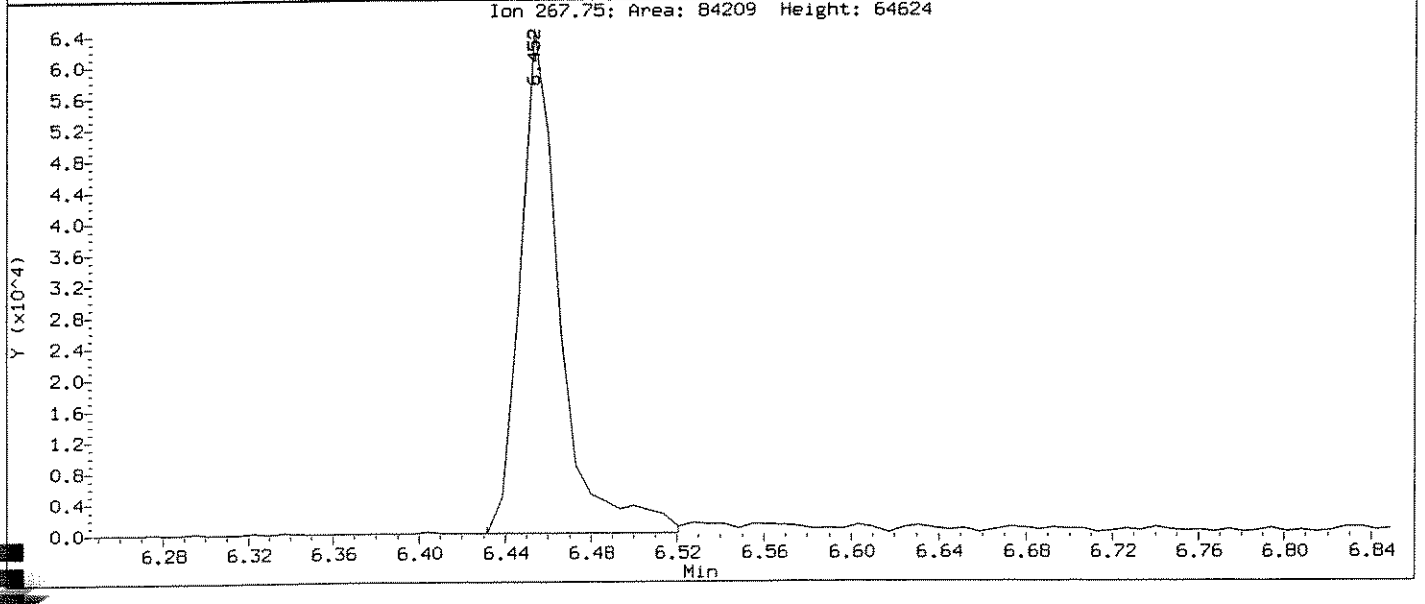


Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Injection Date: 10-JUL-2006 08:14
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

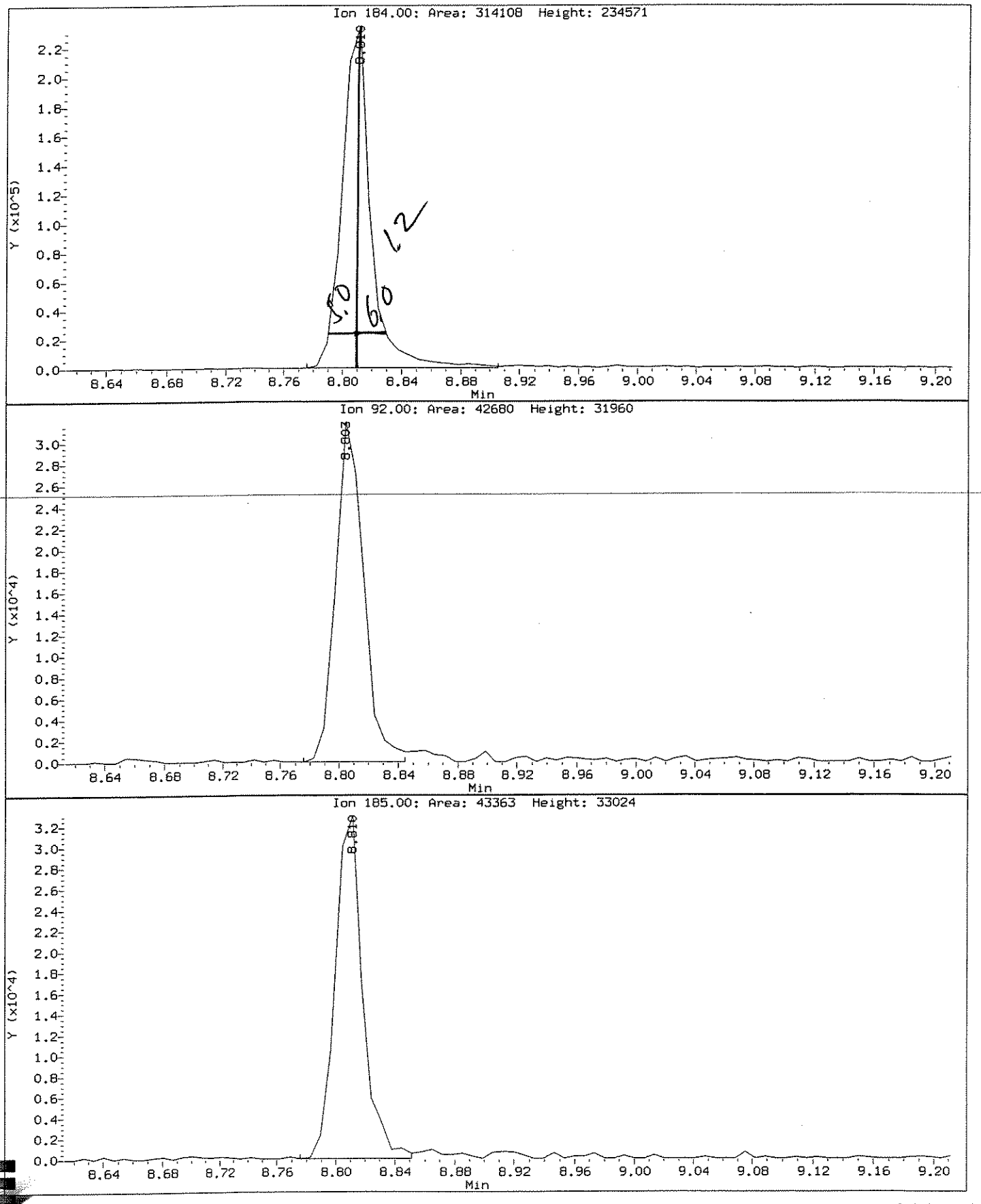






Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Injection Date: 10-JUL-2006 08:14
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Report Date: 11-Jul-2006 11:01

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\DF0710B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 10-JUL-2006 08:14
Operator : SDB Inst ID: bna1.i
Smp Info : DF0710B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\dftppbn1ex.m
Meth Date : 06-Jul-2006 07:46 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.452	6.550	-0.098	130663			(H)
2 Benzidine	184	8.809	8.910	-0.101	314108			(QH)
4 4,4'-DDD	235	9.722	9.830	-0.108	9352			(H)
5 4,4'-DDT	235	10.184	10.290	-0.106	264426			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

4,4'-DDT Breakdown = $\frac{0+9352}{0+9352+264426} \times 100 = 3.4\%$

pf 7/11/06

pf 7/11/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

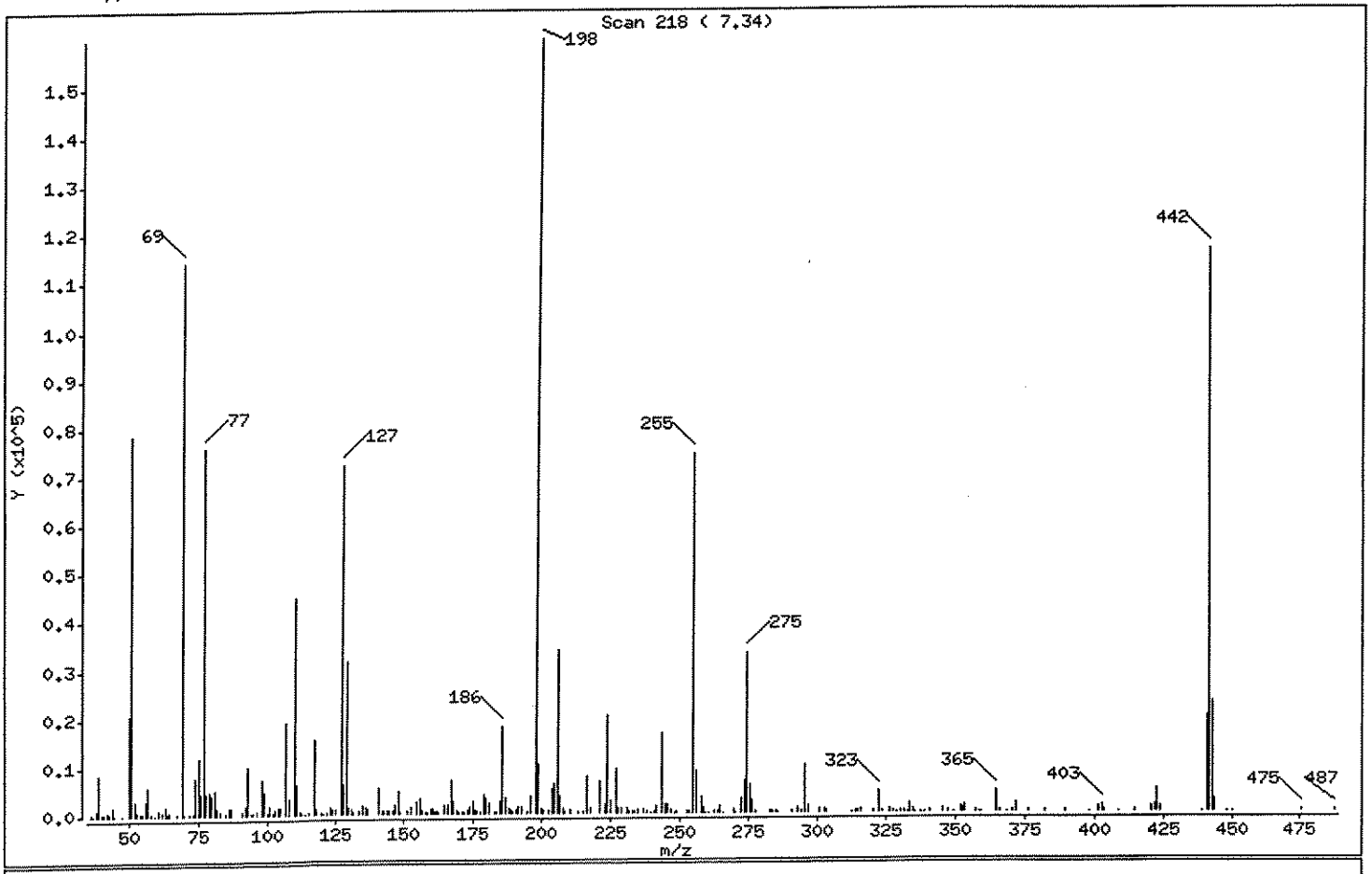
Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.15
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.46
70	Less than 2.00% of mass 69	0.29 (0.41)
127	40.00 - 60.00% of mass 198	45.18
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 30.00% of mass 198	20.83
365	Greater than 1.00% of mass 198	2.72
441	Present, but less than mass 443	12.44
442	Greater than 40.00% of mass 198	72.83
443	17.00 - 23.00% of mass 442	14.22 (19.53)

7/12/06

7/12/06

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Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0711B1.D
Spectrum: Scan 218 (7.34)
Location of Maximum: 197.90
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	428	116.90	15638	192.90	1611	290.75	208
37.15	154	117.80	1134	194.80	219	292.85	1152
37.95	984	119.85	262	195.90	3675	294.05	317
38.95	8333	120.75	132	197.90	159872	295.85	10024
40.05	538	122.05	343	198.80	10332	296.85	1485
40.65	296	122.95	1535	199.90	1166	301.10	582
42.05	777	123.75	1072	201.00	703	302.90	888
42.85	427	124.85	1000	202.80	657	303.80	191
44.05	1937	126.95	72232	203.95	5109	313.05	167
44.85	108	127.95	6125	204.95	6333	313.75	377
47.70	142	128.85	31792	205.95	33840	314.85	499
50.00	20496	129.85	1344	206.95	3654	315.95	592
51.00	78576	131.00	1032	207.85	1092	320.80	493
52.00	2810	131.90	202	208.75	425	322.80	4366
52.90	572	133.90	813	210.85	888	323.70	220
53.70	433	135.00	1926	213.35	430	326.80	813
54.80	373	136.10	1494	215.00	297	327.80	271
55.90	3011	136.90	1152	216.80	7585	329.05	147
56.90	5874	140.85	5479	218.10	997	330.35	225
58.25	435	141.95	857	220.90	6457	331.85	236
59.05	142	142.75	803	223.00	1767	332.85	155
60.85	935	144.05	686	223.90	20272	333.85	1937
62.05	737	144.85	622	224.95	2483	334.85	722
62.95	1886	145.95	693	226.85	9102	335.45	132
63.95	391	146.95	1960	227.85	1052	337.45	184
64.75	779	147.95	4858	228.85	1188	339.00	145
66.95	401	148.75	548	230.85	935	340.80	253
69.00	114248	151.10	742	231.75	371	345.90	749
69.80	467	152.90	1394	233.25	409	347.70	282
71.80	242	155.00	2638	233.95	299	349.65	103
72.80	403	155.90	3337	234.90	920	351.95	1042
73.90	7648	156.90	840	237.00	558	352.65	774
74.90	11758	157.90	458	238.60	247	353.85	1352
76.00	4478	158.90	385	239.70	111	357.65	216
77.00	76056	159.90	1268	241.00	286	358.55	129

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0711B1.D
Spectrum: Scan 218 (7.34)
Location of Maximum: 197.90
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4503	160.80	1022	241.90	1356	359.25	138
78.95	4830	161.40	462	243.90	16744	364.80	4353
79.95	4023	162.05	564	244.95	1886	365.90	443
80.95	5010	162.85	333	245.85	1948	368.80	141
81.95	1508	164.75	1675	246.85	609	370.35	146
82.95	888	166.15	1977	247.95	123	370.95	411
84.95	508	166.95	6883	248.65	414	372.05	1870
85.95	1360	167.85	2715	252.65	300	376.85	203
86.85	1385	168.95	661	253.25	319	382.60	405
90.70	624	169.95	428	254.85	74424	389.60	321
91.90	1695	170.85	448	255.90	8904	398.15	133
92.90	9779	171.90	457	257.90	3243	401.80	959
93.90	525	173.00	657	258.80	1244	402.80	1344
94.90	382	174.00	1445	259.70	147	403.80	334
96.00	677	175.00	2483	260.80	142	408.60	109
97.90	7357	176.10	572	262.90	246	414.95	203
98.90	4912	176.70	654	264.10	338	420.85	1130
99.95	264	177.80	529	264.90	1578	421.85	1344
100.85	1989	178.80	3978	266.25	175	422.90	4899
102.15	233	179.90	3261	269.95	594	423.90	1155
102.95	1120	180.80	2085	270.55	109	439.05	119
103.95	1419	182.75	392	272.85	2951	440.95	19888
104.85	1323	183.75	332	273.95	6621	441.85	116440
106.95	19296	184.95	2747	274.85	33296	442.90	22736
107.95	3482	185.95	18024	275.85	6040	443.90	2426
110.00	45032	186.85	3492	276.80	2440	448.30	112
110.90	6315	188.15	1225	277.90	382	450.00	124
112.00	605	188.75	846	283.20	341	475.05	203
112.90	301	189.75	224	283.70	329	487.50	280
114.10	115	190.95	885	284.80	425		
115.00	205	191.85	1559	285.90	100		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1.D

Date : 11-JUL-2006 09:23

Client ID: 50ppm DFTPP

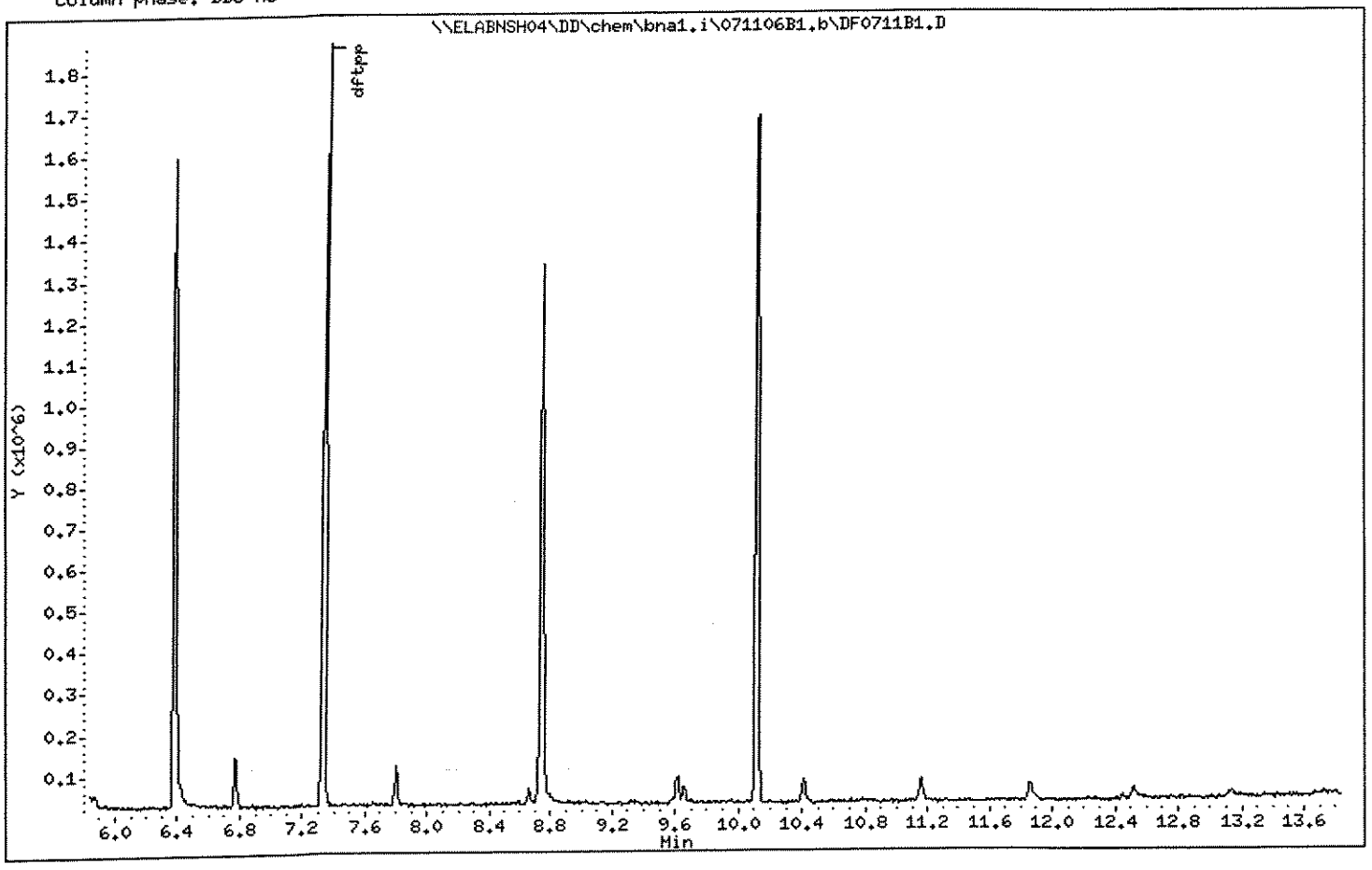
Instrument: bna1.i

Sample Info: DF0711B1;;;;;SV3529

Operator: SDB

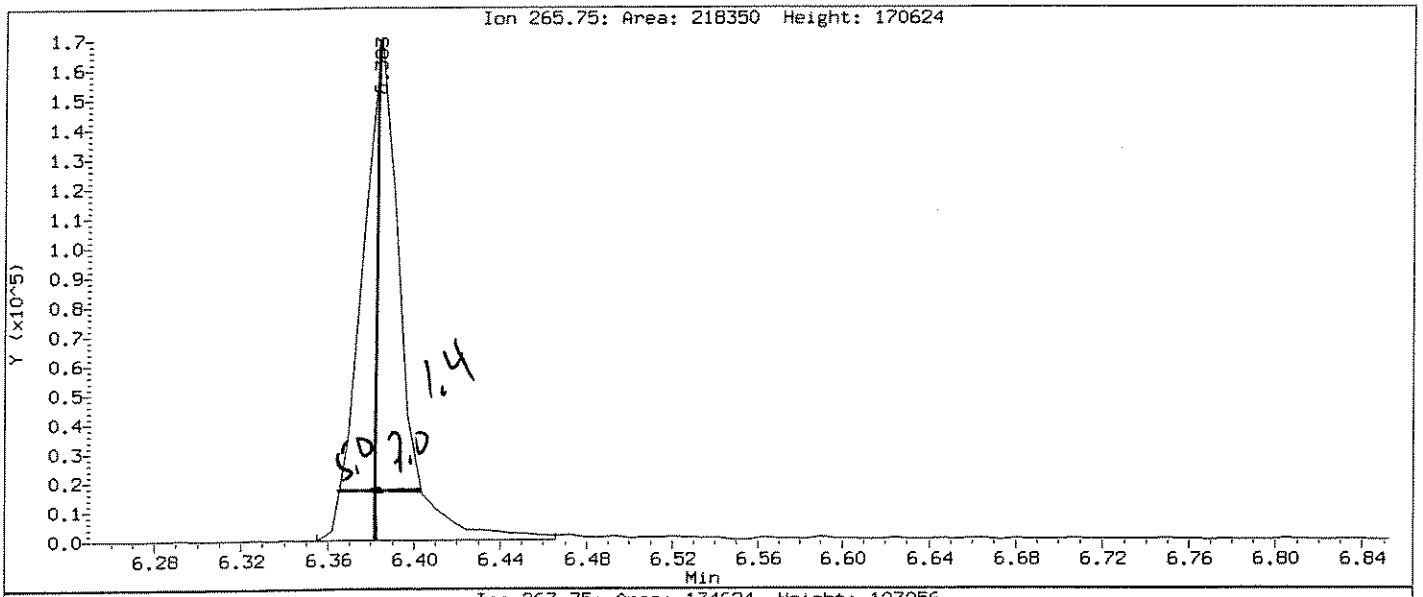
Column phase: DB5-MS

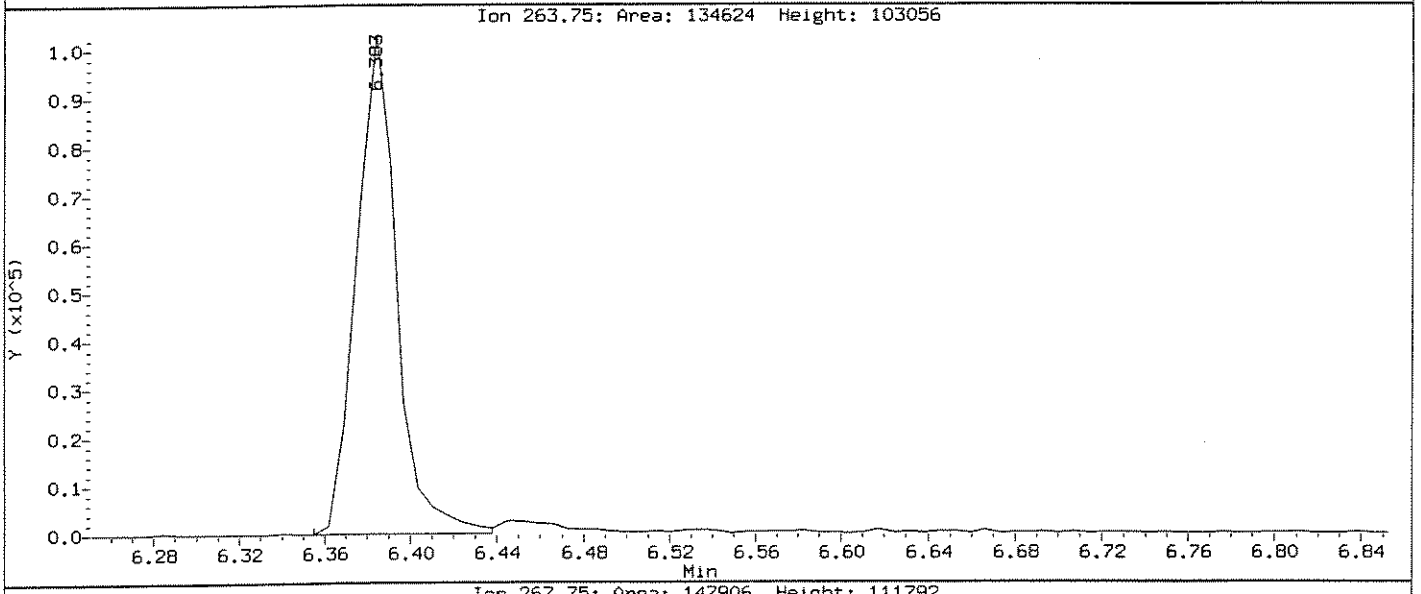
Column diameter: 0.25

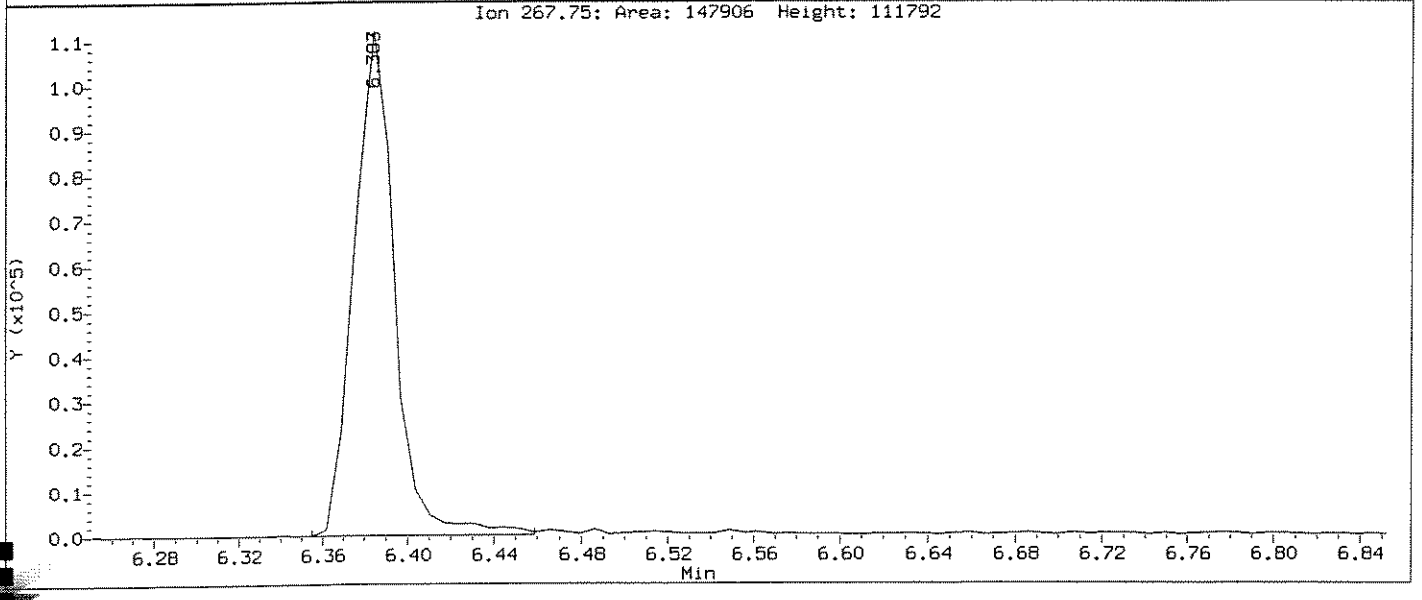


Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Injection Date: 11-JUL-2006 09:23
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

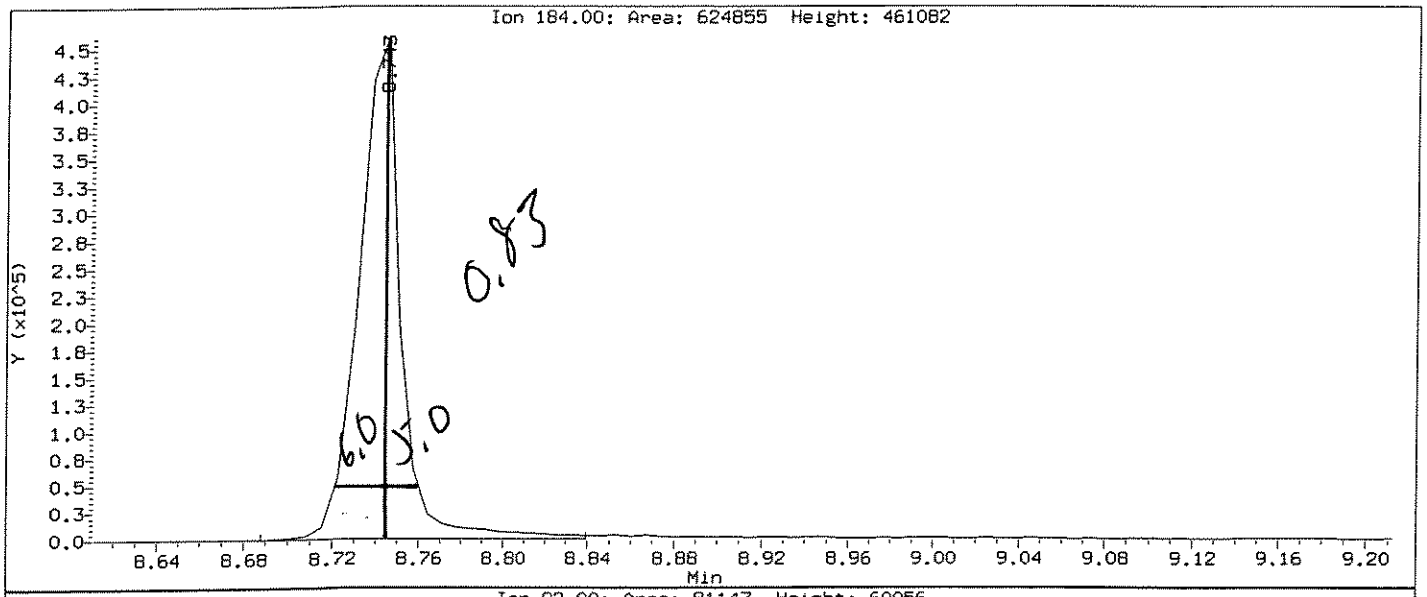


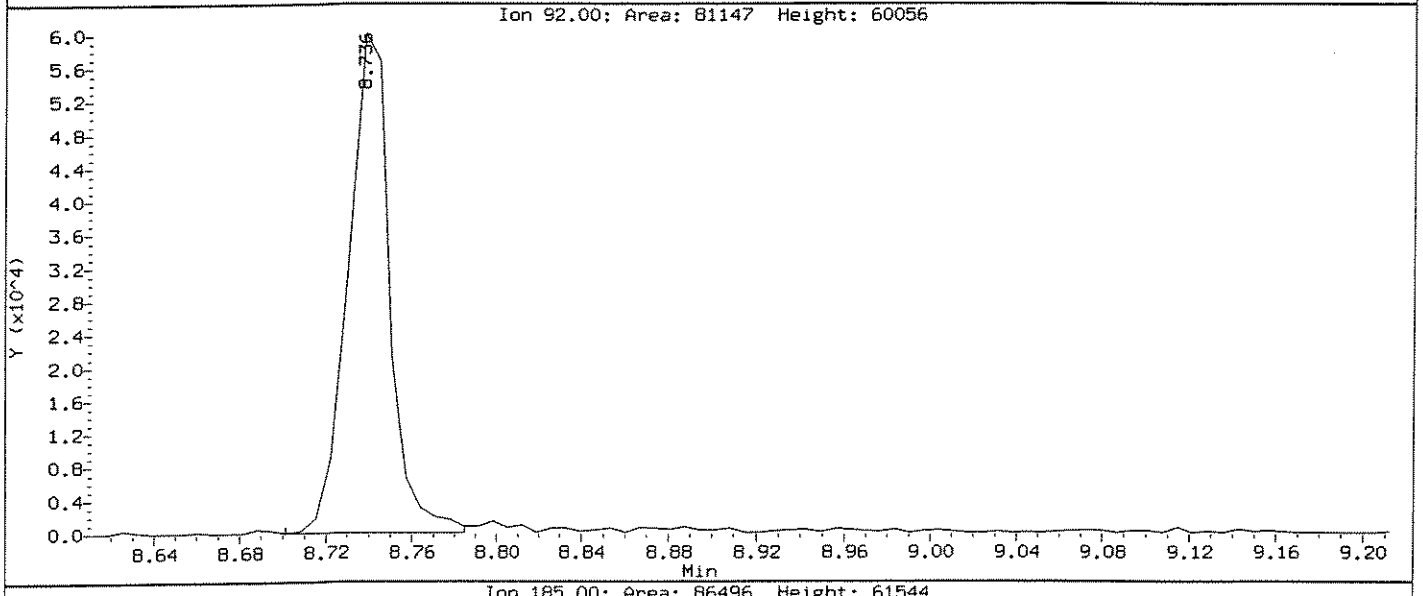


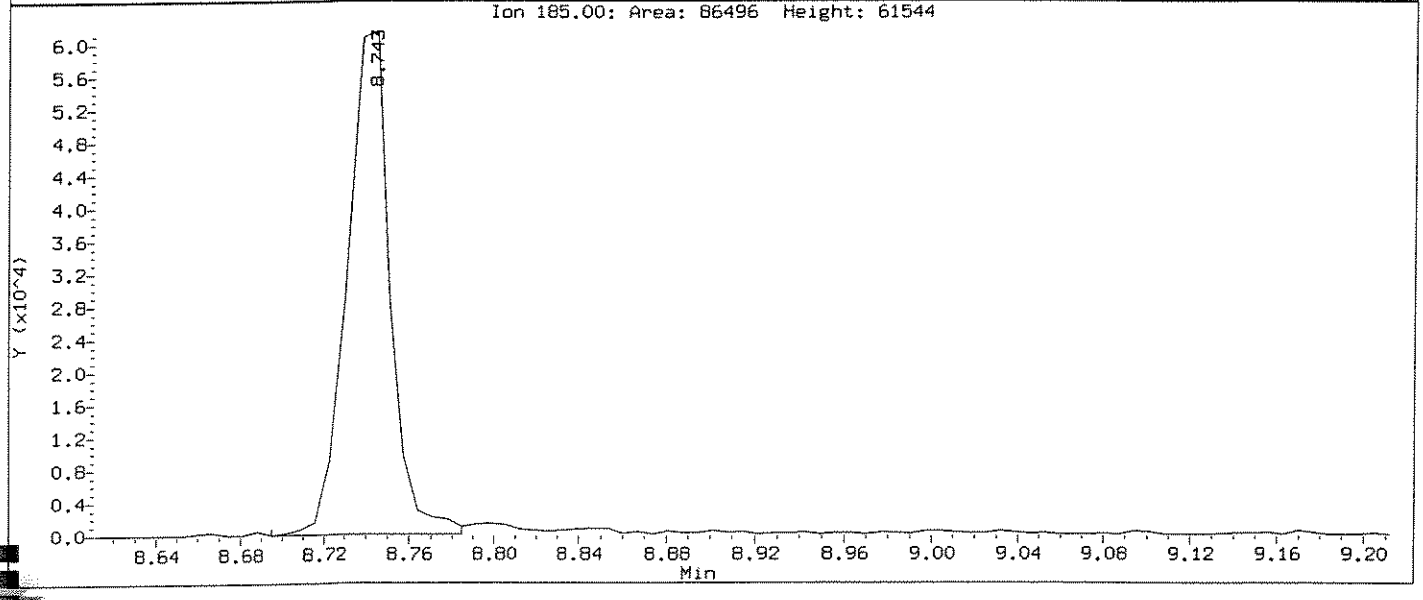


Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Injection Date: 11-JUL-2006 09:23
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Report Date: 12-Jul-2006 11:47

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\DF0711B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 11-JUL-2006 09:23
Operator : SDB Inst ID: bna1.i
Smp Info : DF0711B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\dftppbn1ex.m
Meth Date : 06-Jul-2006 07:46 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.382	6.550	-0.168	218350			(H)
2 Benzidine	184	8.742	8.910	-0.168	624855			(QH)
4 4,4'-DDD	235	9.656	9.830	-0.174	9671			(H)
5 4,4'-DDT	235	10.118	10.290	-0.172	377956			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

4,4'-DDT Breakdown = $\frac{0+9671}{0+9671+377956} \times 100 = 2.5\%$

7/12/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

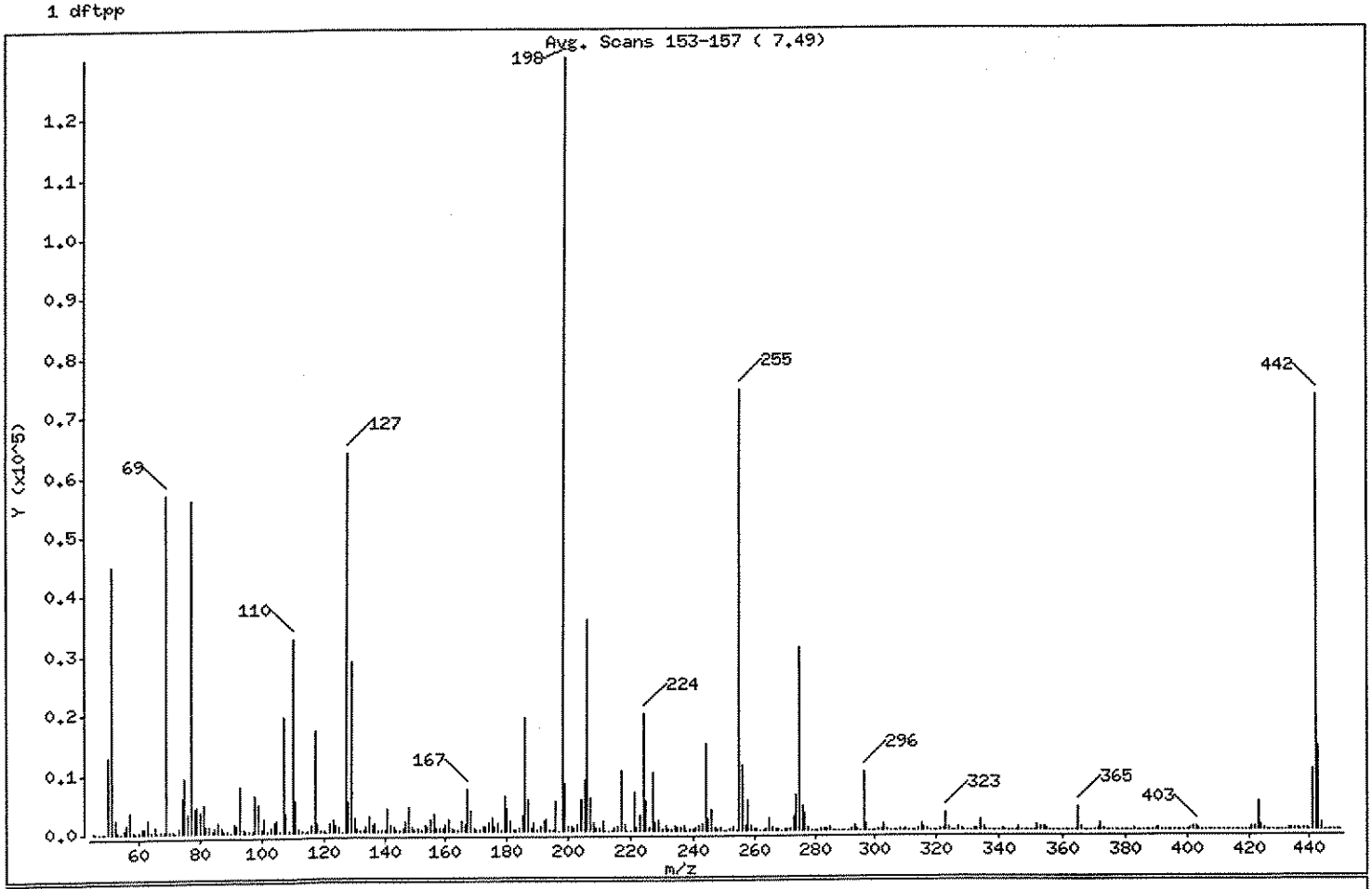
Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.60
68	Less than 2.00% of mass 69	0.15 (0.35)
69	Mass 69 relative abundance	43.74
70	Less than 2.00% of mass 69	0.29 (0.67)
127	40.00 - 60.00% of mass 198	49.02
197	Less than 1.00% of mass 198	0.07
199	5.00 - 9.00% of mass 198	6.29
275	10.00 - 30.00% of mass 198	23.77
365	Greater than 1.00% of mass 198	2.92
441	Present, but less than mass 443	7.83
442	Greater than 40.00% of mass 198	56.22
443	17.00 - 23.00% of mass 442	10.84 (19.28)

7/18/06

7/18/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D

Spectrum: Avg. Scans 153-157 (7.49)

Location of Maximum: 198.00

Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	181	147.00	1925	249.00	503	351.00	73
46.00	53	148.00	4150	250.00	105	352.00	918
47.00	94	149.00	872	251.00	137	353.00	547
48.00	115	150.00	199	252.00	205	354.00	666
49.00	108	151.00	470	253.00	531	355.00	208
50.00	12815	152.00	348	254.00	50	356.00	41
51.00	44960	153.00	1166	255.00	74264	357.00	48
52.00	2543	154.00	904	256.00	10992	358.00	50
53.00	223	155.00	2163	257.00	884	359.00	53
54.00	87	156.00	3109	258.00	5091	360.00	46
55.00	703	157.00	531	259.00	968	361.00	44
56.00	1611	158.00	734	260.00	226	362.00	54
57.00	3487	159.00	593	261.00	150	363.00	27
58.00	434	160.00	1222	262.00	48	364.00	16
59.00	127	161.00	1974	263.00	47	365.00	3791
60.00	208	162.00	600	264.00	394	366.00	634
61.00	852	163.00	282	265.00	2011	367.00	48
62.00	764	164.00	216	266.00	748	368.00	13
63.00	2259	165.00	1800	267.00	183	369.00	29
64.00	374	166.00	1302	268.00	324	370.00	147
65.00	1095	167.00	7143	269.00	134	371.00	253
66.00	125	168.00	3633	270.00	248	372.00	1178
67.00	258	169.00	703	271.00	229	373.00	331
68.00	200	170.00	291	272.00	256	374.00	43
69.00	56832	171.00	344	273.00	2291	375.00	51
70.00	378	172.00	796	274.00	5893	376.00	26
71.00	351	173.00	922	275.00	30888	377.00	103
72.00	98	174.00	1422	276.00	4321	378.00	9
73.00	978	175.00	2508	277.00	3047	379.00	24
74.00	6127	176.00	879	278.00	492	380.00	27
75.00	9295	177.00	1443	279.00	149	381.00	22
76.00	3225	178.00	223	280.00	51	382.00	33
77.00	55856	179.00	6114	281.00	149	383.00	378
78.00	4114	180.00	3862	282.00	150	384.00	136
79.00	4521	181.00	1720	283.00	367	385.00	79

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	3667	182.00	300	284.00	246	386.00	30
81.00	4828	183.00	196	285.00	497	387.00	26
82.00	1237	184.00	466	286.00	118	388.00	14
83.00	1127	185.00	2711	287.00	2	389.00	65
84.00	185	186.00	19208	288.00	41	390.00	168
85.00	924	187.00	5537	289.00	114	391.00	201
86.00	1665	188.00	680	290.00	63	392.00	106
87.00	862	189.00	1483	291.00	101	393.00	46
88.00	301	190.00	313	292.00	170	394.00	5
89.00	260	191.00	771	293.00	814	395.00	59
90.00	31	192.00	1685	294.00	309	396.00	10
91.00	1496	193.00	2217	295.00	136	397.00	20
92.00	1195	194.00	448	296.00	9873	398.00	23
93.00	7927	195.00	357	297.00	1330	399.00	16
94.00	659	196.00	4988	298.00	106	400.00	32
95.00	403	197.00	91	299.00	69	401.00	162
96.00	412	198.00	129928	300.00	44	402.00	579
97.00	251	199.00	8175	301.00	202	403.00	633
98.00	6282	200.00	848	302.00	228	404.00	299
99.00	4652	201.00	913	303.00	1069	405.00	35
100.00	482	202.00	518	304.00	264	406.00	17
101.00	2544	203.00	1345	305.00	69	407.00	23
102.00	304	204.00	5258	306.00	20	408.00	25
103.00	953	205.00	8767	307.00	30	409.00	29
104.00	1823	206.00	35576	308.00	178	410.00	29
105.00	1970	207.00	5579	309.00	109	411.00	5
106.00	161	208.00	1590	310.00	169	412.00	37
107.00	19344	209.00	543	311.00	59	413.00	19
108.00	3169	210.00	580	312.00	34	414.00	41
109.00	342	211.00	1664	313.00	122	415.00	35
110.00	32512	212.00	120	314.00	311	416.00	39
111.00	5463	213.00	142	315.00	1120	417.00	62
112.00	641	214.00	84	316.00	523	418.00	15
113.00	241	215.00	515	317.00	197	419.00	47
114.00	128	216.00	937	318.00	54	420.00	30

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0717B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	357	217.00	10166	319.00	7	421.00	624
116.00	1254	218.00	1238	320.00	84	422.00	623
117.00	17160	219.00	100	321.00	264	423.00	4749
118.00	1355	220.00	9	322.00	164	424.00	809
119.00	257	221.00	6715	323.00	2944	425.00	158
120.00	292	222.00	729	324.00	531	426.00	45
121.00	117	223.00	2547	325.00	134	427.00	48
122.00	1485	224.00	19688	326.00	99	428.00	37
123.00	1955	225.00	4973	327.00	539	429.00	119
124.00	1136	226.00	653	328.00	282	430.00	75
125.00	998	227.00	9835	329.00	81	431.00	106
126.00	33	228.00	1537	330.00	85	432.00	41
127.00	63696	229.00	1681	331.00	53	433.00	207
128.00	5116	230.00	289	332.00	188	434.00	185
129.00	28880	231.00	960	333.00	283	435.00	158
130.00	2467	232.00	281	334.00	1656	436.00	218
131.00	729	233.00	264	335.00	598	437.00	144
132.00	396	234.00	771	336.00	66	438.00	337
133.00	356	235.00	589	337.00	21	439.00	268
134.00	944	236.00	576	338.00	15	440.00	63
135.00	2649	237.00	803	339.00	52	441.00	10169
136.00	1051	238.00	123	340.00	33	442.00	73048
137.00	1366	239.00	439	341.00	275	443.00	14085
138.00	335	240.00	236	342.00	119	444.00	1330
139.00	227	241.00	505	343.00	34	445.00	111
140.00	431	242.00	1035	344.00	21	446.00	91
141.00	3791	243.00	1087	345.00	2	447.00	15
142.00	1237	244.00	14548	346.00	554	448.00	11
143.00	866	245.00	2191	347.00	120	449.00	19
144.00	243	246.00	3506	348.00	61	450.00	0.000
145.00	340	247.00	721	349.00	7		
146.00	737	248.00	272	350.00	28		

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\DF0717B1.D

Date : 17-JUL-2006 12:57

Client ID: 10ppm DFTPP

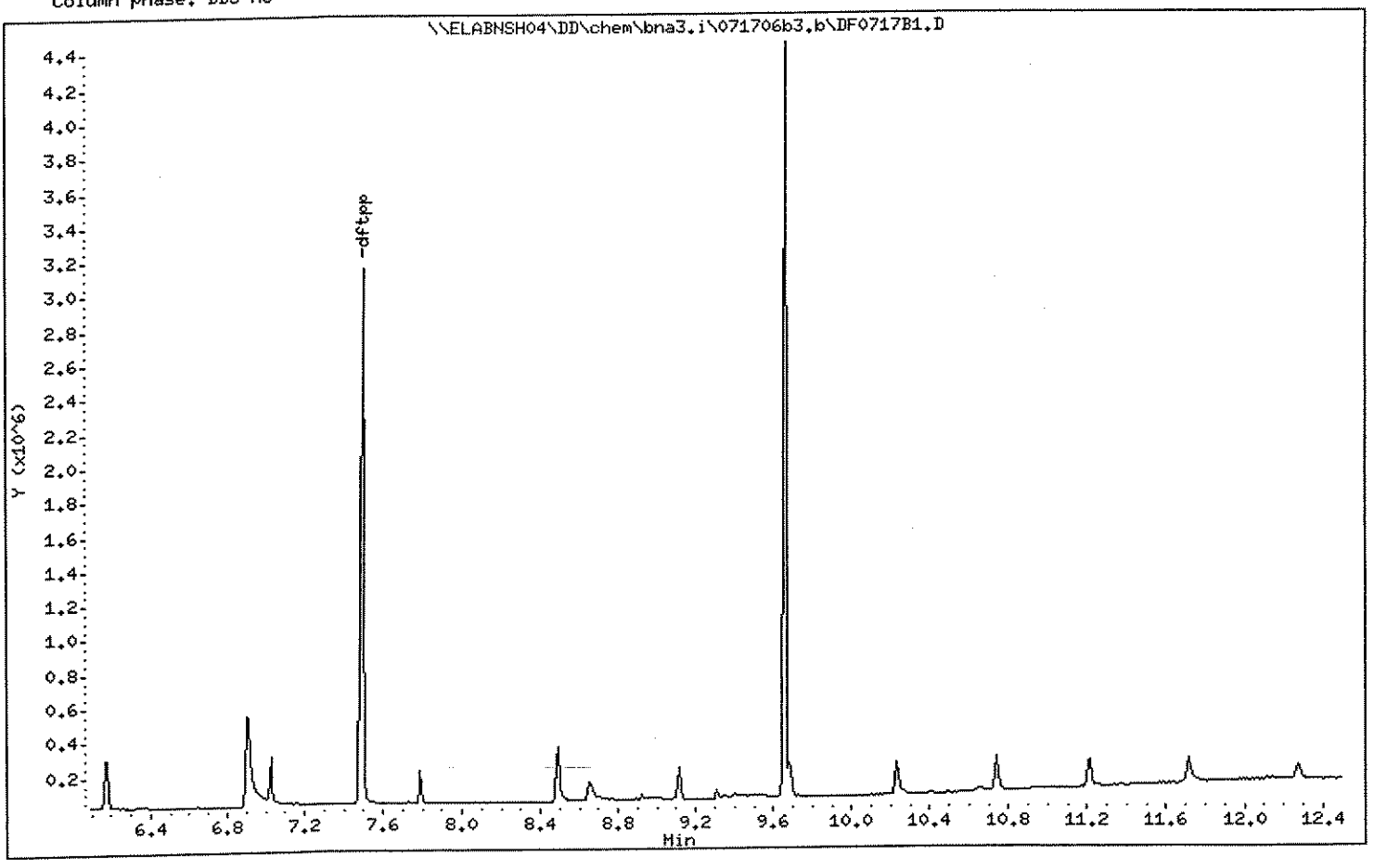
Instrument: bna3.i

Sample Info: DF0717B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710BS1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0710BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0710

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 10:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170		U
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170		U
56-55-3	Benzo(a)anthracene	20	170		U
205-99-2	Benzo(b)fluoranthene	20	170		U
207-08-9	Benzo(k)fluoranthene	20	170		U
191-24-2	Benzo(g,h,i)perylene	20	170		U
50-32-8	Benzo(a)pyrene	20	100		U
218-01-9	Chrysene	20	170		U
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170		U
86-73-7	Fluorene	20	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	20	170		U
91-57-6	2-Methylnaphthalene	20	170		U
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170		U
129-00-0	Pyrene	20	170		U

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Report Date: 12-Jul-2006 12:13

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Lab Smp Id: SBLK0710BS1 Client Smp ID: SBLK0710BS1
Inj Date : 11-JUL-2006 10:55
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
Misc Info : ;BLANK;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

7/12/06

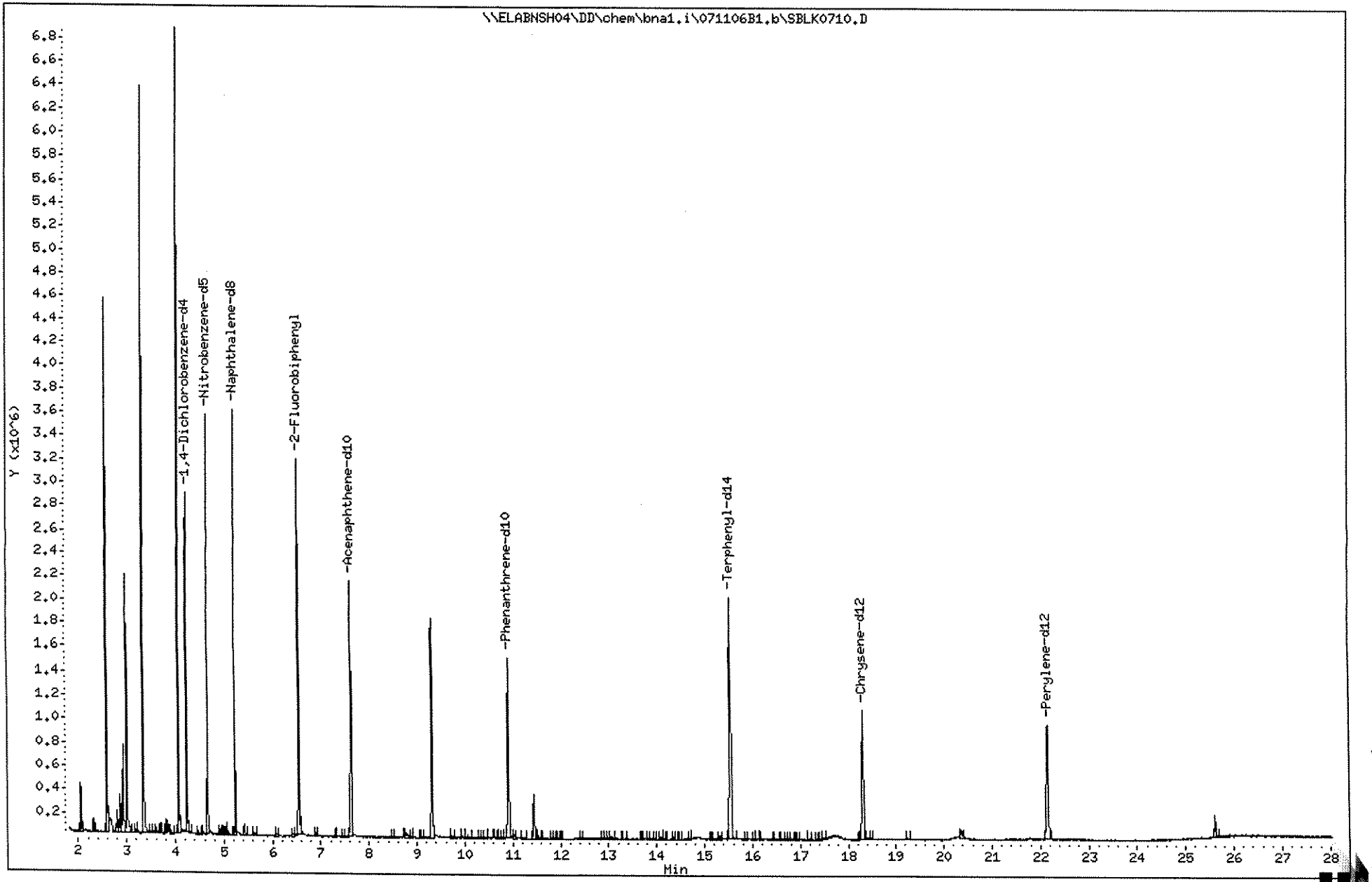
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.239	4.235	(1.000)	417530	40.0000	
* 31 Naphthalene-d8	136	5.234	5.240	(1.000)	1466963	40.0000	
$ 32 Nitrobenzene-d5	82	4.665	4.668	(0.891)	926015	57.8262	1928
* 65 Acenaphthene-d10	164	7.632	7.641	(1.000)	713763	40.0000	
$ 70 2-Fluorobiphenyl	172	6.549	6.555	(0.858)	1237983	54.5026	1817
* 97 Phenanthrene-d10	188	10.917	10.923	(1.000)	981779	40.0000	
* 124 Chrysene-d12	240	18.316	18.333	(1.000)	796917	40.0000	
$ 127 Terphenyl-d14	244	15.550	15.545	(0.849)	1479741	73.5341	2451
* 145 Perylene-d12	264	22.161	22.175	(1.000)	815226	40.0000	

RBW 7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SBLK0710.D
Date : 11-JUL-2006 10:55
Client ID: SBLK0710BS1
Sample Info: SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000555



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: SBLK0710B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0710

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 14:40

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Lab Smp Id: SBLK0710B1 Client Smp ID: SBLK0710B1
Inj Date : 17-JUL-2006 14:40 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006
Misc Info : ;3;BLANK;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

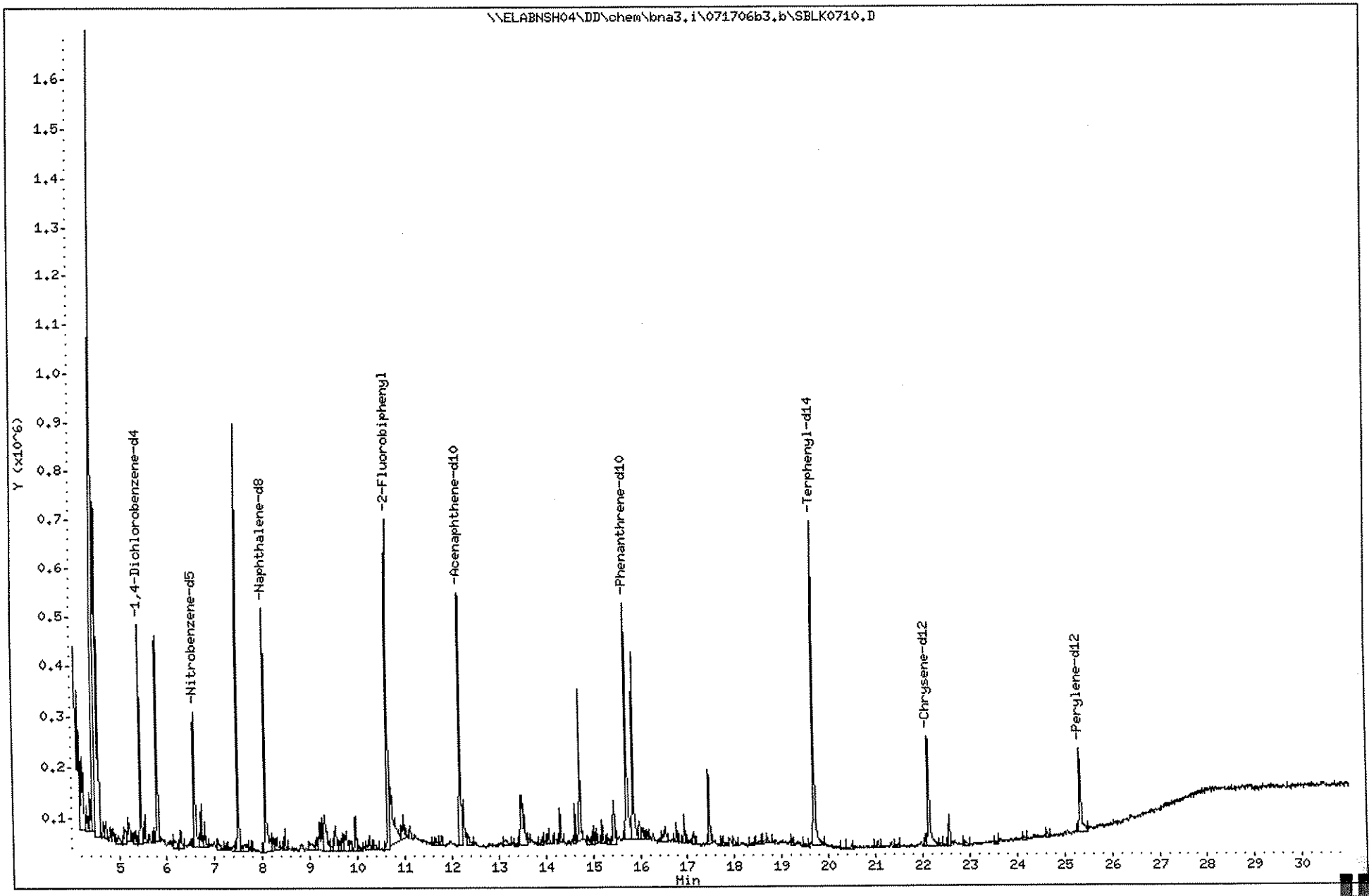
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.455	5.452	(1.000)	121658	1.00000	
*	3 Naphthalene-d8	136	8.058	8.055	(1.000)	465446	1.00000	
$	4 Nitrobenzene-d5	82	6.585	6.584	(0.817)	193990	1.62842	0.8142
*	8 Acenaphthene-d10	164	12.179	12.188	(1.000)	273330	1.00000	
$	10 2-Fluorobiphenyl	172	10.649	10.648	(0.874)	498344	1.51154	0.7558
*	16 Phenanthrene-d10	188	15.707	15.704	(1.000)	357800	1.00000	
*	20 Chrysene-d12	240	22.135	22.132	(1.000)	193201	1.00000	
$	22 Terphenyl-d14	244	19.691	19.690	(0.890)	450275	2.44795	1.224
*	25 Perylene-d12	264	25.331	25.340	(1.000)	138896	1.00000	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SBLK0710.D
Date : 17-JUL-2006 14:40
Client ID: SBLK0710B1
Sample Info: SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: SDB
Column diameter: 0.25

000558



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLK0710BS1LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0710BS1LCS

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SLCS0710

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/11/06 11:30

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	2200	
208-96-8	Acenaphthylene	20	170	2200	
120-12-7	Anthracene	20	170	2700	
56-55-3	Benzo(a)anthracene	20	170	3000	
205-99-2	Benzo(b)fluoranthene	20	170	3200	
207-08-9	Benzo(k)fluoranthene	20	170	2800	
191-24-2	Benzo(g,h,i)perylene	20	170	3000	
50-32-8	Benzo(a)pyrene	20	100	3100	
218-01-9	Chrysene	20	170	2900	
53-70-3	Dibenz(a,h)anthracene	20	100	2800	
206-44-0	Fluoranthene	20	170	2700	
86-73-7	Fluorene	20	170	2400	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	3100	
91-57-6	2-Methylnaphthalene	20	170	1800	
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170	1700	
85-01-8	Phenanthrene	20	170	2700	
129-00-0	Pyrene	20	170	3300	

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Report Date: 12-Jul-2006 12:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Lab Smp Id: SBLK0710BS1LCS Client Smp ID: SBLK0710BS1LCS
Inj Date : 11-JUL-2006 11:30
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
Misc Info : ;LCS;;;071006BS1;ch2pah.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071106B1.b\IXSOX1.m
Meth Date : 12-Jul-2006 11:55 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

7/12/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.240	4.235	(1.000)	538017	40.0000	
*	31 Naphthalene-d8	136	5.244	5.240	(1.000)	1842774	40.0000	
$	32 Nitrobenzene-d5	82	4.673	4.668	(0.891)	1173911	58.3565	1945
	47 Naphthalene	128	5.257	5.254	(1.003)	2314760	50.5219	1684
	51 2-Methylnaphthalene	141	6.008	6.004	(1.146)	1399930	53.1748	1772
*	65 Acenaphthene-d10	164	7.648	7.641	(1.000)	947550	40.0000	
$	70 2-Fluorobiphenyl	172	6.559	6.555	(0.858)	1696176	56.2504	1875
	73 Acenaphthylene	152	7.366	7.352	(0.963)	2682162	67.3239	2244
	76 Acenaphthene	153	7.717	7.703	(1.009)	1812550	66.2804	2209
	84 Fluorene	166	8.743	8.727	(1.143)	2145312	73.3469	2445
*	97 Phenanthrene-d10	188	10.937	10.923	(1.000)	1224866	40.0000	
	106 Phenanthrene	178	11.006	10.986	(1.006)	2857728	81.8281	2728
	107 Anthracene	178	11.124	11.096	(1.017)	2782285	80.6955	2690

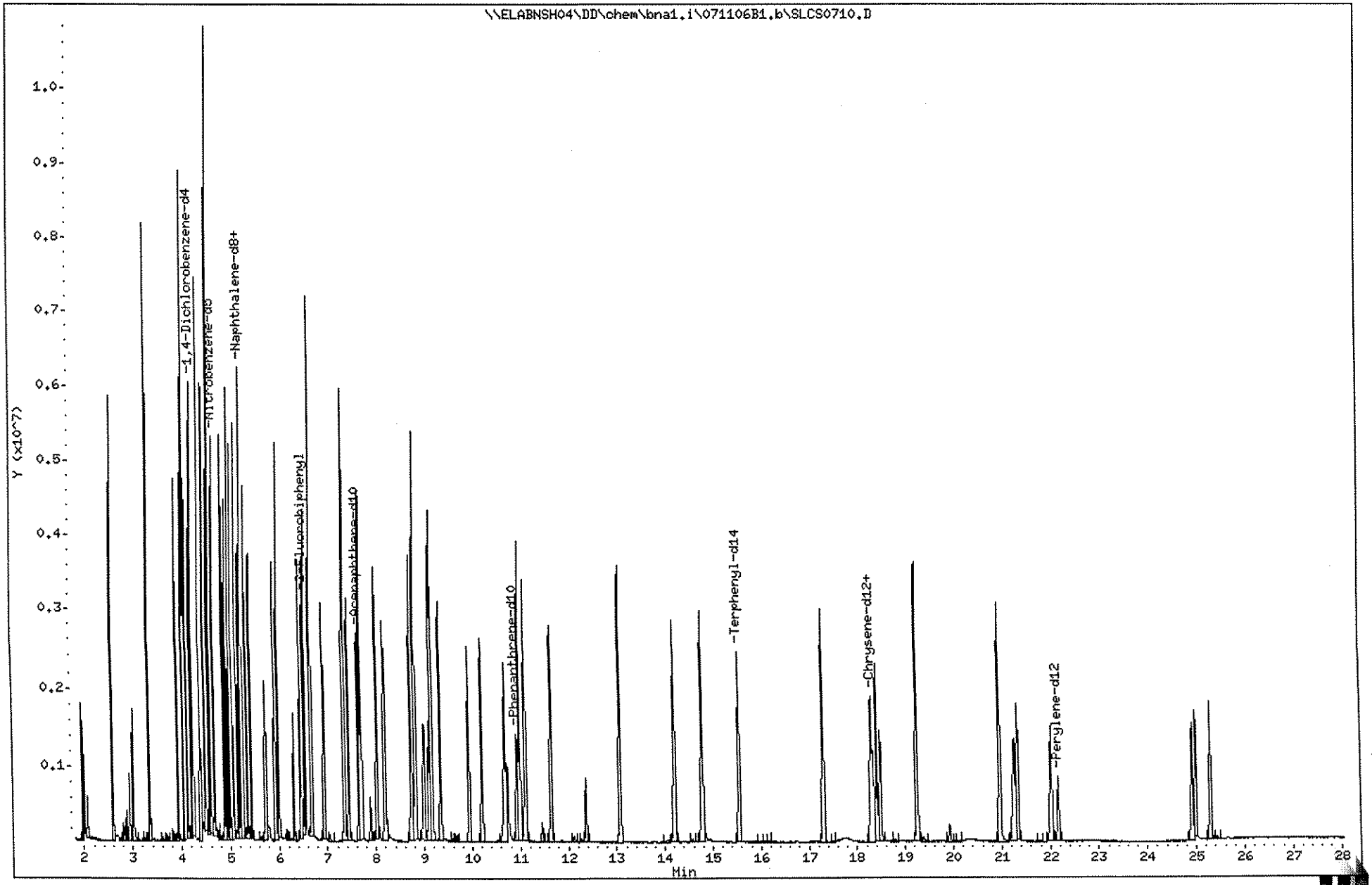
7-12-06

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Report Date: 12-Jul-2006 12:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.220	14.195	(1.300)	2835486	82.0079	2734
* 124 Chrysene-d12	240	18.351	18.333	(1.000)	743527	40.0000	
126 Pyrene	202	14.798	14.770	(0.806)	2925151	98.5102	3284
$ 127 Terphenyl-d14	244	15.563	15.545	(0.848)	1818284	96.8459	3228
130 Benzo(a)anthracene	228	18.309	18.291	(0.998)	2184825	91.1996	3040
131 Chrysene	228	18.434	18.409	(1.005)	1929287	88.1729	2939
* 145 Perylene-d12	264	22.178	22.175	(1.000)	668049	40.0000	
147 Benzo(b)fluoranthene	252	21.270	21.248	(0.959)	1967184	95.5927	3186
148 Benzo(k)fluoranthene	252	21.347	21.317	(0.962)	1806016	84.5885	2820
149 Benzo(a)pyrene	252	22.033	22.017	(0.993)	1658295	93.4505	3115
150 Indeno(1,2,3-cd)pyrene	276	24.927	24.921	(1.124)	1429473	94.4176	3147
151 Dibenz(a,h)anthracene	278	25.003	24.998	(1.127)	1293315	84.8539	2828
152 Benzo(g,h,i)perylene	276	25.308	25.301	(1.141)	1415912	90.1204	3004

Data File: \\ELABNSH04\DD\chem\bna1.i\071106B1.b\SLCS0710.D
Date : 11-JUL-2006 11:30
Client ID: SBLK0710BS1LCS
Instrument: bna1.i
Sample Info: SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000562



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0710B1LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) WATER Lab Sample ID: SBLK0710B1LCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SLCS0710

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/17/06 15:21

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050	0.71	
208-96-8	Acenaphthylene	0.0085	0.050	0.70	
120-12-7	Anthracene	0.0095	0.050	0.78	
56-55-3	Benzo(a)anthracene	0.010	0.050	0.81	
205-99-2	Benzo(b)fluoranthene	0.016	0.050	0.73	
207-08-9	Benzo(k)fluoranthene	0.013	0.050	1.0	
191-24-2	Benzo(g,h,i)perylene	0.013	0.050	0.68	
50-32-8	Benzo(a)pyrene	0.0095	0.050	0.72	
218-01-9	Chrysene	0.0090	0.050	0.95	
53-70-3	Dibenz(a,h)anthracene	0.012	0.050	0.62	
206-44-0	Fluoranthene	0.012	0.050	0.84	
86-73-7	Fluorene	0.012	0.050	0.73	
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050	0.73	
91-57-6	2-Methylnaphthalene	0.016	0.050	0.69	
90-12-0	1-Methylnaphthalene	0.010	0.050	0.69	
91-20-3	Naphthalene	0.019	0.050	0.67	
85-01-8	Phenanthrene	0.014	0.050	0.75	
129-00-0	Pyrene	0.010	0.050	1.0	

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Report Date: 18-Jul-2006 09:15

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Lab Smp Id: SBLK0710B1LCS Client Smp ID: SBLK0710B1LCS
Inj Date : 17-JUL-2006 15:21 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006
Misc Info : ;3;LCS;;;071006B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\071706b3.b\PAHLOWW.m
Meth Date : 18-Jul-2006 09:08 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.451	5.452	(1.000)	138773	1.00000	
*	3 Naphthalene-d8	136	8.054	8.055	(1.000)	538678	1.00000	
$	4 Nitrobenzene-d5	82	6.581	6.584	(0.817)	242087	1.75589	0.8779
	5 Naphthalene	128	8.100	8.102	(1.006)	695406	1.34669	0.6733
	6 2-Methylnaphthalene	141	9.698	9.689	(1.204)	389174	1.38113	0.6906
	7 1-Methylnaphthalene	141	9.938	9.940	(1.234)	408406	1.38437	0.6922
*	8 Acenaphthene-d10	164	12.187	12.188	(1.000)	349243	1.00000	
$	10 2-Fluorobiphenyl	172	10.646	10.648	(0.874)	584803	1.38822	0.6941
	11 Acenaphthylene	152	11.810	11.813	(0.969)	775082	1.39373	0.6969
	12 Acenaphthene	153	12.256	12.258	(1.006)	499753	1.41876	0.7094
	15 Fluorene	166	13.477	13.479	(1.106)	609971	1.46908	0.7345
*	16 Phenanthrene-d10	188	15.703	15.704	(1.000)	475655	1.00000	
	17 Phenanthrene	178	15.760	15.763	(1.004)	779782	1.49586	0.7479
	18 Anthracene	178	15.875	15.866	(1.011)	786576	1.56575	0.7829

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Report Date: 18-Jul-2006 09:15

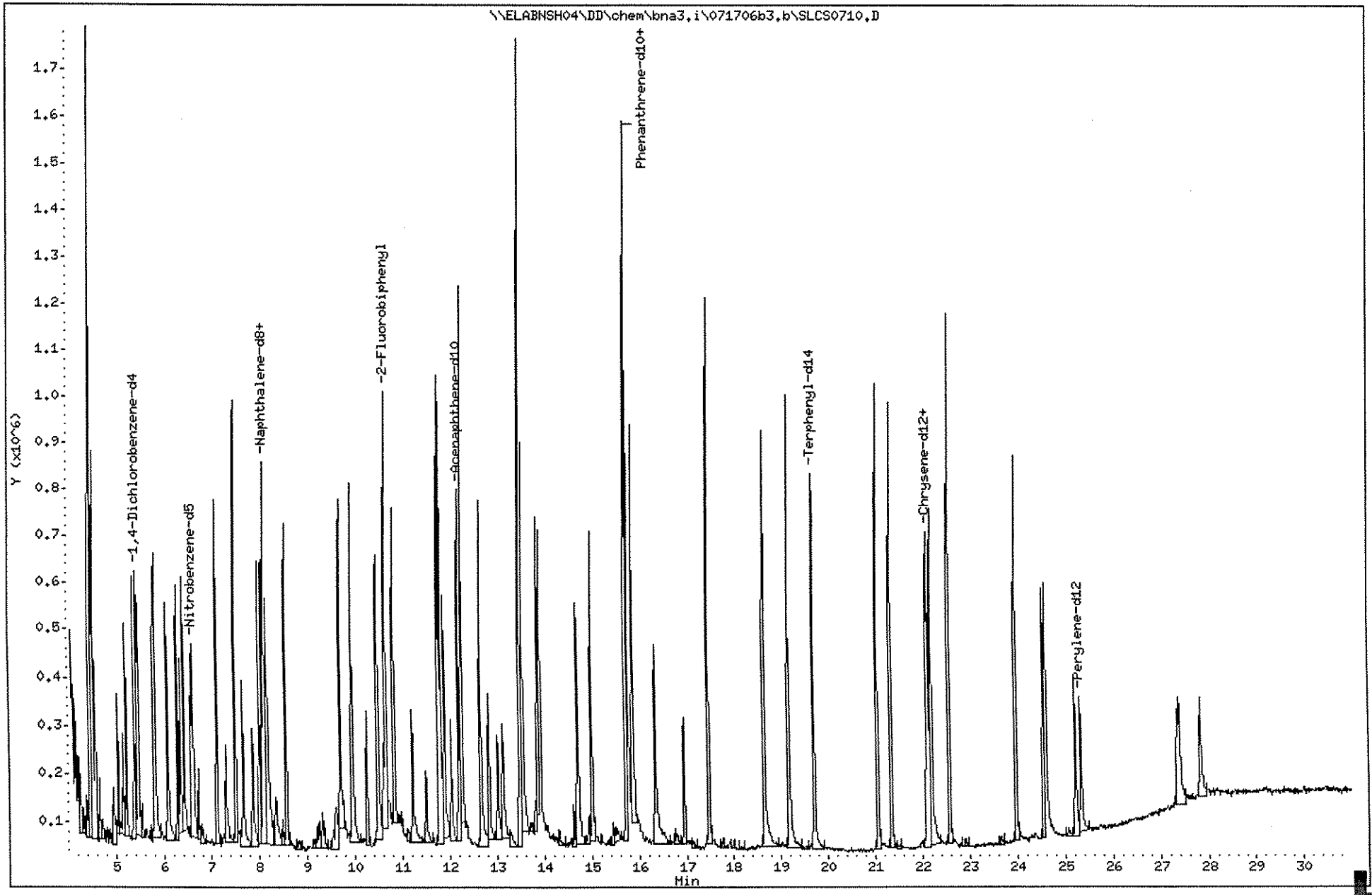
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
	19 Fluoranthene	202	18.649	18.651	(1.188)	892820	1.69005	0.8450
*	20 Chrysene-d12	240	22.131	22.132	(1.000)	301390	1.00000	
	21 Pyrene	202	19.163	19.165	(0.866)	943498	2.10638	1.053
$	22 Terphenyl-d14	244	19.688	19.690	(0.890)	546388	1.90417	0.9521
	23 Benzo(a)anthracene	228	22.097	22.099	(0.998)	568820	1.62066	0.8103
	24 Chrysene	228	22.188	22.190	(1.003)	661039	1.90747	0.9537
*	25 Perylene-d12	264	25.328	25.340	(1.000)	223318	1.00000	
	26 Benzo(b)fluoranthene	252	24.551	24.554	(0.969)	448609	1.45493	0.7275
	27 Benzo(k)fluoranthene	252	24.597	24.599	(0.971)	617889	2.00386	1.002
	28 Benzo(a)pyrene	252	25.214	25.216	(0.995)	366675	1.44325	0.7216
	29 Indeno(1,2,3-cd)pyrene	276	27.360	27.362	(1.080)	260878	1.45248	0.7262(M)
	30 Dibenz(a,h)anthracene	278	27.394	27.397	(1.082)	210425	1.23789	0.6189
	31 Benzo(g,h,i)perylene	276	27.828	27.830	(1.099)	256342	1.36715	0.6836

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Date : 17-JUL-2006 15:21
Client ID: SBLK0710B1LCS
Instrument: bna3.i
Sample Info: SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

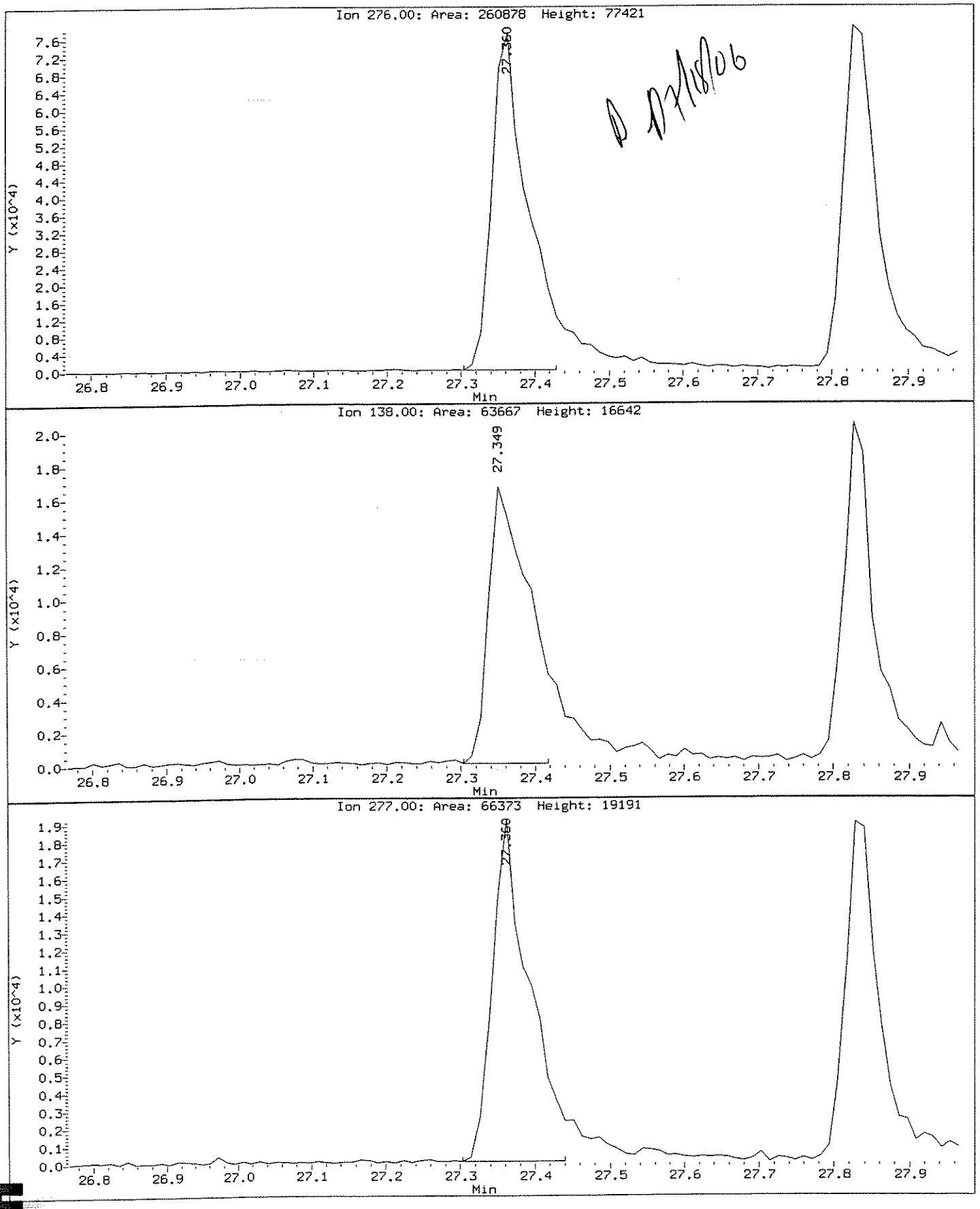
000566



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\071706b3.b\SLCS0710.D
Injection Date: 17-JUL-2006 15:21
Instrument: bna3.i
Client Sample ID:

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



D 7/18/06

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM01S
060706MS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203M

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 13:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	2600	
208-96-8	Acenaphthylene	20	170	2400	
120-12-7	Anthracene	20	170	3300	
56-55-3	Benzo(a)anthracene	20	170	5700	E
205-99-2	Benzo(b)fluoranthene	20	170	8500	E
207-08-9	Benzo(k)fluoranthene	20	170	4100	E
191-24-2	Benzo(g,h,i)perylene	20	170	3300	
50-32-8	Benzo(a)pyrene	20	100	6300	E
218-01-9	Chrysene	20	170	6400	E
53-70-3	Dibenz(a,h)anthracene	20	100	2500	
206-44-0	Fluoranthene	20	170	7100	E
86-73-7	Fluorene	20	170	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	3500	E
91-57-6	2-Methylnaphthalene	20	170	1800	
90-12-0	1-Methylnaphthalene	51	170	55	J
91-20-3	Naphthalene	20	170	1600	
85-01-8	Phenanthrene	20	170	5400	E
129-00-0	Pyrene	20	170	8800	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 10-JUL-2006 13:55
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;MS;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.273	4.276	(1.000)	463784	40.0000	
* 31 Naphthalene-d8	136	5.286	5.287	(1.000)	1571829	40.0000	
$ 32 Nitrobenzene-d5	82	4.706	4.709	(0.890)	927196	54.0371	1838
47 Naphthalene	128	5.300	5.307	(1.003)	1882748	48.1762	1639
51 2-Methylnaphthalene	141	6.059	6.062	(1.146)	1204069	53.6189	1824
52 1-Methylnaphthalene	141	6.190	6.203	(1.171)	34760	1.62151	55.15(aM)
* 65 Acenaphthene-d10	164	7.712	7.719	(1.000)	729802	40.0000	
$ 70 2-Fluorobiphenyl	172	6.620	6.617	(0.858)	1365535	58.7969	2000
73 Acenaphthylene	152	7.428	7.426	(0.963)	2184588	71.1952	2422
76 Acenaphthene	153	7.781	7.781	(1.009)	1630672	77.4210	2633
84 Fluorene	166	8.818	8.814	(1.144)	1752767	77.8059	2646
* 97 Phenanthrene-d10	188	11.022	11.020	(1.000)	912148	40.0000	
106 Phenanthrene	178	11.106	11.082	(1.008)	4171839	160.410	5456(AR)

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Report Date: 11-Jul-2006 13:57

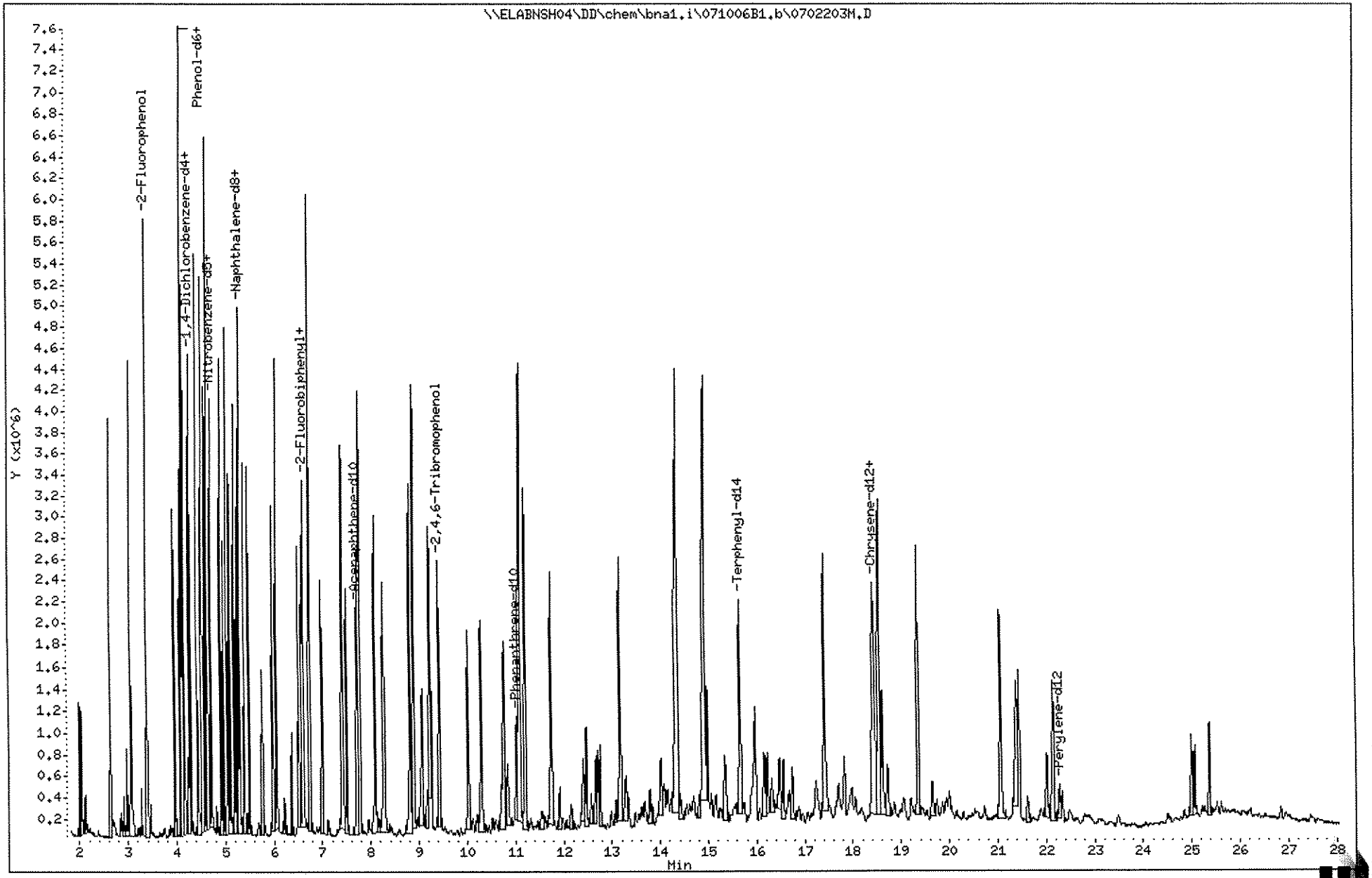
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	11.210	11.192	(1.017)	2498379	97.3037	3310
110 Fluoranthene	202	14.357	14.296	(1.303)	5348112	207.707	7065(AR)
* 124 Chrysene-d12	240	18.473	18.441	(1.000)	479872	40.0000	
126 Pyrene	202	14.936	14.878	(0.809)	4979395	259.825	8838(AR)
$ 127 Terphenyl-d14	244	15.669	15.647	(0.848)	1296810	107.021	3640(A)
130 Benzo(a)anthracene	228	18.438	18.400	(0.998)	2582487	167.027	5681(AR)
131 Chrysene	228	18.564	18.510	(1.005)	2661564	188.472	6411(AR)
* 145 Perylene-d12	264	22.286	22.273	(1.000)	254990	40.0000	
147 Benzo(b)fluoranthene	252	21.395	21.352	(0.960)	1968623	250.627	8525(AR)
148 Benzo(k)fluoranthene	252	21.451	21.421	(0.963)	990942	121.597	4136(ARH)
149 Benzo(a)pyrene	252	22.159	22.121	(0.994)	1254315	185.187	6299(AR)
150 Indeno(1,2,3-cd)pyrene	276	25.000	24.990	(1.122)	597109	103.327	3514(A)
151 Dibenz(a,h)anthracene	278	25.070	25.065	(1.125)	429195	73.7747	2509
152 Benzo(g,h,i)perylene	276	25.374	25.361	(1.139)	577384	96.2801	3275

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203M.D
Date : 10-JUL-2006 13:55
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000571



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM01S
060706MSD

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0702203S

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/10/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/10/06 14:30

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	3200	
208-96-8	Acenaphthylene	20	170	2400	
120-12-7	Anthracene	20	170	4700	E
56-55-3	Benzo(a)anthracene	20	170	11000	E
205-99-2	Benzo(b)fluoranthene	20	170	17000	E
207-08-9	Benzo(k)fluoranthene	20	170	6300	E
191-24-2	Benzo(g,h,i)perylene	20	170	4900	E
50-32-8	Benzo(a)pyrene	20	100	12000	E
218-01-9	Chrysene	20	170	12000	E
53-70-3	Dibenz(a,h)anthracene	20	100	3400	E
206-44-0	Fluoranthene	20	170	15000	E
86-73-7	Fluorene	20	170	3500	E
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	5500	E
91-57-6	2-Methylnaphthalene	20	170	2000	
90-12-0	1-Methylnaphthalene	51	170	140	J
91-20-3	Naphthalene	20	170	1800	
85-01-8	Phenanthrene	20	170	14000	E
129-00-0	Pyrene	20	170	21000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Report Date: 11-Jul-2006 13:57

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 10-JUL-2006 14:30
Operator : SDB Inst ID: bna1.i
Smp Info : 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Misc Info : ch2.b07022;MSD;;;071006BS1;ppbna.sub;3623
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\071006B1.b\IXSOX1.m
Meth Date : 11-Jul-2006 11:02 sburchfiel Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pah.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	98.000	Percent Solids

7/11/06

7/11/6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.277	4.276	(1.000)	455682	40.0000	
* 31 Naphthalene-d8	136	5.284	5.287	(1.000)	1464992	40.0000	
$ 32 Nitrobenzene-d5	82	4.711	4.709	(0.892)	933494	58.3717	1985
47 Naphthalene	128	5.304	5.307	(1.004)	1977009	54.2774	1846
51 2-Methylnaphthalene	141	6.063	6.062	(1.148)	1232416	58.8836	2003
52 1-Methylnaphthalene	141	6.188	6.203	(1.171)	83435	4.17598	142.0(aM)
* 65 Acenaphthene-d10	164	7.716	7.719	(1.000)	766940	40.0000	
$ 70 2-Fluorobiphenyl	172	6.617	6.617	(0.858)	1392561	57.0571	1941
73 Acenaphthylene	152	7.425	7.426	(0.962)	2258773	70.0483	2382
76 Acenaphthene	153	7.785	7.781	(1.009)	2091820	94.5061	3214
84 Fluorene	166	8.831	8.814	(1.145)	2424992	102.434	3484(A)
* 97 Phenanthrene-d10	188	11.043	11.020	(1.000)	920312	40.0000	
106 Phenanthrene	178	11.160	11.082	(1.011)	10958305	417.617	14200(AR)

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Report Date: 11-Jul-2006 13:57

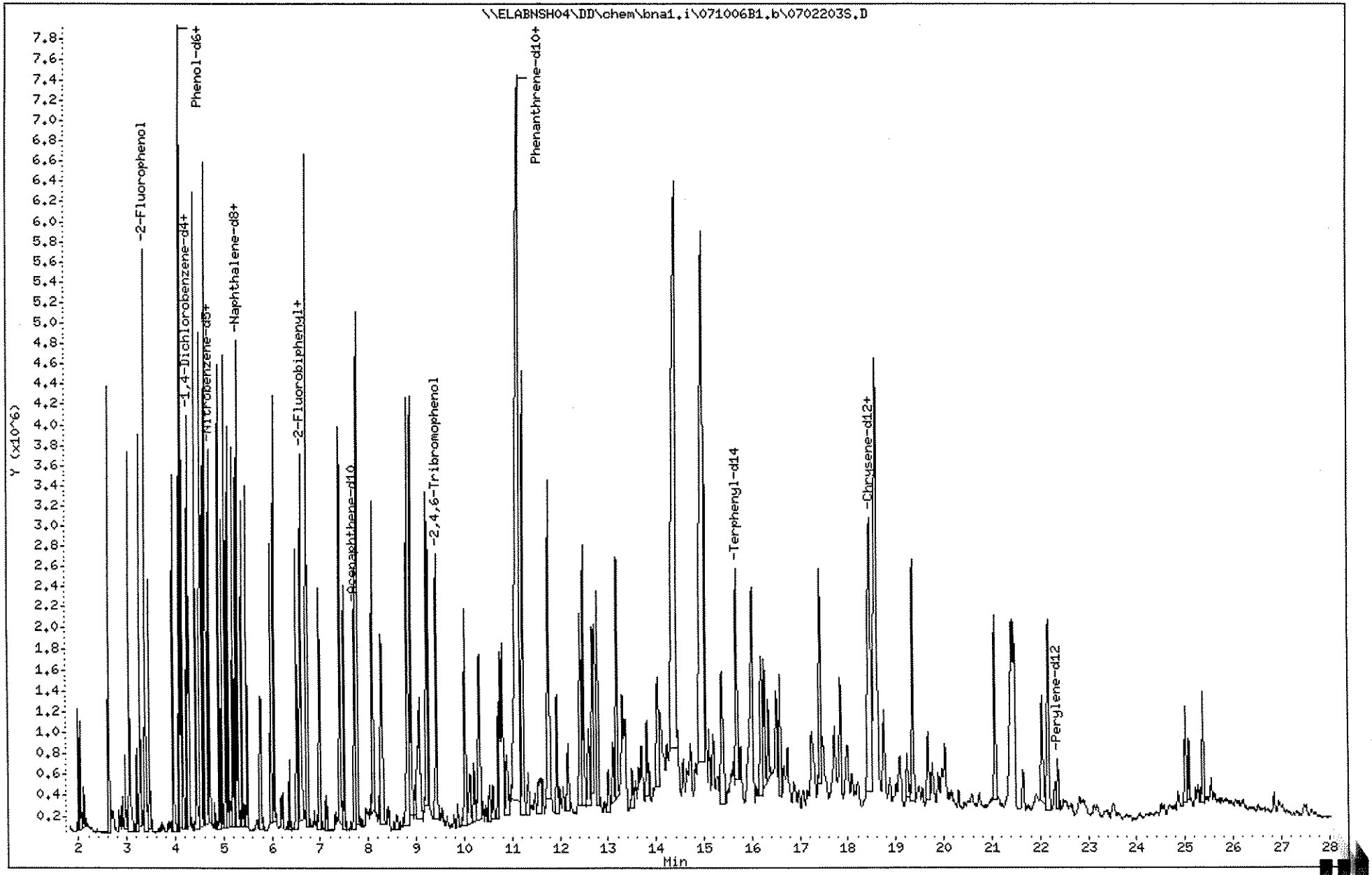
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	11.251	11.192	(1.019)	3616422	139.598	4748(ARH)
110 Fluoranthene	202	14.430	14.296	(1.307)	11423715	439.733	14960(AR)
* 124 Chrysene-d12	240	18.507	18.441	(1.000)	404607	40.0000	
126 Pyrene	202	15.003	14.878	(0.811)	10022722	620.272	21100(AR)
$ 127 Terphenyl-d14	244	15.688	15.647	(0.848)	1143357	111.909	3806(AR)
130 Benzo(a)anthracene	228	18.479	18.400	(0.998)	4089902	313.728	10670(AR)
131 Chrysene	228	18.598	18.510	(1.005)	4115357	345.628	11760(ARH)
* 145 Perylene-d12	264	22.307	22.273	(1.000)	209947	40.0000	
147 Benzo(b)fluoranthene	252	21.433	21.352	(0.961)	3179783	491.672	16720(ARM)
148 Benzo(k)fluoranthene	252	21.489	21.421	(0.963)	1248477	186.067	6329(ARM)
149 Benzo(a)pyrene	252	22.194	22.121	(0.995)	1954203	350.419	11920(ARH)
150 Indeno(1,2,3-cd)pyrene	276	25.029	24.990	(1.122)	766507	161.099	5480(AR)
151 Dibenz(a,h)anthracene	278	25.085	25.065	(1.125)	485568	101.372	3448(A)
152 Benzo(g,h,i)perylene	276	25.390	25.361	(1.138)	708158	143.422	4878(AR)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\071006B1.b\0702203S.D
Date : 10-JUL-2006 14:30
Client ID: 51CFM01S060706
Instrument: bna1.i
Sample Info: 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000575



Empirical Laboratories

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6224.01→02				
6207.01 6303.01→06	9:45 6/26/06 RCh	1617 6/26/06 RCh	All volume of 6207.01 used	TCLP ZHE
6236, 6238, 6243, 6244	1405 6/26/06 B	All 1455 6/26/06 B		Y.S
6217	6/26/06 B	All 1515 6/26/06 B		Y.S
6298 1-2 6299 1-4	BNA P/P 740 6/27/06	9:00 6/27/06 B	BNA P/P	TCLP
6304.01 →.04	8:06 6/27/06 RCh	1358 6/27/06 RCh		TCLP
6307.01	8:16 6/28/06 RCh	11:35 6/28/06 RCh	used all C and B from login	TCLP ZHE
6388.01→04 6394.01	11:00 6/28/06 RCh			TCLP
6367.01A	12:48 6/28/06 RCh	1334 6/28/06 RCh		ZHE
6388.01→04 Aset	12:48 6/28/06 RCh		From login	ZHE
6393, 6394, 6395, 6396	124 6/29/06	All 1328 6/29/06 B		Y.S
6382	1248 6/29/06 B	1300 6/29/06 B		Y.S
6292-01, 02 6297-01 6236-01-05, 6295-01	6:40 6/30/06 AD			CN
6405-02	12:15 6/30/06 m	1:15 6/30/06 m	To weigh out	VOA
6405, 6404 6465	1333 6/30/06 B	All 346 6/30/06 B		Y.S
6422.1-10	11:54am TJM 7/3/06	1:16pm 7/3/06 TJM	Weighed out to dry	Explosives
6399.01→02 6446.01→03	824 7/5/06 RCh	1502 7/5/06 RCh		TCLP ZHE/NON
6419.01→03	↓	↓		↓
6208-01-05 6298-1-2 6217-01-05 6299-1-4 6236-01-05	8:3 7/5/06	1513 7/5/06 RCh		Hg
6423.01	10:26 7/5/06 RCh	1502 7/5/06 RCh		TCLP ZHE/NON
6208.01 6298.01→02 6217.01→05 6299.01→04 6236.01→05 6399.01→02	RCh 1513 7/5/06	1552 7/5/06 RCh		Weight for metals

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 6423-1 6405-2 6404-1,2	9:10 7-6-06 lg	11:25 7/10/06		Hold BNA PCB
6405-02	9:50 7-6-06			VOA
6423 6422	1013 7/6/06	1040 7/6/06		% S
7001-01 B →02	115 7/6/06 RCL	1702 7/6/06		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCL			ZHE
6399.01→02	1431 7/6/06 RCL			SPLP
6405-02	7:00 7/7/6	11:30 7/7/6		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:45 7/7/6	weight	VOA
7014-03B	1:35 7/7/6			VOA
7022 01-11	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06	15:32 7/10/06		CN
7023.01 A,B	9:11 7/10/06 RCL	1450 7/10/06 RCL	taken from extracting	PH, TCLP, ZHE, NON
7014-03	9:46 7/10/06			% S
7022-3-11	10:05 7/10/6		weight	VOA
7014-1-3	1230 7-10-06	1245 7-10-06		FPRO
6399	1435 7/10/06	1456 7/10/06		% S
7014-01→03	6:30 7/11/06	7:16 7/11/06		BNA
7023-01	↓	↓		PCB
6382-01 6377-01-05 6236-1-4 6382-1,2	8:02 7/11/06	15:45 7/11/06		Cr+6

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6235	09:40 7-5-06 RB	15:31 7-5-06 RB		TOC
6235; 6300; 6361; 6383; 6398; 6409; 6384; 6403; 6223; 6226	09:51 7-5-06 RB	10:48 7-5-06 RB		Metals
	10:49 7-5-06 RB	15:31 7-5-06 RB		Sol. Metals
6416, 6425 6426, 6428 6469, 6470	1230 7/5/06 B	All 7/5/06 B 1540		TSS
6468-01-13 6400-01 6414-01 6391-01-2	7/5/06 12:55 BTO	7/5/06 15:55 BTO		NO3
6398.01	7/5/06 1308 RCV	1507 7/5/06 RCV		pH
6468-1-13, 7005-01 6398-01, 6428-01	14:30 7/5/06 BTO	15:05 7/5/06		ANIONS
6468	740 7/6/06 B	1300 7/6/06 B		Alk
6300 6361	03:35 7-6-06 RB	13:39 7-6-06 RB		TOC
7010, 7007 7006	1005 7/6/06 B	1304		BOD
6425-01→12 7005-01	13:19 7/6/06 MM	13:05 7/6/06 MM		NH3
7006, 7011 7005	855 7/7/06 B	All 1410 7/7/06 B		Cond/Spec/Alk
7007-01,02 7012-01, 7005-01	09:15 7/7/06 BTO	13:00 7/7/06 BTO		ANIONS
6468-06, 11	↓	↓		↓
6468-9-13	9:55 TNP 7/7/06	1450 7/7/06 RCV		Alk.
6400-01→02 6427-01,04,06	11:05 7/7/06 MM	~~1450~~ 1550 (some) 8:24 7/7/06 MM		T-PO4
7011-01,02 7017-01	6:50 7/10/06 MM	all		Rest/PCB
7007-01,02 7017-01	↓	↓		PAH
7022-01,02	↓	↓		PAH/PL-PKG

LCW · PAH

Fraction: Semi-volatiles Matrix: Water EX053

Supervisor__________

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Volume(ml)	Final Volume(ml)	Surrogate Added	Surr Initials	Spike Added	Spk Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor Methylene Chloride	Notes/Comments	#
1	CH2mHill	7622-01	071606BW1	mH	6	980	.5ml	1ml SV 3571	mH	NA	NA	B21				062123	0621 7:30	1
2	↓	↓ -02	↓	↓	↓	966	↓	↓	↓	NA	NA	—				↓		2
3										NA	NA							3
4										NA	NA							4
5										NA	NA							5
6										NA	NA							6
7										NA	NA							7
8										NA	NA							8
9										NA	NA							9
10										NA	NA							10
11										NA	NA							11
12										NA	NA							12
13										NA	NA							13
14										NA	NA							14
15										NA	NA							15
16										NA	NA							16
17										NA	NA							17
18										NA	NA							18
19										NA	NA							19
20										NA	NA							20
	m.Blank	1-2	071606BW	mH		1000	.5ml	SAS	SAS	SV	mH	=				SAS		
	LCS	↓	↓	↓		1000	↓	SAS	SAS	1ml 3558	↓	=				SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		

Empirical Laboratories

PAH

Empirical Laboratories

Fraction: Semi-volatiles Matrix: Soil Level: Low/Soxhlet/Medium (circle one)

Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	Initial Weight	Final Volume	Surrogate Added	Surr. Initials	Spike Added	Spk Initials	Sox.	Thimble	Thimble	Transf. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Acetone	Notes/Comments
1	[redacted]	6025-01	060806	SO	15.0g	½ml	1ml SV3357	WS	NA	NA	—	-		WS	062119	062287	
2		-02	061306881		15.1g				NA	NA	—	-					
3		-03	1245		15.0g				NA	NA	—	D3					
4		-04			15.1g				NA	NA	—	ROE					
5	CH2	7022-01	071006881	WS	15				NA	NA					062123	062287	#1 creek waters
6		02			15				NA	NA							#2 ↓
7		7022 03	815		15.0	½ml	5ml SV3557	WS	NA	NA	B11			WS			very Rocky All Samp.
8		04			15.0				NA	NA	—						
9		05			15.0				NA	NA	B6						
10		06			15.1				NA	NA	—						
11		07			15.1				NA	NA	—						
12		08			15.1				NA	NA	—						
13		09			15.2				NA	NA	—						
14		10			15.3				NA	NA	—						
15		11			15.2				NA	NA	—						
16									NA	NA							
17									NA	NA							
18									NA	NA							
19									NA	NA							
20									NA	NA							
							SAS	SAS									
	MBlank	1-4	061306881		—	½ml	SAS	SAS	5ml SV3557 5ml SV3610		—	—		WS			
	LCS	↓	↓	↓	—	↓	SAS	SAS		WS	—	—		↓	↓	↓	
							SAS	SAS									
	MBlank	5-15	071006881		—		SAS	SAS	SV3116		—			WS			
	LCS	↓			—		SAS	SAS	5ml SV3607	WS	—						
	MS	7022-3			15.0		SAS	SAS			—						
	MSD	↓	↓	↓	15.0		SAS	SAS	↓	↓	B20			↓	↓	↓	
							SAS	SAS			BF						
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									
							SAS	SAS									

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Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6381-8 all 6463-02	PCB			1:20 7/3/06	MA	
6361-03-7, 10, 12 6407-01-04; 6463-01,03,07-09	PCB			2:00 7/3/06	MA	
6383-01,02 6384-02; 6408-01,03,04	BNA			2:00 7/3/06	MA	
6046-17-20 6072-12-16, 24	HERB.	3:15 pm / 7.3.06	J.H.	4:15 PM / 7.3.06	J.H.	ANALYZE
6239-01	Expl	7:25 am 7/5/06	TJM	7:40 am 7/5/06	TJM	analysis
6371 6408-1,3,4 6388-1-4 6424-2,3	Pest/PCB			7-5-06 1115	cg	
6421-1 6424 2,3	BNA			7-5-06 100	cg	
~~6462-1-4~~ ~~6395-1-6~~ TJM 7/5/06				TJM 7/5/06		
6106-1,2 / 6198-1-6 6163-1-5 / 6303-1-6	Herb.	1:20pm 7/5/06	TJM	2:15pm 7/5/06	TJM	analysis
6277-03 → 10; 6359-01,02 6406-1,3,4,6,8; 6467-01-09	PCB			2:20 7/5/06	MA	
6303-01-06	BNA	8:10 7/5/06		9:40 7/6/06		Analysis
6217-01-05; 6236-01-05 6298-01,02; 6303-01-06	Pesticide	07:28 7/6/06	BTO	12:33 7/6/06 BTO	BTO	Analysis
6367-01; ~~6382-01-05~~ 6384-02; 6388-01-04	↓	↓	↓	↓	↓	↓
6422-1-10 6394-1 redo	EXP			7-6-06 840	cg	
6422-1-10 6394-1 re-do	Expl.	9:15 am 7/6/06	TJM	9:50 am 7/6/06	TJM	analysis
6277-1-10 re 6359-1,2 re 6381-3-8, 10-12 6462-1-4 6403-1,3,7-9 6408-1,3,4 / 6424-2,3 6466-1,3,4,6 / 6467-1-9	PCBs	10:30 am 7/6/06	TJM	3:10pm 7/6/06	TJM	clean-up & analysis
6367-1 6358-1-4	BNA			7-6-06 1130	cg	
6405-2	BNA			7-6-06 100	cg	
6408-01,03,04 6384-02 6397-01-02 6424-01 6424-2,3	BNA	7:40 7/6/06		11:52 7/7/06		Analysis
6208-1, 6247-01-05, 6249-01-02 6249-01-03	↓	↓	↓	↓	↓	↓
6422-8-9 6394-1	Expl	7:10 am 7/7/06	TJM	7:30 am 7/7/06	TJM	dilute analysis

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6359-1 6408-1,3,4 6299-2,4 6424-2,3 6381-3-7,10,12 6402-1-4 6403-1,3,7-9 6277-1,2	↑ PCB	7/7/06 8:40am	TJM	10:20am 7/7/06	TJM	analysis
	↓	↓	↓	↓	↓	↓
~~6382-1-5~~ ~~6404-1,2~~ ~~6423-1~~	~~Prot/PCB~~			7-7-06 10:15	ug	
6367-1 6388-1-4	Herb			7-7-06 11:15	ug	
6382-01-05 6422-02 6404-01,02	Prot	11:30 7/7/6 BTD	BTD	15:30 7/7/6 BTD		Analysis
6072 6162 6195 ~~6303~~	Herb					
	↓	↓	↓	↓		↓
~~6072~~ 6208-01	Prot	14:10 7/7/6	BTD	15:30 7/7/6 BTD		Analysis
6382-01-05 6404-01,02	Herb			2:25 7/7/06	WA	
6351-06	PCB	7/6/06 735		7/10/06 745	A	Analysis
7022-3-11	PAH			7-10-06 1130	ug	
	↓			↓	↓	
7011-1,2	PCB			7-10-06 1145	ug	
7022-1-11	F.PRO					
6299-04 6217-05 6367-01 6388-01-04	DNA	7/10/06 7:48		7/10/06 11:28		Analysis
7022-03-11	DNA	7/10/06 11:25		7/10/06 2:10		Analysis
7022-01-02	PAH	7/10/06 10:35		7/11/06 10:35		Analysis
7022-01,02	F.PRO	7/10/06 13:15	BTD	14:10 7/10/06	BTD	Analysis
7014-1-3	F.PRO Straight to GC			7-10-06 145	ug	
7014-1-3	F.PRO	7/10/06 13:50	BTD	14:00 7/10/06	BTD	Analysis
6344-01,02; 6411-01-03 6419-01-03; 6423-01; 7001-01,02 7002-01,02; 7017-01	BNA			2:15 7/10/06	WA	
6303-1-4	Herb.	3:25 PM / 7-10-06	J.H.	4:20 PM / 7-10-06	J.H.	ANALYZE
7005-01	Explosives			1:20 7/11/06	WA	
7006-01						

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
6307-01; 6388-1-4; 6411-1-3; 6411.9-1-3; 7001-1-2	HERB.	3:00 Pm / 7.14.06	J.H.	4:30 Pm / 7.14.06	J.H.	ANALYZE
7104-2	EXP	~~8:15 7/19/06~~ -7/17/06	CG	8:15 7/17/06	CG	
7037-1-54'	EXP	07:07 7/17/06	BTH	14:55 7/17/06	BTH	Explosives Analysis
7036-01	EXP	08:40 7/17/06	BTH	13:25 7/17/06	BTH	↓
6382-1-5; 6404-01	Pesticides	11:20 7/17/06	BTH	↓	↓	Pesticides Analysis
6217-01	↓	↓	↓	↓	↓	↓
7101-2-7; 7107-2-5	BNA			7-17-06 1330	LG	
7109-2-9	FPRO			7-17-06 2330	LG	
6384-02 MDL's	DRO	2:50 Pm / 7.17.06	J.H.	4:10 Pm / 7.18.06	J.H.	RE-ANALYZE
7098-01-07, 09 - 11 7107-2-05; 7032-01-02 7101-2-17	BNA	8:30 7/17/06	SD	9:10 7/19/06	SD	Analysis
7032-01-02	PAH	8:30 7/17/06	SD	↓	↓	Analysis
7037-31-754	Expl	07/18/06 0712	amb	Already sealed		Analyses
7104-01,02	Expl	↓	amb	07-18-06 0920	amb	Analyses
7114-1	BNA			7-18-06 1100	LG	
7107-2-5; 7111-2-3; 7114-1	Pest/PCB			↓	↓	
7114-01	BNA	7/18/06 11:22	SD	9:10 7/19/06	SD	Analysis
7037-06,24	Explosives	7/18/06 12:30	BTH			
7114-01; 7107-2-5; 7111-2,3; 6382-1-5; 6217-04	P/P	2:45 Pm / 7.18.06	J.H.	4:10 Pm / 7.18.06	J.H.	ANALYZE
7037-47-749,51,58	Expl	07/19/06 0747	amb	0810 07/20/06	amb	dilution + analyses
7107-2-5; 7111-2,3	Herb			7-19-06 950	LG	
7116-2,4,5	Pest/PCB			7-19-06 1110	LG	

Sequence Name: C:\HPCHEM\1\SEQUENCE\020706B1.S
Comment: SW846-8270C/625
Operator: sdb
Data Path: C:\HPCHEM\1\DATA\020706B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

MM 8/16

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	BAKE1	
2	Sample	100	BLANK03	IXBN1	
3	Sample	1	DF0207B1	DFTPPBN1	DF0207B1;;;;;SV3361 1016 2-7-06
4	Sample	2	APPA002	IXBN1	APP9A002PPM;;;;;SV3382-2
5	Sample	3	APPA005	IXBN1	APP9A005PPM;;;;;SV3382-3
6	Sample	4	APPA010	IXBN1	APP9A010PPM;;;;;SV3382-4
7	Sample	5	APPA020	IXBN1	APP9A020PPM;;;;;SV3382-5
8	Sample	6	APPA030	IXBN1	APP9A030PPM;;;;;SV3382-6
9	Sample	7	APPA050	IXBN1	APP9A050PPM;;;;;SV3382-8
10	Sample	8	APPA070	IXBN1	APP9A070PPM;;;;;SV3382-10
11	Sample	9	APPA100	IXBN1	APP9A100PPM;;;;;SV3382-13
12	Sample	10	ICV050	IXBN1	ICV050PPM;;;;;SV3355 1525 2-7-06
13	Sample	1	DF0207B2	DFTPPBN1	DF0207B2;;;;;SV3361 1557
14	Sample	11	CCV050	IXBN1	CCV050PPM;;;;;SV3369
15	Sample	12	CCVAPPA	IXBN1	APP9ACCV050PPM;;;;;SV3383
16	QC	13	SBLK0207	IXBN1	SBLK0207B1;1000;1000;1;UG/L;07-FEB-20
17	QC	14	SLCS0207	IXBN1	SBLK0207B1LCS;1000;1000;1;UG/L;07-FEB
18	Sample	15	0203903	IXBN1	0602039-03;1000;1000;1;UG/L;07-FEB-20
19	Sample	16	0203906	IXBN1	0602039-06;1000;1000;1;UG/L;07-FEB-20
20	Sample	17	0203908	IXBN1	0602039-08;1000;1000;1;UG/L;07-FEB-20
21	Sample	18	0203909	IXBN1	0602039-09;1000;1000;1;UG/L;07-FEB-20
~~22~~	~~QC~~	~~19~~	~~BLK0207~~	~~IXSOX1~~	~~SBLK0207BS1;15;1000;1;UG/KG;07-FEB-20~~
23	QC	20	LCS0207	IXSOX1	SBLK0207BS1LCS;15;1000;1;UG/KG;07-FEB
24	Sample	21	0203901	IXSOX1	0602039-01;15.1;1000;1;UG/KG;07-FEB-2
25	Sample	22	0203902	IXSOX1	0602039-02;15.1;1000;1;UG/KG;07-FEB-2
26	Sample	23	0203904	IXSOX1	0602039-04;15.5;1000;1;UG/KG;07-FEB-2
27	Sample	24	0203905	IXSOX1	0602039-05;15.4;1000;1;UG/KG;07-FEB-2
28	Sample	25	0113901D	IXBN1	0601139-01;100;1000;1;UG/L;25-JAN-200
29	Sample	26	0119203R	IXBN1	0601192-03;700;1000;1;UG/L;07-FEB-200
30					

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\020706B1.S
      Comment: SW846-8270C/625
     Operator: sdb
    Data Path: C:\HPCHEM\1\DATA\020706B1\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample
    Vial: 99            ;;;;;ppbna.sub;
    Meth: BAKE1.M       Barcode: 020606B1.b
    Data: PRIMER.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: Sample
    Vial: 100           ;;;;;ppbna.sub;
    Meth: IXBN1.M       Barcode: 020606B1.b
    Data: BLANK03.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: Sample        DF0207B1;;;;;SV3361
    Vial: 1             ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M    Barcode: 020706B1.b
    Data: DF0207B1.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: Sample        APP9A002PPM;;;;;SV3382-2
    Vial: 2             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA002.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: Sample        APP9A005PPM;;;;;SV3382-3
    Vial: 3             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA005.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: Sample        APP9A010PPM;;;;;SV3382-4
    Vial: 4             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA010.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: Sample        APP9A020PPM;;;;;SV3382-5
    Vial: 5             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
    Data: APPA020.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: Sample        APP9A030PPM;;;;;SV3382-6
    Vial: 6             ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M       Barcode: 020706B1.b
```

```
    Data: APPA030.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
9   Type: Sample      APP9A050PPM;;;;;SV3382-8
    Vial: 7           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA050.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: Sample      APP9A070PPM;;;;;SV3382-10
    Vial: 8           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA070.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: Sample      APP9A100PPM;;;;;SV3382-13
    Vial: 9           ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: APPA100.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12  Type: Sample      ICV050PPM;;;;;SV3355
    Vial: 10          ;;;;;ppbna2.sub;SV3349
    Meth: IXBN1.M     Barcode: 020706B1.b
    Data: ICV050.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13  Type: Sample      DF0207B2;;;;;SV3361
    Vial: 1           ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M  Barcode: 020706eB1.b
    Data: DF0207B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14  Type: Sample      CCV050PPM;;;;;SV3369
    Vial: 11          ;;;;;ppbna.sub;SV3338
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: CCV050.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15  Type: Sample      APP9ACCV050PPM;;;;;SV3383
    Vial: 12          ;;;;;app9a.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: CCVAPPA.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16  Type: QC          SBLK0207B1;1000;1000;1;UG/L;07-FEB-2006
    Vial: 13          ;BLANK;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: SBLK0207.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17  Type: QC          SBLK0207B1LCS;1000;1000;1;UG/L;07-FEB-2006
    Vial: 14          ;LCS;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: SLCS0207.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0602039-03;1000;1000;1;UG/L;07-FEB-2006
    Vial: 15          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203903.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0602039-06;1000;1000;1;UG/L;07-FEB-2006
    Vial: 16          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203906.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0602039-08;1000;1000;1;UG/L;07-FEB-2006
    Vial: 17          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203908.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      0602039-09;1000;1000;1;UG/L;07-FEB-2006
    Vial: 18          ch2.b02039;;;;020706B1;ch2pah.sub;SV3380
    Meth: IXBN1.M     Barcode: 020706eB1.b
    Data: 0203909.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: QC          SBLK0207BS1;15;1000;1;UG/KG;07-FEB-2006
    Vial: 19          ;BLANK;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: BLK0207.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: QC          SBLK0207BS1LCS;15;1000;1;UG/KG;07-FEB-2006
    Vial: 20          ;LCS;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: LCS0207.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      0602039-01;15.1;1000;1;UG/KG;07-FEB-2006
    Vial: 21          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203901.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      0602039-02;15.1;1000;1;UG/KG;07-FEB-2006
    Vial: 22          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203902.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      0602039-04;15.5;1000;1;UG/KG;07-FEB-2006
    Vial: 23          ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M    Barcode: 020706eB1.b
    Data: 0203904.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

```
    Quant Report      :Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
27  Type: Sample       0602039-05;15.4;1000;1;UG/KG;07-FEB-2006
    Vial: 24           ch2.b02039;;;;020706BS1;ch2pah.sub;SV3380
    Meth: IXSOX1.M     Barcode: 020706eB1.b
    Data: 0203905.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
28  Type: Sample       0601139-01;100;1000;1;UG/L;25-JAN-2006
    Vial: 25           tet.b01139;;;;012506B1;tclp.sub;SV3380
    Meth: IXBN1.M      Barcode: 020706eB1.b
    Data: 0113901D.D   Samp Amt: 0          Multiplr: 10
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
29  Type: Sample       0601192-03;700;1000;1;UG/L;07-FEB-2006
    Vial: 26           sha.b01192;;;;020706B1;it-tcl.sub;SV3380
    Meth: IXBN1.M      Barcode: 020706eB1.b
    Data: 0119203R.D   Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
30
-------------------------------------------------------------------------------
```

Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/20/06
5279

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0419B1	DFTPPBN1	DF0419B1;;;;;SV3529
4	Sample	2	CAL001	IXBN1	CAL001PPM;;;;;SV3350-1
5	Sample	3	CAL002	IXBN1	CAL002PPM;;;;;SV3350-2
6	Sample	4	CAL005	IXBN1	CAL005PPM;;;;;SV3350-3
7	Sample	5	CAL010	IXBN1	CAL010PPM;;;;;SV3350-4
8	Sample	6	CAL020	IXBN1	CAL020PPM;;;;;SV3350-5
9	Sample	7	CAL030	IXBN1	CAL030PPM;;;;;SV3350-6
10	Sample	8	CAL040	IXBN1	CAL040PPM;;;;;SV3350-7
11	Sample	9	CAL050	IXBN1	CAL050PPM;;;;;SV3350-8
12	Sample	10	CAL060	IXBN1	CAL060PPM;;;;;SV3350-9
13	Sample	11	CAL070	IXBN1	CAL070PPM;;;;;SV3350-10
14	Sample	12	CAL080	IXBN1	CAL080PPM;;;;;SV3350-11
15	Sample	13	CAL090	IXBN1	CAL090PPM;;;;;SV3350-12
16	Sample	14	CAL100	IXBN1	CAL100PPM;;;;;SV3350-13
17	Sample	15	ICV050	IXBN1	ICV050PPM;;;;;SV3355
18	Sample	16	ICV050EX	IXBN1	ICV050PPMex;;;;;SV3356

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

4/20/06
5250

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 041906B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D	:Default	Lib. Search Rep.:Default
	Area% Report	:Default	Post-Quant Macro:Default
	Quant Report	:Default	CR Spreadsheet :Default
	CR Database		
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 041906B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D	:Default	Lib. Search Rep.:Default
	Area% Report	:Default	Post-Quant Macro:Default
	Quant Report	:Default	CR Spreadsheet :Default
	CR Database		
3	Type: Sample	DF0419B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 041906B1.b	
	Data: DF0419B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	CAL001PPM;;;;;SV3350-1	
	Vial: 2	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL001.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	CAL002PPM;;;;;SV3350-2	
	Vial: 3	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL002.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	CAL005PPM;;;;;SV3350-3	
	Vial: 4	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL005.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	CAL010PPM;;;;;SV3350-4	
	Vial: 5	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL010.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	CAL020PPM;;;;;SV3350-5	
	Vial: 6	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	

Quant Report :Default Post Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

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9 Type: Sample CAL030PPM;;;;;SV3350-6
Vial: 7 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL030.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample CAL040PPM;;;;;SV3350-7
Vial: 8 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL040.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

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11 Type: Sample CAL050PPM;;;;;SV3350-8
Vial: 9 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL050.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample CAL060PPM;;;;;SV3350-9
Vial: 10 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL060.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample CAL070PPM;;;;;SV3350-10
Vial: 11 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL070.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample CAL080PPM;;;;;SV3350-11
Vial: 12 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL080.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample CAL090PPM;;;;;SV3350-12
Vial: 13 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL090.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample CAL100PPM;;;;;SV3350-13
Vial: 14 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL100.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample ICV050PPM;;;;;SV3355
Vial: 15 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: ICV050.D Samp Amt: 0 Multiplr: 1

```
18  Type: Sample        ICV050PPMex;;;;;SV3356
    Vial: 16            ;;;;;ppbna1.sub;3549
    Meth: IXBN1.M       Barcode: 041906B1.b
    Data: ICV050EX.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
```

4/19/06 5282

Comment: SW846-8270C/625
Operator: ADM
Data Path: F:\HPCHEM\1\DATA\042106b3\
Pre-Seq Cmd:
Post-Seq Cmd:

4/21/06
2497

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0421B1	DFTPPLOW	DF0421B1;;;;;SV3177
3	Sample	2	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3534
4	Sample	3	PAH001	PAHLOWS	PAHCCV0.10PPM;;;;;SV3490-1
5	Sample	4	PAH002	PAHLOWS	PAHCCV0.20PPM;;;;;SV3490-2
6	Sample	5	PAH003	PAHLOWS	PAHCCV0.40PPM;;;;;SV3490-3
7	Sample	6	PAH004	PAHLOWS	PAHCCV0.60PPM;;;;;SV3490-4
8	Sample	7	PAH006	PAHLOWS	PAHCCV1.00PPM;;;;;SV3490-6
9	Sample	8	PAH008	PAHLOWS	PAHCCV2.50PPM;;;;;SV3490-8
10	Sample	9	PAH009	PAHLOWS	PAHCCV5.00PPM;;;;;SV3490-9
11	Sample	10	PAH011	PAHLOWS	PAHCCV10.0PPM;;;;;SV3490-11
12	Sample	11	PAH013	PAHLOWS	PAHCCV20.0PPM;;;;;SV3490-13
13	Sample	12	PAHICV	PAHLOWS	PAHICV5.0PPM;;;;;SV3397

Sequence Name: C:\HPCHEM\1\SEQUENCE\042106B3.S
Comment: SW846-8270C/625
Operator: ADM
Data Path: F:\HPCHEM\1\DATA\042106b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/22/06 DJ

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;SV3177	
	Vial: 100	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: BLANK.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
2	Type: Sample	DF0421B1;;;;;SV3177	
	Vial: 1	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: DF0421B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
3	Type: Sample	PAHCCV5.0PPM;;;;;SV3534	
	Vial: 2	;;;;;;pahsurr.sub;3459	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAHCCV.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
4	Type: Sample	PAHCCV0.10PPM;;;;;SV3490-1	
	Vial: 3	;;;;;;pahsurr.sub;3459	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH001.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
5	Type: Sample	PAHCCV0.20PPM;;;;;SV3490-2	
	Vial: 4	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH002.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
6	Type: Sample	PAHCCV0.40PPM;;;;;SV3490-3	
	Vial: 5	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH003.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
7	Type: Sample	PAHCCV0.60PPM;;;;;SV3490-4	
	Vial: 6	;;;;;;pahsurr.sub;3489	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAH004.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method

```
8   Type: Sample        PAHCCV1.00PPM;;;;;SV3490-6
    Vial: 7             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH006.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
9   Type: Sample        PAHCCV2.50PPM;;;;;SV3490-8
    Vial: 8             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH008.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
10  Type: Sample        PAHCCV5.00PPM;;;;;SV3490-9
    Vial: 9             ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH009.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
11  Type: Sample        PAHCCV10.0PPM;;;;;SV3490-11
    Vial: 10            ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH011.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
12  Type: Sample        PAHCCV20.0PPM;;;;;SV3490-13
    Vial: 11            ;;;;;;pahsurr.sub;3489
    Meth: PAHLOWS.M     Barcode:
    Data: PAH013.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
13  Type: Sample        PAHICV5.0PPM;;;;;SV3397
    Vial: 12            ;;;;;;pahsurr.sub;3353
    Meth: PAHLOWS.M     Barcode:
    Data: PAHICV.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

4/22/06
2499

Sequence Name: C:\[illegible]
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071006B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

7/11/06 5:62

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample 7/10 8:14	1	DF0710B1	DFTPPBN1	DF0710B1;;;;;SV3529
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3607
5	QC	3	FBLK0706	IXBN1	FBLK0706B1;100;1000;1;UG/L;06-JUL-200
6	QC	4	SBLK0706	IXBN1	SBLK0706B1;1000;1000;1;UG/L;06-JUL-20
7	QC	5	SLCS0706	IXBN1	SBLK0706B1LCS;1000;1000;1;UG/L;06-JUL
8	Sample	6	0629904	IXSOX1	0606299-04;15.1;1000;1;UG/KG;29-JUN-2
9	Sample	7	0621705D	IXSOX1	0606217-05;15.5;1000;1;UG/KG;29-JUN-2
10	QC	8	SBLK0710	IXSOX1	SBLK0710BS1;15;500;1;UG/KG;10-JUL-200
11	QC	9	SLCS0710	IXSOX1	SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-
12	Sample	10	0702203	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
13	QC	11	0702203M	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
14	QC	12	0702203S	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
15	Sample	95	APP9ACCV	IXBN1	APP9ACCV050PPM;;;;;SV3625
16	Sample	13	0702204	IXSOX1	0607022-04;15.0;500;1;UG/KG;10-JUL-20
17	Sample	14	0702205	IXSOX1	0607022-05;15.0;500;1;UG/KG;10-JUL-20
18	Sample	15	0702206	IXSOX1	0607022-06;15.1;500;1;UG/KG;10-JUL-20
19	Sample	16	0702207	IXSOX1	0607022-07;15.1;500;1;UG/KG;10-JUL-20
20	Sample	17	0702208	IXSOX1	0607022-08;15.1;500;1;UG/KG;10-JUL-20
21	Sample	18	0702209	IXSOX1	0607022-09;15.2;500;1;UG/KG;10-JUL-20
22	Sample	19	0702210	IXSOX1	0607022-10;15.3;500;1;UG/KG;10-JUL-20
23	Sample 7/10 19:49	20	0702211	IXSOX1	0607022-11;15.2;500;1;UG/KG;10-JUL-20
24	Sample	100	BLANK02	DFTPPBN1	
25	Sample	100	BLANK03	DFTPPBN1	
26	Sample	1	DF0710B2	DFTPPBN1	DF0710B2;;;;;SV3529
27	Sample	2	CCV050E	IXBN1	CCV050PPM;;;;;SV3607
28	Sample	21	0636701	IXBN1	0606367-01;100;1000;1;UG/L;06-JUL-200
29	Sample	22	0638801	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
30	QC	23	0638801D	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
31	QC	24	0638801M	IXBN1	0606388-01;100;1000;1;UG/L;06-JUL-200
32	Sample	25	0638802	IXBN1	0606388-03;100;1000;1;UG/L;06-JUL-200
33	Sample	26	0638803	IXBN1	0606388-04;100;1000;1;UG/L;06-JUL-200
34	Sample	27	0638804	IXBN1	0606388-04;100;1000;1;UG/L;06-JUL-200

Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071006B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

D 7/11/06
5569

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 071006B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D		
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 071006B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D		
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
3	Type: Sample	DF0710B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 071006B1.b	
	Data: DF0710B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
4	Type: Sample	CCV050PPM;;;;;SV3607	
	Vial: 2	;;;;;ppbna.sub;3605	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: CCV050.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
5	Type: QC	FBLK0706B1;100;1000;1;UG/L;06-JUL-2006	
	Vial: 3	;BLANK;;;070606B1;tclp.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: FBLK0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
6	Type: QC	SBLK0706B1;1000;1000;1;UG/L;06-JUL-2006	
	Vial: 4	;BLANK;;;070606B1;ppbna.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: SBLK0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
7	Type: QC	SBLK0706B1LCS;1000;1000;1;UG/L;06-JUL-2006	
	Vial: 5	;LCS;;;070606B1;ppbna.sub;3619	
	Meth: IXBN1.M	Barcode: 071006B1.b	
	Data: SLCS0706.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
8	Type: Sample	0606299-04;15.1;1000;1;UG/KG;29-JUN-2006	
	Vial: 6	tet.b06299;;;;062906BS1;ppbna.sub;3619	
	Meth: IXSOX1.M	Barcode: 071006B1.b	

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample      0606217-05;15.5;1000;1;UG/KG;29-JUN-2006
    Vial: 7           tet.b06217;;;;062906BS1;ppbna.sub;3619
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0621705D.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: QC          SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006
    Vial: 8           ;BLANK;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: SBLK0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: QC          SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006
    Vial: 9           ;LCS;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: SLCS0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 10          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: QC          0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 11          ch2.b07022;MS;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: QC          0607022-03;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 12          ch2.b07022;MSD;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702203S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      APP9ACCV050PPM;;;;;SV3625
    Vial: 95          ;;;;;app9a.sub;3623
    Meth: IXBN1.M     Barcode: 071006B1.b
    Data: APP9ACCV.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample      0607022-04;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 13          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702204.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      0607022-05;15.0;500;1;UG/KG;10-JUL-2006
    Vial: 14          ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M    Barcode: 071006B1.b
    Data: 0702205.D   Samp Amt: 0          Multiplr: 1
```

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    Area% Report      :Default          Post-Quant Macro:Default
    Quant Report      :Default          CR Spreadsheet  :Default
    CR Database       :Default
-------------------------------------------------------------------------
18  Type: Sample       0607022-06;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 15           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702206.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample       0607022-07;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 16           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702207.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample       0607022-08;15.1;500;1;UG/KG;10-JUL-2006
    Vial: 17           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702208.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample       0607022-09;15.2;500;1;UG/KG;10-JUL-2006
    Vial: 18           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702209.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample       0607022-10;15.3;500;1;UG/KG;10-JUL-2006
    Vial: 19           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702210.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample       0607022-11;15.2;500;1;UG/KG;10-JUL-2006
    Vial: 20           ch2.b07022;;;;071006BS1;ppbna.sub;3623
    Meth: IXSOX1.M     Barcode: 071006B1.b
    Data: 0702211.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample
    Vial: 100          ;;;;;ppbna .sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample
    Vial: 100          ;;;;;ppbna .sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample       DF0710B2;;;;;SV3529
    Vial: 1            ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M   Barcode: 071006eB1.b
    Data: DF0710B2.D   Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default

uence: 071006B1.S   Last Modified: Mon Jul 10 14:29:14 2006   Page: 3
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    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
27  Type: Sample      CCV050PPM;;;;;SV3607
    Vial: 2           ;;;;;ppbna.sub;3605
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
28  Type: Sample      0606367-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 21          aaa.b06367;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0636701.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
29  Type: Sample      0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 22          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
30  Type: QC          0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 23          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801D.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
31  Type: QC          0606388-01;100;1000;1;UG/L;06-JUL-2006
    Vial: 24          aaa.b06388;MS;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638801M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
32  Type: Sample      0606388-03;100;1000;1;UG/L;06-JUL-2006
    Vial: 25          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638802.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
33  Type: Sample      0606388-04;100;1000;1;UG/L;06-JUL-2006
    Vial: 26          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638803.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
34  Type: Sample      0606388-04;100;1000;1;UG/L;06-JUL-2006
    Vial: 27          aaa.b06388;;;;070606B1;tclp.sub;3619
    Meth: IXBN1.M     Barcode: 071006eB1.b
    Data: 0638804.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

Sequence Name: C:\HPCHEM\1\SEQUENCE\071106B1.S
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071106B1\
Pre-Seq Cmd:
Post-Seq Cmd:

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Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0711B1	DFTPPBN1	DF0711B1;;;;;SV3529 0923 7-11-06
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3607
5	Sample	3	APP9ACCV	IXBN1	APP9ACCV050PPM;;;;;SV3625
6	QC	4	SBLK0710	IXSOX1	SBLK0710BS1;15;500;1;UG/KG;10-JUL-200
7	QC	5	SLCS0710	IXSOX1	SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-
8	Sample	6	0702208D	IXSOX1	0607022-08;15.1;500;1;UG/KG;10-JUL-20
9	Sample	7	0702210D	IXSOX1	0607022-10;15.3;500;1;UG/KG;10-JUL-20
10	Sample	8	0702206D	IXSOX1	0607022-06;15.1;500;1;UG/KG;10-JUL-20
11	Sample	9	0702207D	IXSOX1	0607022-07;15.1;500;1;UG/KG;10-JUL-20
12	Sample	10	0702205D	IXSOX1	0607022-05;15.0;500;1;UG/KG;10-JUL-20
13	Sample	11	0702209D	IXSOX1	0607022-09;15.2;500;1;UG/KG;10-JUL-20
14	Sample	12	0702203D	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20
15	Sample	13	0702204D	IXSOX1	0607022-04;15.0;500;1;UG/KG;10-JUL-20
16	Sample	14	0702211D	IXSOX1	0607022-11;15.2;500;1;UG/KG;10-JUL-20
17	Sample	15	0702203R	IXSOX1	0607022-03;15.0;500;1;UG/KG;10-JUL-20 1727 7-11-06

Sequence Name: C:\HPCHEM\1\SEQUENCE\071106B1.S
Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071106B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Sample Vial: 99 Meth: IXBN1.M Data: PRIMER.D Area% Report :Default Quant Report :Default CR Database :Default ;;;;;ppbna .sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2	Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK01.D Area% Report :Default Quant Report :Default CR Database :Default ;;;;;ppbna .sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3	Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0711B1.D Area% Report :Default Quant Report :Default CR Database :Default DF0711B1;;;;;SV3529 ;;;;;ppbna.sub; Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4	Type: Sample Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default CCV050PPM;;;;;SV3607 ;;;;;ppbna.sub;3605 Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5	Type: Sample Vial: 3 Meth: IXBN1.M Data: APP9ACCV.D Area% Report :Default Quant Report :Default CR Database :Default APP9ACCV050PPM;;;;;SV3625 ;;;;;ppbna.sub;3605 Barcode: 071106B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6	Type: QC Vial: 4 Meth: IXSOX1.M Data: SBLK0710.D Area% Report :Default Quant Report :Default CR Database :Default SBLK0710BS1;15;500;1;UG/KG;10-JUL-2006 ;BLANK;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7	Type: QC Vial: 5 Meth: IXSOX1.M Data: SLCS0710.D Area% Report :Default Quant Report :Default CR Database :Default SBLK0710BS1LCS;15;500;1;UG/KG;10-JUL-2006 ;LCS;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8	Type: Sample Vial: 6 Meth: IXSOX1.M 0607022-08;15.1;500;1;UG/KG;10-JUL-2006 ch2.b07022;;;;071006BS1;ch2pah.sub;3623 Barcode: 071106B1.b

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Data: 0702208D.D Samp Amt: 0 Multiplr: 2
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

9 Type: Sample 0607022-10;15.3;500;1;UG/KG;10-JUL-2006
Vial: 7 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702210D.D Samp Amt: 0 Multiplr: 2
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample 0607022-06;15.1;500;1;UG/KG;10-JUL-2006
Vial: 8 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702206D.D Samp Amt: 0 Multiplr: 200
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample 0607022-07;15.1;500;1;UG/KG;10-JUL-2006
Vial: 9 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702207D.D Samp Amt: 0 Multiplr: 100
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample 0607022-05;15.0;500;1;UG/KG;10-JUL-2006
Vial: 10 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702205D.D Samp Amt: 0 Multiplr: 20
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample 0607022-09;15.2;500;1;UG/KG;10-JUL-2006
Vial: 11 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702209D.D Samp Amt: 0 Multiplr: 10
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Vial: 12 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702203D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample 0607022-04;15.0;500;1;UG/KG;10-JUL-2006
Vial: 13 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702204D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample 0607022-11;15.2;500;1;UG/KG;10-JUL-2006
Vial: 14 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702211D.D Samp Amt: 0 Multiplr: 5
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample 0607022-03;15.0;500;1;UG/KG;10-JUL-2006
Vial: 15 ch2.b07022;;;;071006BS1;ch2pah.sub;3623
Meth: IXSOX1.M Barcode: 071106B1.b
Data: 0702203R.D Samp Amt: 0 Multiplr: 1

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Area% Report	:Default	Lib. Search Rep.	:Default
Quant Report	:Default	Post-Quant Macro	:Default
CR Database	:Default	CR Spreadsheet	:Default

Comment: SW846-8270C/625
Operator: SDB
Data Path: F:\HPCHEM\1\DATA\071706b3\
Pre-Seq Cmd:
Post-Seq Cmd:

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Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0717B1	DFTPPLOW	DF0717B1;;;;;SV3177
3	Sample	2	SPCC020	PAHLOWS	SPCC020PPM;;;;;SV3628
4	Sample	3	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3624
5	Sample	4	SBLK0710	PAHLOWW	SBLK0710B1;1;1000;500;1;UG/L;
6	Sample	5	SLCS0710	PAHLOWW	SBLK0710B1LCS;1;1000;500;1;UG
7	Sample	6	0702201	PAHLOWW	0607022-01;1;980;500;1;UG/L;1
8	Sample	7	0702202	PAHLOWW	0607022-02;1;960;500;1;UG/L;1
9	Sample	8	OPHOS20	PAHLOWW	OPHOS020PPM;1;960;500;1;UG/L;
10	Sample	9	PHOS05	PAHLOWW	OPHOS0.50PPM;1;960;500;1;UG/L
11	Sample	10	PHOS01	PAHLOWW	OPHOS0.10PPM;1;960;500;1;UG/L

Comment: SW846-8270C/625
Operator: SDB
Data Path: F:\HPCHEM\1\DATA\071706b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;SV3177	
	Vial: 100	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: BLANK.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
2	Type: Sample	DF0717B1;;;;;SV3177	
	Vial: 1	;3;DFTPP;;;;;	
	Meth: DFTPPLOW.M	Barcode:	
	Data: DF0717B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
3	Type: Sample	SPCC020PPM;;;;;SV3628	
	Vial: 2	;;;;;;pahsurr.sub;3620	
	Meth: PAHLOWS.M	Barcode:	
	Data: SPCC020.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
4	Type: Sample	PAHCCV5.0PPM;;;;;SV3624	
	Vial: 3	;;;;;;pahsurr.sub;3620	
	Meth: PAHLOWS.M	Barcode:	
	Data: PAHCCV.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
5	Type: Sample	SBLK0710B1;1;1000;500;1;UG/L;10-JUL-2006	
	Vial: 4	;3;BLANK;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: SBLK0710.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
6	Type: Sample	SBLK0710B1LCS;1;1000;500;1;UG/L;10-JUL-2006	
	Vial: 5	;3;LCS;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: SLCS0710.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method
7	Type: Sample	0607022-01;1;980;500;1;UG/L;10-JUL-2006	
	Vial: 6	ch2.b07022;;;;;071006B1;pahsurr.sub;3620	
	Meth: PAHLOWW.M	Barcode:	
	Data: 0702201.D	Samp Amt: 0	Multiplr: 1
	Area% Report :per Method		Lib. Search Rep :per Method
	Quant Report :per Method		Post-Quant Macro:per Method
	CR Database :per Method		CR Spreadsheet :per Method

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```
8    Type: Sample          ch2.b07022;;;;;071006B1;pahsurr.sub;3620
     Vial: 7               Barcode:
     Meth: PAHLOWW.M       Samp Amt: 0          Multiplr: 1
     Data: 0702202.D      :per Method       Lib. Search Rep :per Method
     Area% Report         :per Method       Post-Quant Macro:per Method
     Quant Report         :per Method       CR Spreadsheet  :per Method
     CR Database
-------------------------------------------------------------------------
9    Type: Sample          OPHOS020PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 8               oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: OPHOS20.D       Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10   Type: Sample          OPHOS0.50PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 9               oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: PHOS05.D        Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11   Type: Sample          OPHOS0.10PPM;1;960;500;1;UG/L;10-JUL-2006
     Vial: 10              oph.bophos;;;;;071006B1;pahsurr.sub;3620
     Meth: PAHLOWW.M       Barcode:
     Data: PHOS01.D        Samp Amt: 0          Multiplr: 1
     Area% Report         :per Method       Lib. Search Rep :per Method
     Quant Report         :per Method       Post-Quant Macro:per Method
     CR Database          :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

7/18/06 2 of 7

ANALYTICAL REPORT

MAIN DATA PACKAGE – ORGANIC

PETROLEUM RANGE ORGANICS SECTION

CH2M Hill, Inc.

WO #0607022
Part 2 of 3

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607022

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607022

Lab Sample ID	Client Sample ID	Dilution
0607022-01	51EQB1W060706	1
0607022-02	51EQB2W060706	1
0607022-03	51CFM01S060706	1
0607022-04	51CFM02S060706	1
0607022-05	51CFM03S060706	5
0607022-06	51CFM04S060706	10
0607022-07	51CFM05S060706	20
0607022-08	51CFM06S060706	1
0607022-09	51CFM07S060706	10
0607022-10	51CFM08S060706	1
0607022-11	51DUP1S060706	1

Florida Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, sonication extraction followed by capillary column GC/FID) for soils upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Samples exceeding a concentration of 460mg/kg were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22 and >C22-C36. The associated QC samples FS1BLK0710/LCS were also speciated in this manner.
- Calibration Criteria: All method calibration criteria were met with the exception that the surrogate nonatriacontane (C39) exceeded the limit of 20% RSD at 24.1%.
- Blank Results: Method blanks FS1BLK0710 and FW1BLK0710 have reported concentrations of the target analytes. Reported concentrations in the associated samples within 5x the method blank concentration are flagged with a "B". None of the speciated range concentrations reported were within 5x the method blank concentration.
- Surrogate Recoveries: All surrogate recoveries from undiluted analyses were within limits.
- FS1BLK0710LCS/LCSD results: All recoveries and relative percent differences were within limits.
- FW1BLK0710LCS results: Recovery exceeded the limit of 118% at 129%. Reported concentrations in the associated samples are less than the quantitation limit and flagged "J" as estimated.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-001 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7027-															
01 1	51EQB1W060706	Pre-Equipment Blank	W	07/06/06	15:10	C	3 Day	3	3	3J+ HOLD PT 3J+ UNPRES			Grab		
02 2	51EQB2W060706	Post-Equipment Blank	W	07/06/06	17:00	C	3 Day	3	3				Grab		
03 3	51CFM01S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	15:45	C	3 Day	4	1	3J+ 10,1M- UNPRES			Grab		
04 4	51CFM02S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:00	C	3 Day	4	1				Grab		
05 5	51CFM03S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:10	C	3 Day	4	1				Grab		
06 6	51CFM04S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:17	C	3 Day	4	1				Grab		
07 7	51CFM05S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:25	C	3 Day	4	1				Grab		
08 8	51CFM06S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:32	C	3 Day	4	1				Grab		
09 9	51CFM07S060706	Post-Excavation Confirmatory Sampling	S	07/06/06	16:40	C	3 Day	4	1				Grab		
-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	1300

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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Empirical Laboratories

Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-001 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include) BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	10 51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J, 10, 11 - UNPRES	Grab		
03	11 51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03	12 51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11	13 51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7025 01	14 51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M, 1K-UNPRES	Composite		
7022 12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCLPH<2			
7023-02	TB-2-060706	√	W	√				2			√			

COURIER AND SHIPPING NUMBER: **FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202**

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 3.0

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	1330

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607022 COC ID(s): 346570-001

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Boston Today's Date 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-7

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen (C)
Frozen _____

# of Coolers 1 Temp. of Coolers 3.0

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

Empirical Laboratories

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0710	98	126					0
02	FS1BLK0710LC	98	76					0
03	51CFM02S0607	94	90					0
04	51CFM06S0607	99	65					0
05	51CFM08S0607	86	90					0
06	51DUP1S06070	80	93					0
07	51CFM01S0607	85	109					0
08	51CFM01S0607	64	79					0
09	51CFM01S0607	102	143					0
10	51CFM03S0607	73D	125D					0
11	51CFM04S0607	61D	150D					0
12	51CFM05S0607	89D	159D					0
13	51CFM07S0607	58D	136D					0
14								
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25								
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27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0710	98	126					0
02	FS1BLK0710LC	98	76					0
03	51CFM03S0607	73D	125D					0
04	51CFM04S0607	61D	150D					0
05	51CFM05S0607	89D	159D					0
06	51CFM07S0607	58D	136D					0
07								
08								
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29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0710	114	136					0
02	FW1BLK0710LC	114	88					0
03	51EQB1W06070	113	102					0
04	51EQB2W06070	105	85					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
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19								
20								
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22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= Ortho-Terphenyl	(30-140)	0.050
S2	= Nonatriacontane	(20-150)	0.30

\# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FS1BLK0710

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	128.0	7.238	141.4	105	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FS1BLK0710

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
>C8-C10	6.400	0.7123	4.766	63	50-140
>C10-C12	6.400	0.1890	6.190	94	50-140
>C12-C16	12.80	0.4823	14.07	106	50-140
>C16-C22	38.40	0.9726	48.70	124	50-140
>C22-C36	44.80	5.511	49.14	97	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: FW1BLK0710

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.06896	4.195	129*	55-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix Spike - Client Sample No.: 51CFM01S060706 Lab Sample ID: 0607022-03

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Petroleum Range	129.6	168.3	259.3	70	50-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	130.6	385.1	166*	39	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 1 out of 2 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FS1BLK0710 Lab File ID: 014R0201

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2301 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0710LC	FS1BLK0710LCS	07/13/06	
02	51CFM02S0607	0607022-04	07/14/06	
03	51CFM06S0607	0607022-08	07/14/06	
04	51CFM08S0607	0607022-10	07/14/06	
05	51DUP1S06070	0607022-11	07/14/06	
06	51CFM01S0607	0607022-03	07/14/06	
07	51CFM01S0607	0607022-03MS	07/14/06	
08	51CFM01S0607	0607022-03MSD	07/14/06	
09	51CFM03S0607	0607022-05	07/14/06	
10	51CFM04S0607	0607022-06	07/14/06	
11	51CFM05S0607	0607022-07	07/14/06	
12	51CFM07S0607	0607022-09	07/14/06	
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FW1BLK0710 Lab File ID: 010R0201

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2050 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0710LC	FW1BLK0710LCS	07/13/06	
02	51EQB1W06070	0607022-01	07/13/06	
03	51EQB2W06070	0607022-02	07/13/06	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Lab Sample ID: FS1BLK0710 Lab File ID: 014R0201

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 07/10/06

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2301 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0710LC	FS1BLK0710LCS	07/13/06	
02	51CFM03S0607	0607022-05	07/14/06	
03	51CFM04S0607	0607022-06	07/14/06	
04	51CFM05S0607	0607022-07	07/14/06	
05	51CFM07S0607	0607022-09	07/14/06	
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB1W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 012R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 21:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.082	JB

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\012R0201.D
Lab Smp Id: 0607022-01 Client Smp ID: 51EQB1W060706
Inj Date : 13-JUL-2006 21:56
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-01
Misc Info : ch2.f07022;1000;2;071006FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

2/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	1.963-19.793			38869	40.8566	0.08171(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	42797	28.2485	0.05650(M)
$ 23 Nonatriacontane	18.926	18.920	0.006	38092	152.593	0.3052

QC Flag Legend

M - Compound response manually integrated.

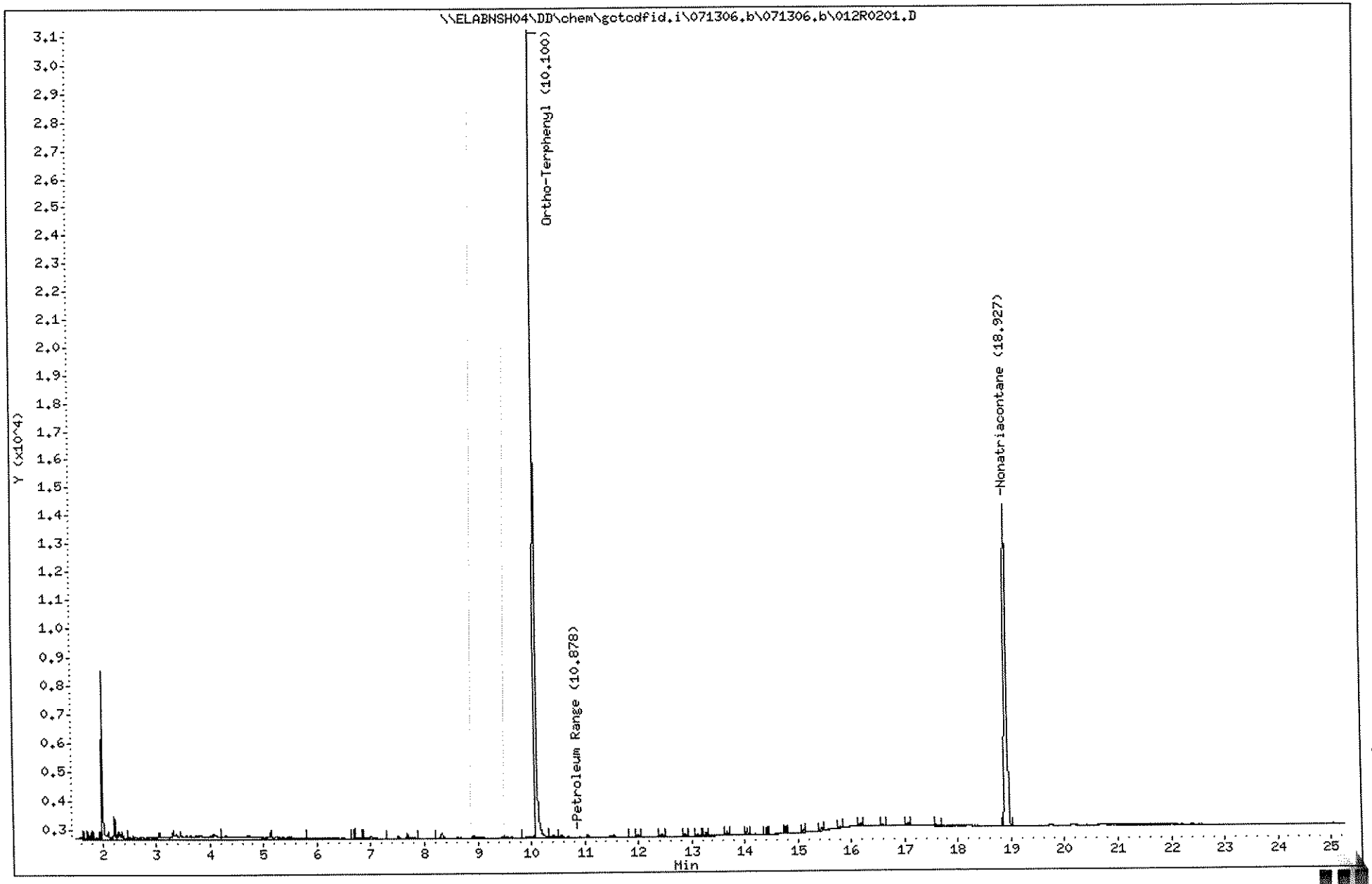
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\012R0201.D
Date : 13-JUL-2006 21:56
Client ID: 51EQB1W060706
Sample Info: 0607022-01
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
J.H. 7.14.06

000018



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB2W060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: 0607022-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 013R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 22:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	0.060	JB

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J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\013R0201.D
Lab Smp Id: 0607022-02 Client Smp ID: 51EQB2W060706
Inj Date : 13-JUL-2006 22:28
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-02
Misc Info : ch2.f07022;1000;2;071006FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	1.963-19.793			28724	30.1929	0.06038(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	39660	26.1779	0.05236(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	31962	128.037	0.2561

QC Flag Legend

M - Compound response manually integrated.

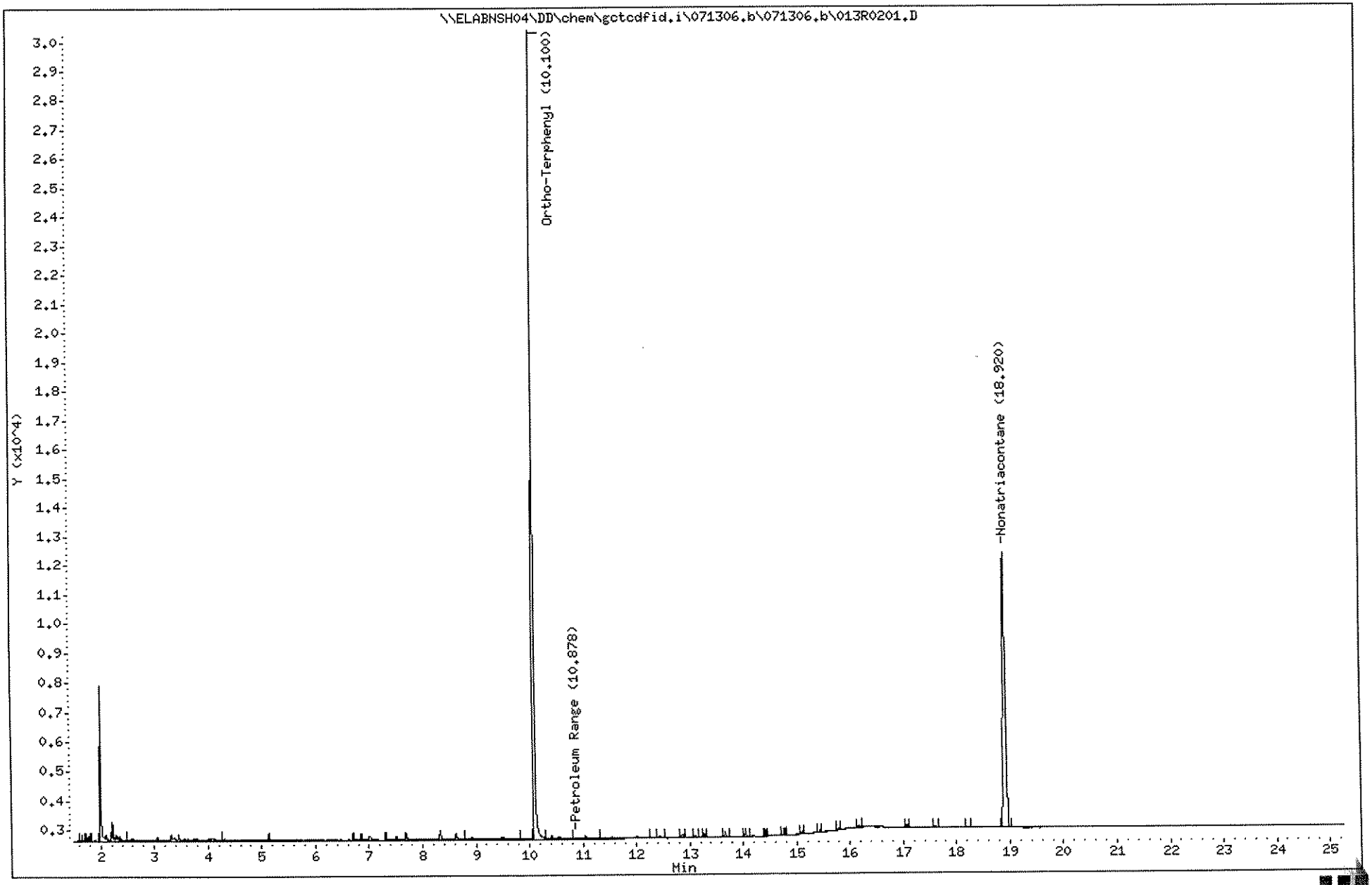
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\013R0201.D
Date : 13-JUL-2006 22:28
Client ID: 51EQB2W060706
Sample Info: 0607022-02
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C 7.14.06 JH

000021



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 021R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 02:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	170	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\021R0201.D
Lab Smp Id: 0607022-03 Client Smp ID: 51CFM01S060706
Inj Date : 14-JUL-2006 02:50
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-03
Misc Info : ch2.f07022;25.3;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.300	Sample Amount
Vi	1.000	Injection Volume
Solids	98.000	Percent Solids

MC 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			1985369	2086.89	168.3(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	32330	21.3397	1.721(M)
$ 23 Nonatriacontane	18.926	18.920	0.006	40839	163.597	13.20(M)

QC Flag Legend

M - Compound response manually integrated.

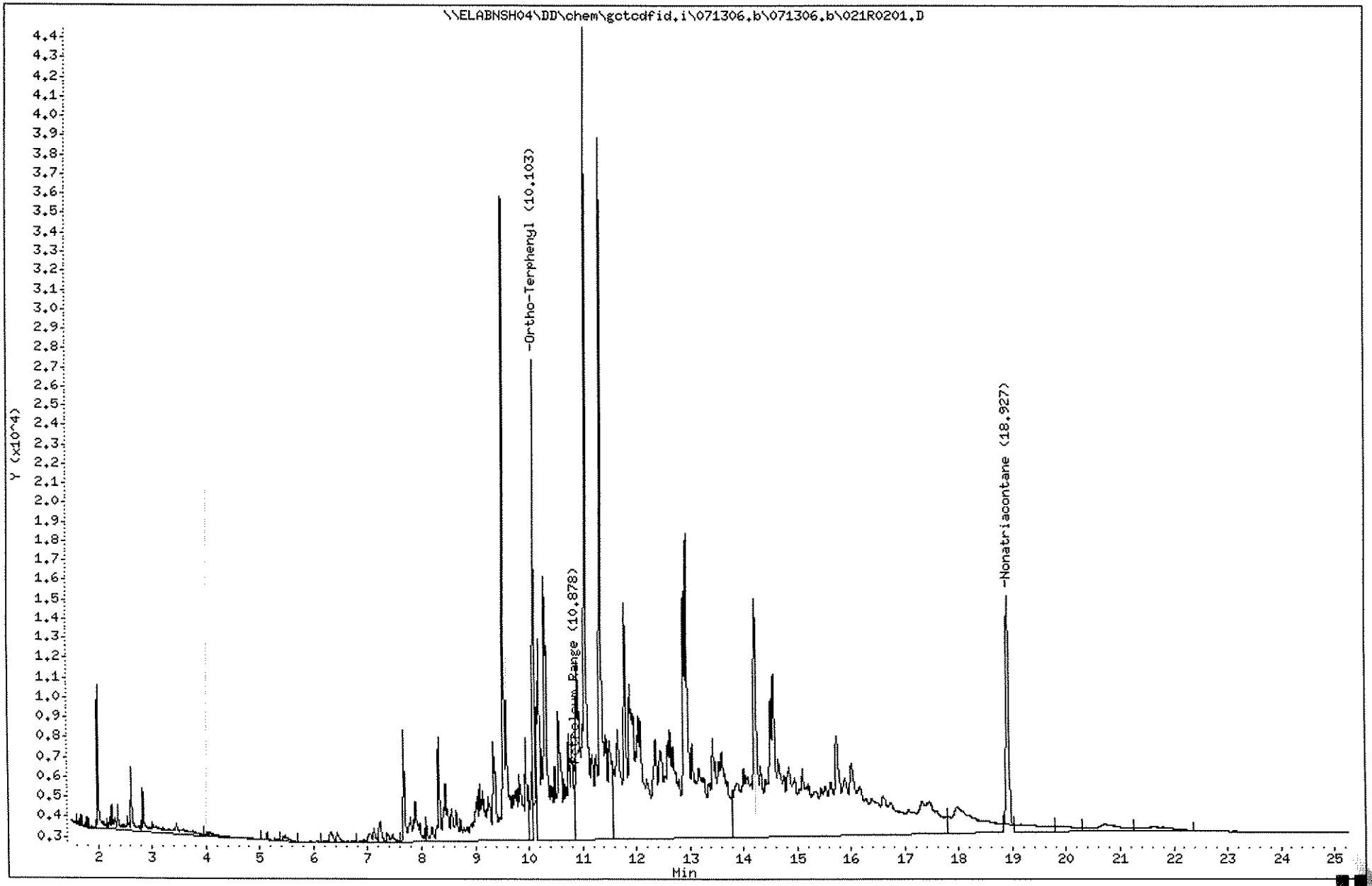
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\021R0201.D
Date : 14-JUL-2006 02:50
Client ID: 51CFM01S060706
Sample Info: 0607022-03
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
7.14.06

000024



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM02S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-04

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 016R0201

% Moisture: 3 decanted: (Y/N) N Date Sampled: 07/06/06 16:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	200	

Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\016R0201.D
Lab Smp Id: 0607022-04 Client Smp ID: 51CFM02S060706
Inj Date : 14-JUL-2006 00:06
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-04
Misc Info : ch2.f07022;25.1;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	97.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			2313749	2432.07	199.8(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	35606	23.5020	1.930(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	33873	135.692	11.15(M)

QC Flag Legend

M - Compound response manually integrated.

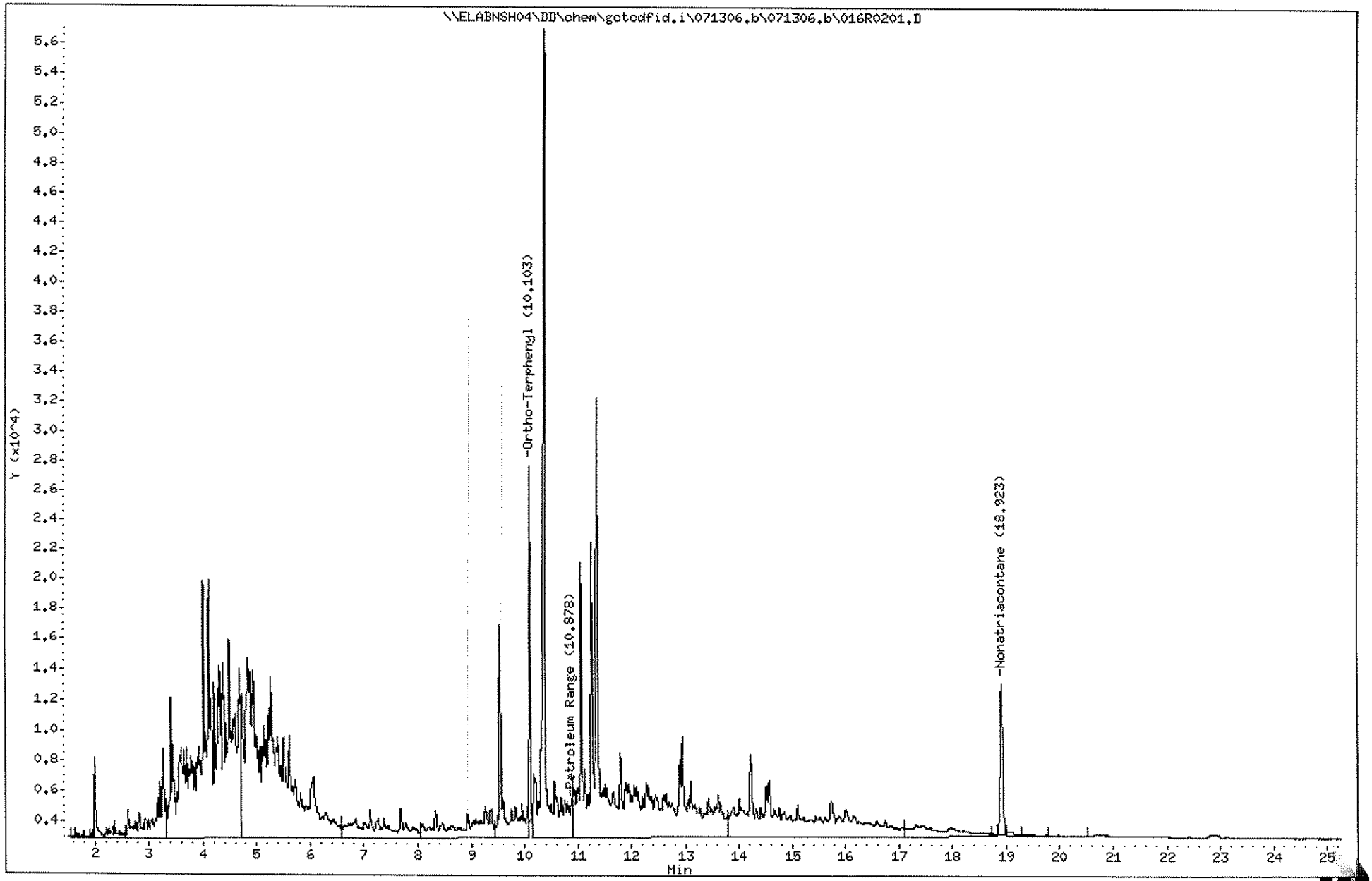
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\016R0201.D
Date : 14-JUL-2006 00:06
Client ID: 51CFM02S060706
Sample Info: 0607022-04
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
J.H. 9.14.06

000027



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	580	D

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J.H. 7.14.06

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\024R0201.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 14-JUL-2006 04:28
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-05;x5
Misc Info : ch2.f07022;25.1;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 24
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	95.900	Percent Solids

R 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			1337436	1405.83	584.0(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	5536	3.65408	1.518(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	9386	37.5995	15.62(M)

QC Flag Legend

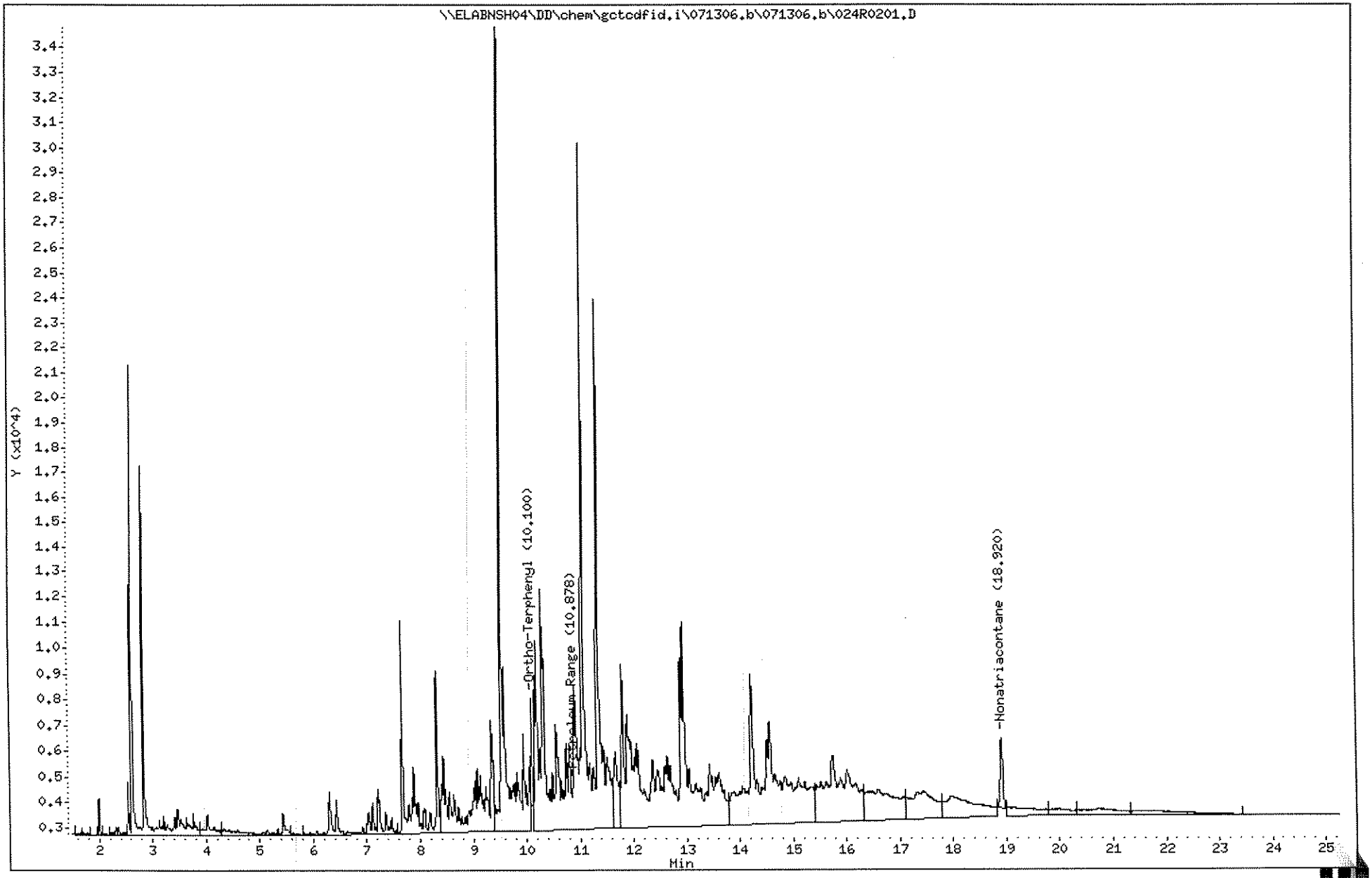
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\024R0201.D
Date : 14-JUL-2006 04:28
Client ID: 51CFM03S060706
Sample Info: 0607022-05;x5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

B, C
J.H. 7.14.06

000030



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM03S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-05

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 024R0201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.83	2.1	18	D
	>C10-C12	0.83	2.1	4.1	D
	>C12-C16	1.7	4.2	20	D
	>C16-C22	2.5	6.2	170	D
	>C22-C36	5.8	14	480	D

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\024R0201.D
Lab Smp Id: 0607022-05 Client Smp ID: 51CFM03S060706
Inj Date : 14-JUL-2006 04:28
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-05;x5
Misc Info : ch2.f07022;25.1;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 11:13 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 24
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	95.900	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	5536	3.65408	1.518(M)
S 27 >C8-C10	2.063-3.873			74354	42.3309	17.58(M)
S 28 >C10-C12	3.873-5.577			16795	9.79745	4.070(M)
S 29 >C12-C16	5.577-8.382			77776	48.2804	20.06(M)
S 30 >C16-C22	8.382-11.607			510121	400.320	166.3(M)
S 31 >C22-C36	11.607-17.117			568686	1144.45	475.4(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	9386	37.5995	15.62(M)

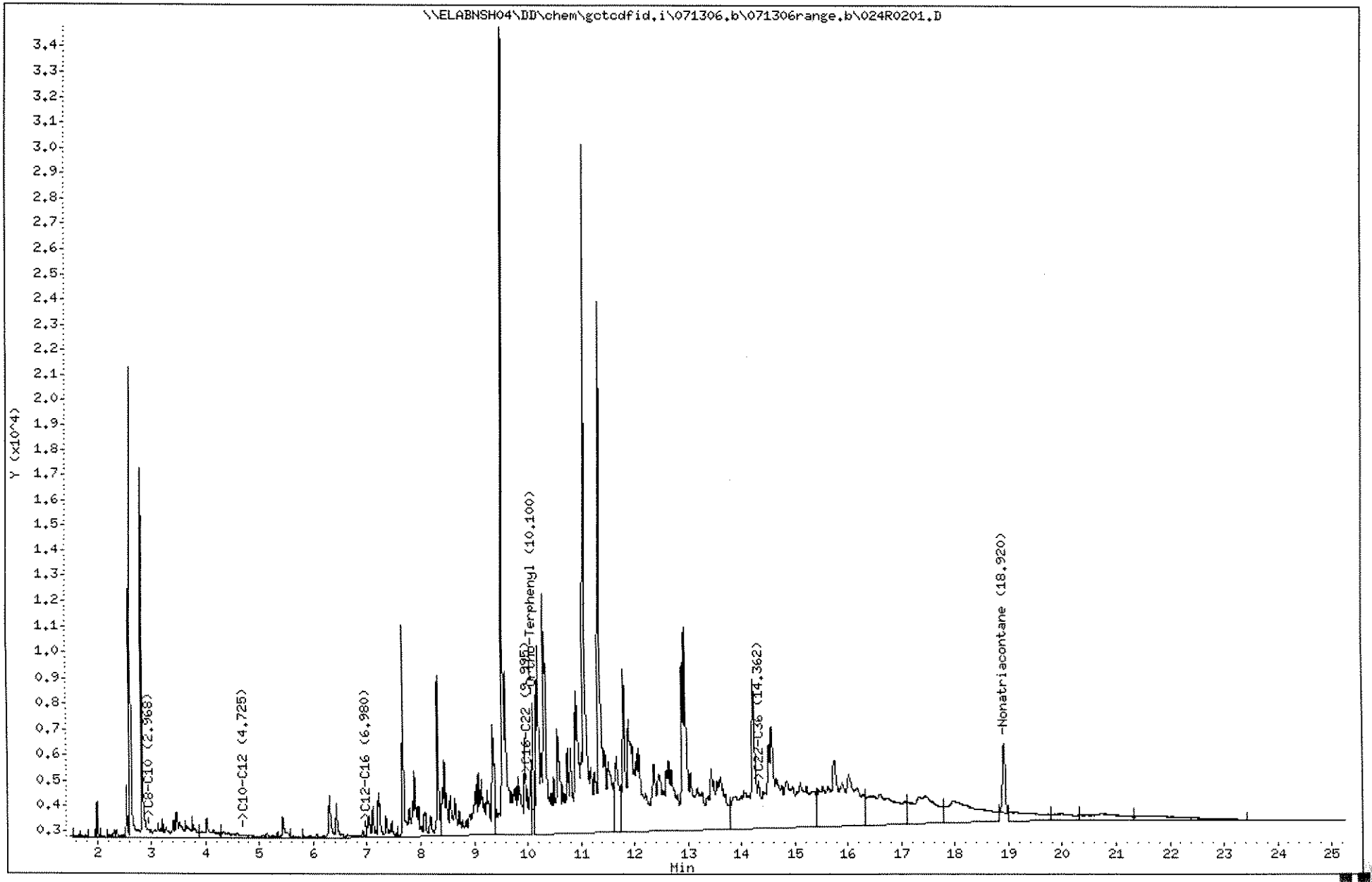
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\024R0201.D
Date : 14-JUL-2006 04:28
Client ID: 51CFM03S060706
Sample Info: 0607022-05;x5
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000033



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	25	70	2200	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\025R0201.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 14-JUL-2006 05:01
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-06;x10
Misc Info : ch2.f07022;25.4;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.400	Sample Amount
Vi	1.000	Injection Volume
Solids	95.300	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			2494098	2621.64	2166(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	2318	1.53001	1.264(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	5634	22.5693	18.65(RM)

QC Flag Legend

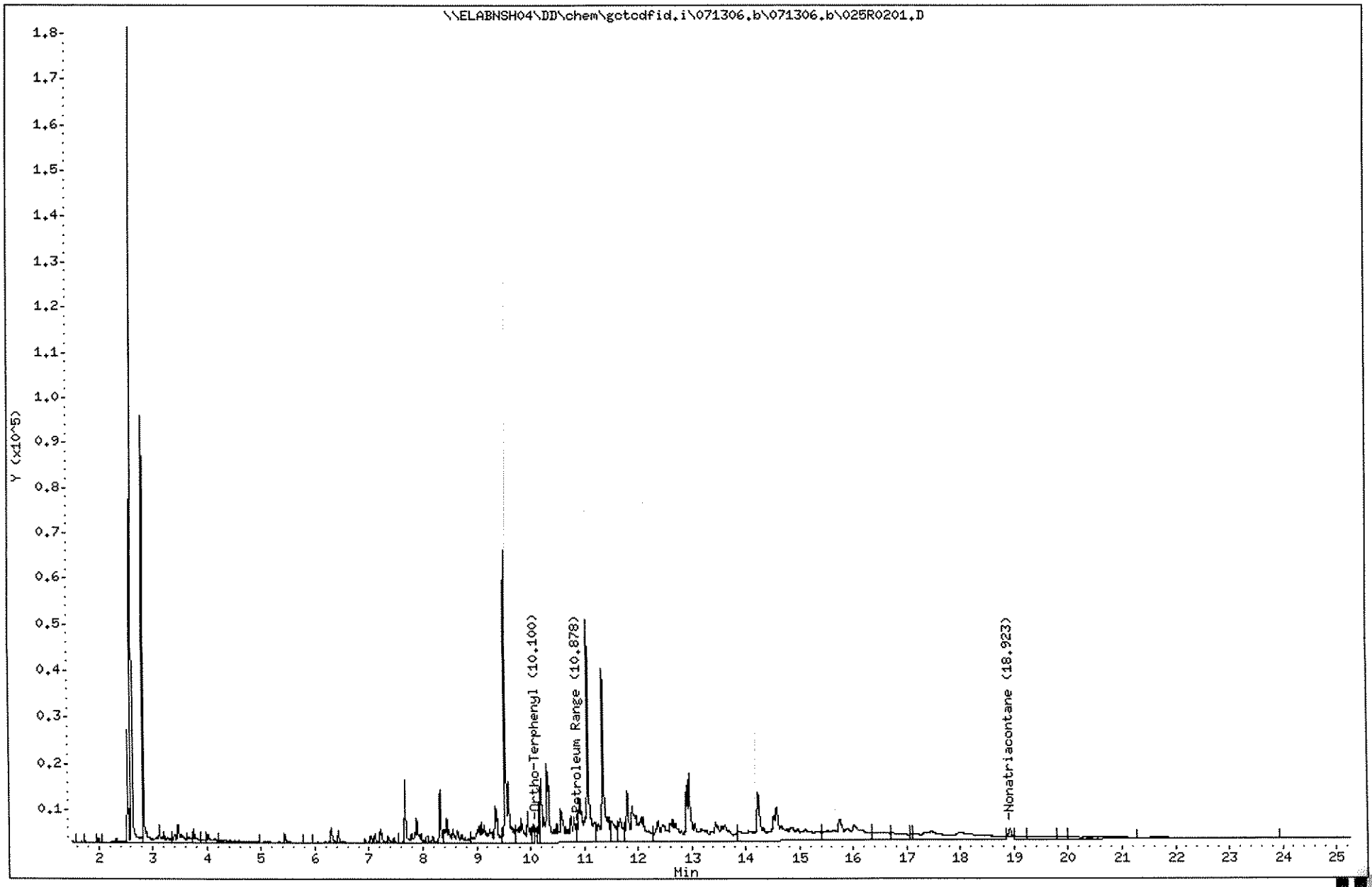
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\025R0201.D
Date : 14-JUL-2006 05:01
Client ID: 51CFM04S060706
Sample Info: 0607022-06;x10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

B, C
J.H. 7.14.06

000036



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM04S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:17

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	200	D
	>C10-C12	1.6	4.1	18	D
	>C12-C16	3.3	8.3	65	D
	>C16-C22	5.0	12	570	D
	>C22-C36	12	29	1500	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\025R0201.D
Lab Smp Id: 0607022-06 Client Smp ID: 51CFM04S060706
Inj Date : 14-JUL-2006 05:01
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-06;x10
Misc Info : ch2.f07022;25.4;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:47 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.400	Sample Amount
Vi	1.000	Injection Volume
Solids	95.300	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.056	10.100	-0.044	5325	3.51481	2.904(RM)
S 27 >C8-C10	2.063-3.873			431049	245.403	202.8(M)
S 28 >C10-C12	3.873-5.577			37540	21.8991	18.09(M)
S 29 >C12-C16	5.577-8.382			126002	78.2172	64.62(M)
S 30 >C16-C22	8.382-11.607			872529	684.722	565.7(M)
S 31 >C22-C36	11.607-17.117			889236	1789.55	1478(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	5634	22.5693	18.65(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\025R0201.D
Date : 14-JUL-2006 05:01
Client ID: 51CFM04S060706
Sample Info: 0607022-06;x10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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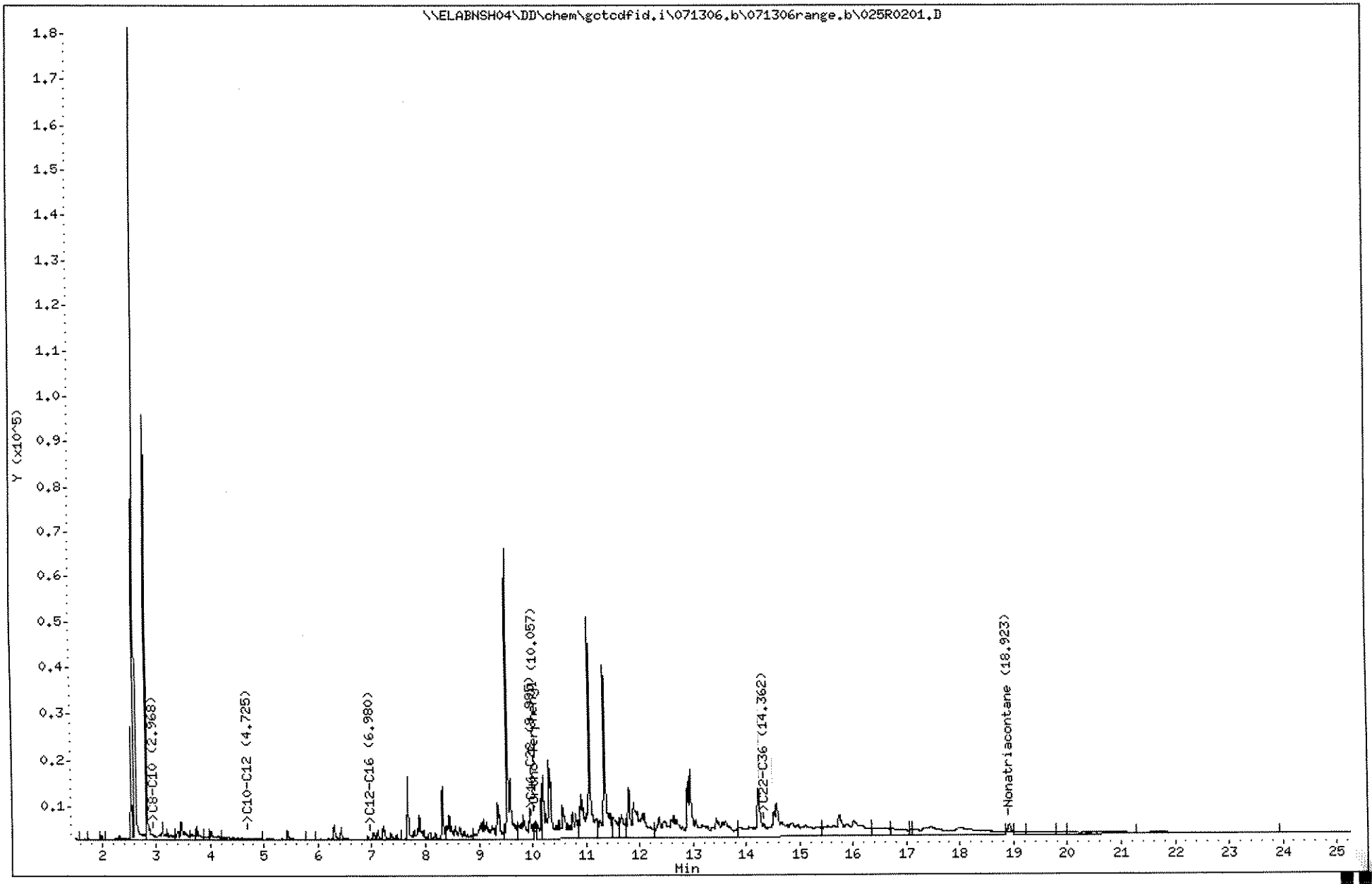

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	49	140	2600	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\026R0201.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 14-JUL-2006 05:34
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-07;x20
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 26
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	97.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			1542679	1621.57	2658(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	1692	1.11682	1.831(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	2983	11.9496	19.59(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\026R0201.D
Date : 14-JUL-2006 05:34
Client ID: 51CFM05S060706
Sample Info: 0607022-07;x20
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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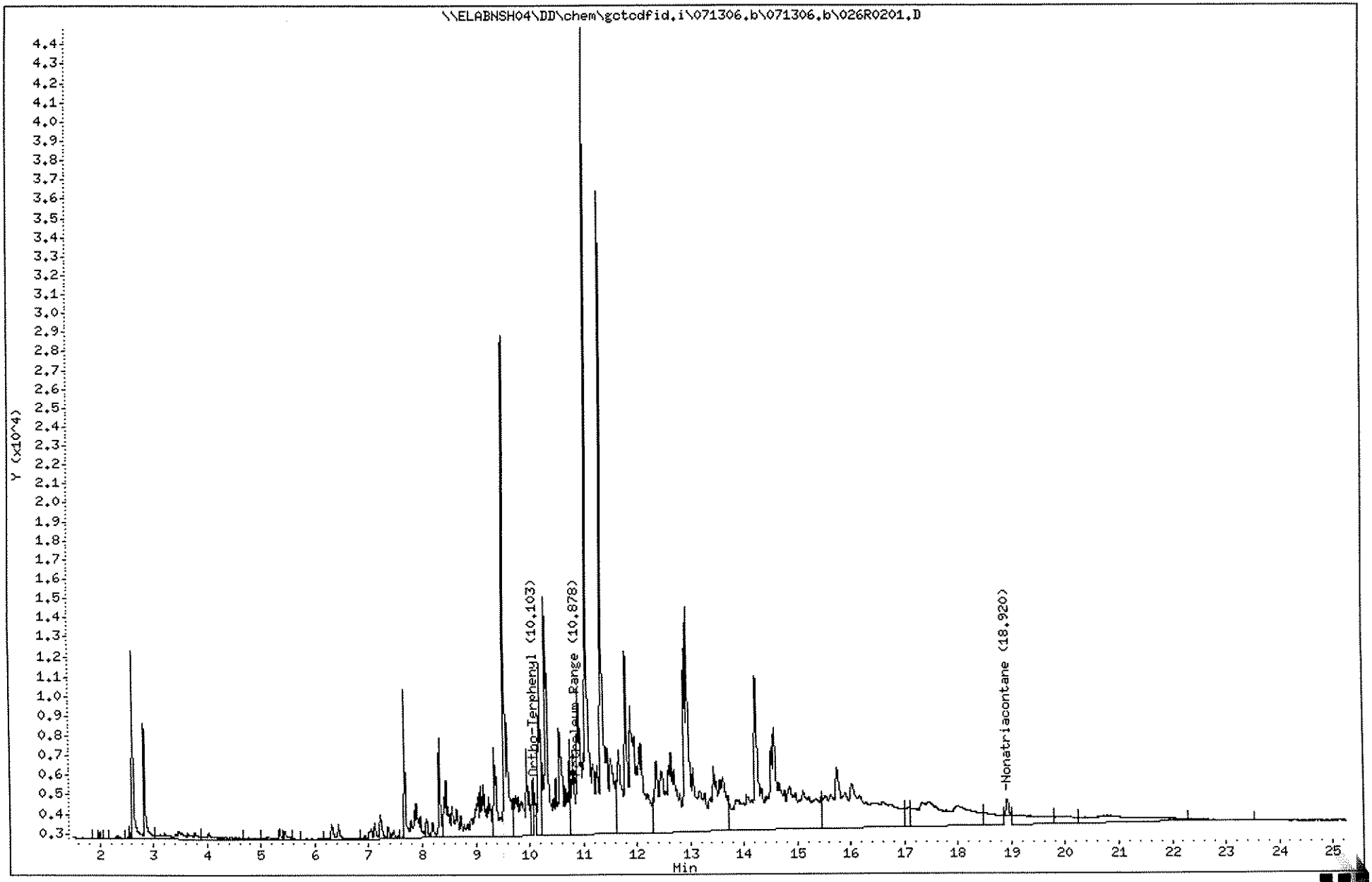

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM05S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-07

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 026R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 05:34

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	3.3	8.2	39	D
	>C10-C12	3.3	8.2	9.3	D
	>C12-C16	6.6	16	61	D
	>C16-C22	9.8	24	790	D
	>C22-C36	23	57	2400	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\026R0201.D
Lab Smp Id: 0607022-07 Client Smp ID: 51CFM05S060706
Inj Date : 14-JUL-2006 05:34
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-07;x20
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:47 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 26
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	97.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.056	10.100	-0.044	4074	2.68907	4.408(RM)
S 27 >C8-C10	2.063-3.873			41761	23.7752	38.98(M)
S 28 >C10-C12	3.873-5.577			9724	5.67254	9.299(M)
S 29 >C12-C16	5.577-8.382			59849	37.1520	60.90(M)
S 30 >C16-C22	8.382-11.607			608509	477.531	782.8(M)
S 31 >C22-C36	11.607-17.117			713870	1436.63	2355(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	2983	11.9496	19.59(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\026R0201.D
Date : 14-JUL-2006 05:34
Client ID: 51CFM05S060706
Sample Info: 0607022-07;x20
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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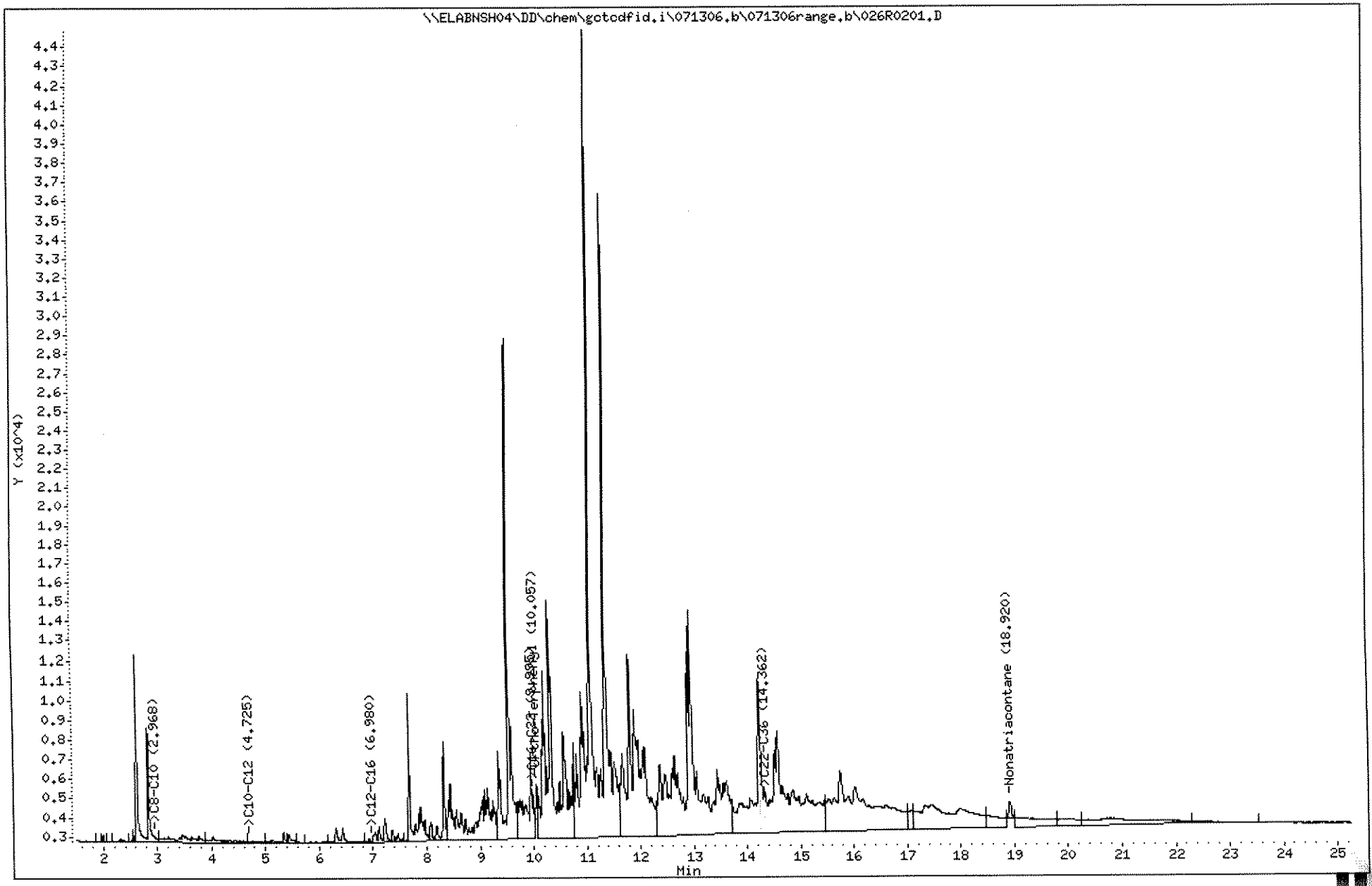

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM06S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-08

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 017R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/06/06 16:32

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 00:39

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	5.8	JB

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\017R0201.D
Lab Smp Id: 0607022-08 Client Smp ID: 51CFM06S060706
Inj Date : 14-JUL-2006 00:39
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-08
Misc Info : ch2.f07022;25.1;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	95.300	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			65424	68.7696	5.750(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	37391	24.6802	2.064(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	24378	97.6561	8.165(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\017R0201.D
Date : 14-JUL-2006 00:39
Client ID: 51CFM06S060706
Sample Info: 0607022-08
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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J.H. 7.14.06

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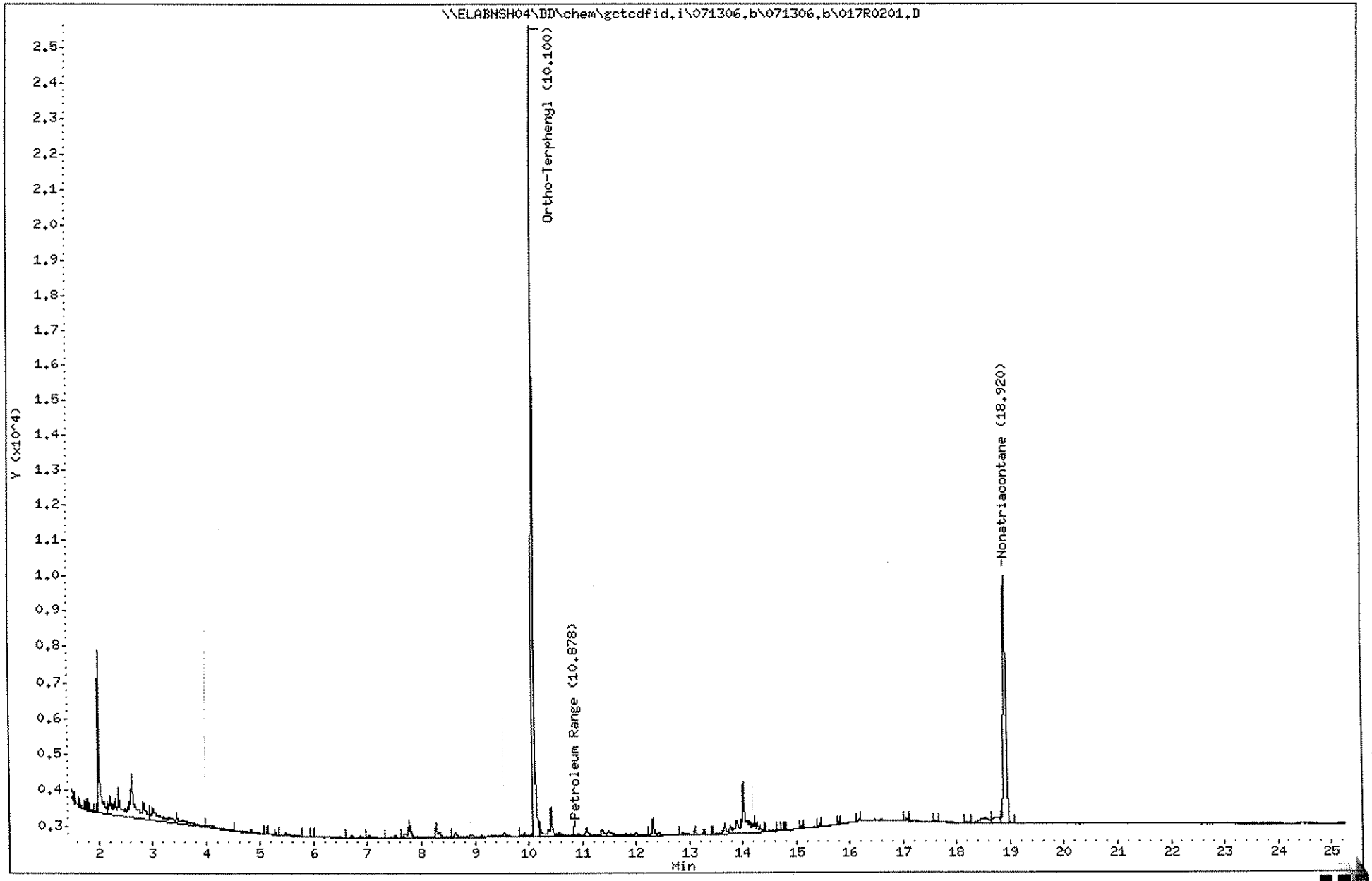

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	24	69	1900	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\027R0201.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 14-JUL-2006 06:06
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-09;x10
Misc Info : ch2.f07022;25.2;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 27
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	97.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			2237730	2352.16	1913(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	2192	1.44685	1.176(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	5099	20.4261	16.61(M)

QC Flag Legend

M - Compound response manually integrated.

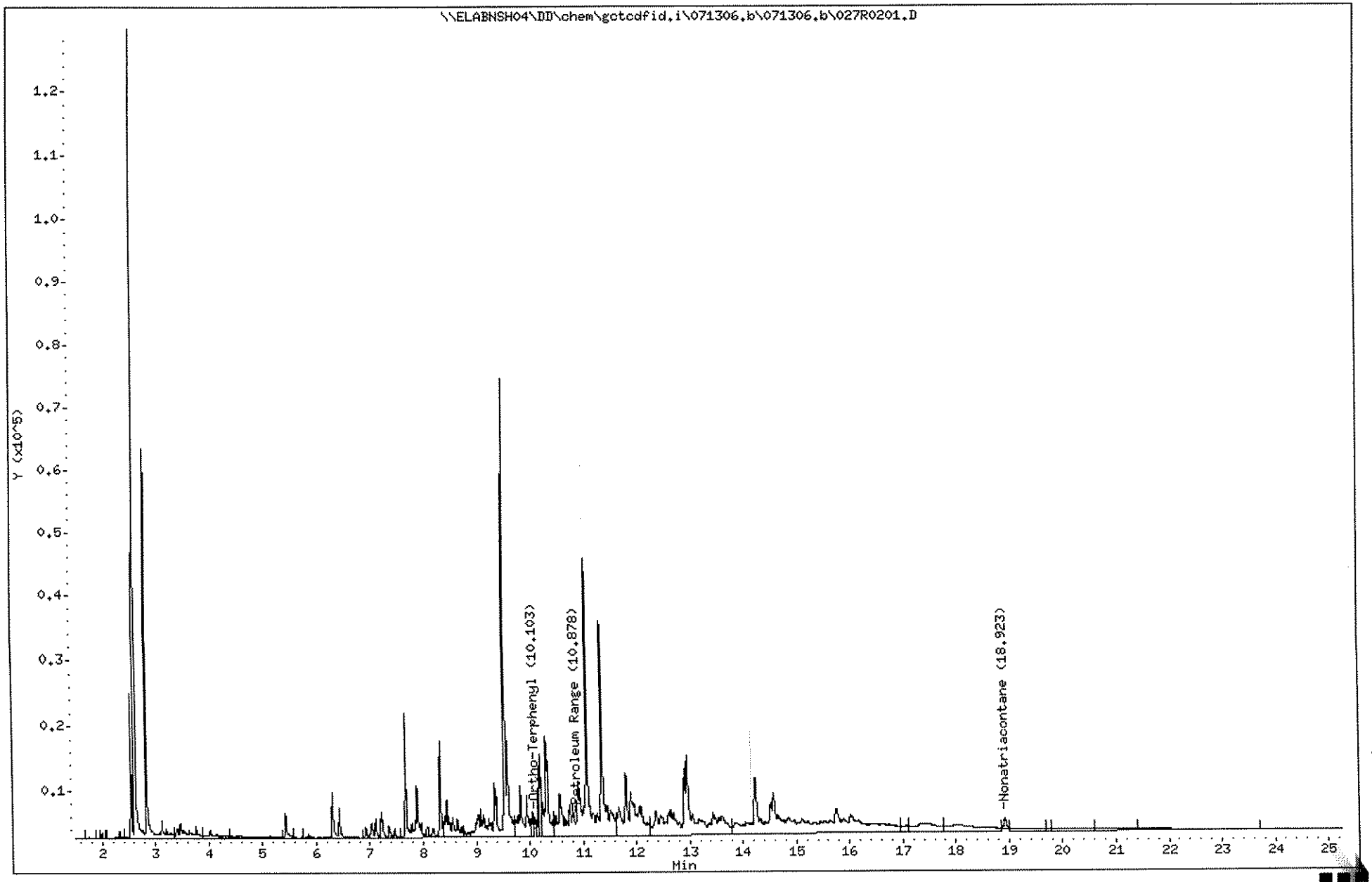
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\027R0201.D
Date : 14-JUL-2006 06:06
Client ID: 51CFM07S060706
Sample Info: 0607022-09;x10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
J.H. 7.14.06

000051



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM07S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 06:06

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.6	4.1	150	D
	>C10-C12	1.6	4.1	16	D
	>C12-C16	3.2	8.1	84	D
	>C16-C22	4.9	12	530	D
	>C22-C36	11	28	1200	D

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\027R0201.D
Lab Smp Id: 0607022-09 Client Smp ID: 51CFM07S060706
Inj Date : 14-JUL-2006 06:06
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-09;x10
Misc Info : ch2.f07022;25.2;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:47 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 27
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	97.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.060	10.100	-0.040	5029	3.31943	2.699(M)
S 27 >C8-C10	2.063-3.873			327048	186.194	151.4(M)
S 28 >C10-C12	3.873-5.577			34274	19.9939	16.26(M)
S 29 >C12-C16	5.577-8.382			165290	102.606	83.44(M)
S 30 >C16-C22	8.382-11.607			829063	650.612	529.0(M)
S 31 >C22-C36	11.607-17.117			758244	1525.93	1241(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	5099	20.4261	16.61(M)

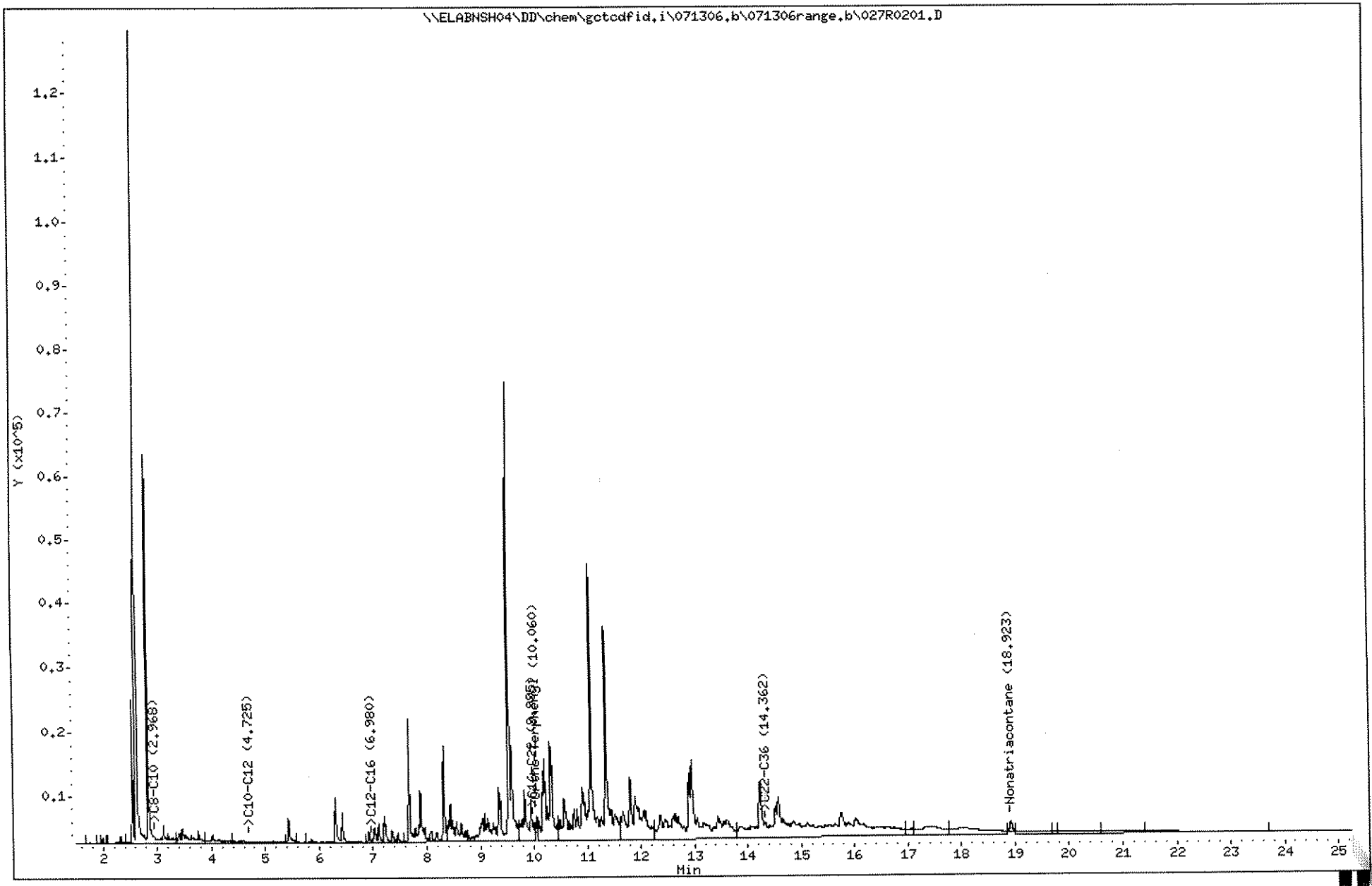
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\027R0201.D
Date : 14-JUL-2006 06:06
Client ID: 51CFM07S060706
Sample Info: 0607022-09;x10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000054



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM08S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-10

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0201

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/06/06 16:49

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	24	B

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J.H. 7.14.06

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\018R0201.D
Lab Smp Id: 0607022-10 Client Smp ID: 51CFM08S060706
Inj Date : 14-JUL-2006 01:12
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-10
Misc Info : ch2.f07022;25.2;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	91.800	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			269827	283.625	24.52(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	32654	21.5535	1.863(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	33730	135.119	11.68(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\018R0201.D
Date : 14-JUL-2006 01:12
Client ID: 51CFM08S060706
Sample Info: 0607022-10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

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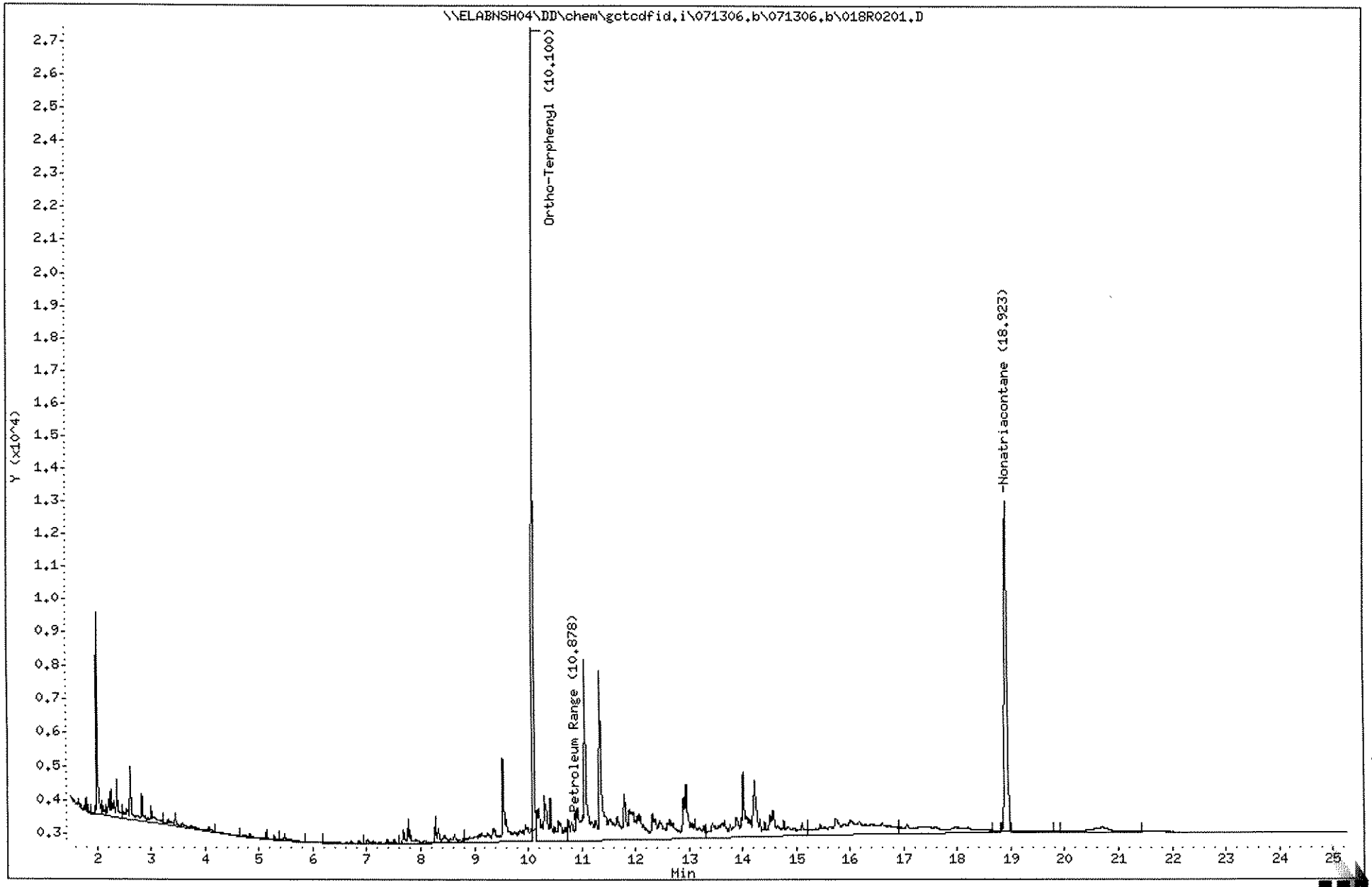

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060706

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-11

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 019R0201

% Moisture: 1 decanted: (Y/N) N Date Sampled: 07/06/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 01:44

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.9	79	

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Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\019R0201.D
Lab Smp Id: 0607022-11 Client Smp ID: 51DUP1S060706
Inj Date : 14-JUL-2006 01:44
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-11
Misc Info : ch2.f07022;25.1;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	98.700	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			936070	983.938	79.43(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	30134	19.8902	1.606(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	34926	139.910	11.30(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\019R0201.D
Date : 14-JUL-2006 01:44
Client ID: 51DUP1S060706
Sample Info: 0607022-11
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
7.14.06

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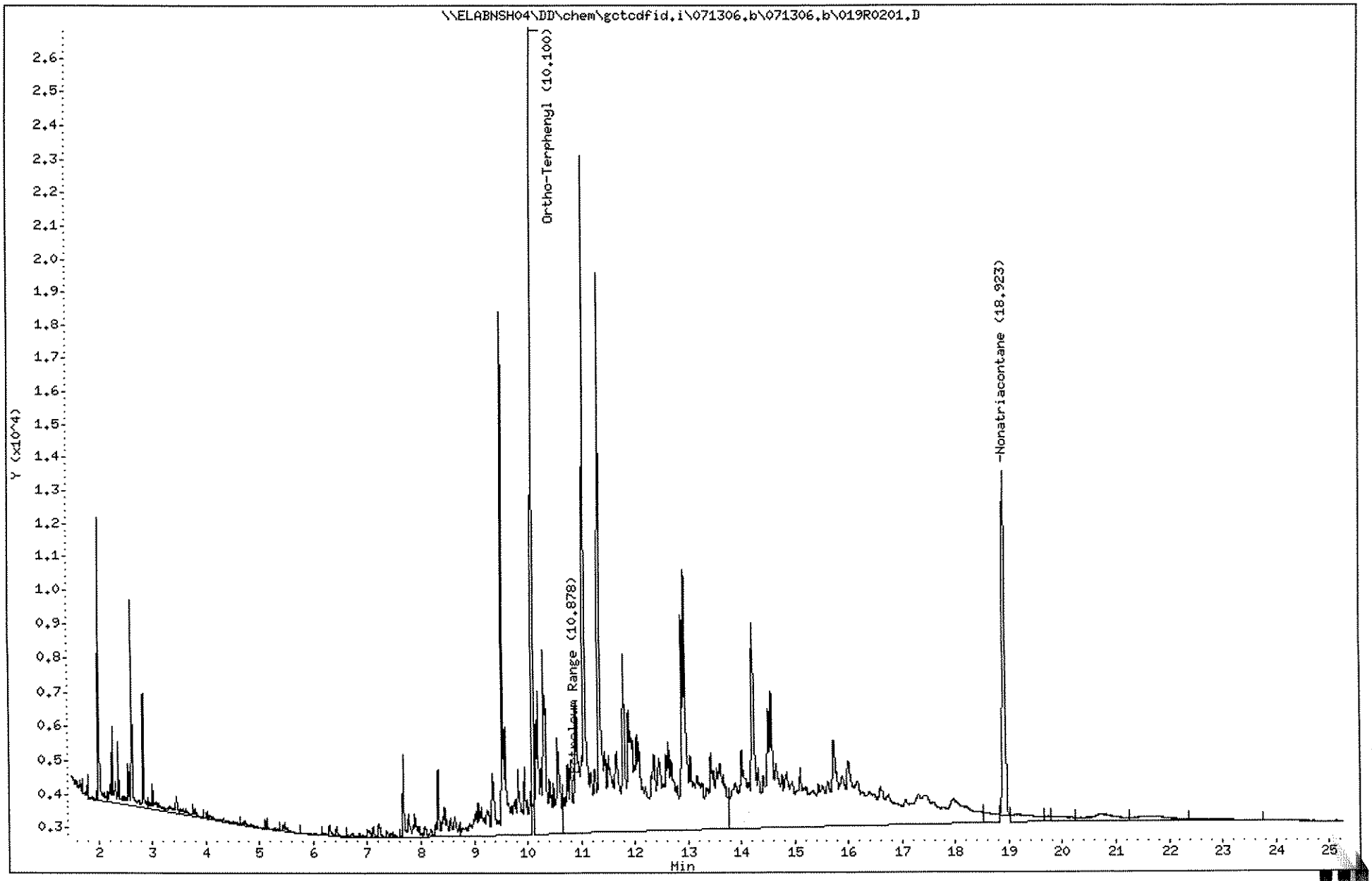

Empirical Laboratories

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

LAB FILE ID: RF8500: 002R0201 RF5950: 003R0201 RF4250: 004R0201
RF2550: 005R0201 RF850: 006R0201

COMPOUND	RF8500	RF5950	RF4250	RF2550	RF850
Petroleum Range	918.093	1068.768	939.050	952.375	929.358
Ortho-Terphenyl	1386.600	1758.080	1444.440	1519.120	1571.040
Nonatriacontane	310.847	322.487	186.313	243.960	178.873

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

RF85: 007R0201

COMPOUND	RF85	CURVE	COEFFICENT A1	%RSD OR R^2	
Petroleum Range	900.459	AVRG	951.350695	6.3	
Ortho-Terphenyl	1410.840	AVRG	1515.02000	9.1	
Nonatriacontane	255.307	AVRG	249.631111	24.1	* >20% RSD

n=1/29/07

FORM VI PRO

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

LAB FILE ID: RT1: 002R0201 RT2: 003R0201 RT3: 004R0201
RT4: 005R0201 RT5: 006R0201

COMPOUND	RT1	RT2	RT3	RT4	RT5
Petroleum Range	10.895	10.895	10.895	10.895	10.895
Ortho-Terphenyl	10.090	10.087	10.097	10.087	10.090
Nonatriacontane	18.893	18.890	18.917	18.890	18.890

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

RT6: 007R0201

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Petroleum Range	10.878	10.892	1.963	19.793
Ortho-Terphenyl	10.100	10.092	10.047	10.147
Nonatriacontane	18.920	18.900	18.817	19.017

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

LAB FILE ID: RF8500: 002R0201 RF5950: 003R0201 RF4250: 004R0201
RF2550: 005R0201 RF850: 006R0201

COMPOUND	RF8500	RF5950	RF4250	RF2550	RF850
>C8-C10	1819.310	1801.397	1870.256	1760.427	1676.180
>C10-C12	1733.126	1730.271	1812.728	1713.527	1728.880
>C12-C16	1578.605	1699.876	1690.664	1631.290	1596.710
>C16-C22	1097.013	1470.510	1241.016	1276.153	1327.467
>C22-C36	466.872	626.319	431.989	487.333	463.034
Ortho-Terphenyl	1386.600	1758.080	1444.440	1519.120	1571.040
Nonatriacontane	310.847	322.487	186.313	243.960	178.873

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date(s): 07/13/06 07/13/06

Column: ZB-5 ID: 0.32 (mm) Calibration Time(s): 1630 1912

RF85: 007R0201

COMPOUND	RF85	CURVE	COEFFICENT A1	%RSD OR R^2	
>C8-C10	1611.400	AVRG	1756.49497	5.5	
>C10-C12	1566.800	AVRG	1714.22202	4.7	
>C12-C16	1468.400	AVRG	1610.92412	5.3	
>C16-C22	1233.533	AVRG	1274.28219	9.6	
>C22-C36	505.886	AVRG	496.905542	13.7	
Ortho-Terphenyl	1410.840	AVRG	1515.02000	9.1	
Nonatriacontane	255.307	AVRG	249.631111	24.1	* >20% RSD

m 7/26/06

FORM VI PRO

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/13/06 Time: 2017

Lab File ID: 009R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Petroleum Range	951.36	939.04	4250	4195		AVRG	-1.3	25.0
Ortho-Terphenyl	1515.0	1406.4	25.00	23.21		AVRG	-7.2	25.0
Nonatriacontane	249.63	254.27	150.0	152.8		AVRG	1.8	25.0

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/13/06 Time: 2017

Lab File ID: 009R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
>C8-C10	1756.5	1790.5	250.0	254.8		AVRG	1.9	25.0
>C10-C12	1714.2	1706.9	250.0	248.9		AVRG	-0.4	25.0
>C12-C16	1610.9	1584.8	500.0	491.9		AVRG	-1.6	25.0
>C16-C22	1274.3	1213.0	750.0	713.9		AVRG	-4.8	25.0
>C22-C36	496.90	481.76	1750	1697		AVRG	-3.0	25.0
Ortho-Terphenyl	1515.0	1406.4	25.00	23.21		AVRG	-7.2	25.0
Nonatriacontane	249.63	254.27	150.0	152.8		AVRG	1.8	25.0

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/14/06 Time: 0217

Lab File ID: 020R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Petroleum Range	951.36	906.74	4250	4051		AVRG	-4.7	25.0
Ortho-Terphenyl	1515.0	1273.4	25.00	21.01		AVRG	-15.9	25.0
Nonatriacontane	249.63	208.63	150.0	125.4		AVRG	-16.4	25.0

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/14/06 Time: 0217

Lab File ID: 020R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
>C8-C10	1756.5	1867.2	250.0	265.8		AVRG	6.3	25.0
>C10-C12	1714.2	1769.6	250.0	258.1		AVRG	3.2	25.0
>C12-C16	1610.9	1582.7	500.0	491.2		AVRG	-1.7	25.0
>C16-C22	1274.3	1144.2	750.0	673.4		AVRG	-10.2	25.0
>C22-C36	496.90	420.67	1750	1482		AVRG	-15.3	25.0
Ortho-Terphenyl	1515.0	1273.4	25.00	21.01		AVRG	-15.9	25.0
Nonatriacontane	249.63	208.63	150.0	125.4		AVRG	-16.4	25.0

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/14/06 Time: 0639

Lab File ID: 028R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Petroleum Range	951.36	933.13	4250	4168		AVRG	-1.9	25.0
Ortho-Terphenyl	1515.0	1262.5	25.00	20.83		AVRG	-16.7	25.0
Nonatriacontane	249.63	268.54	150.0	161.4		AVRG	7.6	25.0

FORM 7
PRO CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Instrument ID: GCTCDFID Calibration Date: 07/14/06 Time: 0639

Lab File ID: 028R0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1630 1912

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
>C8-C10	1756.5	1856.9	250.0	264.3		AVRG	5.7	25.0
>C10-C12	1714.2	1772.1	250.0	258.4		AVRG	3.4	25.0
>C12-C16	1610.9	1592.1	500.0	494.2		AVRG	-1.2	25.0
>C16-C22	1274.3	1167.6	750.0	687.2		AVRG	-8.4	25.0
>C22-C36	496.90	494.46	1750	1741		AVRG	-0.5	25.0
Ortho-Terphenyl	1515.0	1262.5	25.00	20.83		AVRG	-16.7	25.0
Nonatriacontane	249.63	268.54	150.0	161.4		AVRG	7.6	25.0

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Column: ZB-5 ID: 0.32 (mm) Cont. Calib. Date(s): 07/13/06 07/14/06

Instrument ID: GCTCDFID

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 10.10 S2 : 18.92

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	FLPRO 8500PP	FLPRO 8500PP	07/13/06	1630	10.09	18.89
02	FLPRO 5950PP	FLPRO 5950PP	07/13/06	1702	10.09	18.89
03	FLPRO 4250PP	FLPRO 4250PP	07/13/06	1735	10.09	18.88
04	FLPRO 2550PP	FLPRO 2550PP	07/13/06	1807	10.09	18.89
05	FLPRO 850PPM	FLPRO 850PPM	07/13/06	1840	10.09	18.89
06	FLPRO 85PPM	FLPRO 85PPM	07/13/06	1912	10.10	18.92
07	FLPRO ICV 40	FLPRO ICV 40	07/13/06	1945		
08	FLPRO 4250PP	FLPRO 4250PP	07/13/06	2017	10.10	18.92
09	FW1BLK0710	FW1BLK0710	07/13/06	2050	10.10	18.93
10	FW1BLK0710LC	FW1BLK0710LC	07/13/06	2123	10.11	18.93
11	51EQB1W06070	0607022-01	07/13/06	2156	10.10	18.93
12	51EQB2W06070	0607022-02	07/13/06	2228	10.10	18.92
13	FS1BLK0710	FS1BLK0710	07/13/06	2301	10.10	18.93
14	FS1BLK0710LC	FS1BLK0710LC	07/13/06	2334	10.10	18.92
15	51CFM02S0607	0607022-04	07/14/06	0006	10.10	18.92
16	51CFM06S0607	0607022-08	07/14/06	0039	10.10	18.92
17	51CFM08S0607	0607022-10	07/14/06	0112	10.10	18.92
18	51DUP1S06070	0607022-11	07/14/06	0144	10.10	18.92
19	FLPRO 4250PP	FLPRO 4250PP	07/14/06	0217	10.10	18.92
20	51CFM01S0607	0607022-03	07/14/06	0250	10.10	18.93
21	51CFM01S0607	0607022-03MS	07/14/06	0322	10.10	18.92
22	51CFM01S0607	0607022-03MS	07/14/06	0355	10.10	18.93
23	51CFM03S0607	0607022-05	07/14/06	0428	10.10	18.92
24	51CFM04S0607	0607022-06	07/14/06	0501	10.10	18.92
25	51CFM05S0607	0607022-07	07/14/06	0534	10.10	18.92
26	51CFM07S0607	0607022-09	07/14/06	0606	10.10	18.92
27	FLPRO 4250PP	FLPRO 4250PP	07/14/06	0639	10.10	18.93
28						
29						
30						
31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.05 MINUTES)
S2 = Nonatriacontane (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PRO

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\002R0201.D
Lab Smp Id: FLPRO 8500ppm Client Smp ID: FLPRO 8500ppm
Inj Date : 13-JUL-2006 16:30
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 8500ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

ML 7/14/06

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
$ 1 Petroleum Range	1.963-19.793			7803794	8500.00	8203
$ 2 Ortho-Terphenyl	10.090	10.090	0.000	34665 X	25.0000	22.88
$ 23 Nonatriacontane	18.893	18.893	0.000	46627	150.000	186.8

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\002R0201.D
Date : 13-JUL-2006 16:30
Client ID: FLPRO 8500ppm
Sample Info: FLPRO 8500ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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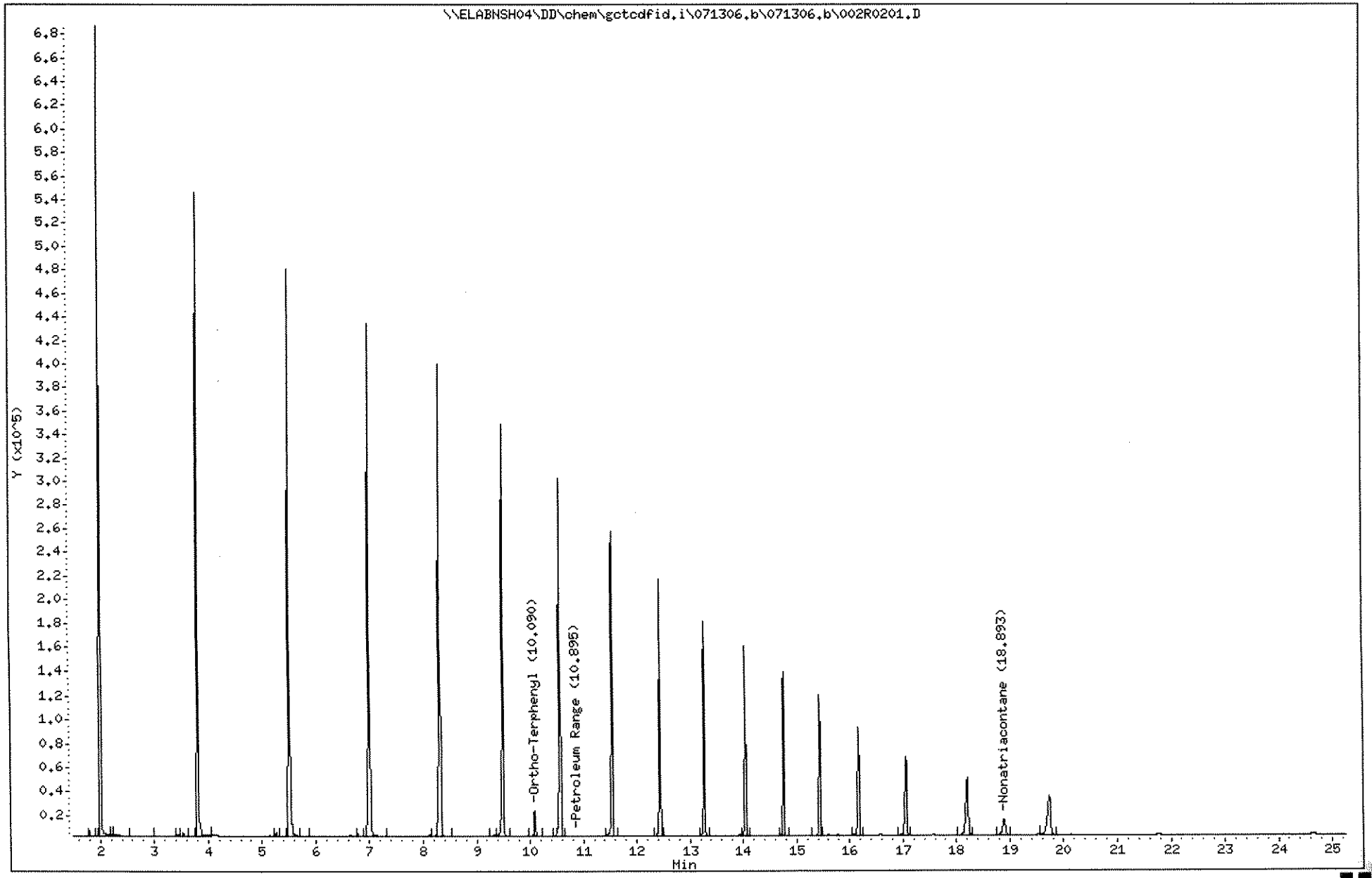

Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\003R0201.D
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Inj Date : 13-JUL-2006 17:02
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 5950ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			6359172 X	5950.00	6684
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	43952	25.0000	29.01
$ 23 Nonatriacontane	18.890	18.890	0.000	48373	150.000	193.8

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\003R0201.D
Date : 13-JUL-2006 17:02
Client ID: FLPRO 5950ppm
Sample Info: FLPRO 5950ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

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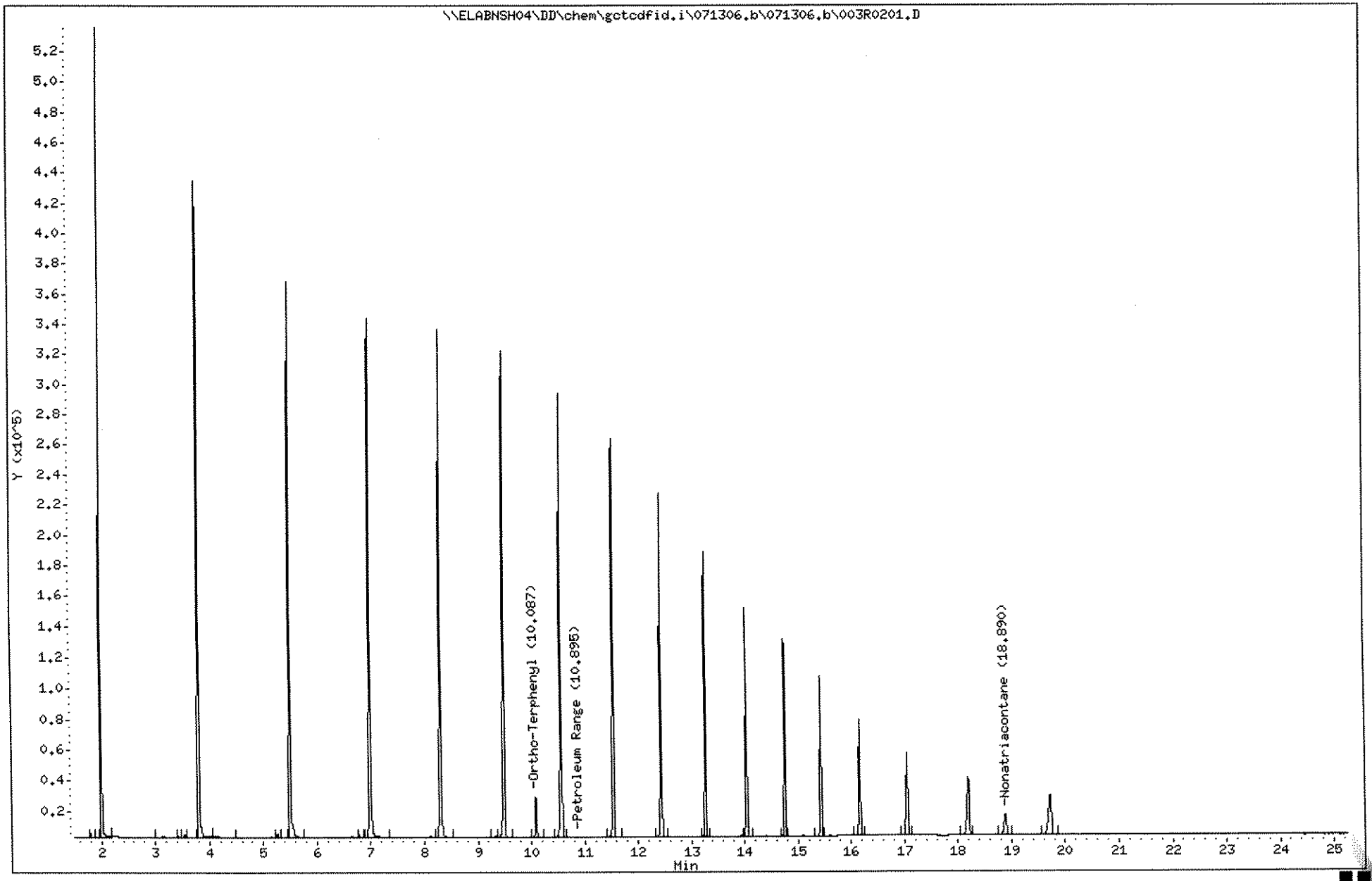

Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\004R0201.D
Lab Smp Id: FLPRO 4250ppm Client Smp ID: FLPRO 4250ppm
Inj Date : 13-JUL-2006 17:35
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

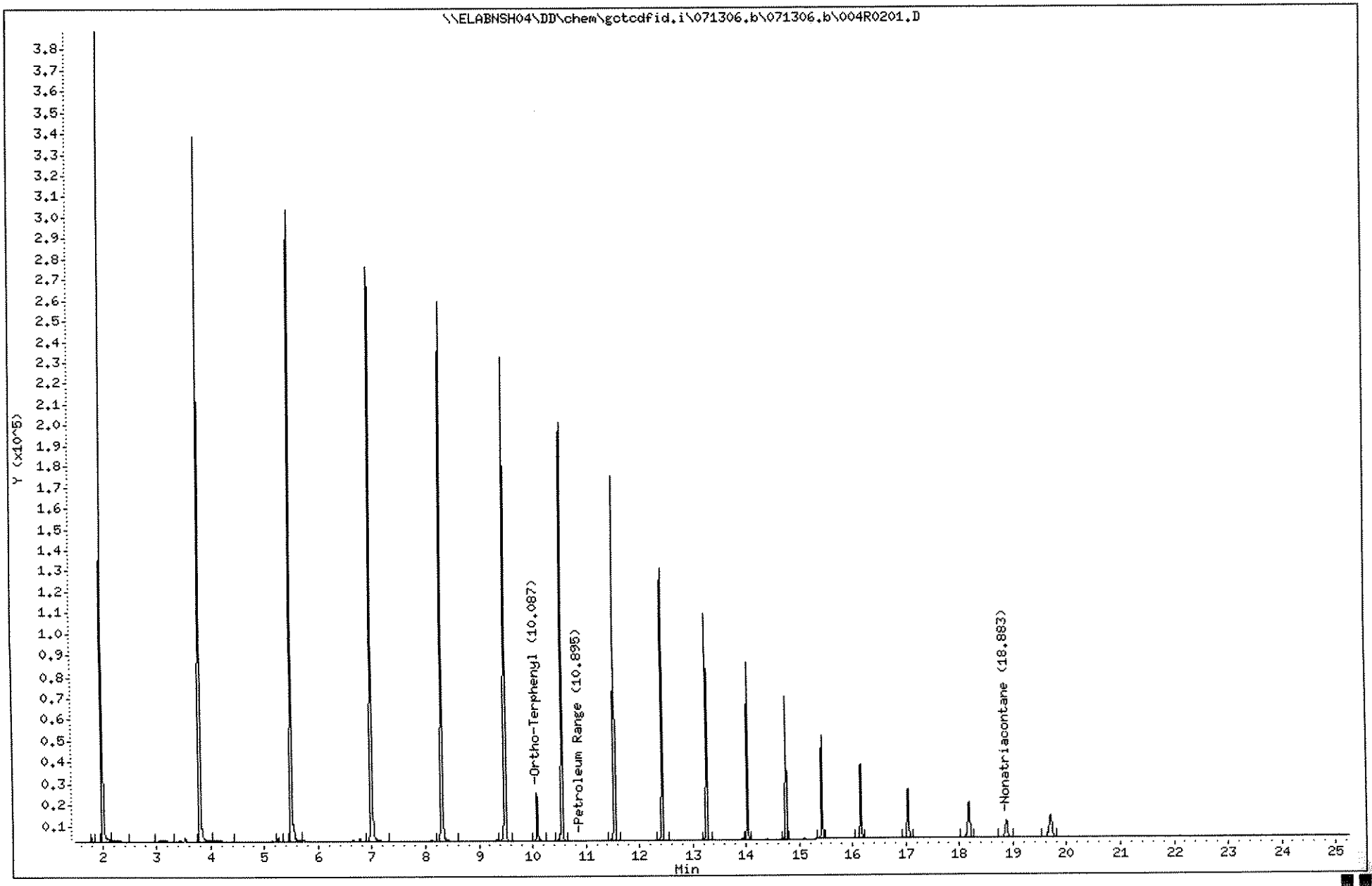
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			3990965	4250.00	4195
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	36111	25.0000	23.84
$ 23 Nonatriacontane	18.883	18.883	0.000	27947	150.000	112.0

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\004R0201.D
Date : 13-JUL-2006 17:35
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



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Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 2550ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

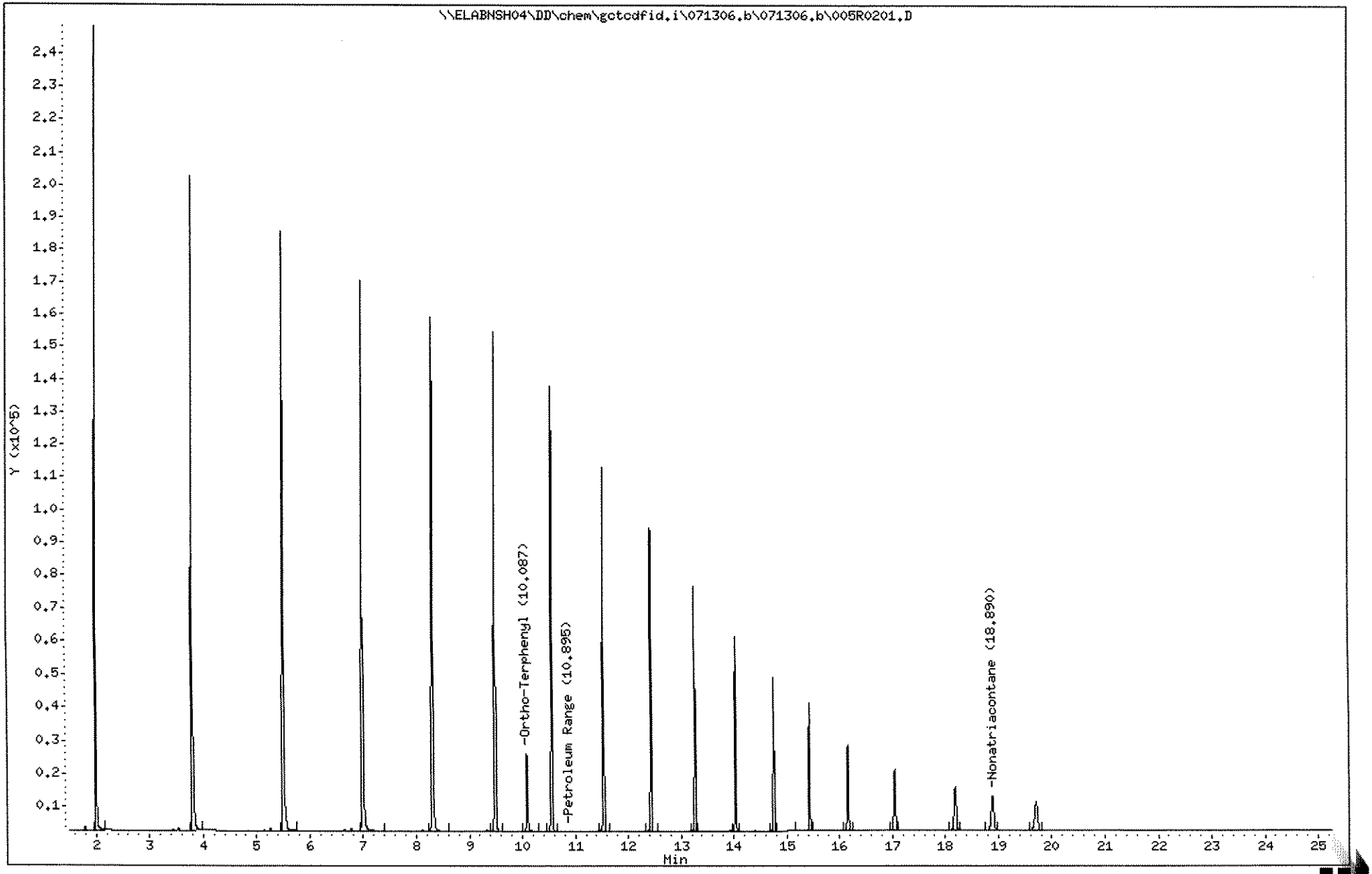
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

MMM 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			2428557	2550.00	2553
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	37978	25.0000	25.07
$ 23 Nonatriacontane	18.890	18.890	0.000	36594	150.000	146.6

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\005R0201.D
Date : 13-JUL-2006 18:07
Client ID: FLPRO 2550ppm
Sample Info: FLPRO 2550ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



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Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\006R0201.D
Lab Smp Id: FLPRO 850ppm Client Smp ID: FLPRO 850ppm
Inj Date : 13-JUL-2006 18:40
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 850ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

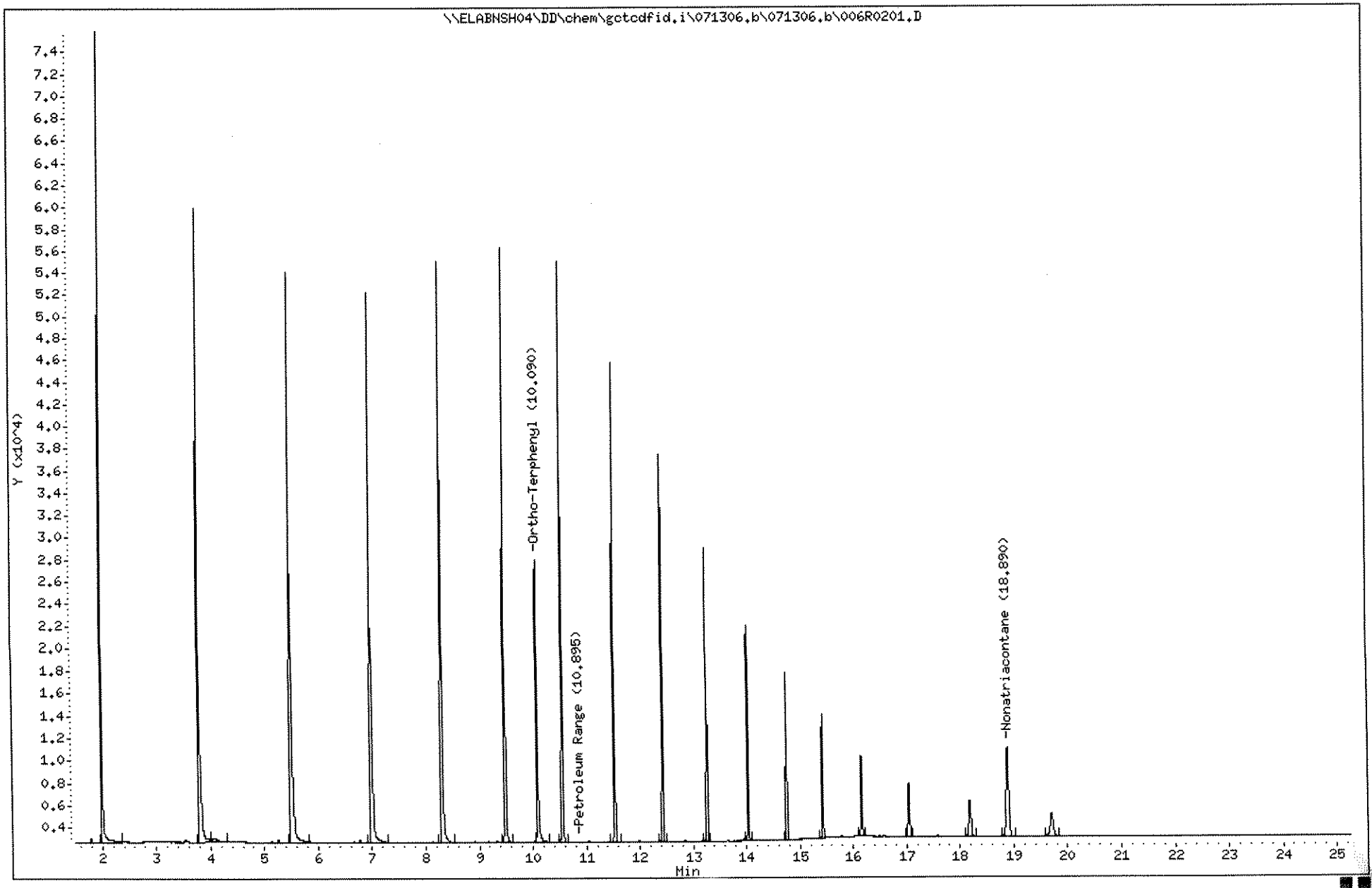
7.14.06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			789954 ✖	850.000	830.3
$ 2 Ortho-Terphenyl	10.090	10.090	0.000	39276	25.0000	25.92
$ 23 Nonatriacontane	18.890	18.890	0.000	26831	150.000	107.5

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\006R0201.D
Date : 13-JUL-2006 18:40
Client ID: FLPRO 850ppm
Sample Info: FLPRO 850ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000083



Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\007R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 85ppm
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Meth Date : 14-Jul-2006 08:16 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			76539	85.0000	80.45(M)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	35271	25.0000	23.28
$ 23 Nonatriacontane	18.920	18.920	0.000	38296	150.000	153.4

QC Flag Legend

M - Compound response manually integrated.

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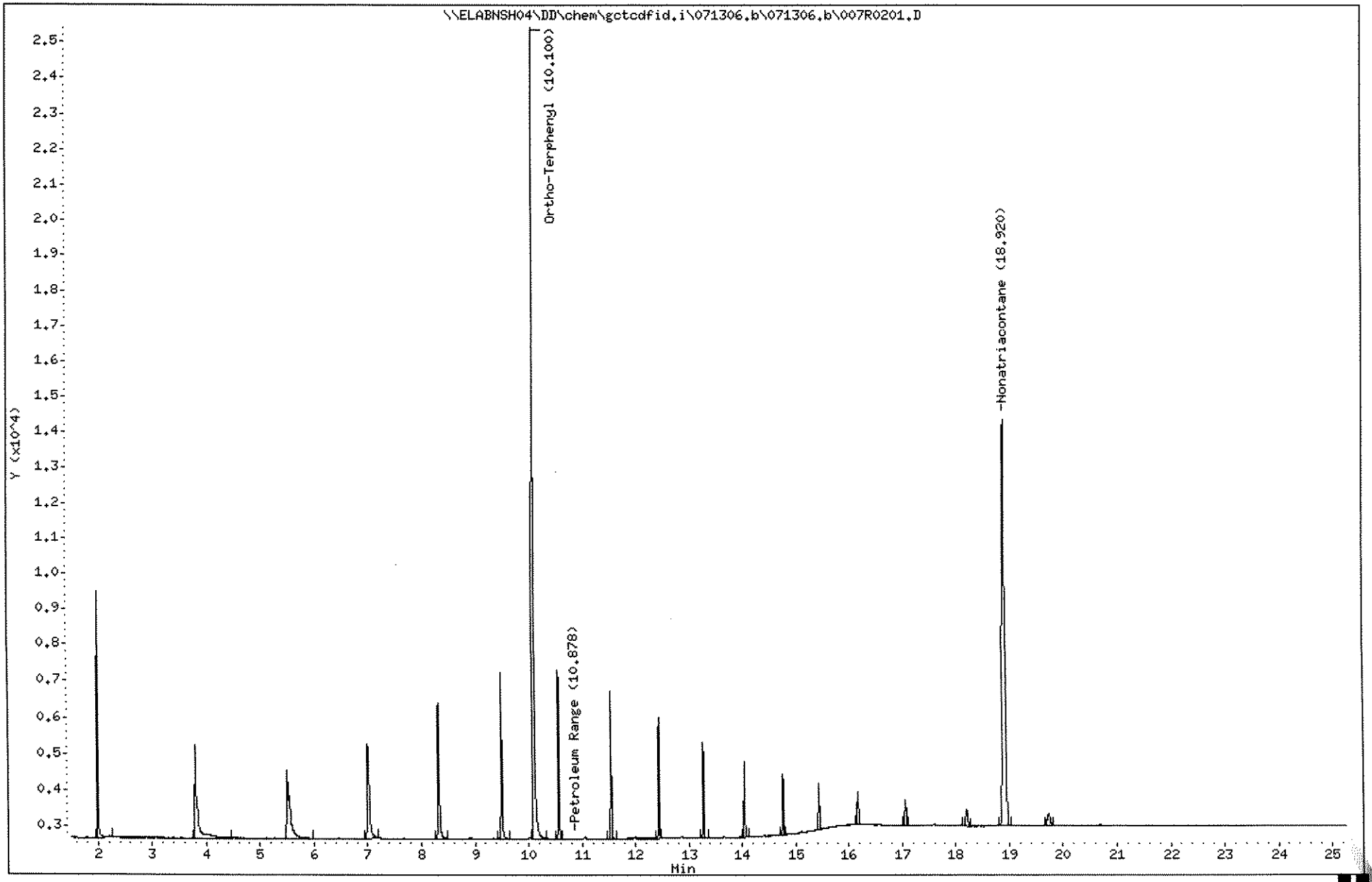
Date : 13-JUL-2006 19:12
Client ID: FLPRO 85ppm
Sample Info: FLPRO 85ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000085



Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\002R0201.D
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Operator : amb Inst ID: gctcdfid.i
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Comment :
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Meth Date : 14-Jul-2006 08:24 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

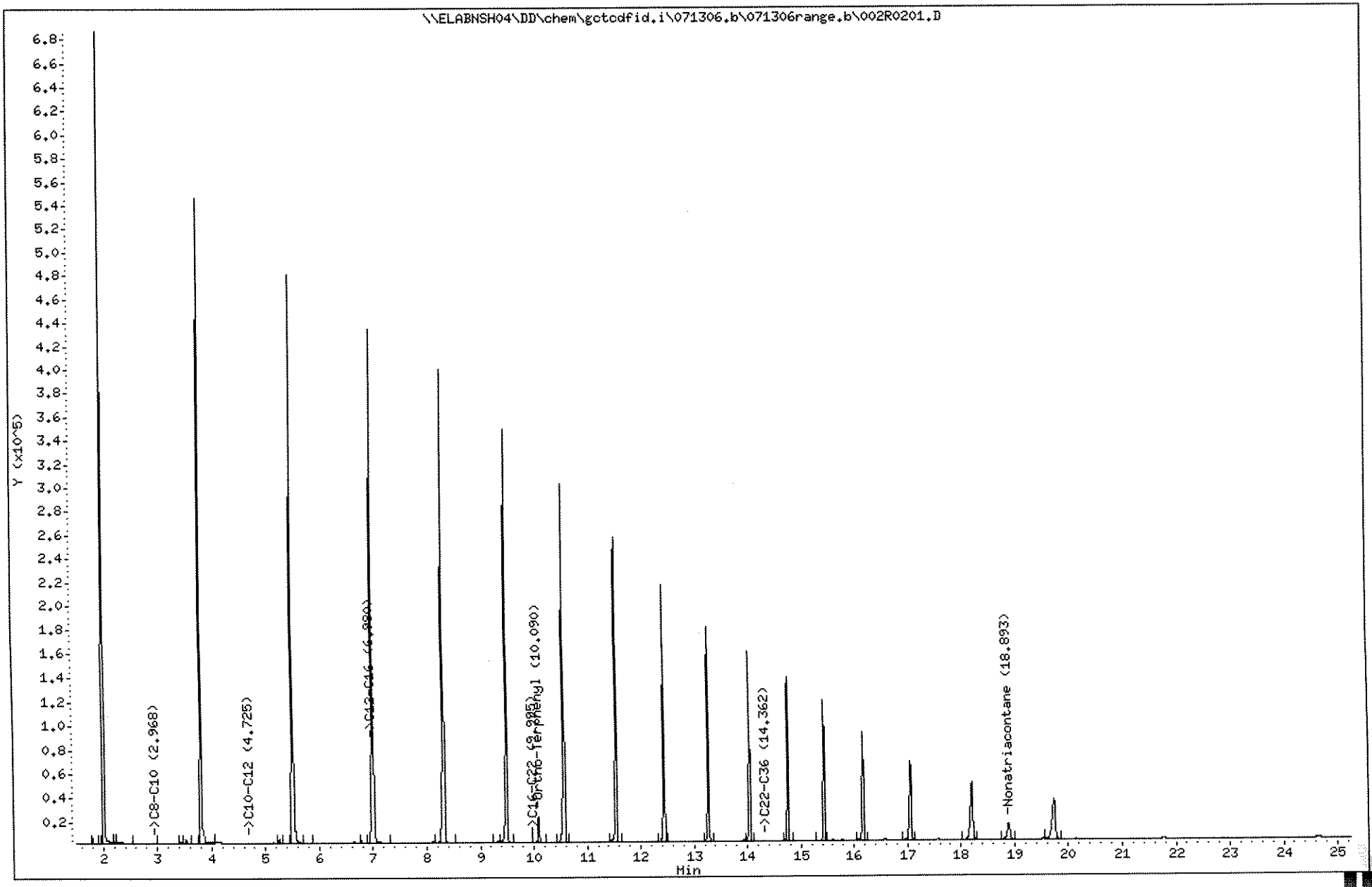
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.090	10.090	0.000	34665	25.0000	22.88
S 27 >C8-C10	2.063-3.873			909655	500.000	517.9
S 28 >C10-C12	3.873-5.577			866563	500.000	505.5
S 29 >C12-C16	5.577-8.382			1578605	1000.00	979.9
S 30 >C16-C22	8.382-11.607			1645520	1500.00	1291
S 31 >C22-C36	11.607-17.117			1634052	3500.00	3288
$ 23 Nonatriacontane	18.893	18.893	0.000	46627	150.000	186.8

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\002R0201.D
Date : 13-JUL-2006 16:30
Client ID: FLPRO 8500ppm
Sample Info: FLPRO 8500ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\003R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 5950ppm
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Meth Date : 14-Jul-2006 08:24 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

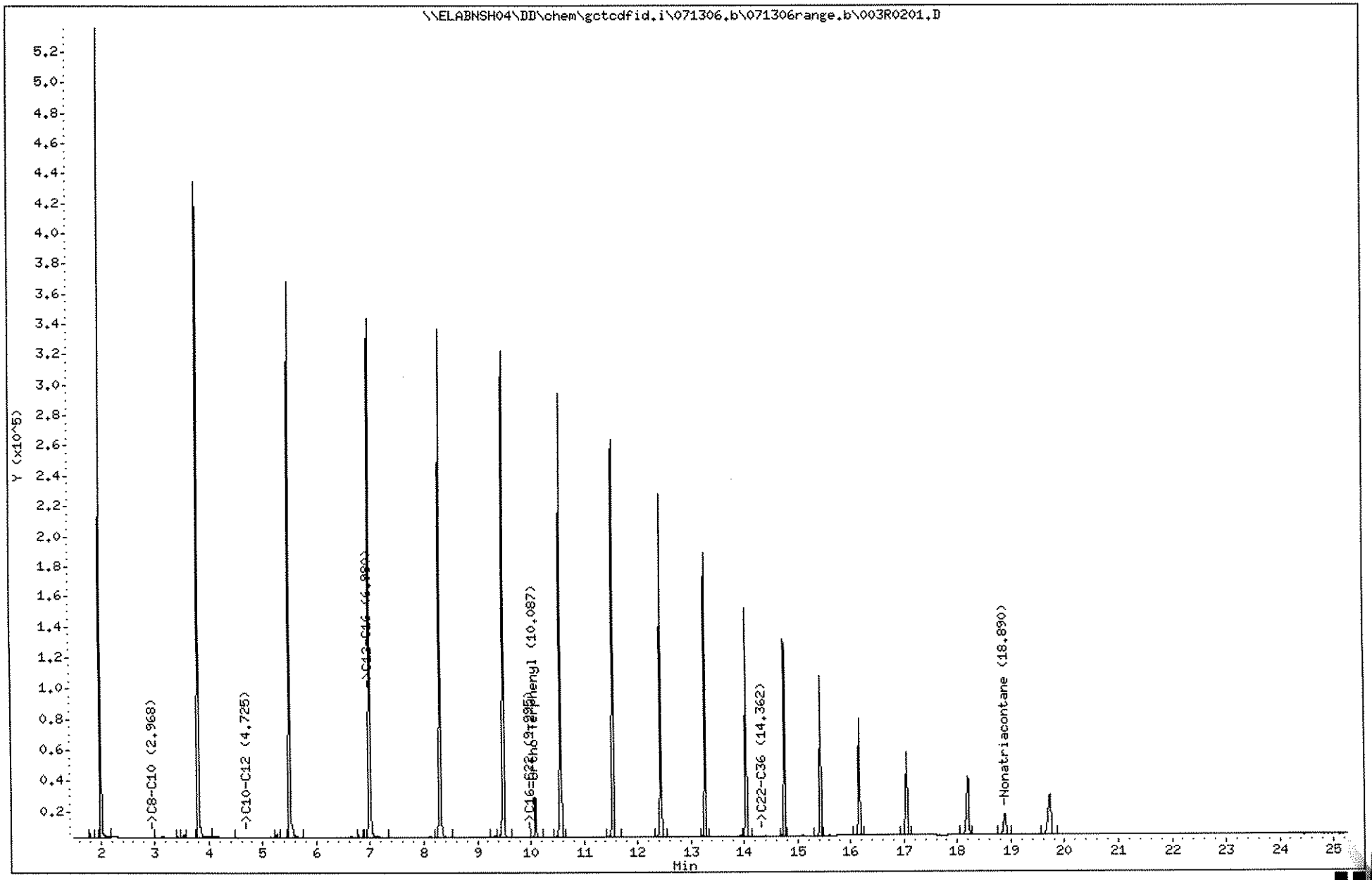
MM 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	43952	25.0000	29.01
S 27 >C8-C10	2.063-3.873			630489	350.000	358.9
S 28 >C10-C12	3.873-5.577			605595 ✘	350.000	353.3
S 29 >C12-C16	5.577-8.382			1189913	700.000	738.6
S 30 >C16-C22	8.382-11.607			1544036	1050.00	1212
S 31 >C22-C36	11.607-17.117			1534481	2450.00	3088
$ 23 Nonatriacontane	18.890	18.890	0.000	48373	150.000	193.8

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\003R0201.D
Date : 13-JUL-2006 17:02
Client ID: FLPRO 5950ppm
Sample Info: FLPRO 5950ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000089



Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\004R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 08:24 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

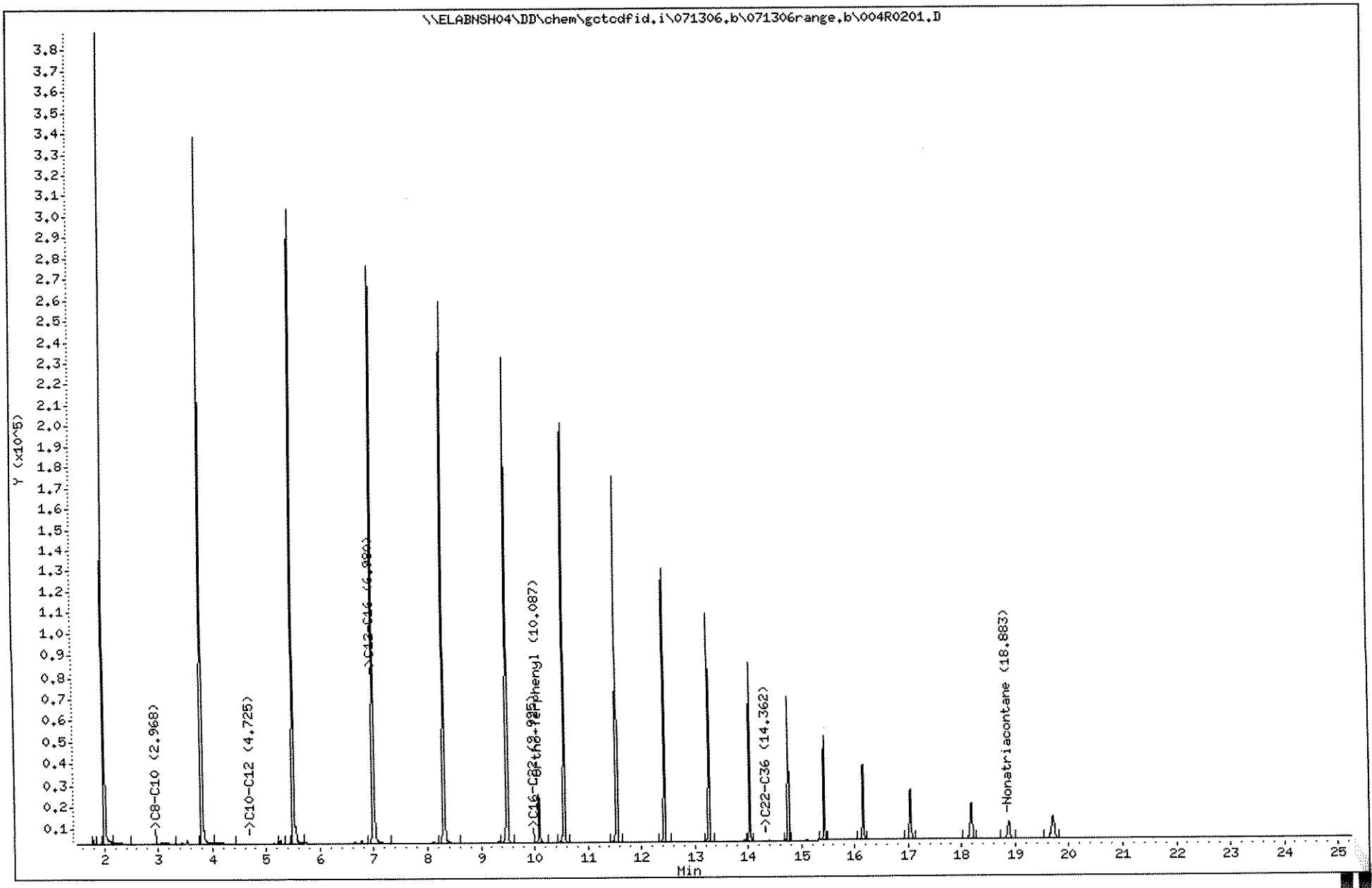
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

MM 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	36111	25.0000	23.84
S 27 >C8-C10	2.063-3.873			467564	250.000	266.2
S 28 >C10-C12	3.873-5.577			453182 ✗	250.000	264.4
S 29 >C12-C16	5.577-8.382			845332	500.000	524.7
S 30 >C16-C22	8.382-11.607			930762	750.000	730.4
S 31 >C22-C36	11.607-17.117			755981	1750.00	1521
$ 23 Nonatriacontane	18.883	18.883	0.000	27947	150.000	112.0

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\004R0201.D
Date : 13-JUL-2006 17:35
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\005R0201.D
Lab Smp Id: FLPRO 2550ppm Client Smp ID: FLPRO 2550ppm
Inj Date : 13-JUL-2006 18:07
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 2550ppm
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Meth Date : 14-Jul-2006 08:24 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

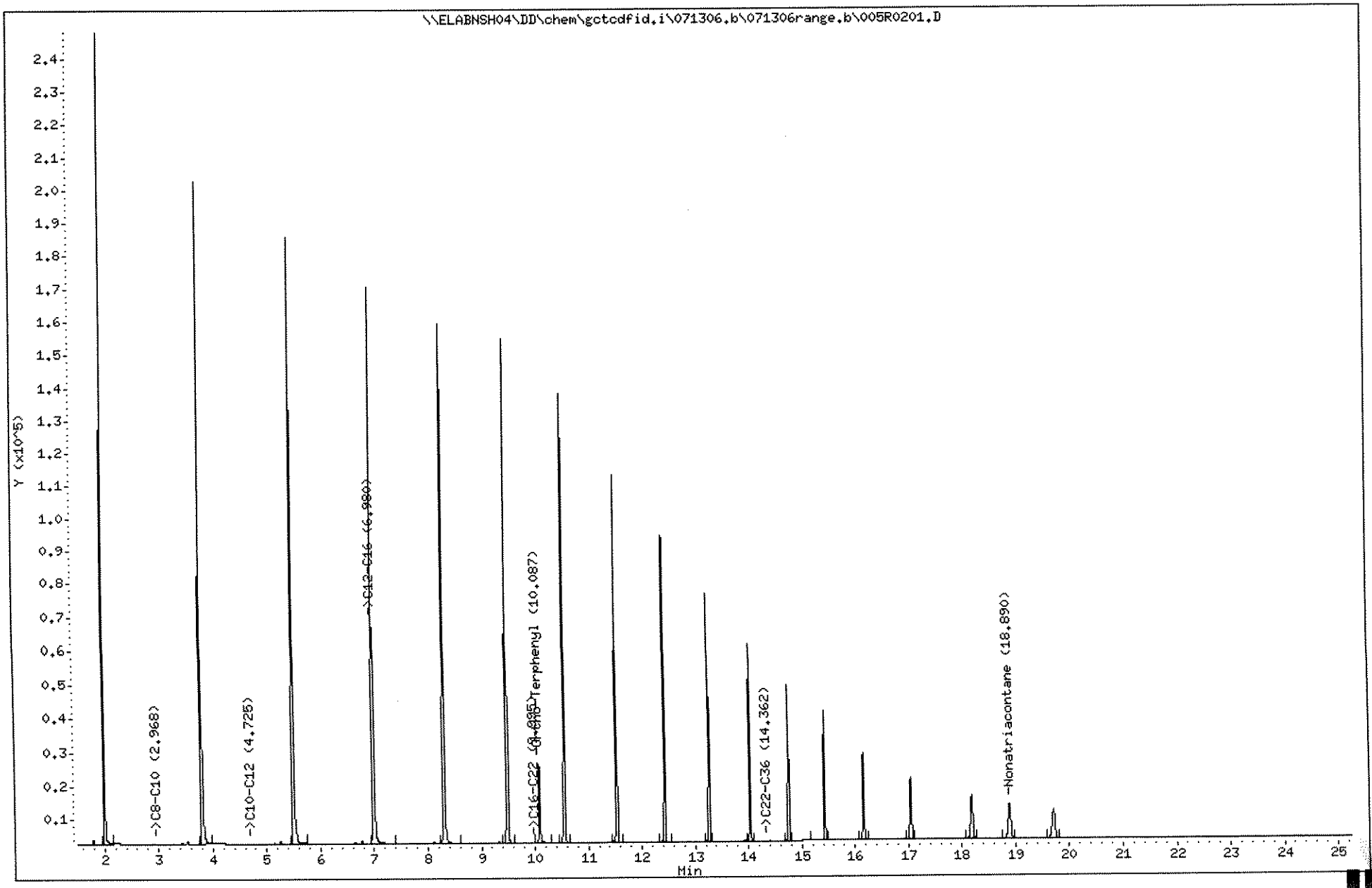
7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.086	10.086	0.000	37978	25.0000	25.07
S 27 >C8-C10	2.063-3.873			264064	150.000	150.3
S 28 >C10-C12	3.873-5.577			257029	150.000	149.9
S 29 >C12-C16	5.577-8.382			489387	300.000	303.8
S 30 >C16-C22	8.382-11.607			574269	450.000	450.7
S 31 >C22-C36	11.607-17.117			511700	1050.00	1030
$ 23 Nonatriacontane	18.890	18.890	0.000	36594	150.000	146.6

000093

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\005R0201.D
Date : 13-JUL-2006 18:07
Client ID: FLPRO 2550ppm
Sample Info: FLPRO 2550ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



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J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\006R0201.D
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Inj Date : 13-JUL-2006 18:40
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 850ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 08:24 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 16:30 Cal File: 002R0201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

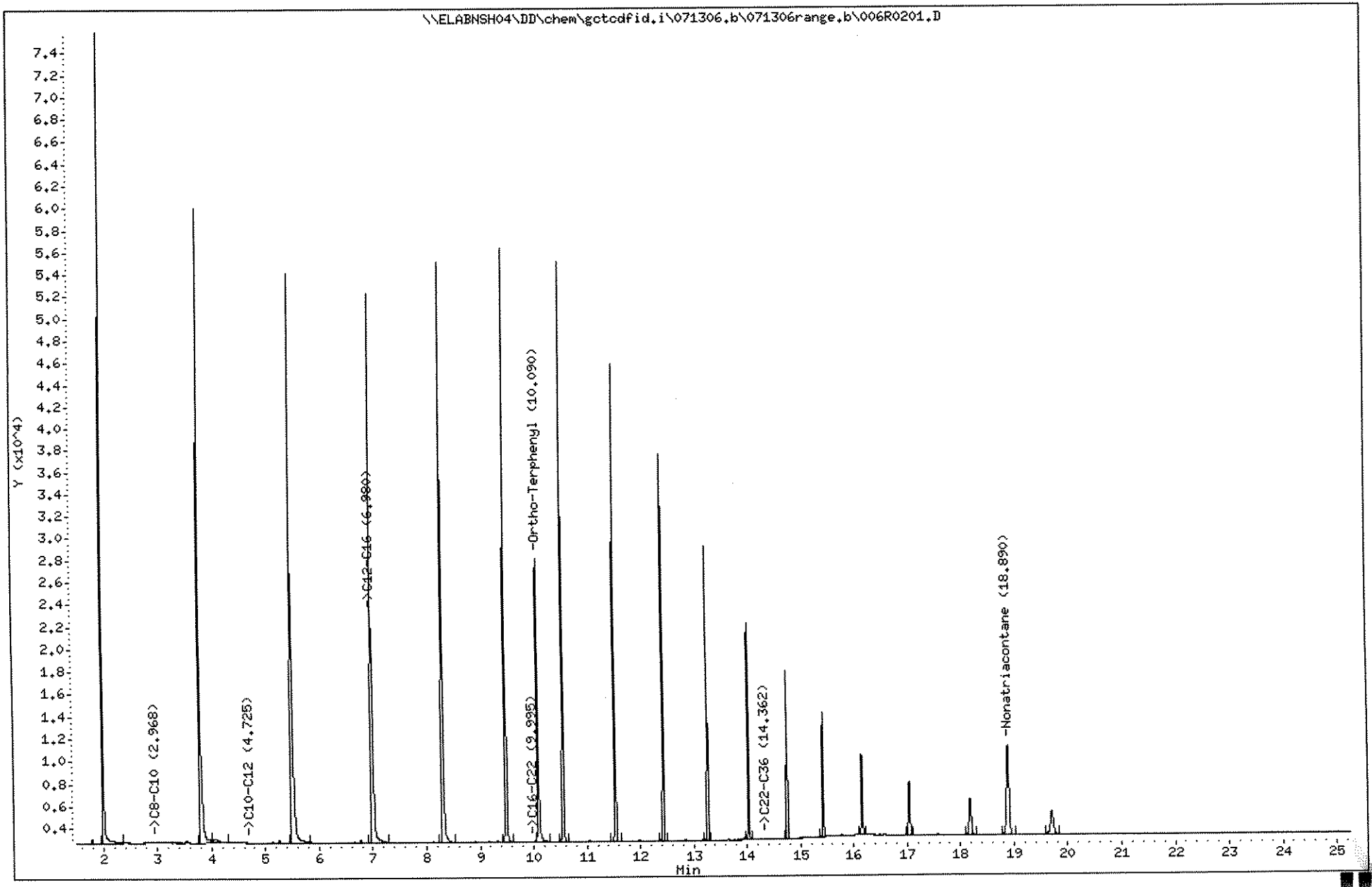
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

MMH 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.090	10.090	0.000	39276	25.0000	25.92
S 27 >C8-C10	2.063-3.873			83809	50.0000	47.71
S 28 >C10-C12	3.873-5.577			86444 X	50.0000	50.43
S 29 >C12-C16	5.577-8.382			159671	100.000	99.12
S 30 >C16-C22	8.382-11.607			199120	150.000	156.3
S 31 >C22-C36	11.607-17.117			162062	350.000	326.1
$ 23 Nonatriacontane	18.890	18.890	0.000	26831	150.000	107.5

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\006R0201.D
Date : 13-JUL-2006 18:40
Client ID: FLPRO 850ppm
Sample Info: FLPRO 850ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



000095

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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 85ppm
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Comment :
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Meth Date : 14-Jul-2006 08:25 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

MH 7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	35271	25.0000	23.28
S 27 >C8-C10	2.063-3.873			8057	5.00000	4.587(M)
S 28 >C10-C12	3.873-5.577			7834 Y	5.00000	4.570(M)
S 29 >C12-C16	5.577-8.382			14684	10.0000	9.115(M)
S 30 >C16-C22	8.382-11.607			18503	15.0000	14.52(M)
S 31 >C22-C36	11.607-17.117			17706	35.0000	35.63(M)
$ 23 Nonatriacontane	18.920	18.920	0.000	38296	150.000	153.4

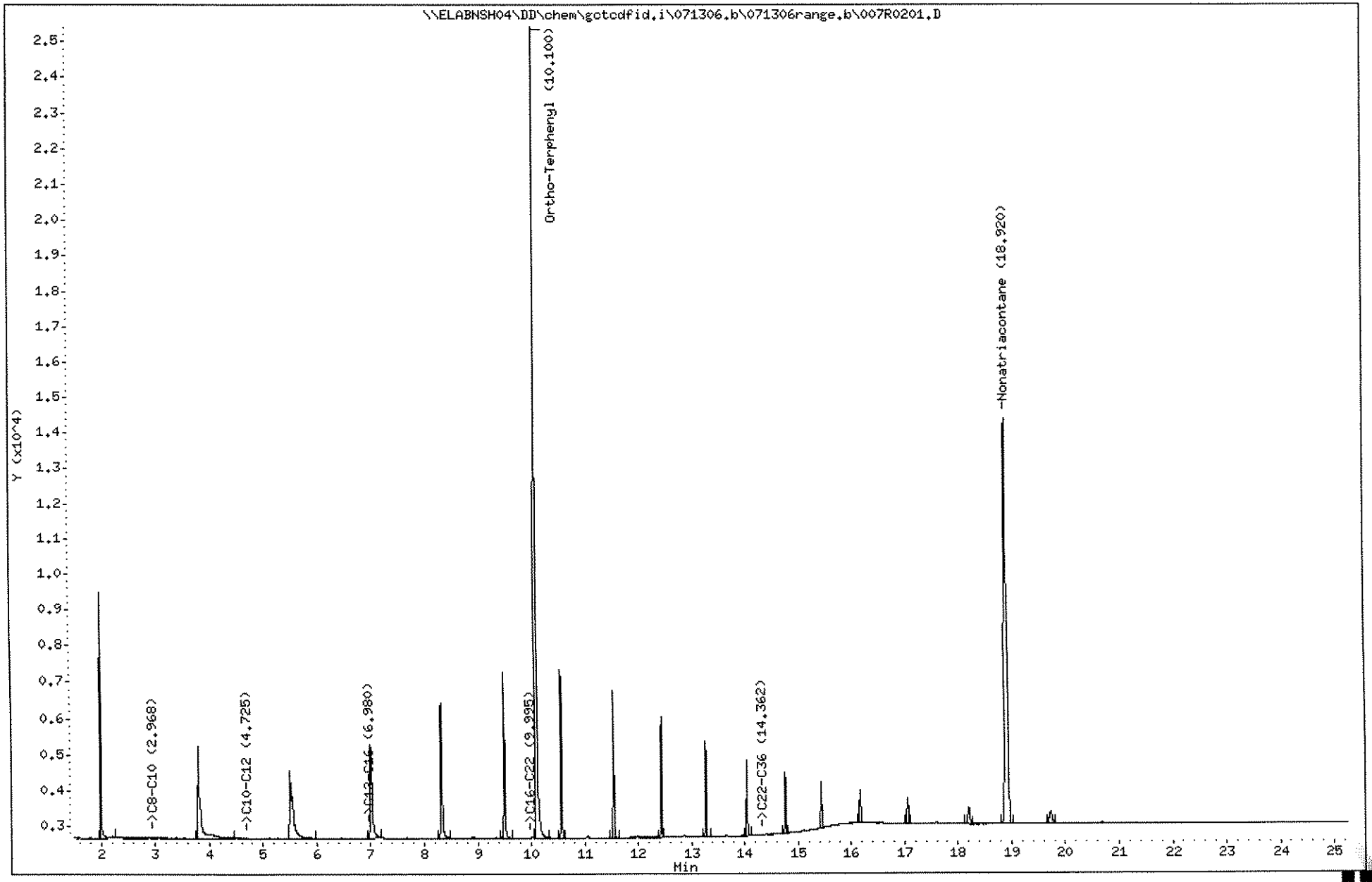
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\007R0201.D
Date : 13-JUL-2006 19:12
Client ID: FLPRO 85ppm
Sample Info: FLPRO 85ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000097



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Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\009R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

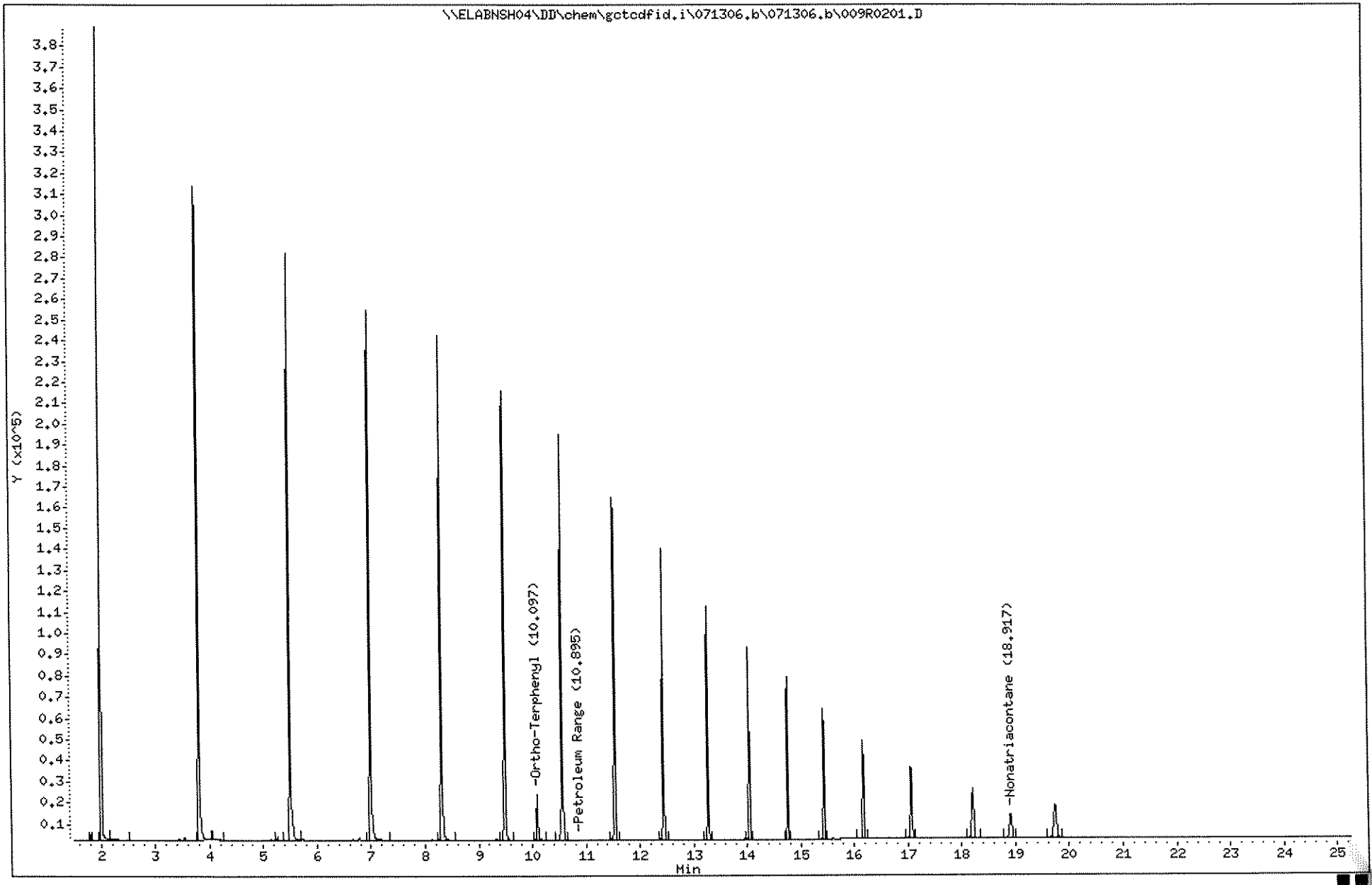
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			3990928 X	4250.00	4195
$ 2 Ortho-Terphenyl	10.096	10.100	-0.004	35159	25.0000	23.21
$ 23 Nonatriacontane	18.916	18.920	-0.004	38141	150.000	152.8

00099

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\009R0201.D
Date : 13-JUL-2006 20:17
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



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Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\009R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 10:46 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

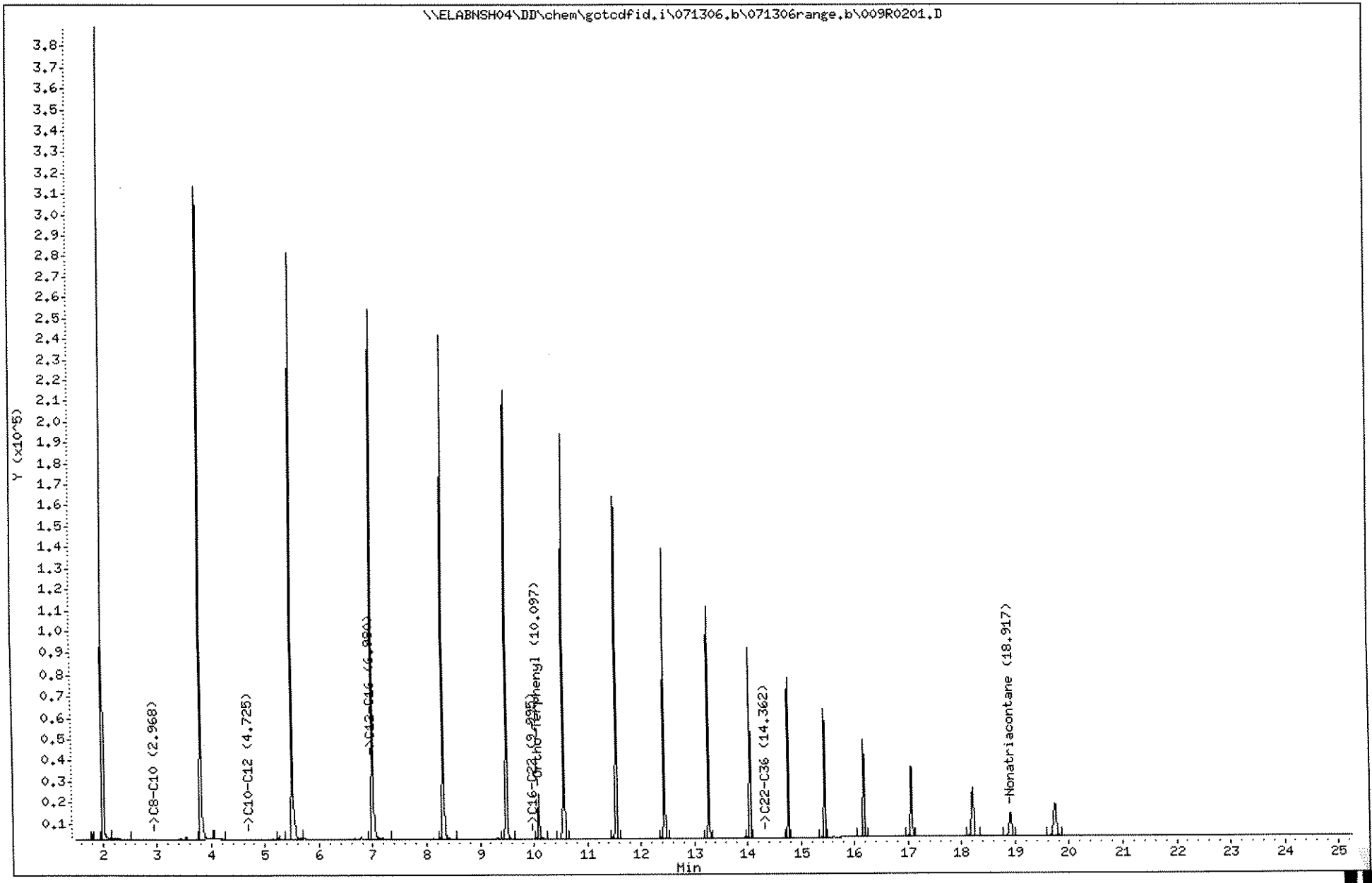
7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.096	10.100	-0.004	35159	25.0000	23.21
S 27 >C8-C10	2.063-3.873			447636	250.000	254.8
S 28 >C10-C12	3.873-5.577			426715	250.000	248.9
S 29 >C12-C16	5.577-8.382			792397	500.000	491.9
S 30 >C16-C22	8.382-11.607			909723	750.000	713.9
S 31 >C22-C36	11.607-17.117			843078	1750.00	1697
$ 23 Nonatriacontane	18.916	18.920	-0.004	38141	150.000	152.8

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\009R0201.D
Date : 13-JUL-2006 20:17
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000101



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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\020R0201.D
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Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

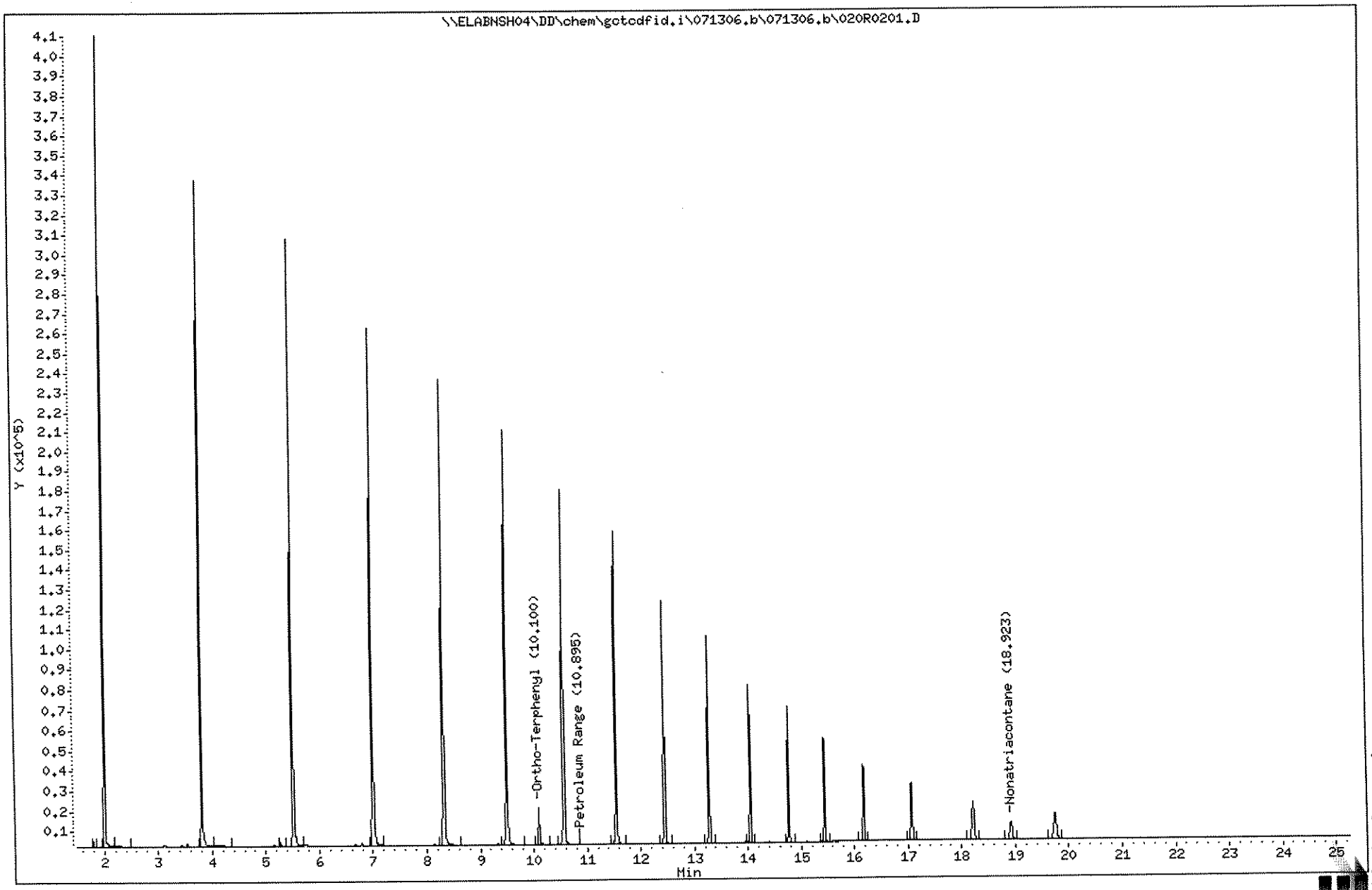
7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			3853662	4250.00	4051
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	31835 X	25.0000	21.01
$ 23 Nonatriacontane	18.923	18.920	0.003	31294	150.000	125.4

000103

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\020R0201.D
Date : 14-JUL-2006 02:17
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



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Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\020R0201.D
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Inj Date : 14-JUL-2006 02:17
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:47 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

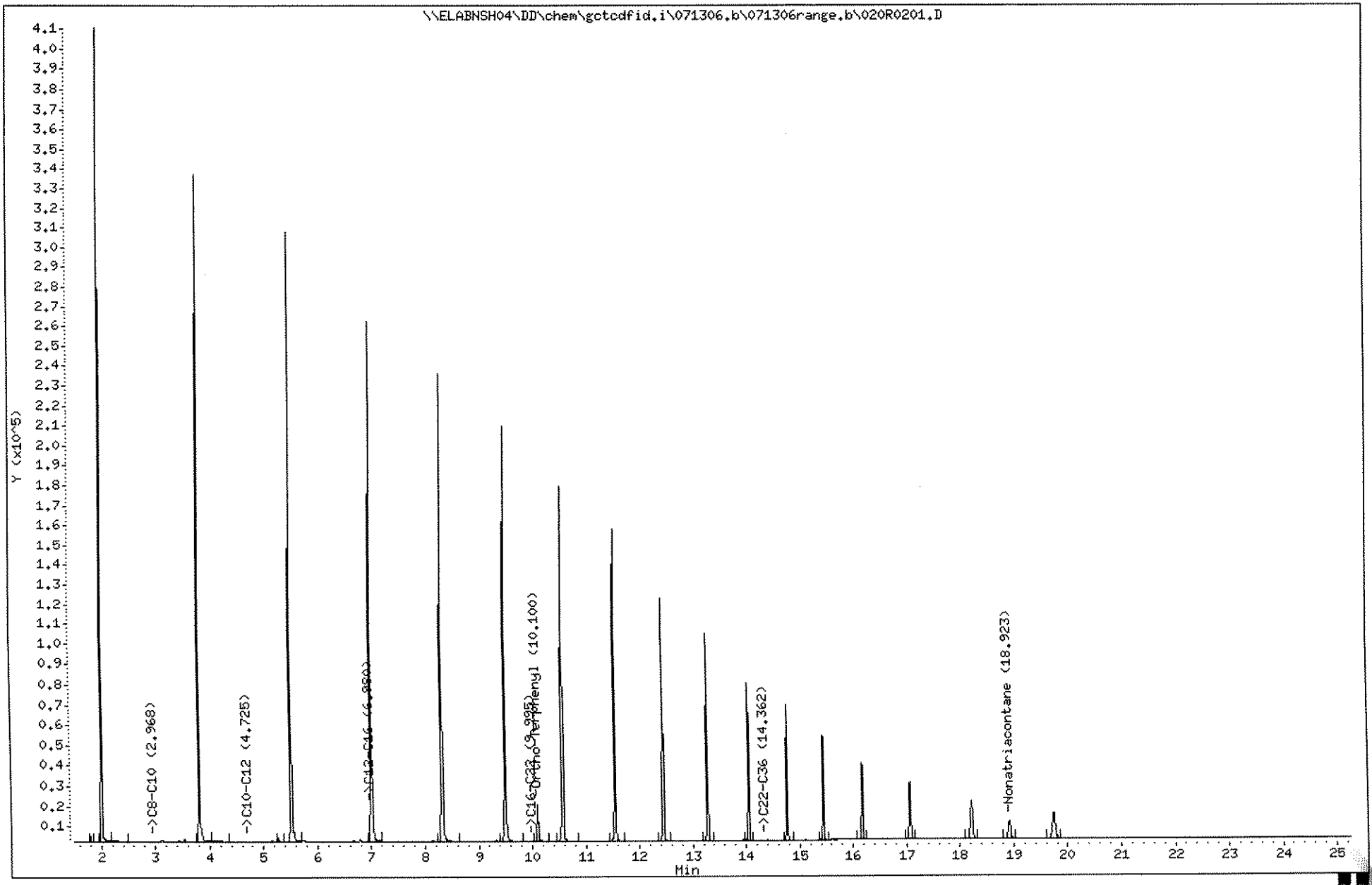
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

2/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	31835	25.0000	21.01
S 27 >C8-C10	2.063-3.873			466809	250.000	265.8
S 28 >C10-C12	3.873-5.577			442398	250.000	258.1
S 29 >C12-C16	5.577-8.382			791370	500.000	491.2
S 30 >C16-C22	8.382-11.607			858150	750.000	673.4
S 31 >C22-C36	11.607-17.117			736169	1750.00	1482
$ 23 Nonatriacontane	18.923	18.920	0.003	31294	150.000	125.4

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\020R0201.D
Date : 14-JUL-2006 02:17
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32



000105

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\028R0201.D
Lab Smp Id: FLPRO 4250ppm Client Smp ID: FLPRO 4250ppm
Inj Date : 14-JUL-2006 06:39
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
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Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

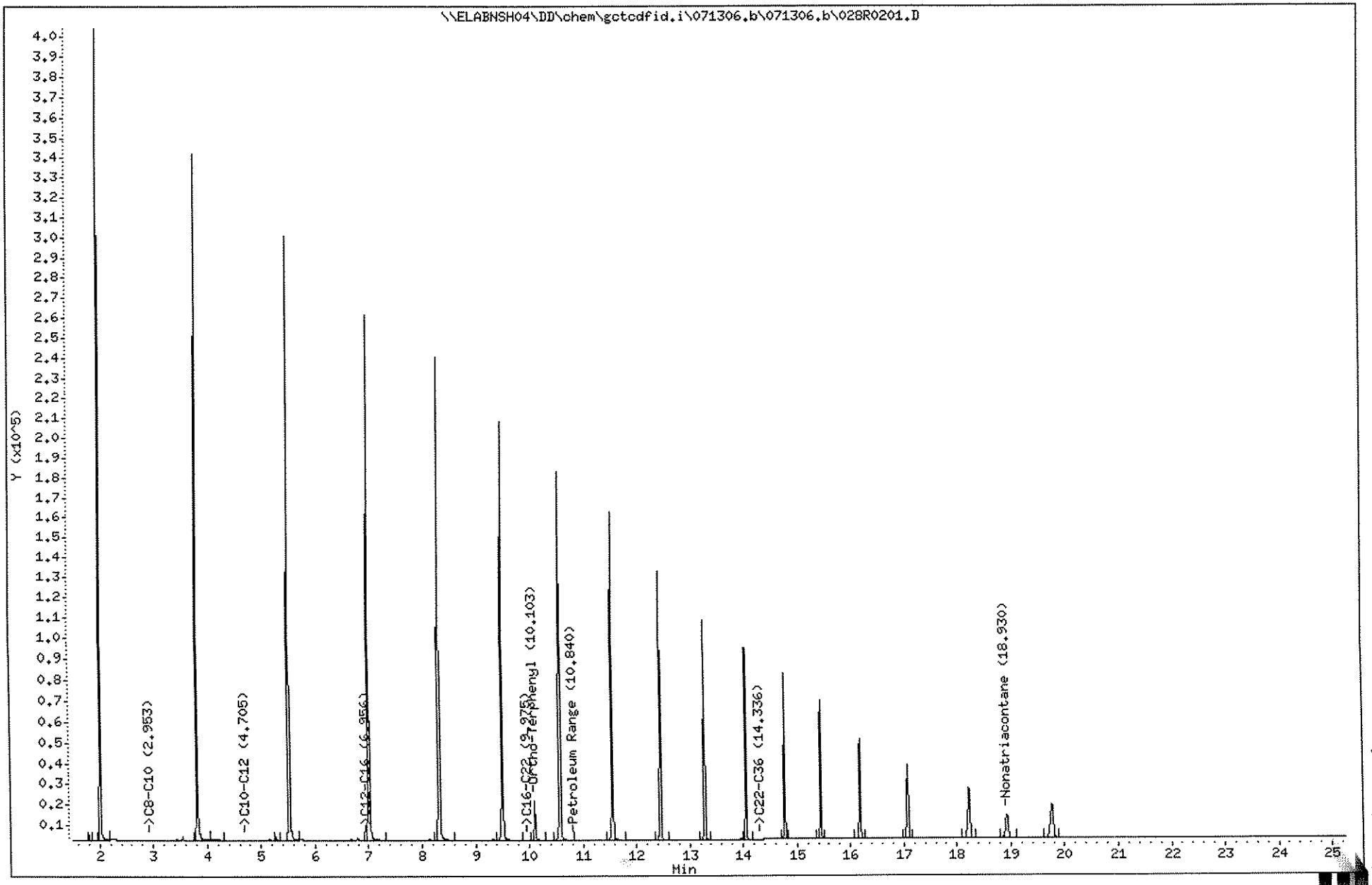
2/1.w/or

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	1.963-19.793			3965796	4250.00	4168
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	31562	25.0000	20.83
$ 23 Nonatriacontane	18.930	18.920	0.010	40281 ✗	150.000	161.4

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\028R0201.D
Date : 14-JUL-2006 06:39
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000107



Empirical Laboratories

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\028R0201.D
Lab Smp Id: FLPRO 4250ppm Client Smp ID: FLPRO 4250ppm
Inj Date : 14-JUL-2006 06:39
Operator : amb Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:47 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

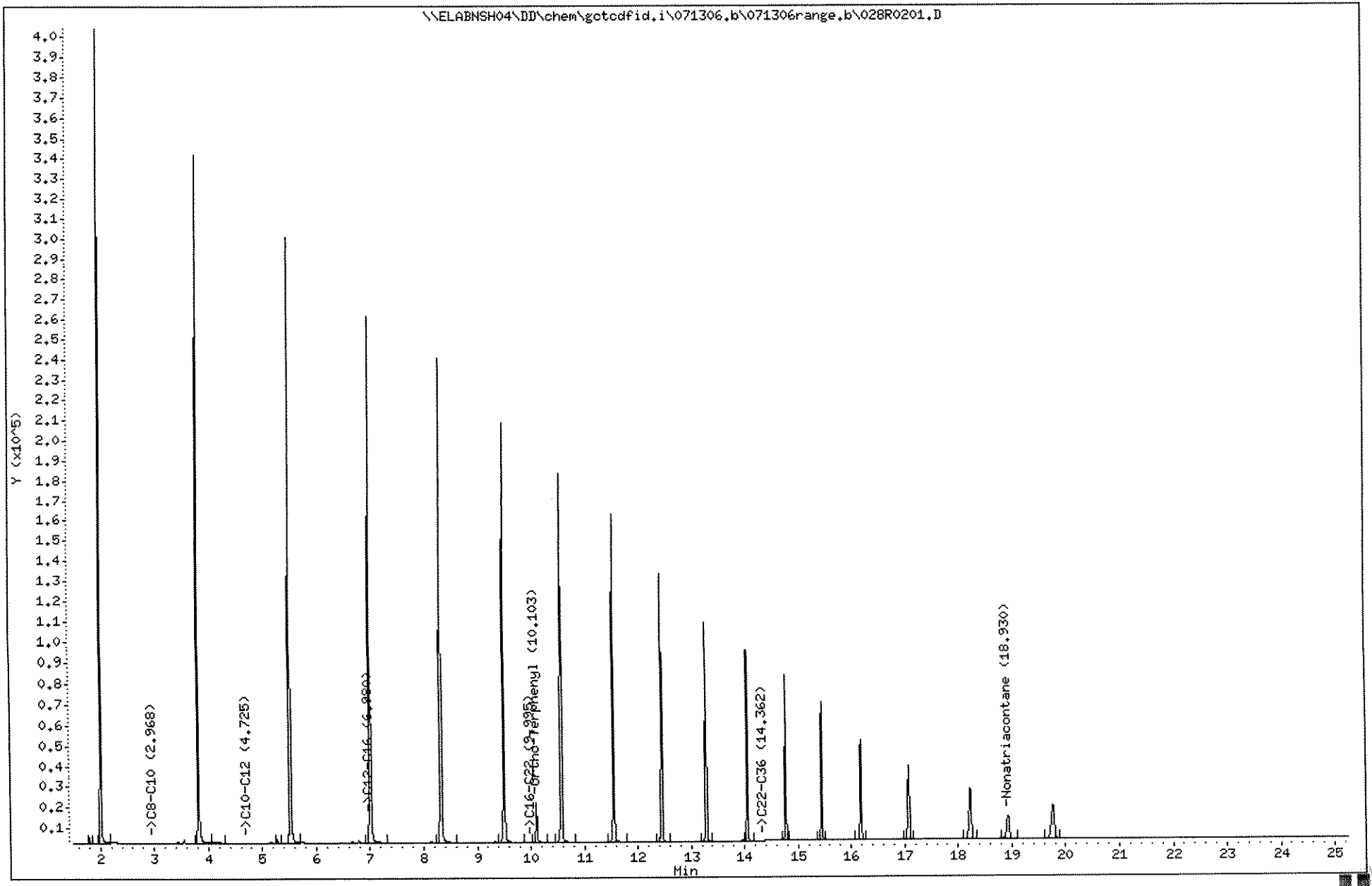
Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	31562	25.0000	20.83
S 27 >C8-C10	2.063-3.873			464224	250.000	264.3
S 28 >C10-C12	3.873-5.577			443014	250.000	258.4
S 29 >C12-C16	5.577-8.382			796040	500.000	494.2
S 30 >C16-C22	8.382-11.607			875717	750.000	687.2
S 31 >C22-C36	11.607-17.117			865304	1750.00	1741
$ 23 Nonatriacontane	18.930	18.920	0.010	40281	150.000	161.4

Data File: \\ELABNSH04\DD\chem\gctodfid.i\071306.b\071306range.b\028R0201.D
Date : 14-JUL-2006 06:39
Client ID: FLPRO 4250ppm
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctodfid.i
Operator: amb
Column diameter: 0.32



000109

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	7.2	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\014R0201.D
Lab Smp Id: FS1BLK0710 Client Smp ID: FS1BLK0710
Inj Date : 13-JUL-2006 23:01
Operator : amb Inst ID: gctcdfid.i
Smp Info : FS1BLK0710
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			86074	90.4756	7.238(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	37254	24.5898	1.967(M)
$ 23 Nonatriacontane	18.926	18.920	0.006	47290	189.440	15.16

QC Flag Legend

M - Compound response manually integrated.

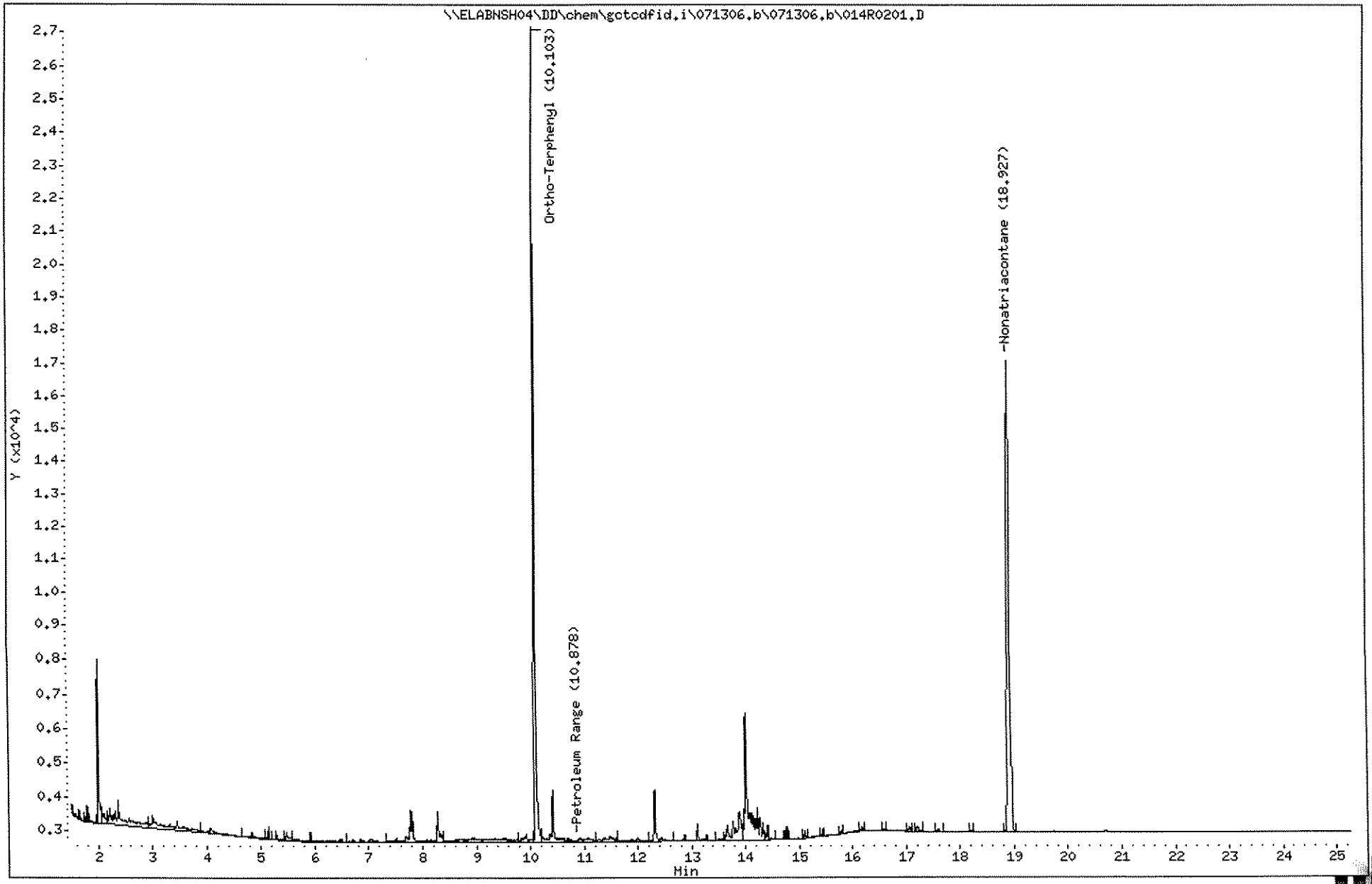
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\014R0201.D
Date : 13-JUL-2006 23:01
Client ID: FS1BLK0710
Sample Info: FS1BLK0710
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
7.19.06

000112



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.16	0.40	0.71	
	>C10-C12	0.16	0.40	0.19	J
	>C12-C16	0.32	0.80	0.48	J
	>C16-C22	0.48	1.2	0.97	J
	>C22-C36	1.1	2.8	5.5	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\014R0201.D
Lab Smp Id: FS1BLK0710 Client Smp ID: FS1BLK0710
Inj Date : 13-JUL-2006 23:01
Operator : amb Inst ID: gctcdfid.i
Smp Info : FS1BLK0710
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:46 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	37254	24.5898	1.967 (M)
S 27 >C8-C10	2.063-3.873			15639	8.90353	0.7123 (M)
S 28 >C10-C12	3.873-5.577			4050	2.36259	0.1890 (M)
S 29 >C12-C16	5.577-8.382			9712	6.02884	0.4823 (M)
S 30 >C16-C22	8.382-11.607			15493	12.1582	0.9726 (M)
S 31 >C22-C36	11.607-17.117			34229	68.8843	5.511 (M)
$ 23 Nonatriacontane	18.926	18.920	0.006	47290	189.440	15.16

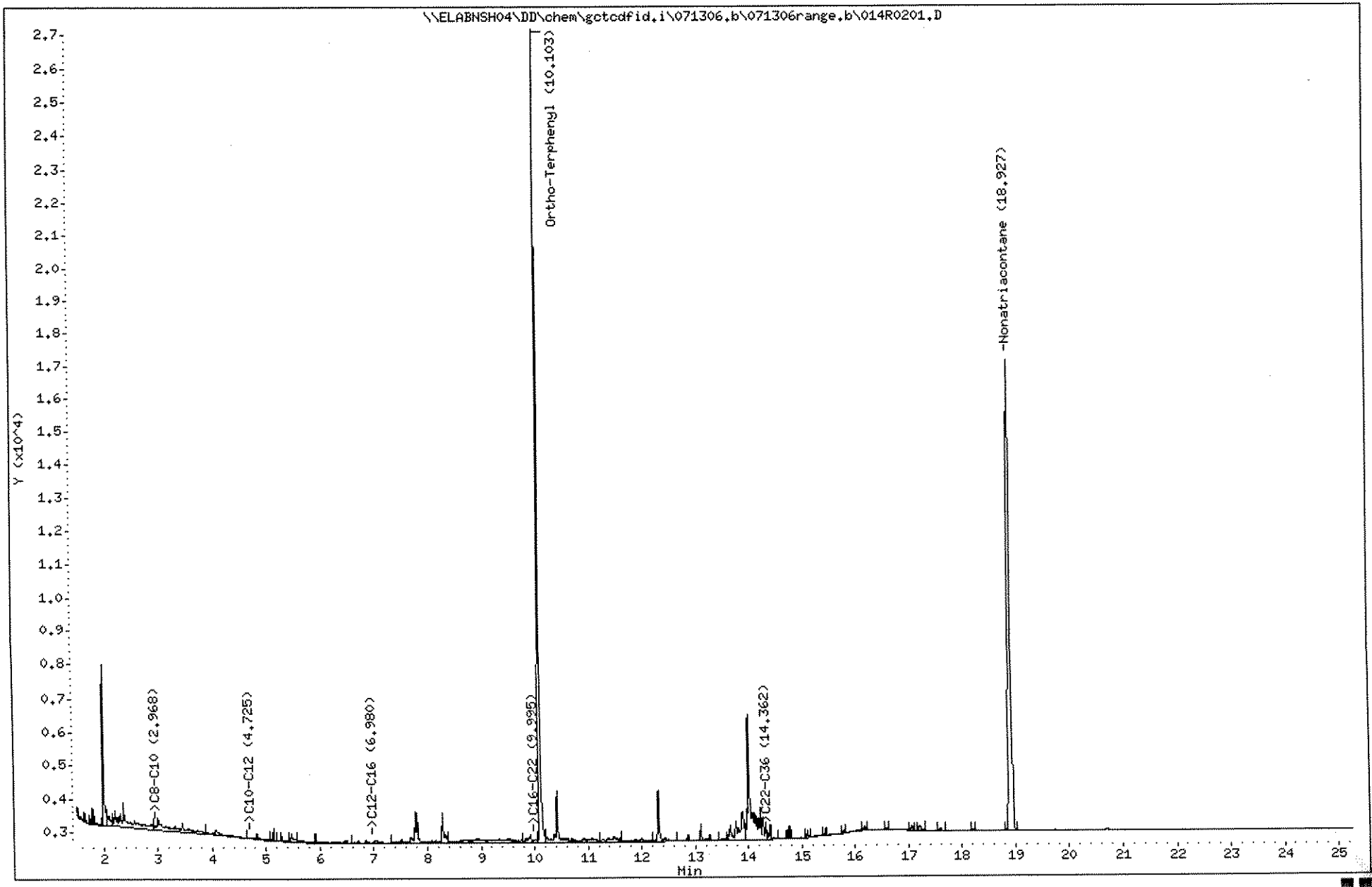
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\014R0201.D
Date : 13-JUL-2006 23:01
Client ID: FS1BLK0710
Sample Info: FS1BLK0710
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000115



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0710

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 010R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 20:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range _____	0.060	0.17	0.069	J

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\010R0201.D
Lab Smp Id: FW1BLK0710 Client Smp ID: FW1BLK0710
Inj Date : 13-JUL-2006 20:50
Operator : amb Inst ID: gctcdfid.i
Smp Info : FW1BLK0710
Misc Info : ch2.f07022;1000;2;071006FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	1.963-19.793			32804	34.4815	0.06896(M)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	43168	28.4934	0.05699(M)
$ 23 Nonatriacontane	18.926	18.920	0.006	50809	203.536	0.4071

QC Flag Legend

M - Compound response manually integrated.

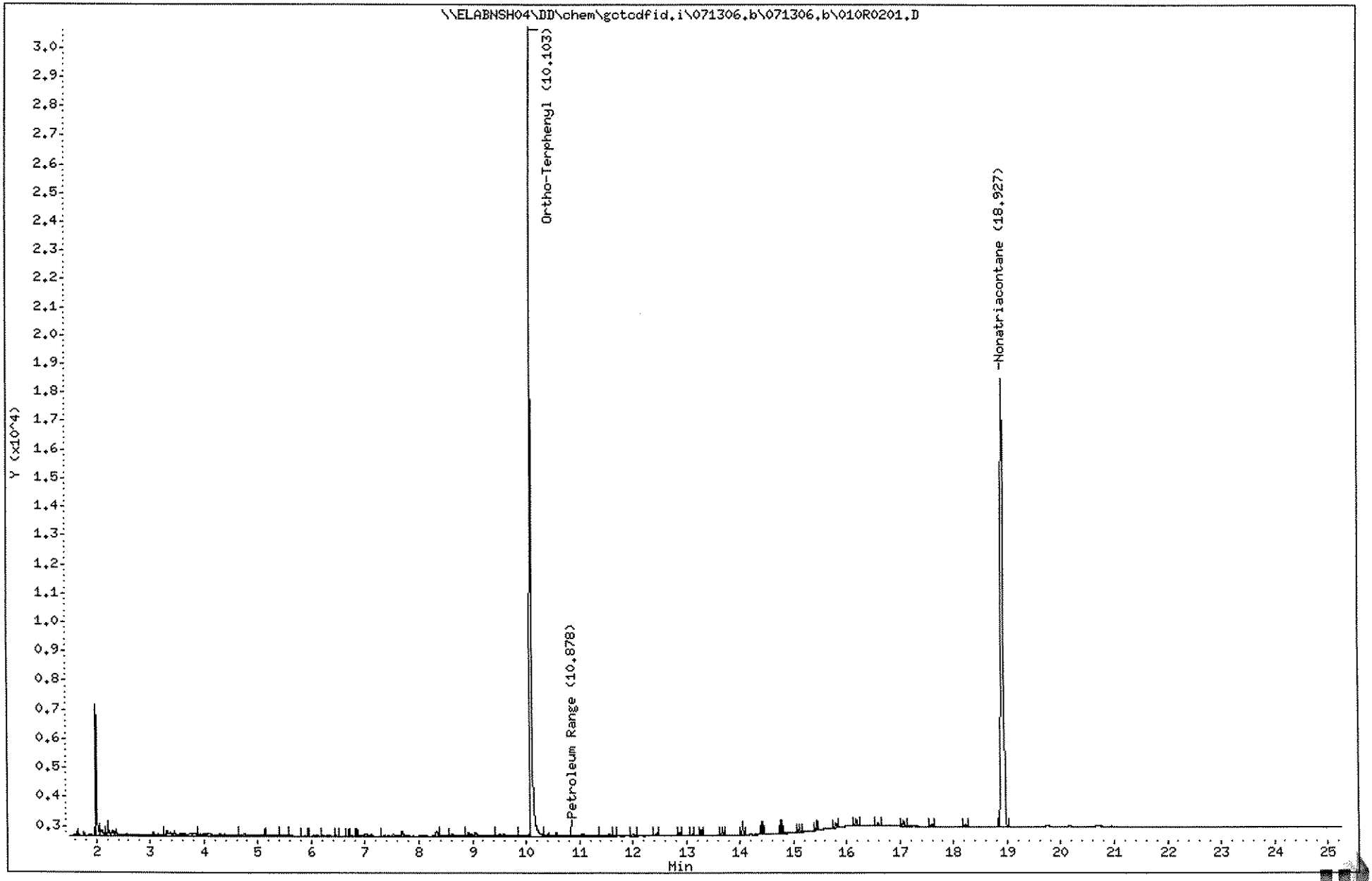
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\010R0201.D
Date : 13-JUL-2006 20:50
Client ID: FW1BLK0710
Sample Info: FW1BLK0710
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C
J.H. 7.14.06

000118



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710LCS

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 015R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:34

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	140	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\015R0201.D
Lab Smp Id: FS1BLK0710LCS Client Smp ID: FS1BLK0710LCS
Inj Date : 13-JUL-2006 23:34
Operator : amb Inst ID: gctcdfid.i
Smp Info : FS1BLK0710LCS
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			1681988	1768.00	141.4
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	37176	24.5383	1.963
$ 23 Nonatriacontane	18.923	18.920	0.003	28553	114.381	9.150

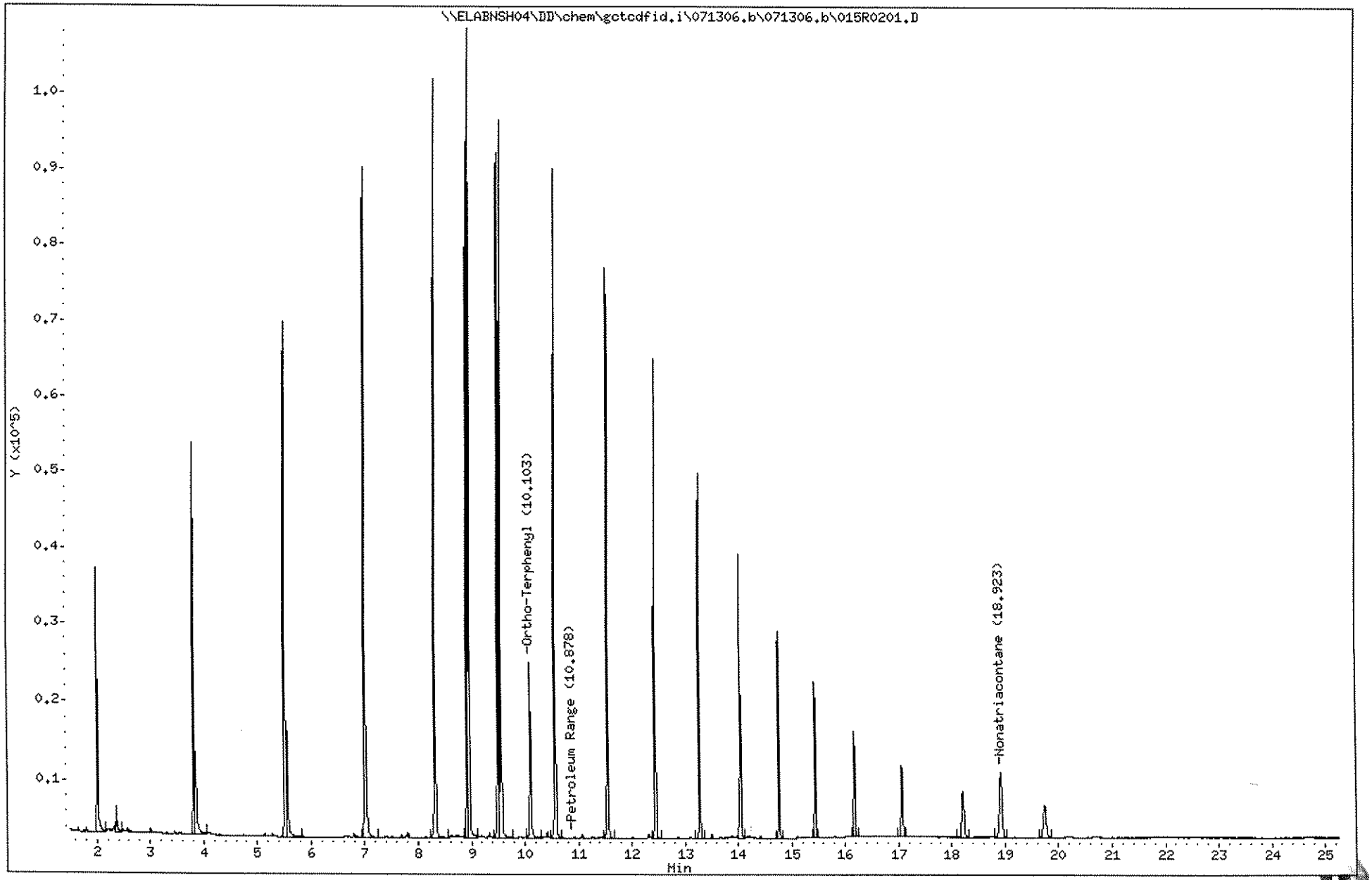
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\015R0201.D
Date : 13-JUL-2006 23:34
Client ID: FS1BLK0710LCS
Sample Info: FS1BLK0710LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

C Jeff 7.14.06

000121



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0710LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0710LCS

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 015R0201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 23:34

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.16	0.40	4.8	
	>C10-C12	0.16	0.40	6.2	
	>C12-C16	0.32	0.80	14	
	>C16-C22	0.48	1.2	49	
	>C22-C36	1.1	2.8	49	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\015R0201.D
Lab Smp Id: FS1BLK0710LCS Client Smp ID: FS1BLK0710LCS
Inj Date : 13-JUL-2006 23:34
Operator : amb Inst ID: gctcdfid.i
Smp Info : FS1BLK0710LCS
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\FLPROR.m
Meth Date : 14-Jul-2006 10:46 mmcginnity Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: FLrangesSurr.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

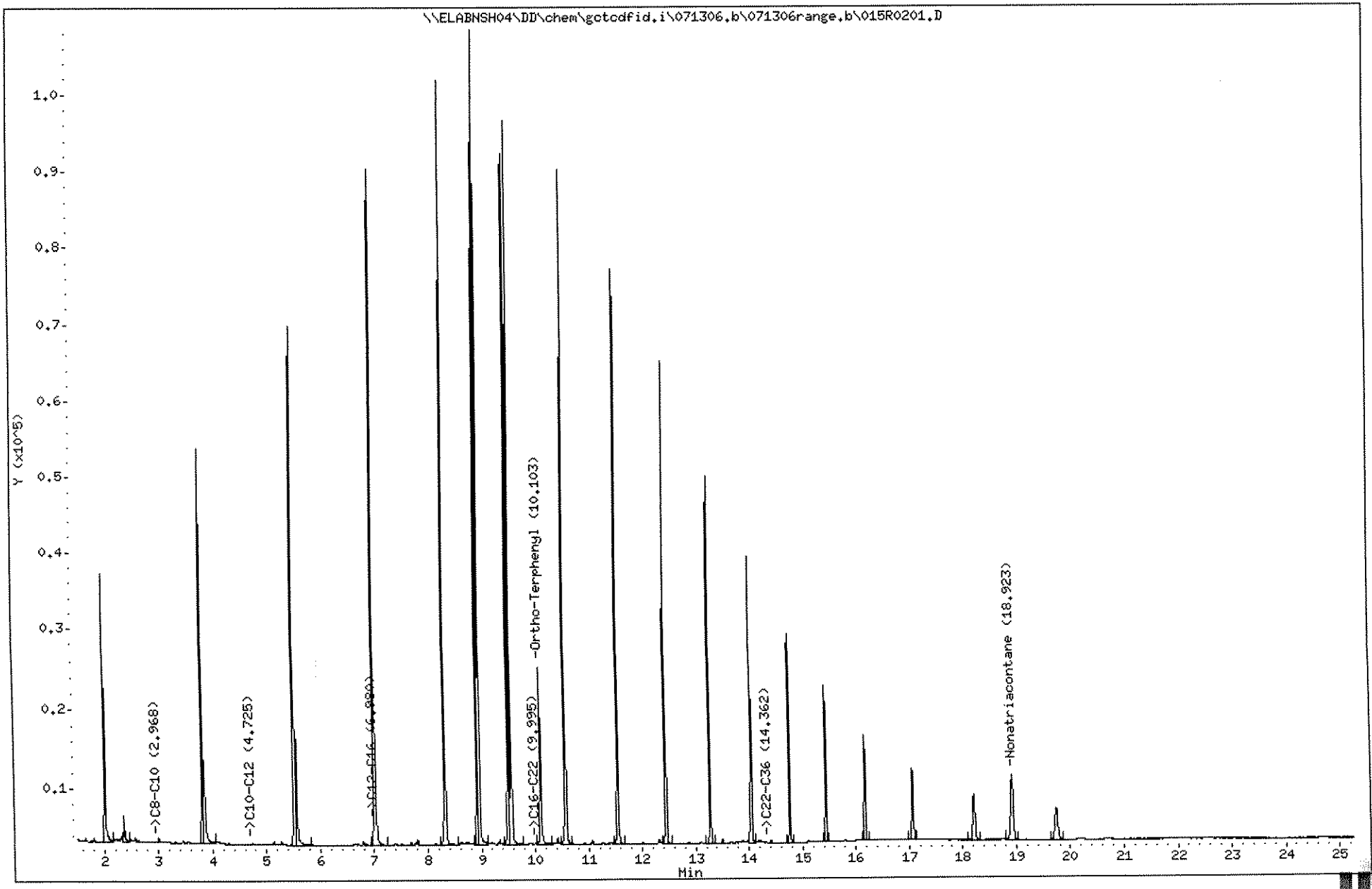
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	37176	24.5383	1.963
S 27 >C8-C10	2.063-3.873			104649	59.5783	4.766
S 28 >C10-C12	3.873-5.577			132646	77.3797	6.190
S 29 >C12-C16	5.577-8.382			283241	175.825	14.07
S 30 >C16-C22	8.382-11.607			775776	608.795	48.70
S 31 >C22-C36	11.607-17.117			305212	614.225	49.14
$ 23 Nonatriacontane	18.923	18.920	0.003	28553	114.381	9.150

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306range.b\015R0201.D
Date : 13-JUL-2006 23:34
Client ID: FS1BLK0710LCS
Sample Info: FS1BLK0710LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: amb
Column diameter: 0.32

000124



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0710LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0710LCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 011R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/13/06 21:23

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	4.2	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\011R0201.D
Lab Smp Id: FW1BLK0710LCS Client Smp ID: FW1BLK0710LCS
Inj Date : 13-JUL-2006 21:23
Operator : amb Inst ID: gctcdfid.i
Smp Info : FW1BLK0710LCS
Misc Info : ch2.f07022;1000;2;071006FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	1.963-19.793			1995500	2097.54	4.195(R)
$ 2 Ortho-Terphenyl	10.106	10.100	0.006	43293	28.5759	0.05715
$ 23 Nonatriacontane	18.926	18.920	0.006	33050	132.395	0.2648

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

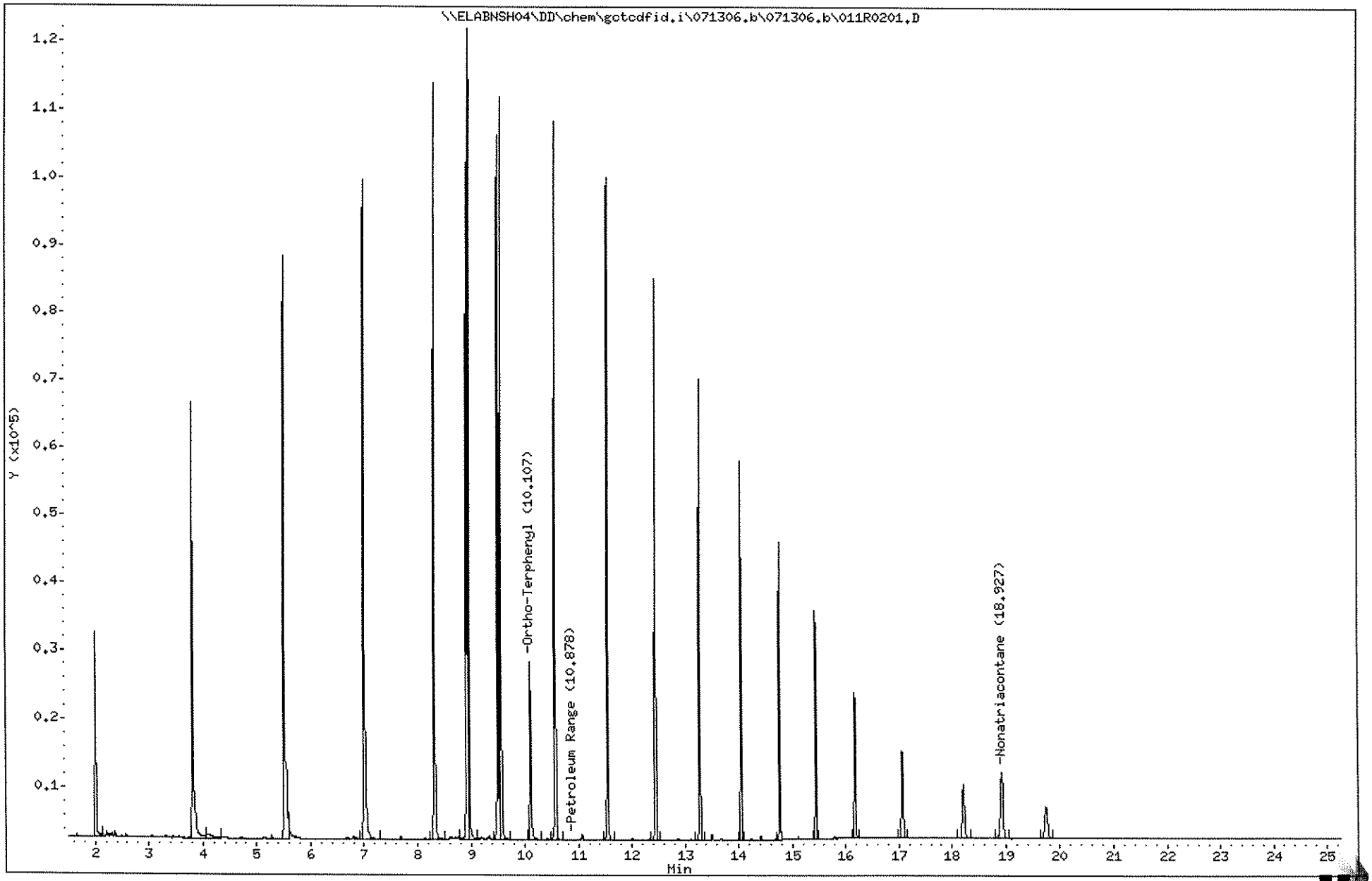
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\011R0201.D
Date : 13-JUL-2006 21:23
Client ID: FW1BLK0710LCS
Sample Info: FW1BLK0710LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

C J.H. 9.14.06

0000127



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S
060706MS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03MS

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 022R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 03:22

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.9	260	

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J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\022R0201.D
Lab Smp Id: 0607022-03MS Client Smp ID: 51CFM01S060706MS
Inj Date : 14-JUL-2006 03:22
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-03;MS
Misc Info : ch2.f07022;25.2;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 22 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	98.000	Percent Solids

7/14/06

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			3045664	3201.41	259.3(RM)
$ 2 Ortho-Terphenyl	10.100	10.100	0.000	24311	16.0467	1.300(M)
$ 23 Nonatriacontane	18.923	18.920	0.003	29545	118.355	9.585(M)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

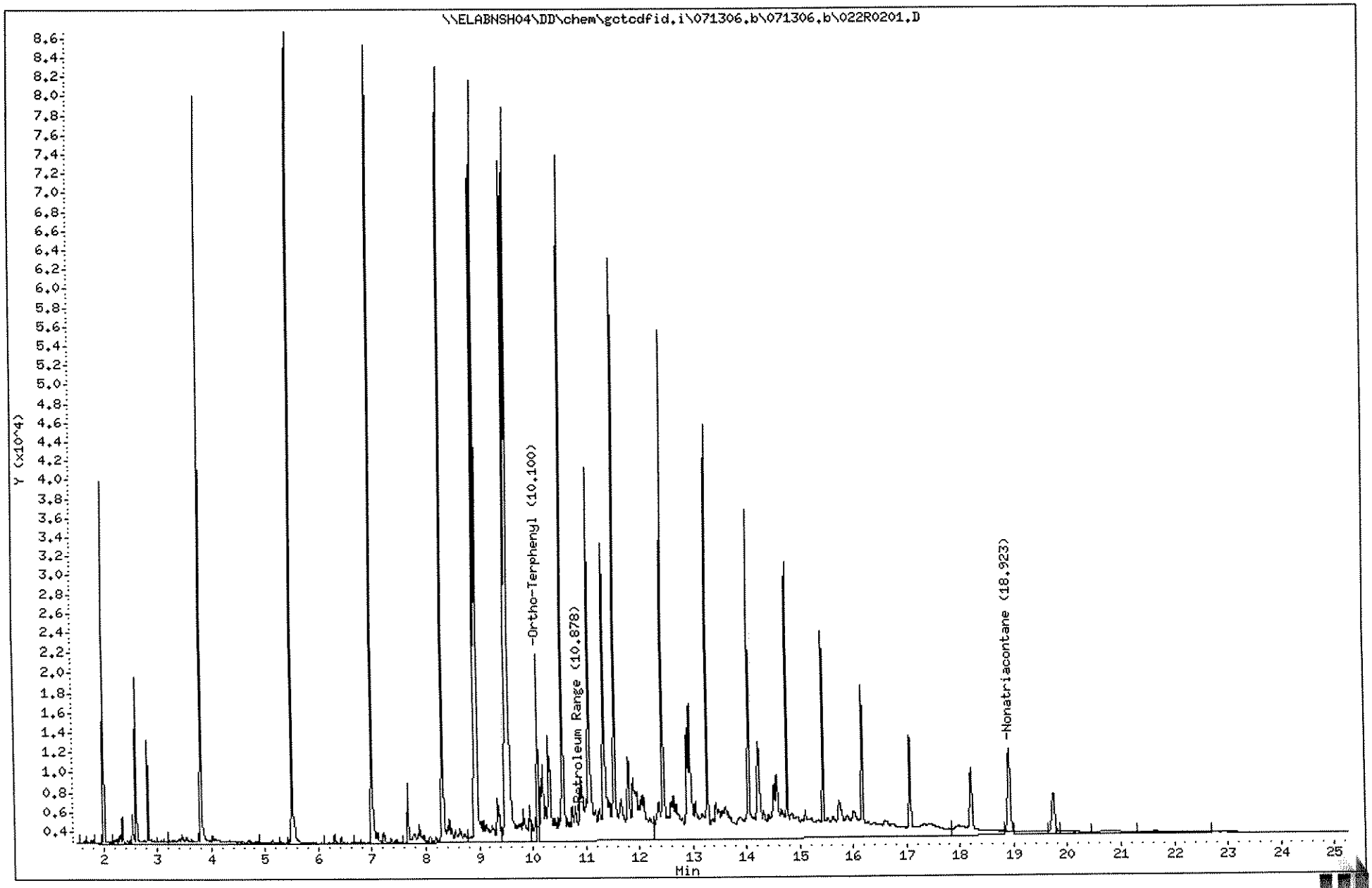
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\022R0201.D
Date : 14-JUL-2006 03:22
Client ID: 51CFM01S060706MS
Sample Info: 0607022-03:MS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B.C 7.14.06

000130



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM01S
060706MSD

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07022

Matrix: (soil/water) SOIL Lab Sample ID: 0607022-03MSD

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 023R0201

% Moisture: 2 decanted: (Y/N) N Date Sampled: 07/06/06 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/10/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/14/06 03:55

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.9	380	

Empirical Laboratories

J.H. 7.14.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\023R0201.D
Lab Smp Id: 0607022-03MSD Client Smp ID: 51CFM01S060706MSD
Inj Date : 14-JUL-2006 03:55
Operator : amb Inst ID: gctcdfid.i
Smp Info : 0607022-03;MSD
Misc Info : ch2.f07022;25.0;2;071006FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\FLPROR.m
Meth Date : 14-Jul-2006 10:41 jholliman Quant Type: ESTD
Cal Date : 13-JUL-2006 19:12 Cal File: 007R0201.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-JHOLLIMAN3

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	98.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	1.963-19.793			4487794	4717.29	385.1(RM)
$ 2 Ortho-Terphenyl	10.103	10.100	0.003	38674	25.5271	2.084(M)
$ 23 Nonatriacontane	18.930	18.920	0.010	53545	214.497	17.51(M)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

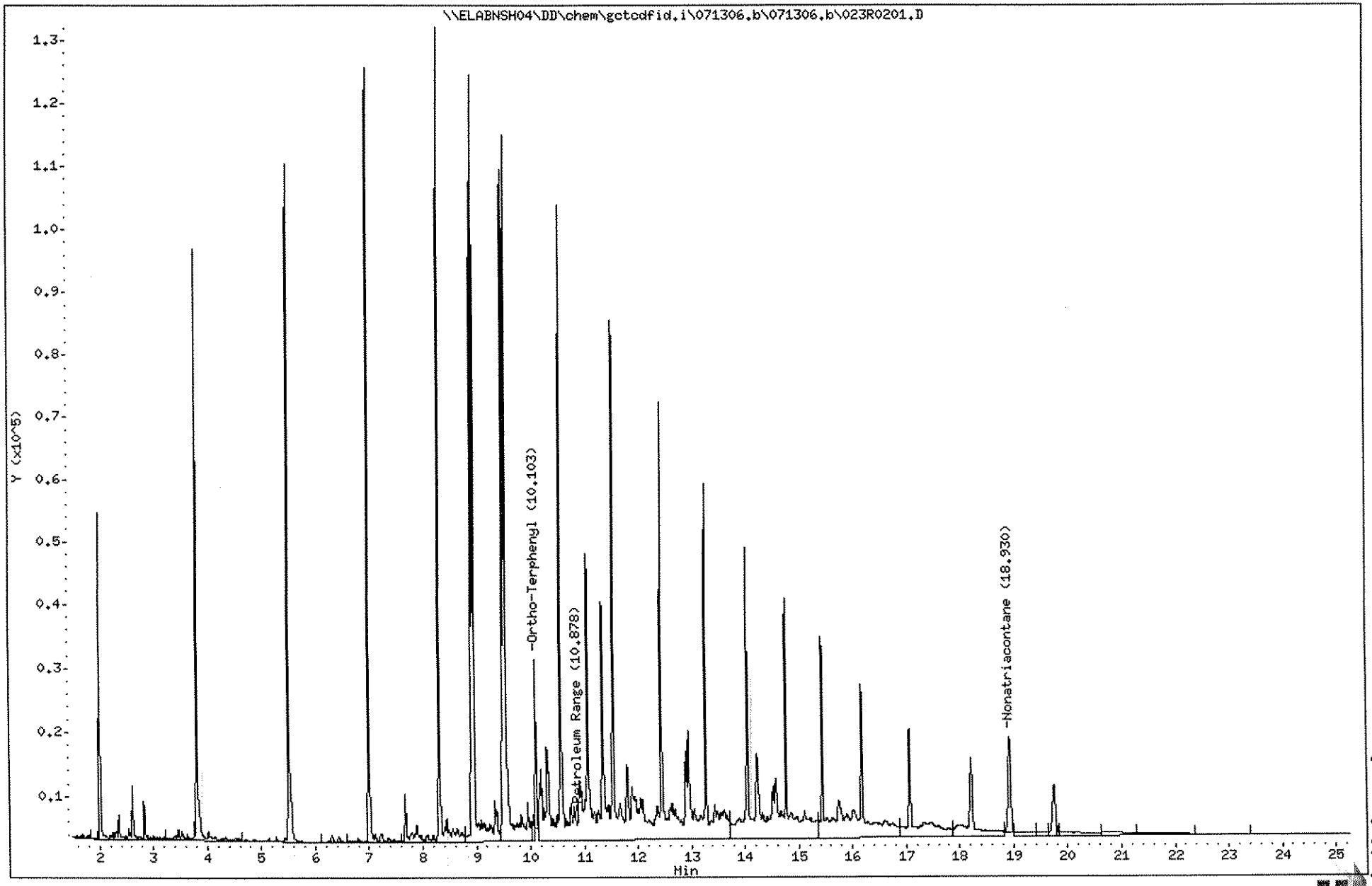
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\071306.b\071306.b\023R0201.D
Date : 14-JUL-2006 03:55
Client ID: 51CFM01S060706MSD
Sample Info: 0607022-03;MSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: amb
Column diameter: 0.32

B, C JH 7.14.06

000133



Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7022-06, 07	F. PRO	13:25 7/11/06	BTD	13:50 7/11/06	BTD	Analysis
7008-01, 7009-01	EXP	13:25 7/11/06	BTD	↓	↓	↓
6411-1-3 7001-1,2 6419-1-3 7017-1 7023-1 7023-1	Pest/PCB			200 7-11-06	ug	
7023-1 7014-1-3 7015-1 7025-1	BNA			220 7-11-06	MA	
6217.04; 6236.01 6382.1-5; 6404.01	PEST./PCB	3 30 Pm / 7.11.06	J.H.	5 15 Pm / 7.11.06	J.H.	ANALYZE
6411.1-3; 6419.1-3 7001.1,2; 7017.01 7023.01	↓	↓	J.H.	↓	J.H.	↓
7022-02	F. PRO	09:20 7/12/06	BTD	9:25 7/12/06	BTD	Analyze
7006-1-4	PCB			7-12-06 1000	ug	
6423-01 7026-1-3 7006-01-04	PCB	10:28 7/12/06	BTD	15:30 7/12/06	BTD	Analyze
7011-01,02 7023-01	↓	↓	↓	↓	↓	↓
7022-01-11 7.	F. PRO	12:15 7/12/06	BTD	↓	↓	ReAnalyze
6411-1-3 6419-1-3 7001-1,2 7023-1	Herb's			7-13-06 1100	ug	
7037-1-4 7040-1-4 7041-1,2 7042-1	PCB			7-13-06 1:10	ug	
7023.01; 6382.1-5; 6404.1,2; 6162.1-4 6195.1-4	HERB.	3 05 Pm / 7.13.06	J.H.	4 10 Pm / 7.13.06	J.H.	ANALYZE
7015-01 7023-01 7025-01 6411-1-03 6419-1-03 6423-01 6799-01-02 7001-01-02	BNA	8:05 7/13/06	[illegible]	8:30 7/14/06	[illegible]	Analysis
7017-01-02 7014-01-03 6405-02	↓	↓	↓	↓	↓	↓
7014-01-03; 6384-02 MDL's SOIL & Water	F. PRO	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
6423-01 7026-01	PCB	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
7039, 40, 41, 42	↓	↓	↓	↓		↓
7037-1-54	Exp			7-14-06 830	ug	
7036-01	EXP			11:15 7/14/06	MA	
7038-01-07,09-11 7032-01,02	BNA			11:20 7/14/06	MA	

ELAB

Fraction: EPH / (PRO) / DRO   Matrix: Water / Soil   Logbook # EX051 Supervisor________

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot MeCl2	Vendor ~~Hexane~~ CS2	Na2SO4 Lot Used	~~Cartridge~~ Silica	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
1	Chz.	7022-01	07100681	wg		25.	2ml	W5410 2ml	wg	NA	NA					061380	45020805	060941	R1006				#1 are waters	1
2	↓	02	FSI	↓		26	↓	↓	↓	NA	NA					↓	↓	↓	↓				#2 ↓	2
3		03	840			25.3				NA	NA	A8			wg								very Rockie All	3
4		04				25.1				NA	NA	—			↓								Samples	4
5		05				25.1				NA	NA	S9												5
6		06				25.4				NA	NA	—												6
7		07				25.0				NA	NA	—												7
8		08				25.1				NA	NA	YOT												8
9		09				25.2				NA	NA	—												9
10		10				25.2				NA	NA	—												10
11	↓	11	↓	↓		25.1	↓	↓	↓	NA	NA	—			↓	↓	↓	↓	↓					11
12	[redacted]	7014-01	1245			25.2				NA	NA	—												12
13		02				25.7				NA	NA	KOT												13
14	↓	↓ 03	↓	↓		25.6	↓	↓	↓	NA	NA	BD			↓	↓	↓	↓	↓					14
15										NA	NA													15
16										NA	NA													16
17										NA	NA													17
18										NA	NA													18
19										NA	NA													19
20										NA	NA													20
	MBlank	1-14	SAS	SAS		—	2ml	SAS	SAS			S1			wg	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCS	↓	SAS	SAS		—		SAS	SAS	W5450		—				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MS	7022-3	SAS	SAS		25.2		SAS	SAS			—				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MSD	↓	SAS	SAS		25.0	↓	SAS	SAS	↓		—			↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

Note: All volumes are in milliliters and weights are in grams.

Empirical Laboratories

Fraction: EPH / PRO / DRO Matrix: Water / Soil

Logbook # EX050 Supervisor

Batch #	#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments
	1	[redacted]	62304-02	062306EXFW1	MH	6	1000	2ml	1ml 5477 1ml 5478 2ml 5446	MH	NA	NA	—	10PH		MH	[redacted] 061380							10:30
	2	CHemtech	7622-01	071006EXW1	MH	6	1000	2ml	1ml 5477 1ml 5478 2ml 5446	MH	NA	NA	—			MH	[redacted] 061380							8:00
	3	↓	↓ -02	↓	↓	↓	1000	↓	↓	↓	NA	NA	—			↓	↓							
	4										NA	NA												
	5										NA	NA												
	6										NA	NA												
	7										NA	NA												
	8										NA	NA												
	9										NA	NA												
	10										NA	NA												
	11										NA	NA												
	12										NA	NA												
	13										NA	NA												
	14										NA	NA												
	15										NA	NA												
	16										NA	NA												
	17										NA	NA												
	18										NA	NA												
	19										NA	NA												
	20										NA	NA												
		m.Blank	62304-02	SAS	SAS		1000	2ml	SAS	SAS		mH	—			MH	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
		LCS	↓	SAS	SAS		1000	↓	SAS	SAS	1ml 5460	↓	—				SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
		m.Blank	2-3	SAS	SAS		1000	2ml	SAS	SAS		mH	÷			MH	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
		LCS	↓	SAS	SAS		1000	↓	SAS	SAS	1ml 5460	↓	380			↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
				SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	

Note: All volumes are in milliliters and weights are in grams.

001396

GC TCDP10 | FIDR | 071306 | FLPRO

Page 126
Barbara Dawson
071406

```
NAME SeqFileMacro
DELSEQUENCE
VERSION 3
SETPARAMS "amb", "", 0, 0, 1
SETDATAPATH "071306"
SETMETHODPATH
SETPRESEQ ""
SETPOSTSEQ ""
SETCOMMENT
SETNAMEMODE 1
SETSIG1FLEX "SIG1", "0001"
SETSIG2FLEX "SIG2", "0001"
SETSEQLINE 1,1,"",-1,-1,-1,-1
SETSEQLINE 2,1,"FLPROR",1,1,2,-1
SETSEQLINE 2,2,"FLPROR",2,45,1,-1
DELSAMPLE 1,100
SETSAMPLE 1,"MeCl2",,,
SETSAMPLE 2,"FLPRO 8500ppm",,,
SETINFO 2
SETINFO 2,";;;;;;\"
SETSAMPLE 3,"FLPRO 5950ppm",,,
SETINFO 3
SETINFO 3,";;;;;;\"
SETSAMPLE 4,"FLPRO 4250ppm",,,
SETINFO 4
SETINFO 4,";;;;;;\"
SETSAMPLE 5,"FLPRO 2550ppm",,,
SETINFO 5
SETINFO 5,";;;;;;\"
SETSAMPLE 6,"FLPRO 850ppm",,,
SETINFO 6
SETINFO 6,";;;;;;\"
SETSAMPLE 7,"FLPRO 85ppm",,,
SETINFO 7
SETINFO 7,";;;;;;\"
SETSAMPLE 8,"FLPRO ICV 4000",,,
SETINFO 8
SETINFO 8,";;;;;;range.sub\"
SETSAMPLE 9,"FLPRO 4250ppm",,,
SETINFO 9
SETINFO 9,";;;;;;\"
SETSAMPLE 10,"FW1BLK0710",,,
SETINFO 10
SETINFO 10,"ch2.f07022;1000;2;071006FW1;mg/L;;\"
SETSAMPLE 11,"FW1BLK0710LCS",,
SETINFO 11
SETINFO 11,"ch2.f07022;1000;2;071006FW1;mg/L;;\"
SETSAMPLE 12,"0607022-01",,,
SETINFO 12
SETINFO 12,"ch2.f07022;1000;2;071006FW1;mg/L;;\"
SETSAMPLE 13,"0607022-02",,,
SETINFO 13
SETINFO 13,"ch2.f07022;1000;2;071006FW1;mg/L;;\"
SETSAMPLE 14,"FS1BLK0710",,,
SETINFO 14
SETINFO 14,"ch2.f07022;25.0;2;071006FS1;mg/Kg;;\"
SETSAMPLE 15,"FS1BLK0710LCS",,
```

ID 5633F

E
D
C
B
A

ID# 5634 NJ TRPH

ID # 5638D

1000 → 2 ×1

7014-1-3; 7022-3-11

GC TCDFID/FIDR1/071306/FLPRO

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071406

```
SETINFO 15
SETINFO 15,"ch2.f07022;25.0;2;071006FS1;mg/Kg;;\"
SETSAMPLE 16,"0607022-04",,,
SETINFO 16
SETINFO 16,"ch2.f07022;25.1;2;071006FS1;mg/Kg;;\"
SETSAMPLE 17,"0607022-08",,,
SETINFO 17
SETINFO 17,"ch2.f07022;25.1;2;071006FS1;mg/Kg;;\"
SETSAMPLE 18,"0607022-10",,,
SETINFO 18
SETINFO 18,"ch2.f07022;25.2;2;071006FS1;mg/Kg;;\"
SETSAMPLE 19,"0607022-11",,,
SETINFO 19
SETINFO 19,"ch2.f07022;25.1;2;071006FS1;mg/Kg;;\"
SETSAMPLE 20,"FLPRO 4250ppm",,,
SETINFO 20
SETINFO 20,";;;;;;\"
SETSAMPLE 21,"0607022-03",,,
SETINFO 21
SETINFO 21,"ch2.f07022;25.3;2;071006FS1;mg/Kg;;\"
SETSAMPLE 22,"0607022-03;MSx2",,,
SETINFO 22
SETINFO 22,"ch2.f07022;25.2;2;071006FS1;mg/Kg;;\"
SETSAMPLE 23,"0607022-03;MSD",,,
SETINFO 23
SETINFO 23,"ch2.f07022;25.0;2;071006FS1;mg/Kg;;\"
SETSAMPLE 24,"0607022-05;x5",,,
SETINFO 24
SETINFO 24,"ch2.f07022;25.1;2;071006FS1;mg/Kg;;\"
SETSAMPLE 25,"0607022-06;x10",,,
SETINFO 25
SETINFO 25,"ch2.f07022;25.4;2;071006FS1;mg/Kg;;\"
SETSAMPLE 26,"0607022-07;x20",,,
SETINFO 26
SETINFO 26,"ch2.f07022;25.0;2;071006FS1;mg/Kg;;\"
SETSAMPLE 27,"0607022-09;x10",,,
SETINFO 27
SETINFO 27,"ch2.f07022;25.2;2;071006FS1;mg/Kg;;\"
SETSAMPLE 28,"FLPRO 4250ppm",,,
SETINFO 28
SETINFO 28,";;;;;;\"
SETSAMPLE 29,"0607014-01",,,
SETINFO 29
SETINFO 29,"sha.f07014;25.2;2;071006FS1;mg/Kg;;\"
SETSAMPLE 30,"0607014-02",,,
SETINFO 30
SETINFO 30,"sha.f07014;25.7;2;071006FS1;mg/Kg;;\"
SETSAMPLE 31,"0607014-03",,,
SETINFO 31
SETINFO 31,"sha.f07014;25.6;2;071006FS1;mg/Kg;;\"
SETSAMPLE 32,"FW1BLK0630",,,
SETINFO 32
SETINFO 32,"sha.f06384;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 33,"FW1BLK0630LCS",,,
SETINFO 33
SETINFO 33,"sha.f06384;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 34,"0606384-02",,,
```

ID#5633D

ID# 5633D

6384-02; MDL Study H_2O

x 1

x 1

x 1

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071406

```
SETINFO 34
SETINFO 34,"sha.f06384;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 35,"MDLck 20uL #1",,,                    x 1
SETINFO 35
SETINFO 35,"MDLck.f01;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 36,"MDLck 20uL #2",,,
SETINFO 36
SETINFO 36,"MDLck.f01;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 37,"MDLck 40uL #1",,,
SETINFO 37
SETINFO 37,"MDLck.f01;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 38,"MDLck 40uL #2",,,
SETINFO 38
SETINFO 38,"MDLck.f01;1000;2;063006FW1;mg/L;;\"
SETSAMPLE 39,"FLPRO 4250ppm",,, I.D.# 5633-D
SETINFO 39
SETINFO 39,";;;;;;\"
SETSAMPLE 40,"FS1BLK0630",,, MDL's (soil)          x 1
SETINFO 40
SETINFO 40,"MDLck.f01;25.0;2;063006FS1;mg/Kg;;\"
SETSAMPLE 41,"MDLck 40uL #1",,,
SETINFO 41
SETINFO 41,"MDLck.f01;25.0;2;063006FS1;mg/Kg;;\"
SETSAMPLE 42,"MDLck 40uL #2",,,
SETINFO 42
SETINFO 42,"MDLck.f01;25.0;2;063006FS1;mg/Kg;;\"
SETSAMPLE 43,"MDLck 20uL #1",,,
SETINFO 43
SETINFO 43,"MDLck.f01;25.0;2;063006FS1;mg/Kg;;\"
SETSAMPLE 44,"MDLck 20uL #2",,,
SETINFO 44
SETINFO 44,"MDLck.f01;25.0;2;063006FS1;mg/Kg;;\"
SETSAMPLE 45,"FLPRO 4250ppm",,, I.D.#5633-D
SETINFO 45
SETINFO 45,";;;;;;\"
RETURN
```

Empirical Laboratories

%SOLIDS

Empirical Laboratories

Client(s): [redacted] ch2mhill [redacted]

Date on: 7/10/06
Time on: 9:53

Date off: 7/11/06
Time off: 7:45

Analyst: bt
Method #: 2540
Method Type: Gravimetric

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	7014-01		[redacted]	1.2522	5.8530	6.5126	89.9			
2	Sample	7014-02		[redacted]	1.2457	5.8907	6.4488	88.3			
3	Sample	7014-03		[redacted]	1.2437	5.6414	5.9802	84.0			
4	Sample	7022-03		ch2mhill	1.2543	6.4122	7.5395	98.0			
5	Sample	7022-04		ch2mhill	1.2402	5.8313	6.8964	97.0			
6	Sample	7022-05		ch2mhill	1.2498	6.0433	7.0449	95.9			
7	Sample	7022-06		ch2mhill	1.2451	6.0704	7.0306	95.3			
8	Sample	7022-07		ch2mhill	1.2475	5.8908	6.9975	97.6			
9	Sample	7022-09		ch2mhill	1.2461	6.0704	7.1696	97.6			
10	Sample	7022-08		ch2mhill	1.2446	5.9682	6.9315	95.3			
11	Sample	7022-10		ch2mhill	1.2479	6.3420	7.0701	91.8			
12	Sample	7022-11		ch2mhill	1.2594	6.2281	7.4048	98.7			
13	Sample	7023-01		ch2mhill	1.2420	5.6888	6.6957	95.9			
14	Sample	6399-01		[redacted]	1.2439	5.8096	2.5366	22.3			
15	Sample	6399-02		[redacted]	1.2468	6.1788	2.5491	21.1			
16	Sample										
17	Sample										
18	Sample										
19	Sample										
20	Sample										
21	Duplicate	7023-01		[redacted]	1.2459	5.6963	6.6917	95.6	0.3	+/-20%	

000140

071006.xls

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607031

Lab Sample ID	Client Sample ID	Dilution
0607031-01	51CFM1BS060711	1
0607031-02	51CFM2BS060711	1
0607031-03	51CFM3BS060711	50
0607031-04	51CFM4BS060711	1
0607031-05	51CFM5BS060711	1
0607031-06	51CFM6BS060711	1
0607031-07	51CFM7BS060711	50
0607031-08	51CFM8BS060711	1
0607031-09	51DUP2S060711	1
0607031-10	51BLK1W060711	50

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5035/8260B (Terracore field sampling then purge and trap followed by capillary column GC/MS) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: One set of terracore samplers was provided for trip blank analysis (51BLK1W060711). Of the vials provided, only the methanol vial remained unbroken at receipt.
- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met.
- Blank Results: Methylene chloride was detected in trip blank TB34031406. It was not detected in the associated samples.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Laboratory control sample results: All recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above. Samples indicating a 50x were analyzed from the methanol extract.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (1 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51CFM1BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:20	C	3 Day	4					Grab		
2	51CFM2BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:30	C	3 Day	4					Grab		
3	51CFM3BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:35	C	3 Day	4					Grab		
4	51CFM4BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:42	C	3 Day	4					Grab		
5	51CFM5BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:50	C	3 Day	4					Grab		
6	51CFM6BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:56	C	3 Day	4					Grab		
7	51CFM7BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:05	C	3 Day	4					Grab		
8	51CFM8BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:12	C	3 Day	4					Grab		
9	51MS2S060711	Matrix Spike Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		
10	51MSD2S060711	Matrix Spike Duplicate Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		--

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7921 4868 1225	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature: Andy Barton	7-12-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

2.4

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C, TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
11	51DUP2S060711	Duplicate Sample	S	07/11/06	--	C	3 Day	4				Grab		
12	51BLK1W060711 *	Trip Blank	W	--	--			3					Prepared by lab	
13	51BLK2W060711 *	Temp Blank	W	--	--			1					Prepared by lab	

COURIER AND SHIPPING NUMBER: **FedEx Tracking Numbers:7921 4868 1225**

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			Andy Bart. Andy Bart	7-12-06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

* Reagent water vials received broken. MW 7/12/06

2.4

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607031 COC ID(s): 346570-002

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Barton Today's Date 7-12-06

Date/Time Samples Received 7-12 @ 900
Airbill Number FX
Cooler Opened: Date 7-12

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-11

Type of coolant used FCE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 2.4

Condition of Bottles in Shipment: (Broken) Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

TB vials broken

Comments:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM1BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-01

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703101A

Level: (low/med) LOW Date Sampled: 07/11/06 12:20

% Moisture: not dec. 8 Date Analyzed: 07/12/06 15:35

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene (total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM2BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 0703102A

Level: (low/med) LOW Date Sampled: 07/11/06 12:30

% Moisture: not dec. 10 Date Analyzed: 07/12/06 16:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.66	7.0		U
100-41-4	Ethylbenzene	1.0	7.0		U
108-88-3	Toluene	1.2	7.0		U
1330-20-7	Xylene (total)	0.98	7.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM3BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-03

Sample wt/vol: 5.5 (g/mL) G Lab File ID: M0703103

Level: (low/med) MED Date Sampled: 07/11/06 12:35

% Moisture: not dec. 5 Date Analyzed: 07/12/06 18:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	22	240		U
100-41-4	Ethylbenzene	36	240	530	
108-88-3	Toluene	41	240		U
1330-20-7	Xylene(total)	33	240	4600	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM4BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-04

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0703104A

Level: (low/med) LOW Date Sampled: 07/11/06 12:42

% Moisture: not dec. 6 Date Analyzed: 07/13/06 10:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.44	4.6		U
100-41-4	Ethylbenzene	0.70	4.6		U
108-88-3	Toluene	0.80	4.6		U
1330-20-7	Xylene(total)	0.65	4.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM5BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0703105A

Level: (low/med) LOW Date Sampled: 07/11/06 12:50

% Moisture: not dec. 10 Date Analyzed: 07/13/06 11:07

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.76	5.0		U
108-88-3	Toluene	0.87	5.0		U
1330-20-7	Xylene (total)	0.71	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM6BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-06

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0703106A

Level: (low/med) LOW Date Sampled: 07/11/06 12:56

% Moisture: not dec. 9 Date Analyzed: 07/12/06 16:45

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.52	5.6		U
100-41-4	Ethylbenzene	0.83	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM7BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: M0703107

Level: (low/med) MED Date Sampled: 07/11/06 13:05

% Moisture: not dec. 7 Date Analyzed: 07/13/06 09:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	270		U
100-41-4	Ethylbenzene	41	270	150	J
108-88-3	Toluene	47	270		U
1330-20-7	Xylene (total)	38	270	1500	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM8BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-08

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0703108A

Level: (low/med) LOW Date Sampled: 07/11/06 13:12

% Moisture: not dec. 5 Date Analyzed: 07/12/06 17:21

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.48	5.2		U
100-41-4	Ethylbenzene	0.77	5.2		U
108-88-3	Toluene	0.89	5.2		U
1330-20-7	Xylene (total)	0.72	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP2S060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-09

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703109A

Level: (low/med) LOW Date Sampled: 07/11/06 :

% Moisture: not dec. 8 Date Analyzed: 07/12/06 17:56

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51BLK1W060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M0703110

Level: (low/med) MED Date Sampled: 07/11/06 :

% Moisture: not dec. 0 Date Analyzed: 07/12/06 14:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PBLK0712LC	94	98	104	97	0
02	V1PBLK0712	97	100	111	99	0
03	51CFM1BS0607	101	100	109	101	0
04	51CFM2BS0607	96	103	105	100	0
05	51CFM6BS0607	98	101	108	101	0
06	51CFM8BS0607	106	103	105	107	0
07	51DUP2S06071	100	105	109	101	0
08	V1PBLK0713LC	96	108	102	96	0
09	V1PBLK0713	94	104	111	96	0
10	51CFM4BS0607	100	102	106	98	0
11	51CFM5BS0607	100	98	107	99	0
12	51CFM1BS0607	90	101	102	97	0
13	51CFM1BS0607	95	92	104	94	0
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		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Level: (low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PMBLK0712	96	96	106	99	0
02	51BLK1W06071	96	98	109	102	0
03	51CFM3BS0607	98	96	106	99	0
04	51CFM7BS0607	98	98	108	98	0
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		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	1500
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	1500
SMC3 (TOL)	= Toluene-d8	(80-120)	1500
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	1500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: 51CFM1BS060711 Lab Sample ID: 0607031-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	54.06	0.0000	54.08	100	70-130
Ethylbenzene	54.06	0.0000	53.10	98	75-125
Toluene	54.06	0.0000	53.78	99	55-140
Xylene(total)	162.2	0.0000	149.2	92	70-120

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	51.59	50.88	99	6	50	70-130
Ethylbenzene	51.59	50.76	98	4	50	75-125
Toluene	51.59	51.72	100	4	50	55-140
Xylene(total)	154.8	137.4	89	8	50	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: V1PBLK0712 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	53.17	106	70-130
Ethylbenzene	50.00	0.0000	51.83	104	75-125
Toluene	50.00	0.0000	52.87	106	55-140
Xylene(total)	150.0	0.0000	141.5	94	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: V1PBLK0713 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	58.12	116	70-130
Ethylbenzene	50.00	0.0000	57.37	115	75-125
Toluene	50.00	0.0000	58.42	117	55-140
Xylene(total)	150.0	0.0000	155.5	104	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0712

Date Analyzed: 07/12/06 Time Analyzed: 1349

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51BLK1W06071	0607031-10	M0703110	1459
02	51CFM1BS0607	0607031-01	0703101A	1535
03	51CFM2BS0607	0607031-02	0703102A	1610
04	51CFM6BS0607	0607031-06	0703106A	1645
05	51CFM8BS0607	0607031-08	0703108A	1721
06	51DUP2S06071	0607031-09	0703109A	1756
07	51CFM3BS0607	0607031-03	M0703103	1831
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/12/06 13:49

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene (total)	0.70	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0713

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0713

Date Analyzed: 07/13/06 Time Analyzed: 0812

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0713LC	V1PBLK0713LCS	V1LCS01	0702
02	51CFM7BS0607	0607031-07	M0703107	0957
03	51CFM4BS0607	0607031-04	0703104A	1032
04	51CFM5BS0607	0607031-05	0703105A	1107
05	51CFM1BS0607	0607031-01	703101BM	1345
06	51CFM1BS0607	0607031-01	703101BS	1421
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0713

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0713

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/13/06 08:12

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PMBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1MBLK01 Lab Sample ID: V1PMBLK0712

Date Analyzed: 07/12/06 Time Analyzed: 1424

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51BLK1W06071	0607031-10	M0703110	1459
02	51CFM3BS0607	0607031-03	M0703103	1831
03	51CFM7BS0607	0607031-07	M0703107	0957
04				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PMBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PMBLK0712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1MBLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/12/06 14:24

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Lab File ID: V1BFB01 BFB Injection Date: 06/09/06

Instrument ID: VOA1 BFB Injection Time: 1050

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	54.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	60.4
175	5.0 - 9.0% of mass 174	4.5 (7.4)1
176	95.0 - 101.0% of mass 174	59.1 (97.9)1
177	5.0 - 9.0% of mass 176	4.0 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD200PPB	V1STD200PPB	V1STD07	06/09/06	1148
02	V1STD100PPB	V1STD100PPB	V1STD06	06/09/06	1224
03	V1STD50PPB	V1STD50PPB	V1STD05	06/09/06	1300
04	V1STD20PPB	V1STD20PPB	V1STD04	06/09/06	1337
05	V1STD10PPB	V1STD10PPB	V1STD03	06/09/06	1413
06	V1STD5.0PPB	V1STD5.0PPB	V1STD02	06/09/06	1450
07	V1STD2.0PPB	V1STD2.0PPB	V1STD01	06/09/06	1527
08	V1BLK0609ICV	V1BLK0609ICV	V1LCS01ICV	06/09/06	1603
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BFB01 BFB Injection Date: 07/12/06

Instrument ID: VOA1 BFB Injection Time: 1102

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.6
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	52.3
175	5.0 - 9.0% of mass 174	3.8 (7.2)1
176	95.0 - 101.0% of mass 174	50.1 (95.8)1
177	5.0 - 9.0% of mass 176	3.7 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/12/06	1138
02	V1PBLK0712LC	V1PBLK0712LCS	V1LCS01	07/12/06	1213
03	V1PBLK0712	V1PBLK0712	V1BLK01	07/12/06	1349
04	V1PMBLK0712	V1PMBLK0712	V1MBLK01	07/12/06	1424
05	51BLK1W06071	0607031-10	M0703110	07/12/06	1459
06	51CFM1BS0607	0607031-01	0703101A	07/12/06	1535
07	51CFM2BS0607	0607031-02	0703102A	07/12/06	1610
08	51CFM6BS0607	0607031-06	0703106A	07/12/06	1645
09	51CFM8BS0607	0607031-08	0703108A	07/12/06	1721
10	51DUP2S06071	0607031-09	0703109A	07/12/06	1756
11	51CFM3BS0607	0607031-03	M0703103	07/12/06	1831
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BFB01 BFB Injection Date: 07/13/06

Instrument ID: VOA1 BFB Injection Time: 0552

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.6
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.5
175	5.0 - 9.0% of mass 174	4.0 (6.9)1
176	95.0 - 101.0% of mass 174	56.1 (96.0)1
177	5.0 - 9.0% of mass 176	3.9 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/13/06	0627
02	V1PBLK0713LC	V1PBLK0713LCS	V1LCS01	07/13/06	0702
03	V1PBLK0713	V1PBLK0713	V1BLK01	07/13/06	0812
04	51CFM7BS0607	0607031-07	M0703107	07/13/06	0957
05	51CFM4BS0607	0607031-04	0703104A	07/13/06	1032
06	51CFM5BS0607	0607031-05	0703105A	07/13/06	1107
07	51CFM1BS0607	0607031-01	703101BM	07/13/06	1345
08	51CFM1BS0607	0607031-01	703101BS	07/13/06	1421
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/12/06

Instrument ID: VOA1 Time Analyzed: 1138

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 (FLB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	601940	14.83	306980	19.72	207274	23.43
	UPPER LIMIT	1203880	15.33	613960	20.22	414548	23.93
	LOWER LIMIT	300970	14.33	153490	19.22	103637	22.93
	CLIENT SAMPLE NO.						
01	V1PBLK0712LC	598702	14.83	312644	19.72	207315	23.43
02	V1PBLK0712	574498	14.83	274779	19.72	193449	23.42
03	V1PMBLK0712	525071	14.82	259532	19.72	182041	23.43
04	51BLK1W06071	510166	14.82	244497	19.73	177671	23.43
05	51CFM1BS0607	536702	14.83	261101	19.72	187936	23.43
06	51CFM2BS0607	565453	14.84	275550	19.73	210489	23.43
07	51CFM6BS0607	573744	14.83	280087	19.74	200619	23.44
08	51CFM8BS0607	533688	14.83	261088	19.72	192699	23.43
09	51DUP2S06071	558940	14.83	268121	19.72	220492	23.43
10	51CFM3BS0607	535553	14.84	266362	19.73	208251	23.45
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/13/06

Instrument ID: VOA1 Time Analyzed: 0627

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	651493	14.83	331797	19.72	216856	23.43
	UPPER LIMIT	1302986	15.33	663594	20.22	433712	23.93
	LOWER LIMIT	325747	14.33	165899	19.22	108428	22.93
	CLIENT SAMPLE NO.						
01	V1PBLK0713LC	562419	14.83	290905	19.73	193919	23.42
02	V1PBLK0713	537011	14.81	260547	19.71	175886	23.42
03	51CFM7BS0607	472836	14.84	234031	19.74	163550	23.45
04	51CFM4BS0607	551604	14.83	276779	19.72	218454	23.43
05	51CFM5BS0607	525806	14.83	258001	19.72	188065	23.42
06	51CFM1BS0607	563381	14.84	290598	19.73	197344	23.43
07	51CFM1BS0607	576067	14.83	291180	19.72	201899	23.44
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

ANALYTICAL REPORT

MAIN DATA PACKAGE - ORGANICS

VOLATILES SECTION

CH2M Hill, Inc.

WO #0607031

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607031

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607031

Lab Sample ID	Client Sample ID	Dilution
0607031-01	51CFM1BS060711	1
0607031-02	51CFM2BS060711	1
0607031-03	51CFM3BS060711	50
0607031-04	51CFM4BS060711	1
0607031-05	51CFM5BS060711	1
0607031-06	51CFM6BS060711	1
0607031-07	51CFM7BS060711	50
0607031-08	51CFM8BS060711	1
0607031-09	51DUP2S060711	1
0607031-10	51BLK1W060711	50

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5035/8260B (Terracore field sampling then purge and trap followed by capillary column GC/MS) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: One set of terracore samplers was provided for trip blank analysis (51BLK1W060711). Of the vials provided, only the methanol vial remained unbroken at receipt.
- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met.
- Blank Results: Methylene chloride was detected in trip blank TB34031406. It was not detected in the associated samples.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Laboratory control sample results: All recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above. Samples indicating a 50x were analyzed from the methanol extract.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (1 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51CFM1BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:20	C	3 Day	4					Grab		
2	51CFM2BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:30	C	3 Day	4					Grab		
3	51CFM3BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:35	C	3 Day	4					Grab		
4	51CFM4BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:42	C	3 Day	4					Grab		
5	51CFM5BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:50	C	3 Day	4					Grab		
6	51CFM6BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	12:56	C	3 Day	4					Grab		
7	51CFM7BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:05	C	3 Day	4					Grab		
8	51CFM8BS060711	Post-Excavation Confirmatory Sampling	S	07/11/06	13:12	C	3 Day	4					Grab		
9	51MS2S060711	Matrix Spike Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		
10	51MSD2S060711	Matrix Spike Duplicate Sample (51CFM1BS060711)	S	07/11/06	12:20	C	3 Day	4					Grab		--

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7921 4868 1225	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature: Andy Barton	7-12-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-002 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
11	51DUP2S060711	Duplicate Sample	S	07/11/06	--	C	3 Day	4				Grab		
12	51BLK1W060711 *	Trip Blank	W	--	--			3					Prepared by lab	
13	51BLK2W060711 *	Temp Blank	W	--	--			1					Prepared by lab	

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers:7921 4868 1225

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/11/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers:7921 4868 1225	7/11/2006	18:00
Printed Name and Signature:			Printed Name and Signature: Andy Bast.	7-12-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

* Reagent water vials received broken. 7/12/06

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000004

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607031 COC ID(s): 346570-002

Client CH2M Hill Project NAVSTA Support

Sample Custodian Andy Barton Today's Date 7-12-06

Date/Time Samples Received 7-12 @ 900
Airbill Number FX
Cooler Opened: Date 7-12

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-11

Type of coolant used FCE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 2.4

Condition of Bottles in Shipment: (Broken) Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

TB vials broken

Comments:

Empirical Laboratories

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PBLK0712LC	94	98	104	97	0
02	V1PBLK0712	97	100	111	99	0
03	51CFM1BS0607	101	100	109	101	0
04	51CFM2BS0607	96	103	105	100	0
05	51CFM6BS0607	98	101	108	101	0
06	51CFM8BS0607	106	103	105	107	0
07	51DUP2S06071	100	105	109	101	0
08	V1PBLK0713LC	96	108	102	96	0
09	V1PBLK0713	94	104	111	96	0
10	51CFM4BS0607	100	102	106	98	0
11	51CFM5BS0607	100	98	107	99	0
12	51CFM1BS0607	90	101	102	97	0
13	51CFM1BS0607	95	92	104	94	0
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		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Level: (low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PMBLK0712	96	96	106	99	0
02	51BLK1W06071	96	98	109	102	0
03	51CFM3BS0607	98	96	106	99	0
04	51CFM7BS0607	98	98	108	98	0
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		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	1500
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	1500
SMC3 (TOL)	= Toluene-d8	(80-120)	1500
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	1500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: 51CFM1BS060711 Lab Sample ID: 0607031-01

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	54.06	0.0000	54.08	100	70-130
Ethylbenzene	54.06	0.0000	53.10	98	75-125
Toluene	54.06	0.0000	53.78	99	55-140
Xylene(total)	162.2	0.0000	149.2	92	70-120

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	51.59	50.88	99	6	50	70-130
Ethylbenzene	51.59	50.76	98	4	50	75-125
Toluene	51.59	51.72	100	4	50	55-140
Xylene(total)	154.8	137.4	89	8	50	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: V1PBLK0712 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	53.17	106	70-130
Ethylbenzene	50.00	0.0000	51.83	104	75-125
Toluene	50.00	0.0000	52.87	106	55-140
Xylene(total)	150.0	0.0000	141.5	94	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix Spike - Client Sample No.: V1PBLK0713 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	58.12	116	70-130
Ethylbenzene	50.00	0.0000	57.37	115	75-125
Toluene	50.00	0.0000	58.42	117	55-140
Xylene(total)	150.0	0.0000	155.5	104	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0712

Date Analyzed: 07/12/06 Time Analyzed: 1349

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51BLK1W06071	0607031-10	M0703110	1459
02	51CFM1BS0607	0607031-01	0703101A	1535
03	51CFM2BS0607	0607031-02	0703102A	1610
04	51CFM6BS0607	0607031-06	0703106A	1645
05	51CFM8BS0607	0607031-08	0703108A	1721
06	51DUP2S06071	0607031-09	0703109A	1756
07	51CFM3BS0607	0607031-03	M0703103	1831
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0713

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0713

Date Analyzed: 07/13/06 Time Analyzed: 0812

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0713LC	V1PBLK0713LCS	V1LCS01	0702
02	51CFM7BS0607	0607031-07	M0703107	0957
03	51CFM4BS0607	0607031-04	0703104A	1032
04	51CFM5BS0607	0607031-05	0703105A	1107
05	51CFM1BS0607	0607031-01	703101BM	1345
06	51CFM1BS0607	0607031-01	703101BS	1421
07				
08				
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PMBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1MBLK01 Lab Sample ID: V1PMBLK0712

Date Analyzed: 07/12/06 Time Analyzed: 1424

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51BLK1W06071	0607031-10	M0703110	1459
02	51CFM3BS0607	0607031-03	M0703103	1831
03	51CFM7BS0607	0607031-07	M0703107	0957
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Lab File ID: V1BFB01 BFB Injection Date: 06/09/06

Instrument ID: VOA1 BFB Injection Time: 1050

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	54.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	60.4
175	5.0 - 9.0% of mass 174	4.5 (7.4)1
176	95.0 - 101.0% of mass 174	59.1 (97.9)1
177	5.0 - 9.0% of mass 176	4.0 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD200PPB	V1STD200PPB	V1STD07	06/09/06	1148
02	V1STD100PPB	V1STD100PPB	V1STD06	06/09/06	1224
03	V1STD50PPB	V1STD50PPB	V1STD05	06/09/06	1300
04	V1STD20PPB	V1STD20PPB	V1STD04	06/09/06	1337
05	V1STD10PPB	V1STD10PPB	V1STD03	06/09/06	1413
06	V1STD5.0PPB	V1STD5.0PPB	V1STD02	06/09/06	1450
07	V1STD2.0PPB	V1STD2.0PPB	V1STD01	06/09/06	1527
08	V1BLK0609ICV	V1BLK0609ICV	V1LCS01ICV	06/09/06	1603
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BFB01 BFB Injection Date: 07/12/06

Instrument ID: VOA1 BFB Injection Time: 1102

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.6
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	52.3
175	5.0 - 9.0% of mass 174	3.8 (7.2)1
176	95.0 - 101.0% of mass 174	50.1 (95.8)1
177	5.0 - 9.0% of mass 176	3.7 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/12/06	1138
02	V1PBLK0712LC	V1PBLK0712LCS	V1LCS01	07/12/06	1213
03	V1PBLK0712	V1PBLK0712	V1BLK01	07/12/06	1349
04	V1PMBLK0712	V1PMBLK0712	V1MBLK01	07/12/06	1424
05	51BLK1W06071	0607031-10	M0703110	07/12/06	1459
06	51CFM1BS0607	0607031-01	0703101A	07/12/06	1535
07	51CFM2BS0607	0607031-02	0703102A	07/12/06	1610
08	51CFM6BS0607	0607031-06	0703106A	07/12/06	1645
09	51CFM8BS0607	0607031-08	0703108A	07/12/06	1721
10	51DUP2S06071	0607031-09	0703109A	07/12/06	1756
11	51CFM3BS0607	0607031-03	M0703103	07/12/06	1831
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID: V1BFB01 BFB Injection Date: 07/13/06

Instrument ID: VOA1 BFB Injection Time: 0552

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.6
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.5
175	5.0 - 9.0% of mass 174	4.0 (6.9)1
176	95.0 - 101.0% of mass 174	56.1 (96.0)1
177	5.0 - 9.0% of mass 176	3.9 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/13/06	0627
02	V1PBLK0713LC	V1PBLK0713LCS	V1LCS01	07/13/06	0702
03	V1PBLK0713	V1PBLK0713	V1BLK01	07/13/06	0812
04	51CFM7BS0607	0607031-07	M0703107	07/13/06	0957
05	51CFM4BS0607	0607031-04	0703104A	07/13/06	1032
06	51CFM5BS0607	0607031-05	0703105A	07/13/06	1107
07	51CFM1BS0607	0607031-01	703101BM	07/13/06	1345
08	51CFM1BS0607	0607031-01	703101BS	07/13/06	1421
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/12/06

Instrument ID: VOA1 Time Analyzed: 1138

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 (FLB) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	601940		14.83		306980		19.72		207274		23.43	
	UPPER LIMIT	1203880		15.33		613960		20.22		414548		23.93	
	LOWER LIMIT	300970		14.33		153490		19.22		103637		22.93	
	CLIENT SAMPLE NO.												
01	V1PBLK0712LC	598702		14.83		312644		19.72		207315		23.43	
02	V1PBLK0712	574498		14.83		274779		19.72		193449		23.42	
03	V1PMBLK0712	525071		14.82		259532		19.72		182041		23.43	
04	51BLK1W06071	510166		14.82		244497		19.73		177671		23.43	
05	51CFM1BS0607	536702		14.83		261101		19.72		187936		23.43	
06	51CFM2BS0607	565453		14.84		275550		19.73		210489		23.43	
07	51CFM6BS0607	573744		14.83		280087		19.74		200619		23.44	
08	51CFM8BS0607	533688		14.83		261088		19.72		192699		23.43	
09	51DUP2S06071	558940		14.83		268121		19.72		220492		23.43	
10	51CFM3BS0607	535553		14.84		266362		19.73		208251		23.45	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/13/06

Instrument ID: VOA1 Time Analyzed: 0627

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	651493		14.83		331797		19.72		216856		23.43	
	UPPER LIMIT	1302986		15.33		663594		20.22		433712		23.93	
	LOWER LIMIT	325747		14.33		165899		19.22		108428		22.93	
	CLIENT SAMPLE NO.												
01	V1PBLK0713LC	562419		14.83		290905		19.73		193919		23.42	
02	V1PBLK0713	537011		14.81		260547		19.71		175886		23.42	
03	51CFM7BS0607	472836		14.84		234031		19.74		163550		23.45	
04	51CFM4BS0607	551604		14.83		276779		19.72		218454		23.43	
05	51CFM5BS0607	525806		14.83		258001		19.72		188065		23.42	
06	51CFM1BS0607	563381		14.84		290598		19.73		197344		23.43	
07	51CFM1BS0607	576067		14.83		291180		19.72		201899		23.44	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM1BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-01

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703101A

Level: (low/med) LOW Date Sampled: 07/11/06 12:20

% Moisture: not dec. 8 Date Analyzed: 07/12/06 15:35

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703101A.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703101A.D
Lab Smp Id: 0607031-01 Client Smp ID: 51CFM1BS060711
Inj Date : 12-JUL-2006 15:35 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-01;;4.83;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.830	Weight of sample extracted (g)
Solids	92.300	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.834	14.825	(1.000)	536702	30.0000		
$ 44 Dibromofluoromethane	111	12.927	12.916	(0.871)	159809	30.2758	33.96	
$ 48 1,2-Dichloroethane-d4	102	13.616	13.620	(0.918)	39717	30.1468	33.81	
$ 73 Toluene-d8	98	17.563	17.558	(0.891)	497022	32.6001	36.56	
$ 95 Bromofluorobenzene	95	21.471	21.455	(1.089)	219161	30.2186	33.89	
* 82 Chlorobenzene-d5	82	19.721	19.719	(1.000)	261101	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.429	23.430	(1.000)	187936	30.0000		(Q)

QC Flag Legend

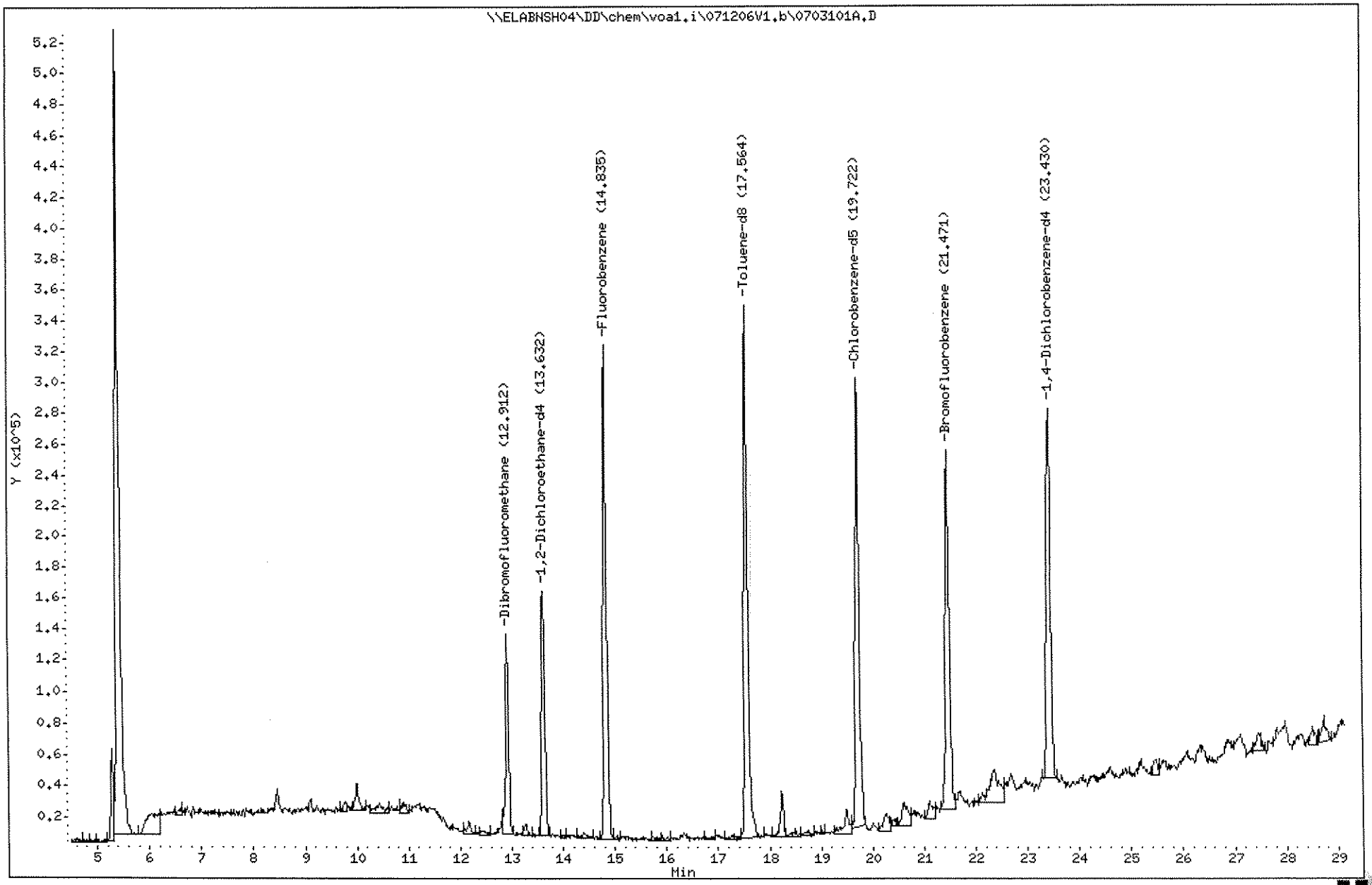
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703101A.D
Date : 12-JUL-2006 16:35
Client ID: 51CFM1BS060711
Sample Info: 0607031-01;;4.83;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



000021

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703102A.D
Report Date: 13-Jul-2006 17:09

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Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703102A.D
Lab Smp Id: 0607031-02 Client Smp ID: 51CFM2BS060711
Inj Date : 12-JUL-2006 16:10 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-02;;3.95;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	3.950	Weight of sample extracted (g)
Solids	90.500	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.837	14.825	(1.000)	565453	30.0000		
$ 44 Dibromofluoromethane	111	12.928	12.916	(0.871)	160754	28.9064	40.43	
$ 48 1,2-Dichloroethane-d4	102	13.633	13.620	(0.919)	42822	30.8510	43.15	(Q)
$ 73 Toluene-d8	98	17.569	17.558	(0.890)	507683	31.5533	44.13	
$ 95 Bromofluorobenzene	95	21.468	21.455	(1.088)	230809	30.1559	42.18	
* 82 Chlorobenzene-d5	82	19.730	19.719	(1.000)	275550	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.429	23.430	(1.000)	210489	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

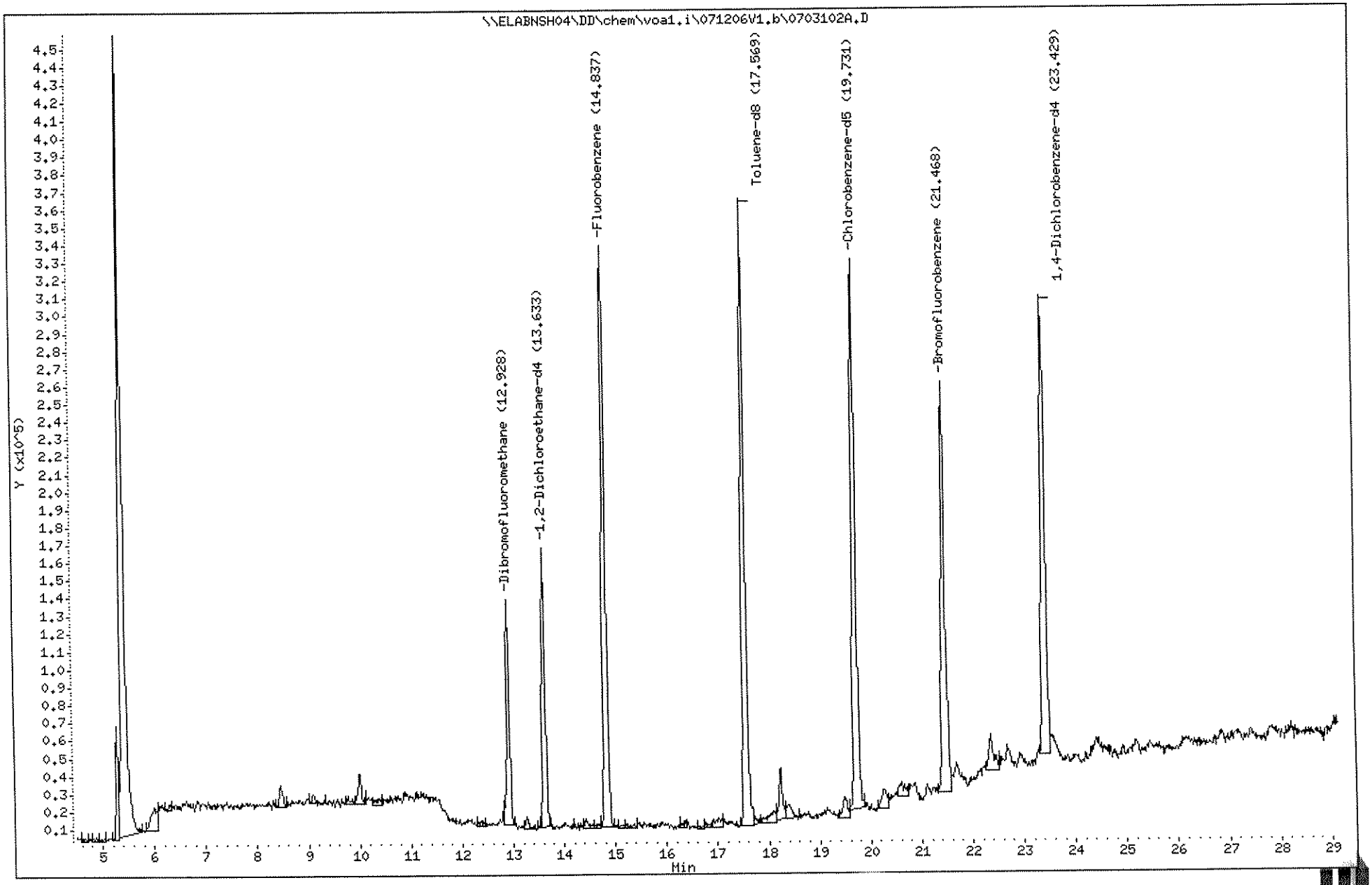
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703102A.D
Date : 12-JUL-2006 16:10
Client ID: 51CFM2BS060711
Sample Info: 0607031-02;;3.95;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000023



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM2BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 0703102A

Level: (low/med) LOW Date Sampled: 07/11/06 12:30

% Moisture: not dec. 10 Date Analyzed: 07/12/06 16:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	RL	CONC	UG/KG Q
71-43-2	Benzene	0.66	7.0		U
100-41-4	Ethylbenzene	1.0	7.0		U
108-88-3	Toluene	1.2	7.0		U
1330-20-7	Xylene(total)	0.98	7.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM3BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-03

Sample wt/vol: 5.5 (g/mL) G Lab File ID: M0703103

Level: (low/med) MED Date Sampled: 07/11/06 12:35

% Moisture: not dec. 5 Date Analyzed: 07/12/06 18:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	22	240		U
100-41-4	Ethylbenzene	36	240	530	
108-88-3	Toluene	41	240		U
1330-20-7	Xylene(total)	33	240	4600	

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D
Lab Smp Id: 0607031-03 Client Smp ID: 51CFM3BS060711
Inj Date : 12-JUL-2006 18:31 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-03;;5.52;;;50x
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.520	Weight of sample extracted (g)
Solids	95.500	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.838	14.825	(1.000)	535553	30.0000	
$ 44 Dibromofluoromethane	111	12.915	12.916	(0.870)	154197	29.2753	1388
$ 48 1,2-Dichloroethane-d4	102	13.619	13.620	(0.918)	37769	28.7297	1362
$ 73 Toluene-d8	98	17.570	17.558	(0.890)	494394	31.7873	1507
$ 95 Bromofluorobenzene	95	21.486	21.455	(1.089)	220540	29.8082	1414
* 82 Chlorobenzene-d5	82	19.732	19.719	(1.000)	266362	30.0000	(Q)
84 Ethylbenzene	91	20.027	19.998	(1.015)	404926	11.2473	533.4
85 m,p-Xylene	91	20.263	20.248	(1.027)	1768737	61.4672	2915
M 91 Xylene(total)	91				2897720	95.9380	4550
89 o-Xylene	91	20.882	20.852	(1.058)	1128983	37.3785	1773
* 106 1,4-Dichlorobenzene-d4	152	23.448	23.430	(1.000)	208251	30.0000	(Q)

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Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D
Report Date: 13-Jul-2006 17:10

QC Flag Legend

Q - Qualifier signal failed the ratio test.

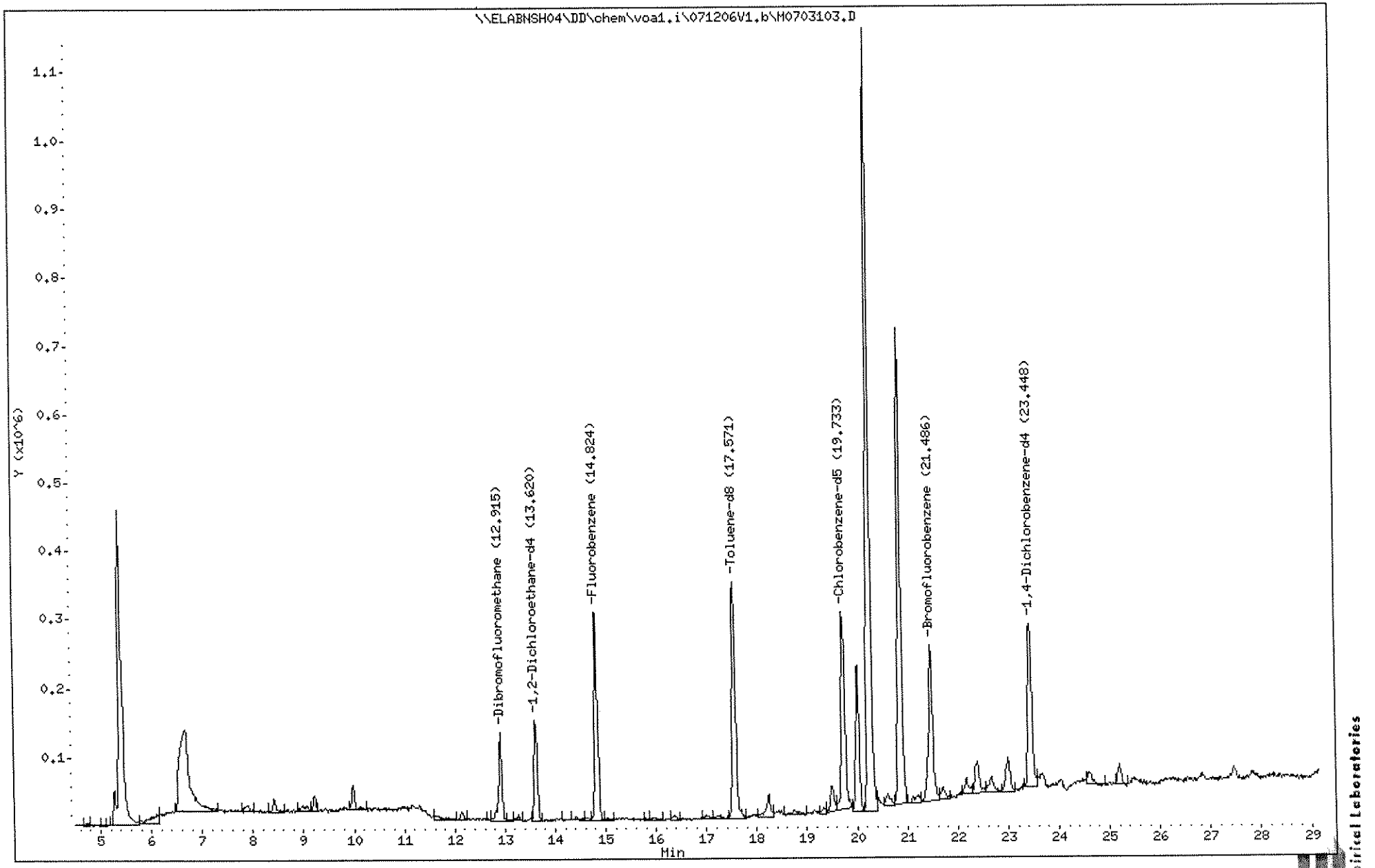
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D
Date : 12-JUL-2006 18:31
Client ID: 51CFM3BS060711
Sample Info: 0607031-03;;5.52;;;50x

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000028



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D

Date : 12-JUL-2006 18:31

Client ID: 51CFM3BS060711

Instrument: voa1.i

Sample Info: 0607031-03;;5.52;;;50x

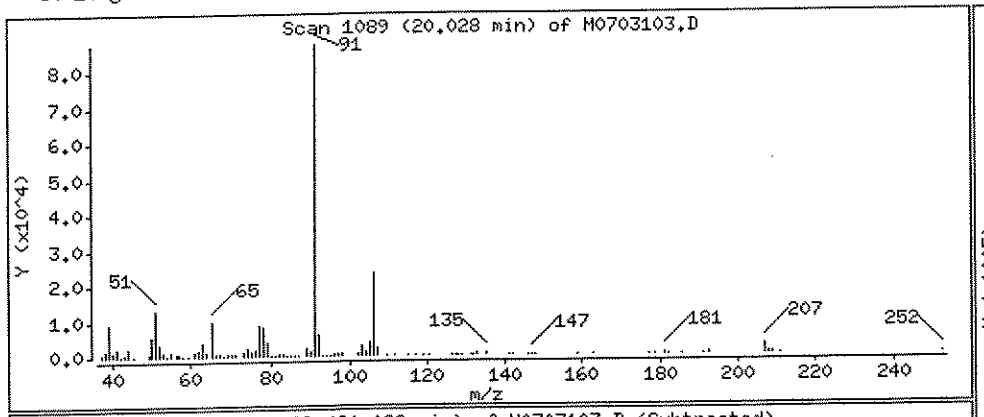
Operator: ADM

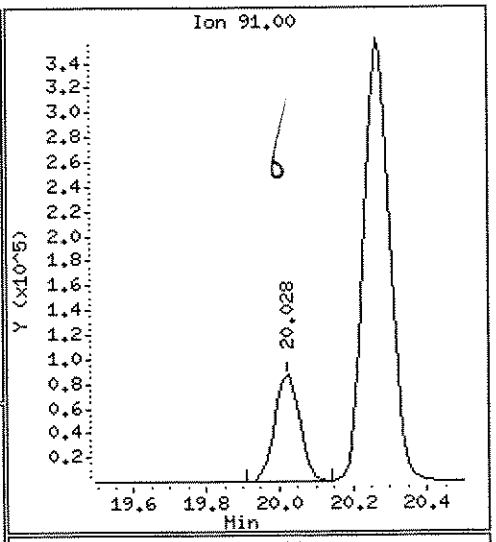
Column phase: DB-VRX

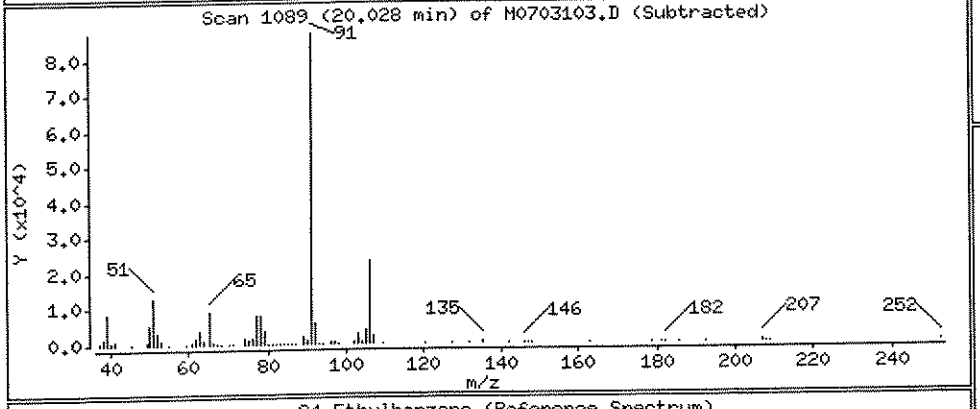
Column diameter: 0.25

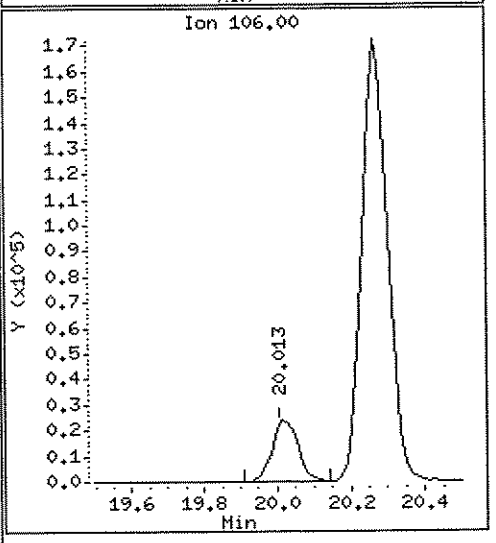
84 Ethylbenzene

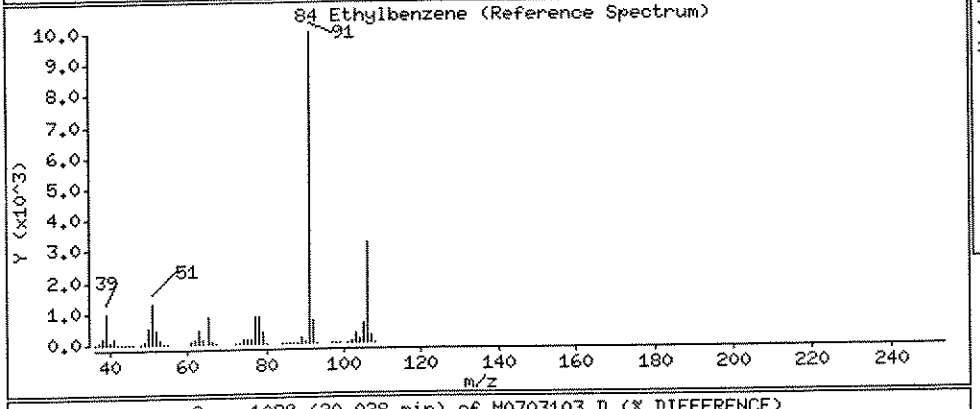
Concentration: 533.4 ug/Kg

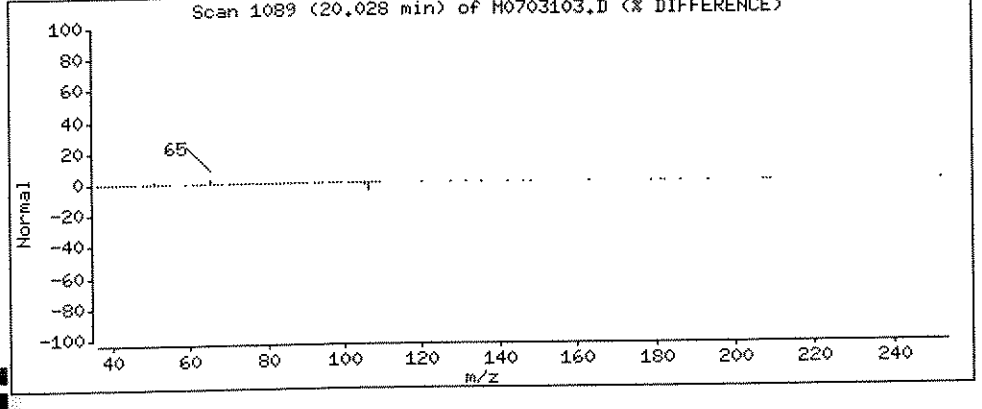












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D

Date : 12-JUL-2006 18:31

Client ID: 51CFM3BS060711

Instrument: voa1.i

Sample Info: 0607031-03;;5.52;;;50x

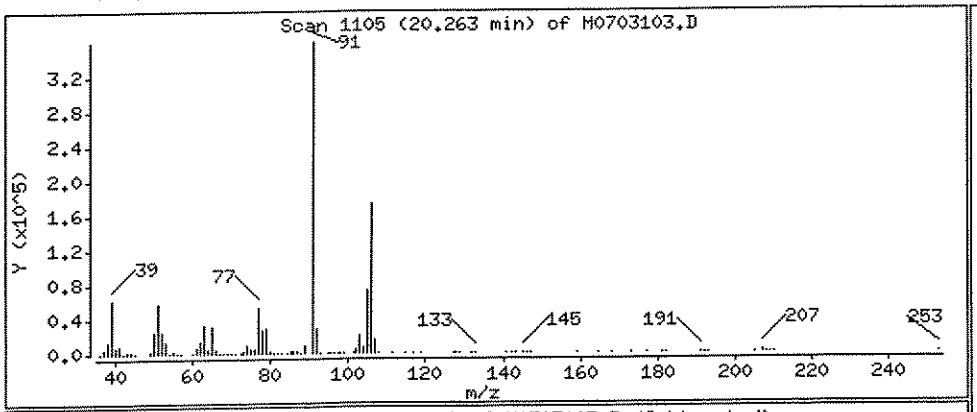
Operator: ADM

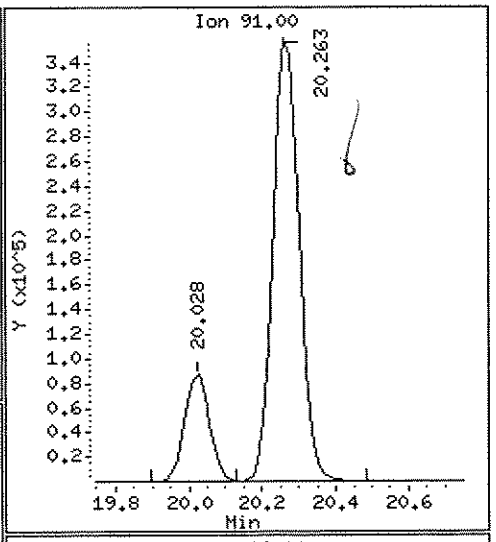
Column phase: DB-VRX

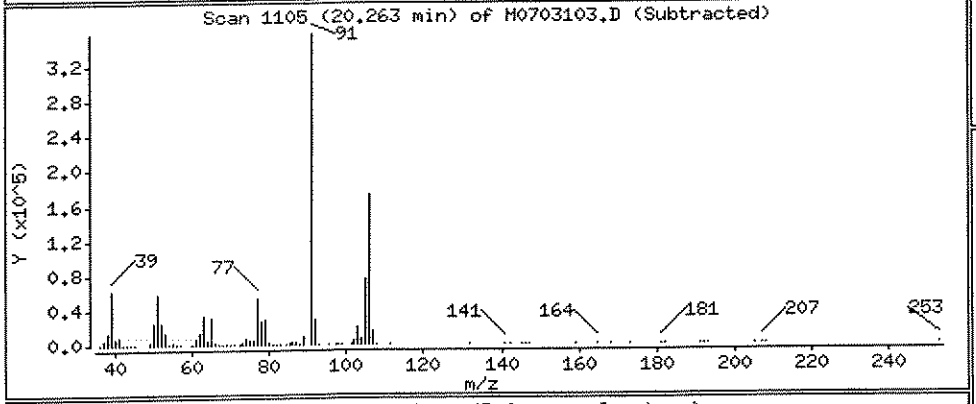
Column diameter: 0.25

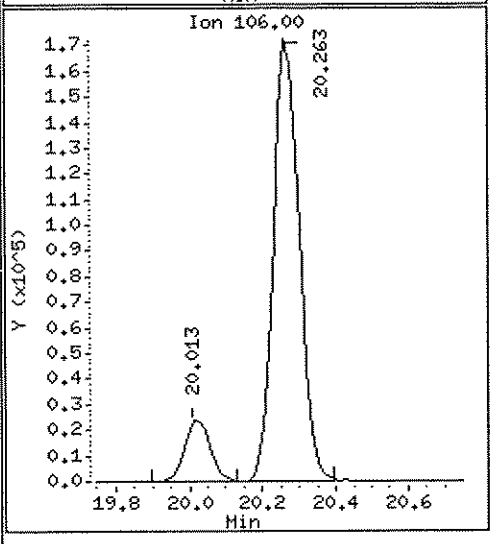
85 m,p-Xylene

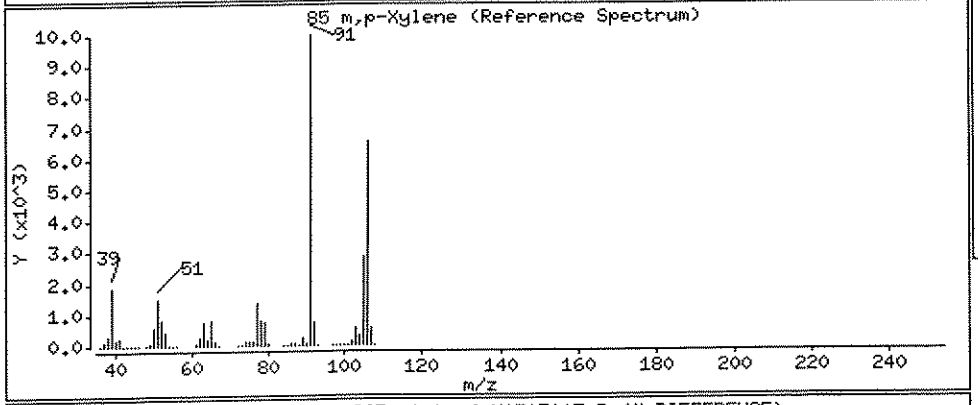
Concentration: 2915 ug/Kg

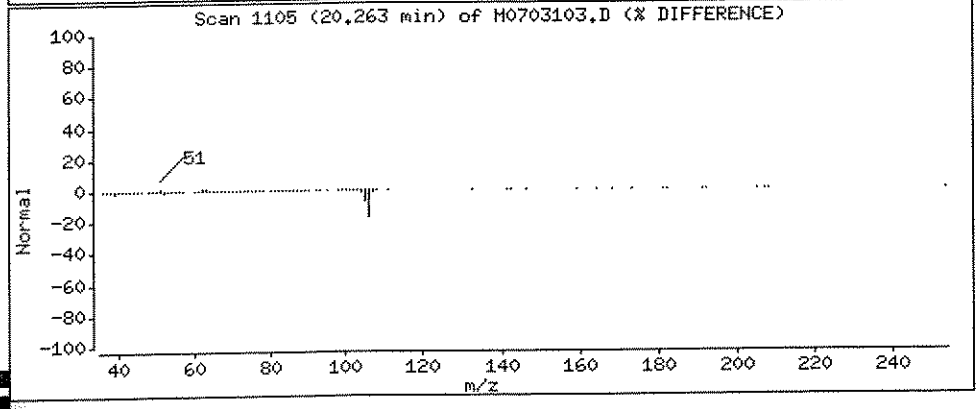












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703103.D

Date : 12-JUL-2006 18:31

Client ID: 51CFM3BS060711

Instrument: voa1.i

Sample Info: 0607031-03;;5.52;;;50x

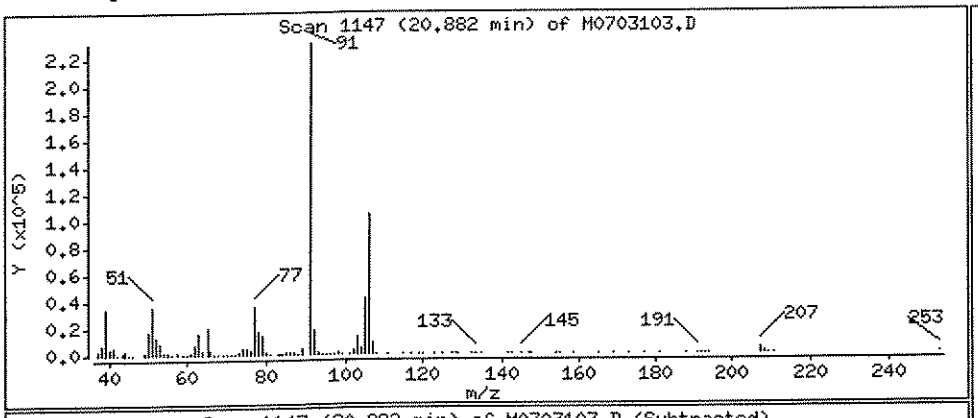
Operator: ADM

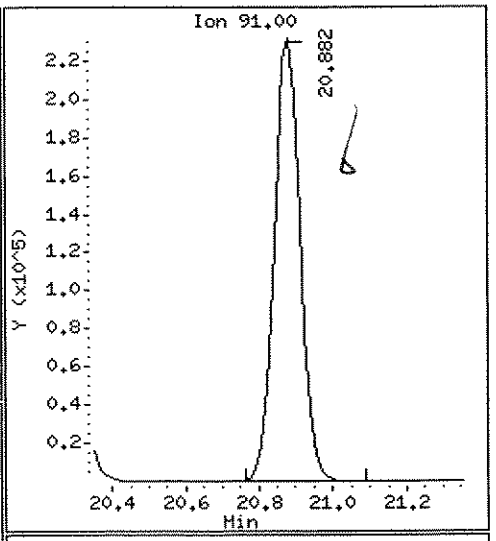
Column phase: DB-VRX

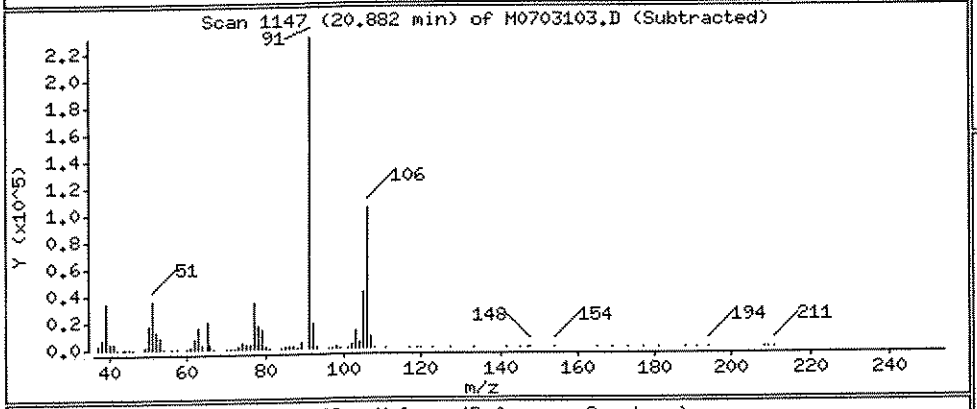
Column diameter: 0.25

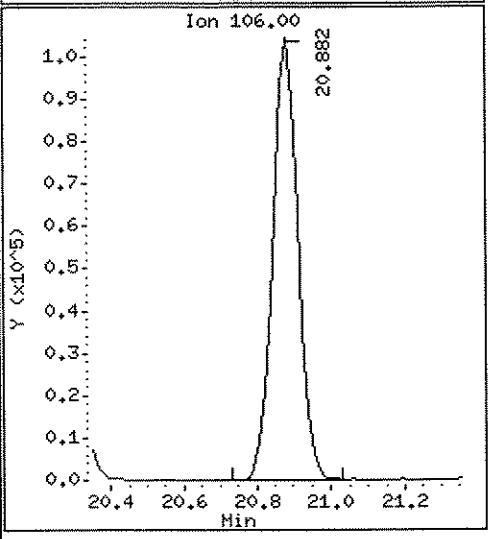
89 o-Xylene

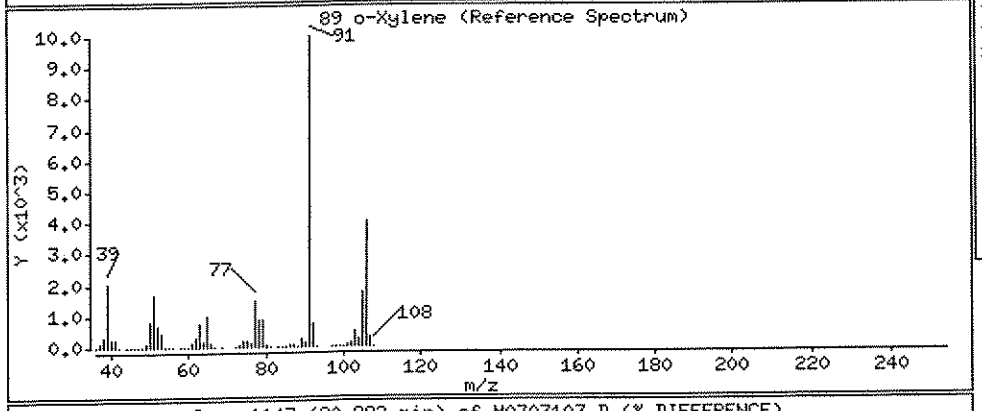
Concentration: 1773 ug/Kg

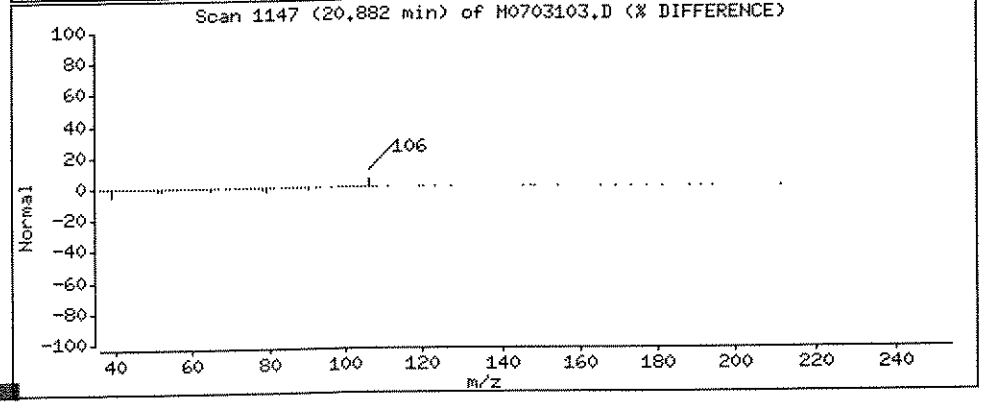












Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM4BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-04

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0703104A

Level: (low/med) LOW Date Sampled: 07/11/06 12:42

% Moisture: not dec. 6 Date Analyzed: 07/13/06 10:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.44	4.6		U
100-41-4	Ethylbenzene	0.70	4.6		U
108-88-3	Toluene	0.80	4.6		U
1330-20-7	Xylene (total)	0.65	4.6		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703104A.D
Report Date: 13-Jul-2006 17:11

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703104A.D
Lab Smp Id: 0607031-04 Client Smp ID: 51CFM4BS060711
Inj Date : 13-JUL-2006 10:32 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-04;;5.73;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.730	Weight of sample extracted (g)
Solids	94.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.833	14.833	(1.000)	551604	30.0000		
$ 44 Dibromofluoromethane	111	12.910	12.922	(0.870)	163681	30.1717	28.01	
$ 48 1,2-Dichloroethane-d4	102	13.629	13.627	(0.919)	41307	30.5066	28.32	(Q)
$ 73 Toluene-d8	98	17.561	17.553	(0.891)	513136	31.7506	29.47	
$ 95 Bromofluorobenzene	95	21.469	21.470	(1.089)	226824	29.5037	27.39	
* 82 Chlorobenzene-d5	82	19.719	19.716	(1.000)	276779	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.427	23.432	(1.000)	218454	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

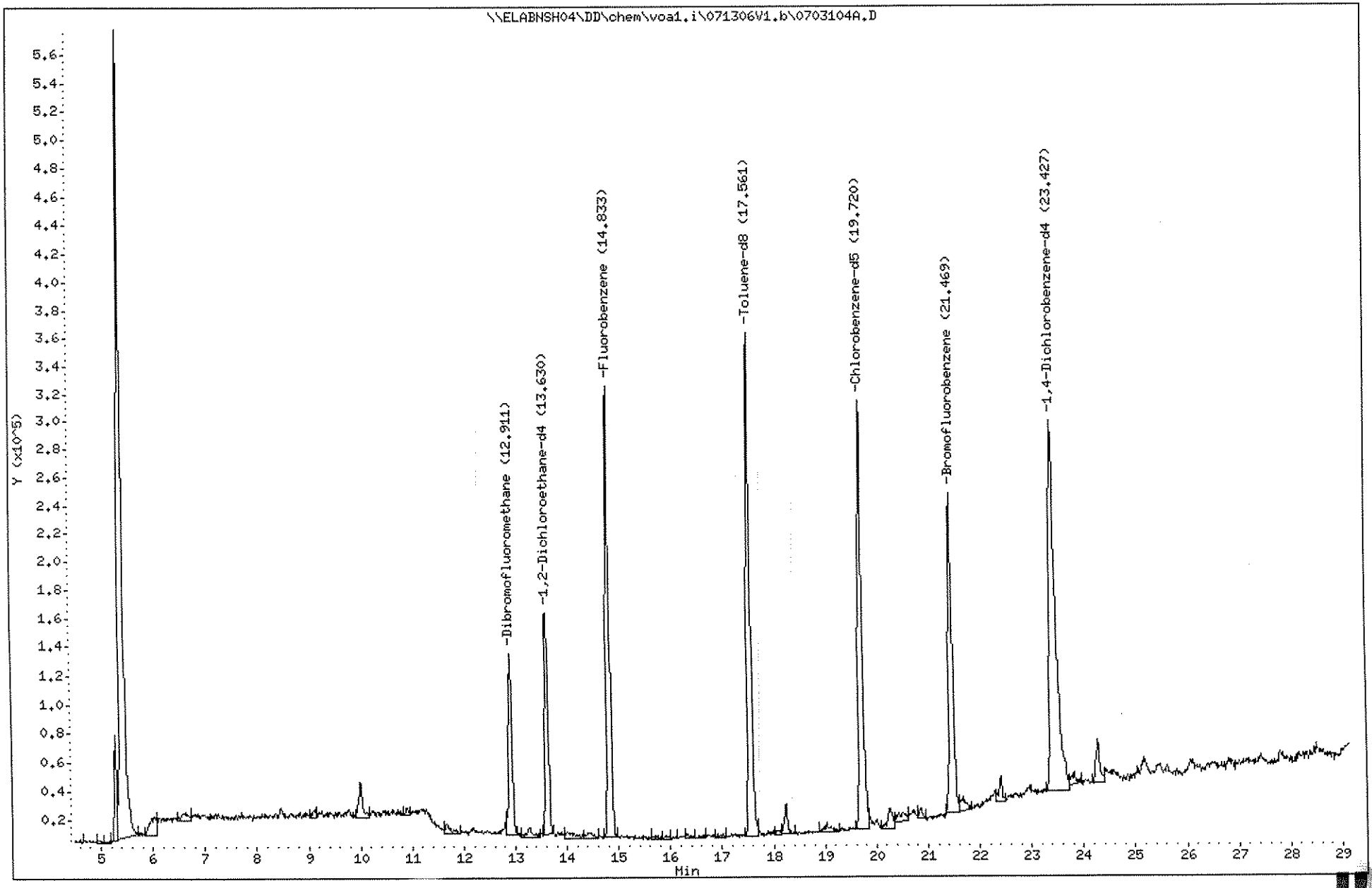
Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703104A.D
Date : 13-JUL-2006 10:32
Client ID: 51CFM4BS060711
Sample Info: 0607031-04;;5.73;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000034



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM5BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-05

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0703105A

Level: (low/med) LOW Date Sampled: 07/11/06 12:50

% Moisture: not dec. 10 Date Analyzed: 07/13/06 11:07

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.76	5.0		U
108-88-3	Toluene	0.87	5.0		U
1330-20-7	Xylene(total)	0.71	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703105A.D
Report Date: 13-Jul-2006 17:11

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703105A.D
Lab Smp Id: 0607031-05 Client Smp ID: 51CFM5BS060711
Inj Date : 13-JUL-2006 11:07 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-05;;5.5;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.500	Weight of sample extracted (g)
Solids	90.100	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.833	14.833	(1.000)	525806	30.0000	
$ 44 Dibromofluoromethane	111	12.925	12.922	(0.871)	155153	30.0029	30.27
$ 48 1,2-Dichloroethane-d4	102	13.629	13.627	(0.919)	37810	29.2940	29.56(Q)
$ 73 Toluene-d8	98	17.563	17.553	(0.890)	484943	32.1901	32.48
$ 95 Bromofluorobenzene	95	21.459	21.470	(1.088)	213879	29.8447	30.11
* 82 Chlorobenzene-d5	82	19.723	19.716	(1.000)	258001	30.0000	(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.418	23.432	(1.000)	188065	30.0000	(Q)

QC Flag Legend

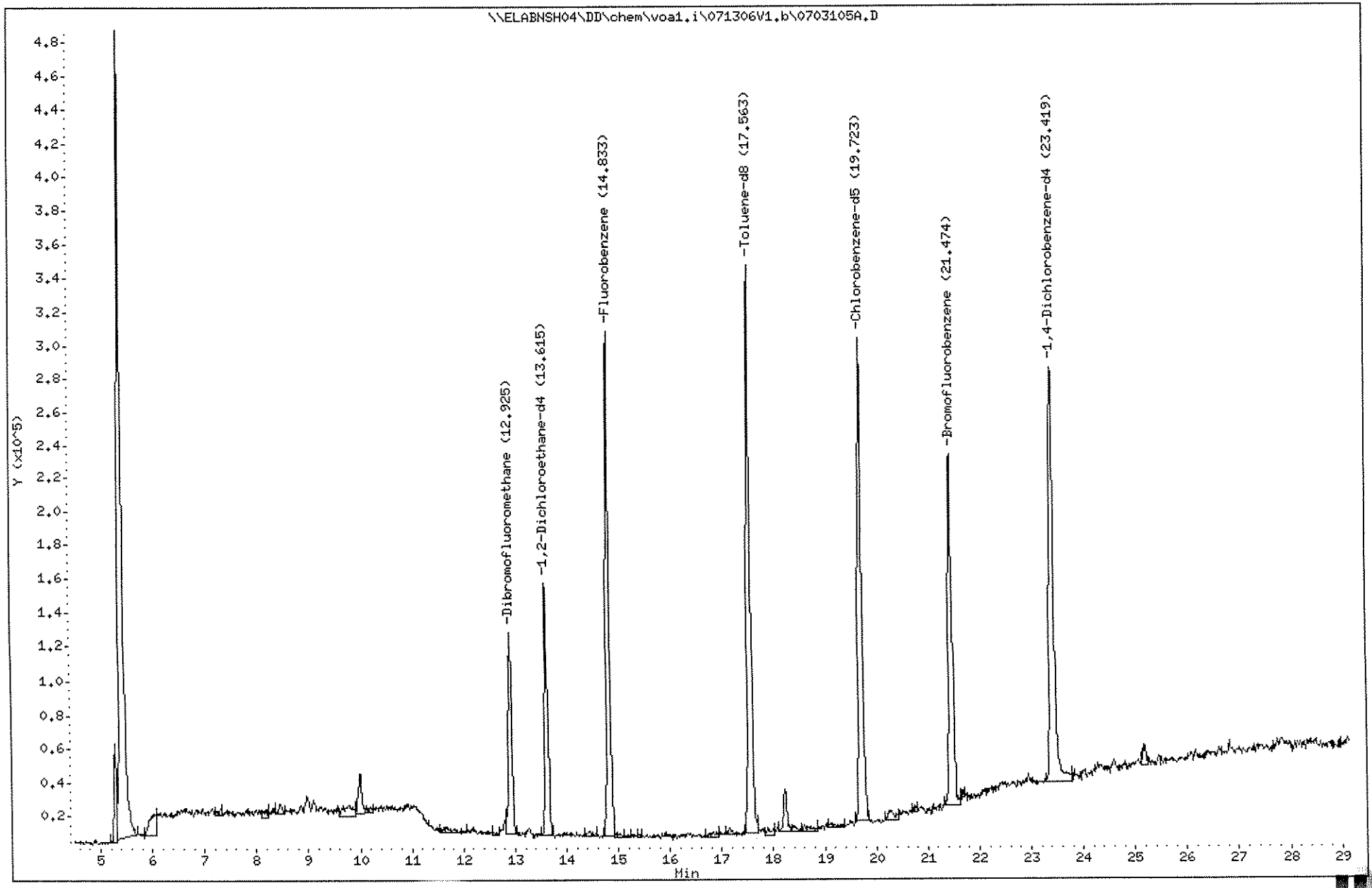
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\0703105A.D
Date : 13-JUL-2006 11:07
Client ID: 51CFM5BS060711
Sample Info: 0607031-05;;5.5;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM6BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-06

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0703106A

Level: (low/med) LOW Date Sampled: 07/11/06 12:56

% Moisture: not dec. 9 Date Analyzed: 07/12/06 16:45

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.52	5.6		U
100-41-4	Ethylbenzene	0.83	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703106A.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703106A.D
Lab Smp Id: 0607031-06 Client Smp ID: 51CFM6BS060711
Inj Date : 12-JUL-2006 16:45 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-06;;4.94;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.940	Weight of sample extracted (g)
Solids	91.100	Percent Solids

7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.834	14.825	(1.000)	573744	30.0000		
$ 44 Dibromofluoromethane	111	12.926	12.916	(0.871)	166629	29.5298	32.81	
$ 48 1,2-Dichloroethane-d4	102	13.631	13.620	(0.919)	42814	30.3995	33.77	
$ 73 Toluene-d8	98	17.563	17.558	(0.890)	530792	32.4552	36.06	
$ 95 Bromofluorobenzene	95	21.470	21.455	(1.088)	235796	30.3084	33.67	
* 82 Chlorobenzene-d5	82	19.736	19.719	(1.000)	280087	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.442	23.430	(1.000)	200619	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

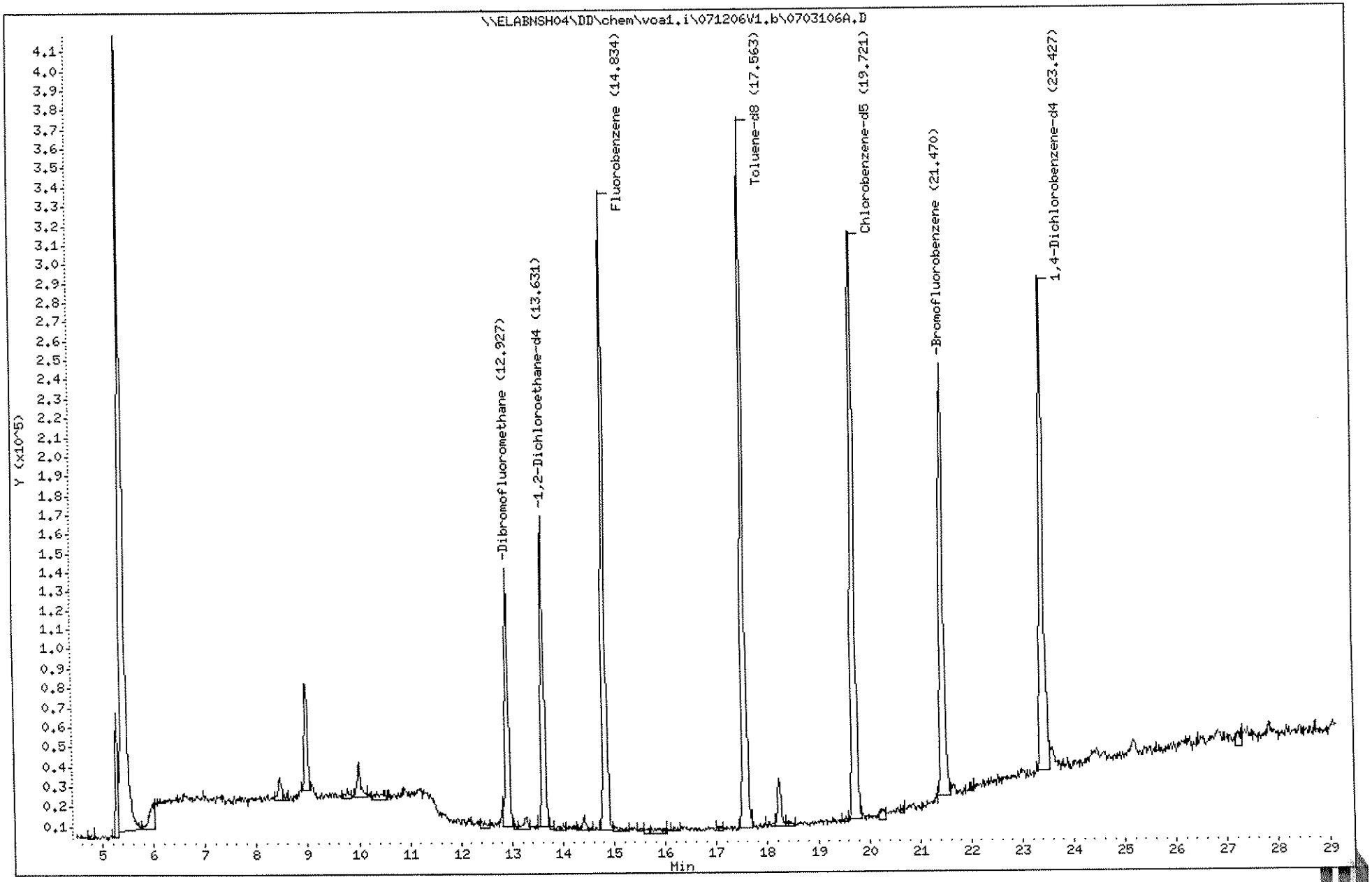
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703106A.D
Date : 12-JUL-2006 16:45
Client ID: 51CFM6BS060711
Sample Info: 0607031-06;;4.94;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000040



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM7BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: M0703107

Level: (low/med) MED Date Sampled: 07/11/06 13:05

% Moisture: not dec. 7 Date Analyzed: 07/13/06 09:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	270		U
100-41-4	Ethylbenzene	41	270	150	J
108-88-3	Toluene	47	270		U
1330-20-7	Xylene(total)	38	270	1500	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D
Report Date: 13-Jul-2006 17:11

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D
Lab Smp Id: 0607031-07 Client Smp ID: 51CFM7BS060711
Inj Date : 13-JUL-2006 09:57 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-07;;4.94;;;50x
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.940	Weight of sample extracted (g)
Solids	93.200	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

M 7/14/6

M 7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.835	14.833	(1.000)	472836	30.0000	
$ 44 Dibromofluoromethane	111	12.927	12.922	(0.871)	136271	29.3036	1591
$ 48 1,2-Dichloroethane-d4	102	13.632	13.627	(0.919)	34246	29.5051	1602(Q)
$ 73 Toluene-d8	98	17.564	17.553	(0.890)	442290	32.3658	1757
$ 95 Bromofluorobenzene	95	21.487	21.470	(1.089)	191606	29.4751	1600
* 82 Chlorobenzene-d5	82	19.737	19.716	(1.000)	234031	30.0000	(Q)
84 Ethylbenzene	91	20.016	20.011	(1.014)	85852	2.71409	147.4(a)
85 m,p-Xylene	91	20.266	20.261	(1.027)	404355	15.9934	868.4
M 91 Xylene(total)	91				741455	27.9395	1517
89 o-Xylene	91	20.883	20.865	(1.058)	337100	12.7026	689.7
* 106 1,4-Dichlorobenzene-d4	152	23.445	23.432	(1.000)	163550	30.0000	(Q)

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D
Report Date: 13-Jul-2006 17:11

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

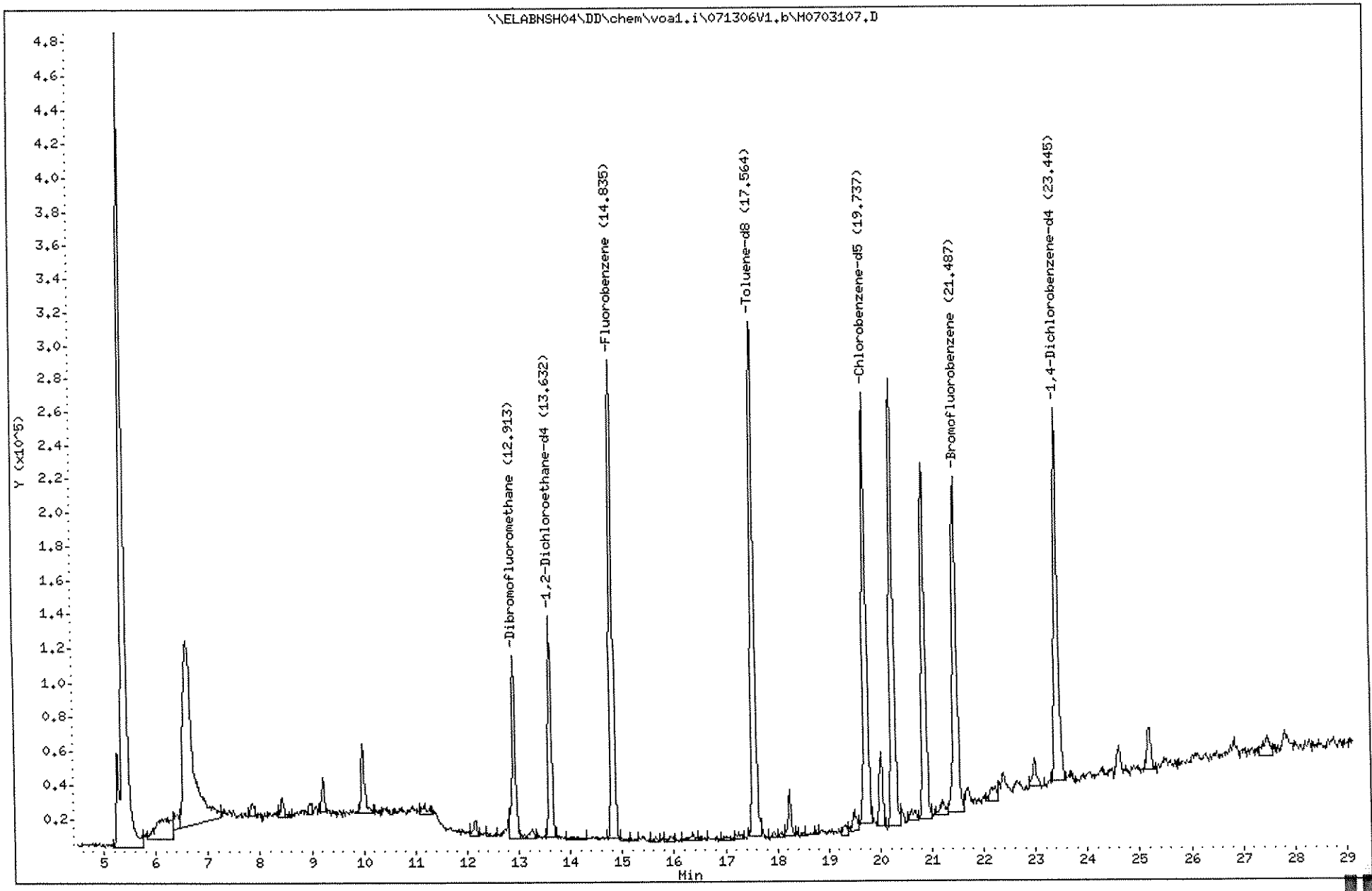
Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D
Date : 13-JUL-2006 09:57
Client ID: 51CFM7BS060711
Sample Info: 0607031-07;;4.94;;;50x

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000044



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D

Date : 13-JUL-2006 09:57

Client ID: 51CFM7BS060711

Instrument: voa1.i

Sample Info: 0607031-07;;4.94;;;50x

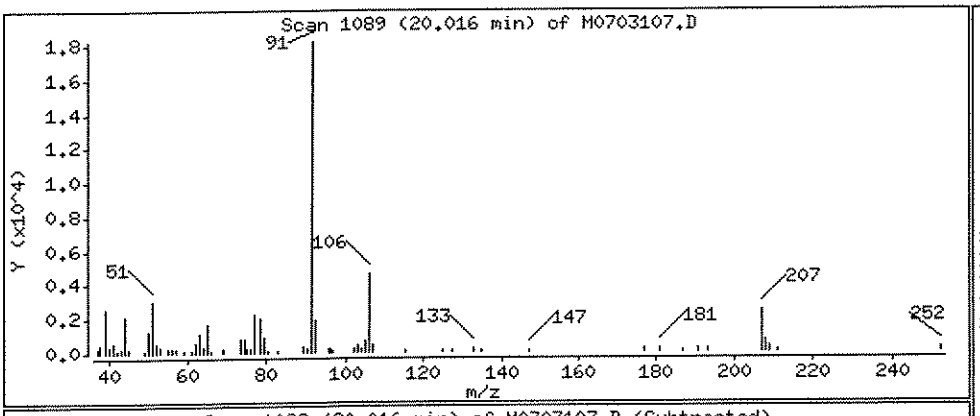
Operator: ADM

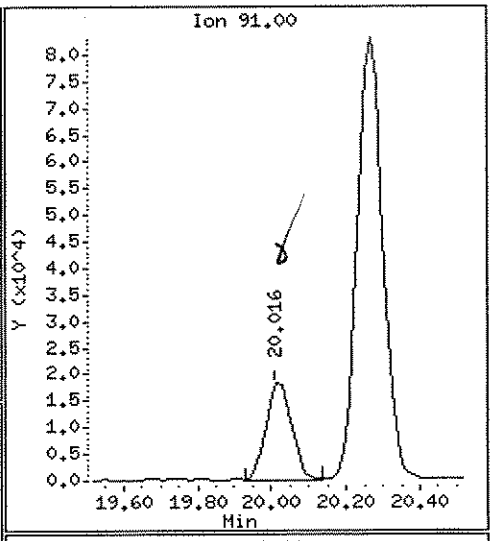
Column phase: DB-VRX

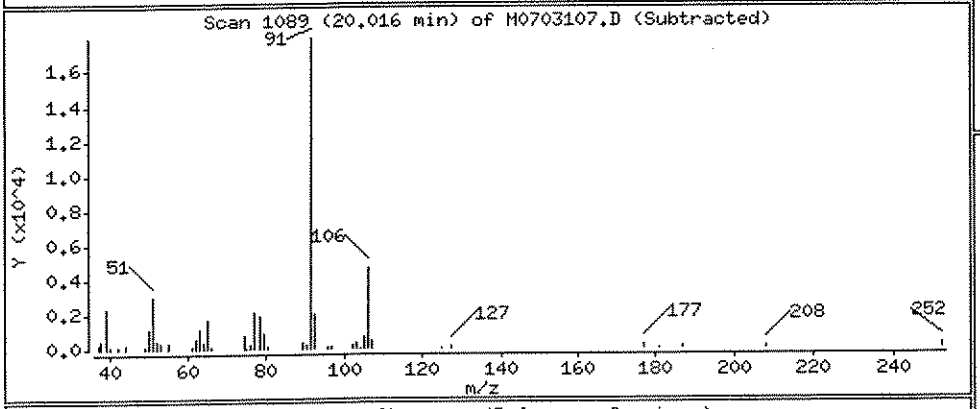
Column diameter: 0.25

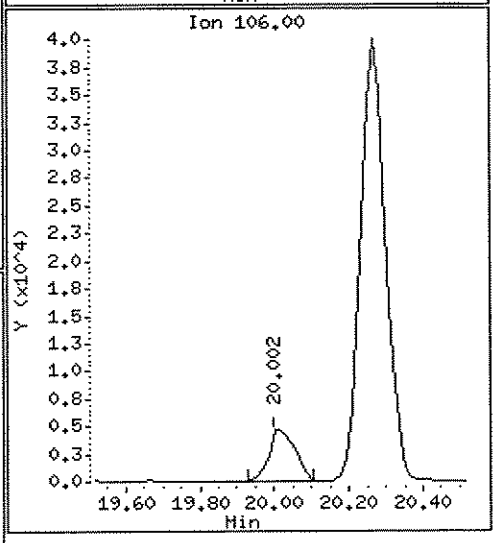
84 Ethylbenzene

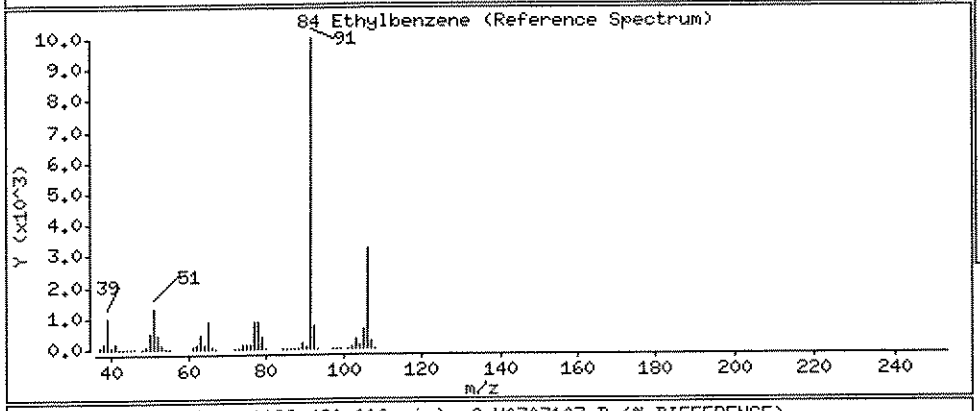
Concentration: 147.4 ug/Kg

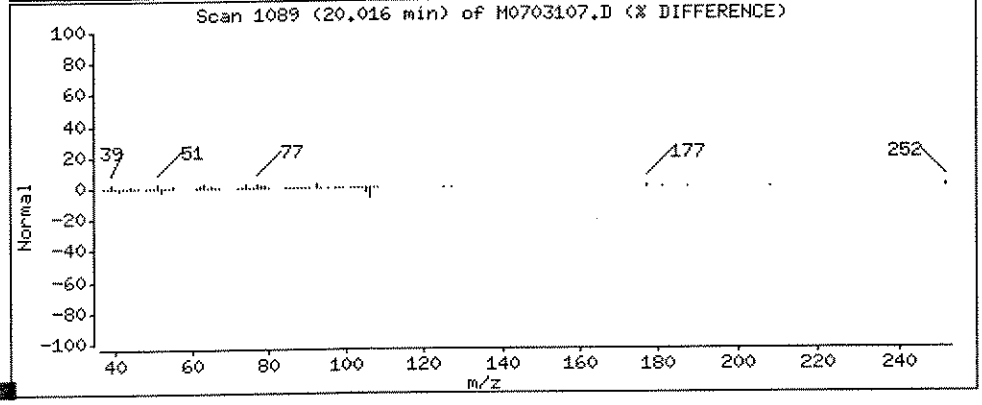












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D

Date : 13-JUL-2006 09:57

Client ID: 51CFM7BS060711

Instrument: voa1.i

Sample Info: 0607031-07;;4.94;;;50x

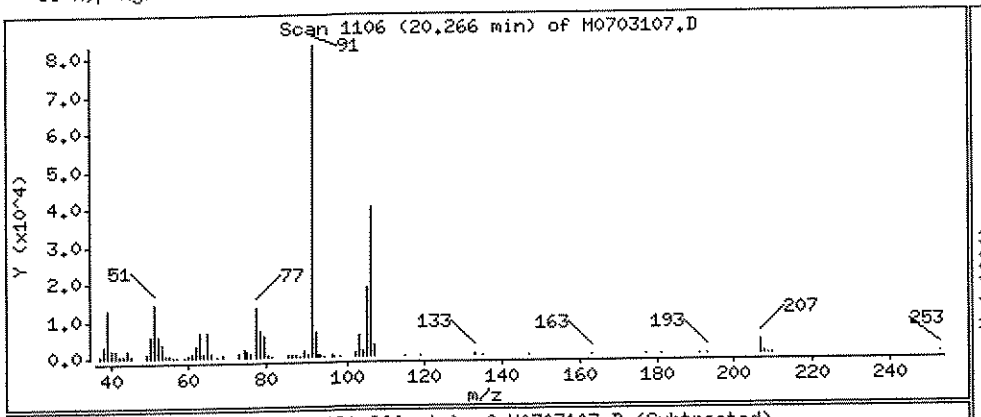
Operator: ADM

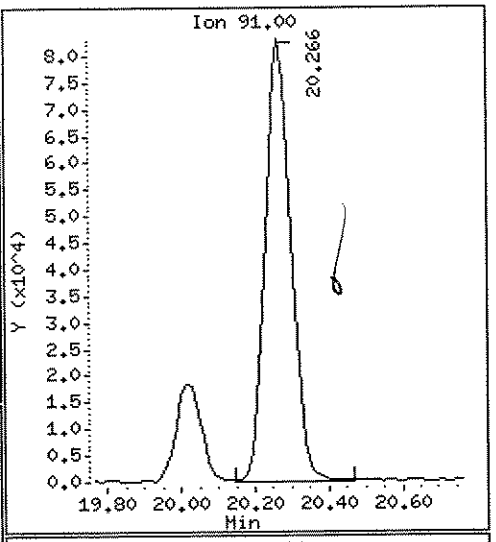
Column phase: DB-VRX

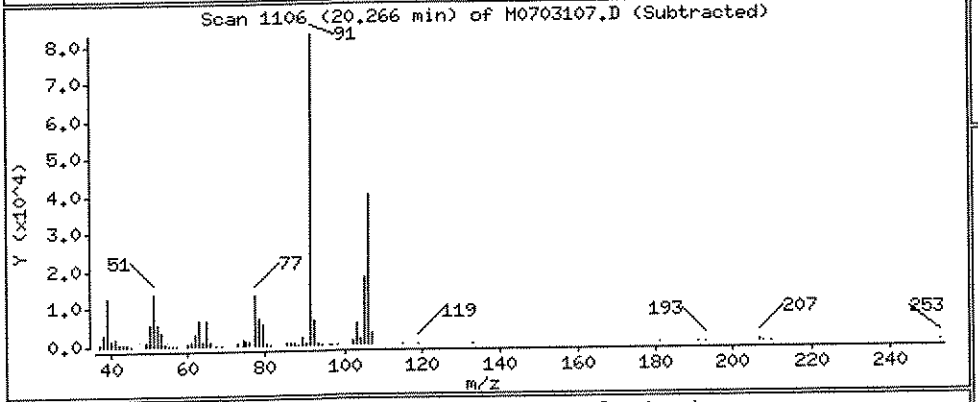
Column diameter: 0.25

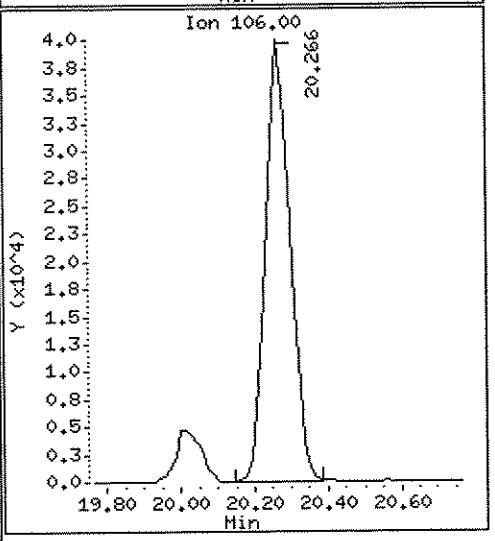
Concentration: 868.4 ug/Kg

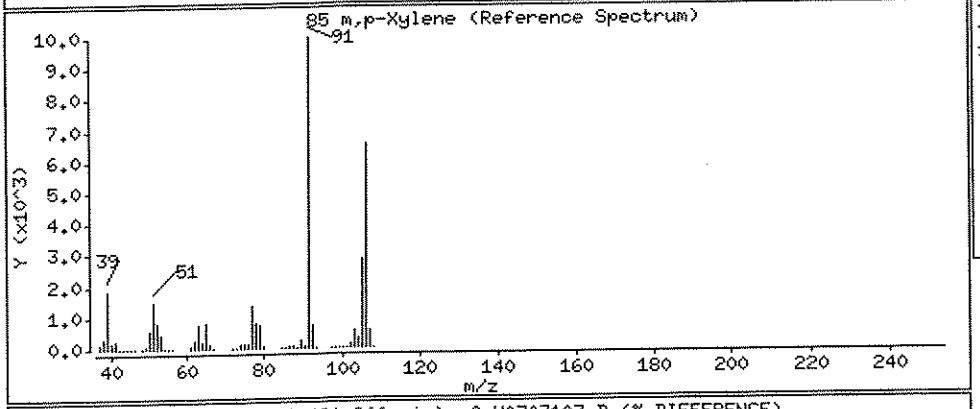
85 m,p-Xylene

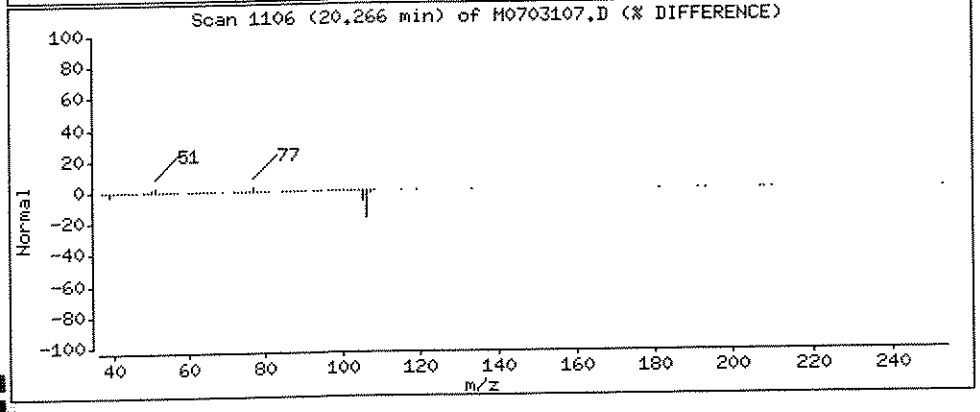












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\M0703107.D

Date : 13-JUL-2006 09:57

Client ID: 51CFM7BS060711

Instrument: voa1.i

Sample Info: 0607031-07;;4.94;;;50x

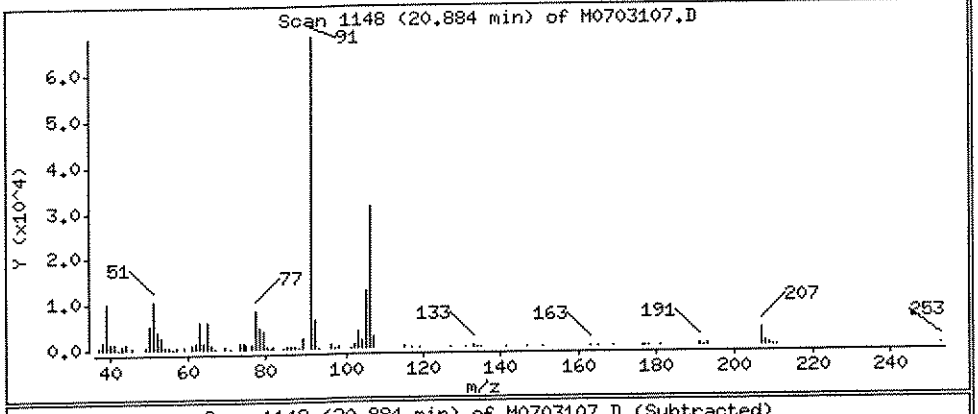
Operator: ADM

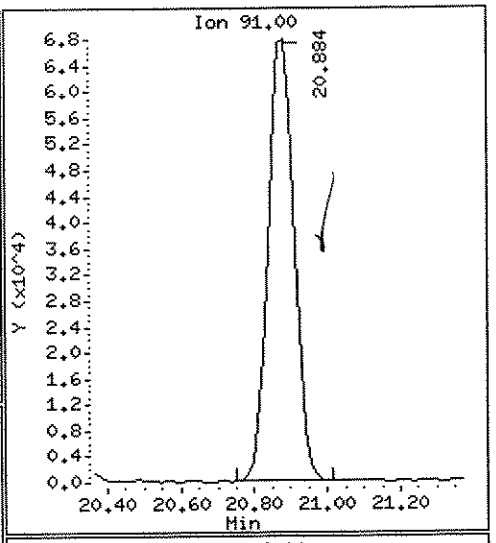
Column phase: DB-VRX

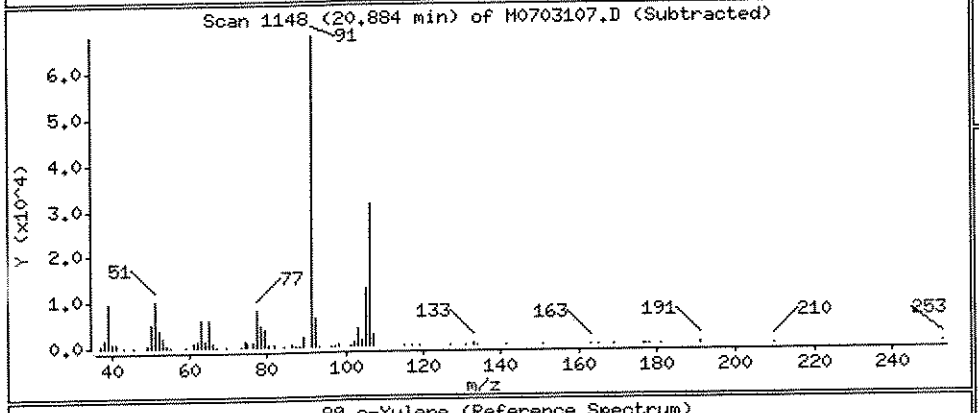
Column diameter: 0.25

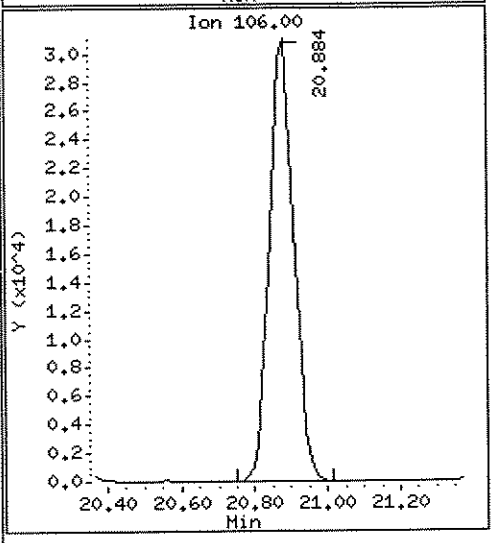
89 o-Xylene

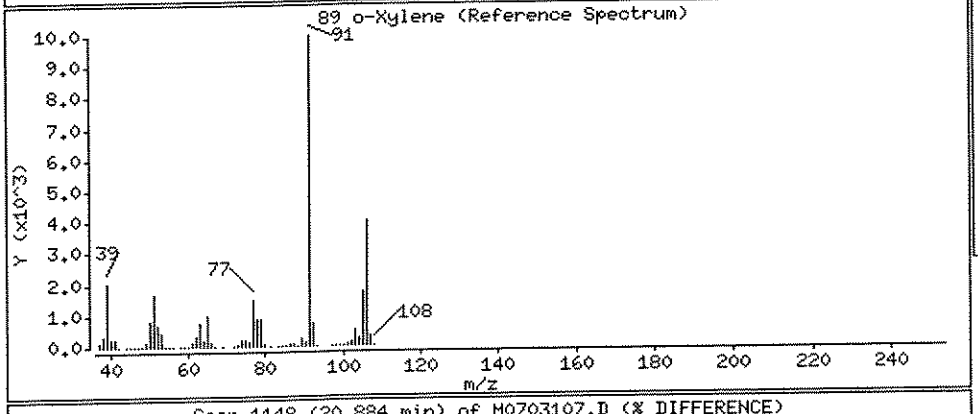
Concentration: 689.7 ug/Kg

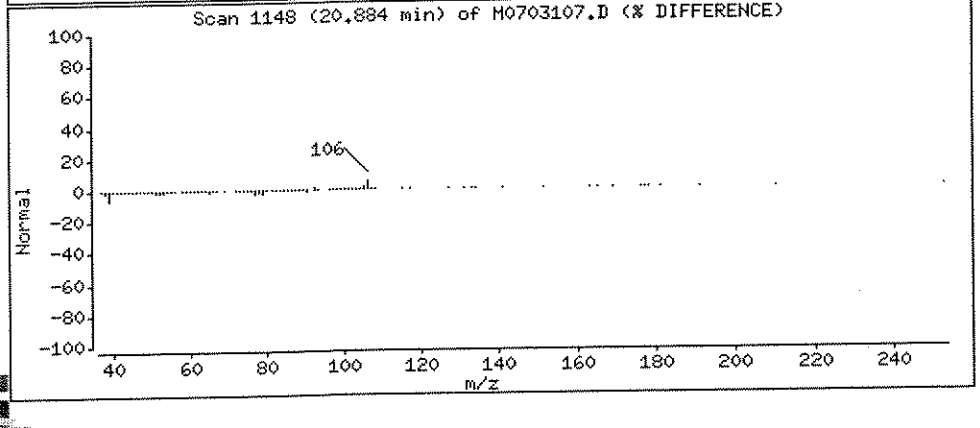












Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM8BS060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-08

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0703108A

Level: (low/med) LOW Date Sampled: 07/11/06 13:12

% Moisture: not dec. 5 Date Analyzed: 07/12/06 17:21

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	RL	CONC	UG/KG Q
71-43-2	Benzene	0.48	5.2		U
100-41-4	Ethylbenzene	0.77	5.2		U
108-88-3	Toluene	0.89	5.2		U
1330-20-7	Xylene(total)	0.72	5.2		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703108A.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703108A.D
Lab Smp Id: 0607031-08 Client Smp ID: 51CFM8BS060711
Inj Date : 12-JUL-2006 17:21 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-08;;5.12;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.120	Weight of sample extracted (g)
Solids	94.700	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.833	14.825	(1.000)	533688	30.0000		
$ 44 Dibromofluoromethane	111	12.925	12.916	(0.871)	166817	31.7820	32.77	
$ 48 1,2-Dichloroethane-d4	102	13.629	13.620	(0.919)	40391	30.8315	31.79	
$ 73 Toluene-d8	98	17.561	17.558	(0.891)	480042	31.4880	32.47	
$ 95 Bromofluorobenzene	95	21.470	21.455	(1.089)	232726	32.0906	33.09	
* 82 Chlorobenzene-d5	82	19.719	19.719	(1.000)	261088	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.429	23.430	(1.000)	192699	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

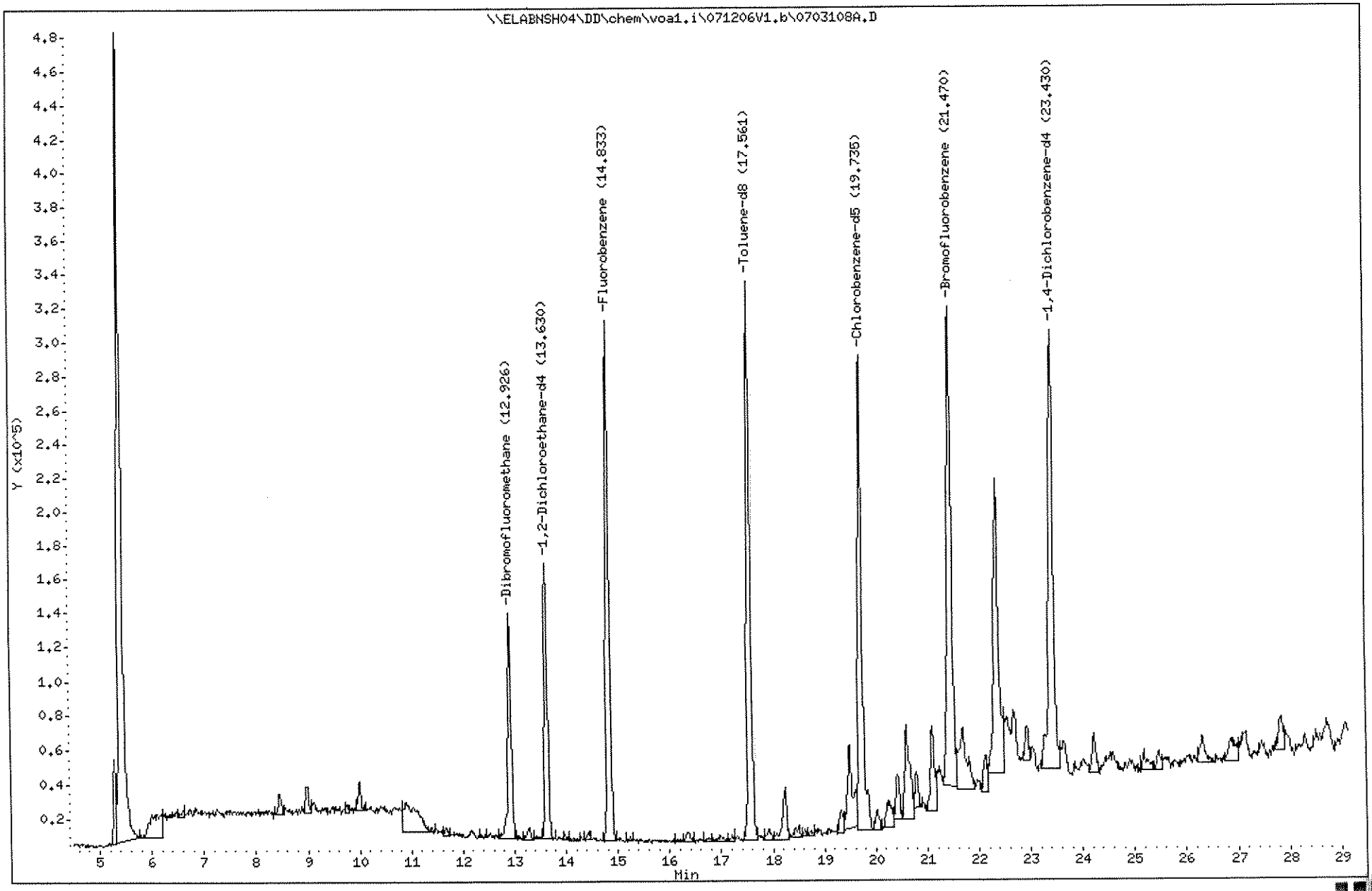
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703108A.D
Date : 12-JUL-2006 17:21
Client ID: 51CFM8BS060711
Sample Info: 0607031-08;;5.12;;;

Column phase: DB-VRX

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

000050



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP2S060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-09

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0703109A

Level: (low/med) LOW Date Sampled: 07/11/06 :

% Moisture: not dec. 8 Date Analyzed: 07/12/06 17:56

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.53	5.6		U
100-41-4	Ethylbenzene	0.84	5.6		U
108-88-3	Toluene	0.96	5.6		U
1330-20-7	Xylene(total)	0.78	5.6		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703109A.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703109A.D
Lab Smp Id: 0607031-09 Client Smp ID: 51DUP2S060711
Inj Date : 12-JUL-2006 17:56 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-09;;4.84;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.840	Weight of sample extracted (g)
Solids	92.100	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.834	14.825	(1.000)	558940	30.0000		
$ 44 Dibromofluoromethane	111	12.926	12.916	(0.871)	164247	29.8786	33.51	
$ 48 1,2-Dichloroethane-d4	102	13.645	13.620	(0.920)	43352	31.5967	35.44	
$ 73 Toluene-d8	98	17.564	17.558	(0.891)	513140	32.7761	36.76	
$ 95 Bromofluorobenzene	95	21.475	21.455	(1.089)	225877	30.3292	34.02	
* 82 Chlorobenzene-d5	82	19.724	19.719	(1.000)	268121	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.434	23.430	(1.000)	220492	30.0000		(Q)

QC Flag Legend

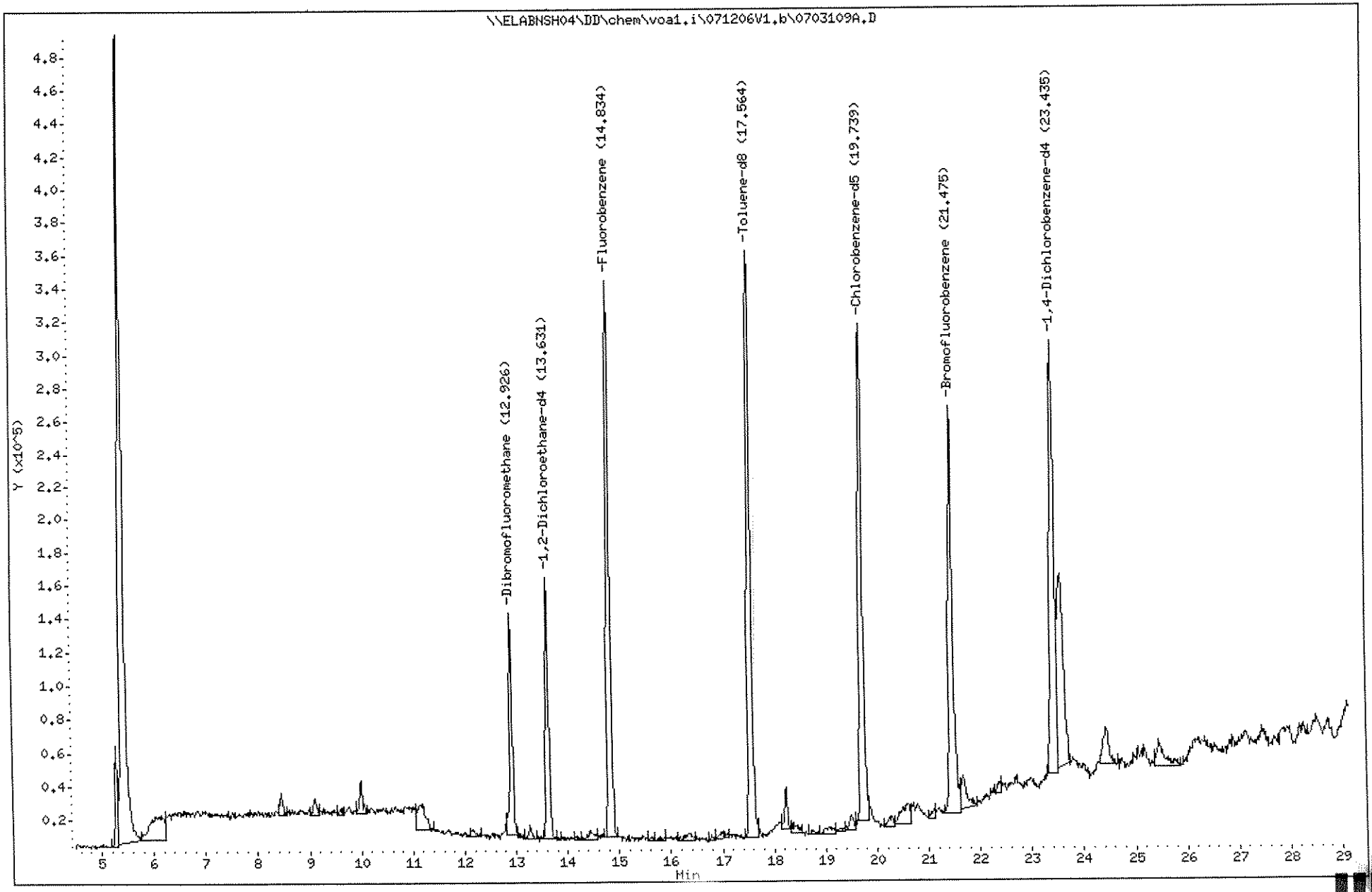
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\0703109A.D
Date : 12-JUL-2006 17:56
Client ID: 51DUP2S060711
Sample Info: 0607031-09;;4.84;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51BLK1W060711

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M0703110

Level: (low/med) MED Date Sampled: 07/11/06 :

% Moisture: not dec. 0 Date Analyzed: 07/12/06 14:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703110.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703110.D
Lab Smp Id: 0607031-10 Client Smp ID: 51BLK1W060711
Inj Date : 12-JUL-2006 14:59 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-10;;5;;;
Misc Info : ch2.v07031;0;;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Methanol Trip Blank - Reagent water vials received broken.

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

7/14/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.824	14.825	(1.000)	510166	30.0000		
$ 44 Dibromofluoromethane	111	12.901	12.916	(0.870)	144244	28.7485	1437	
$ 48 1,2-Dichloroethane-d4	102	13.620	13.620	(0.919)	36989	29.5365	1477	
$ 73 Toluene-d8	98	17.553	17.558	(0.890)	467934	32.7766	1639	
$ 95 Bromofluorobenzene	95	21.460	21.455	(1.088)	207145	30.5015	1525	
* 82 Chlorobenzene-d5	82	19.726	19.719	(1.000)	244497	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.433	23.430	(1.000)	177671	30.0000		(Q)

QC Flag Legend

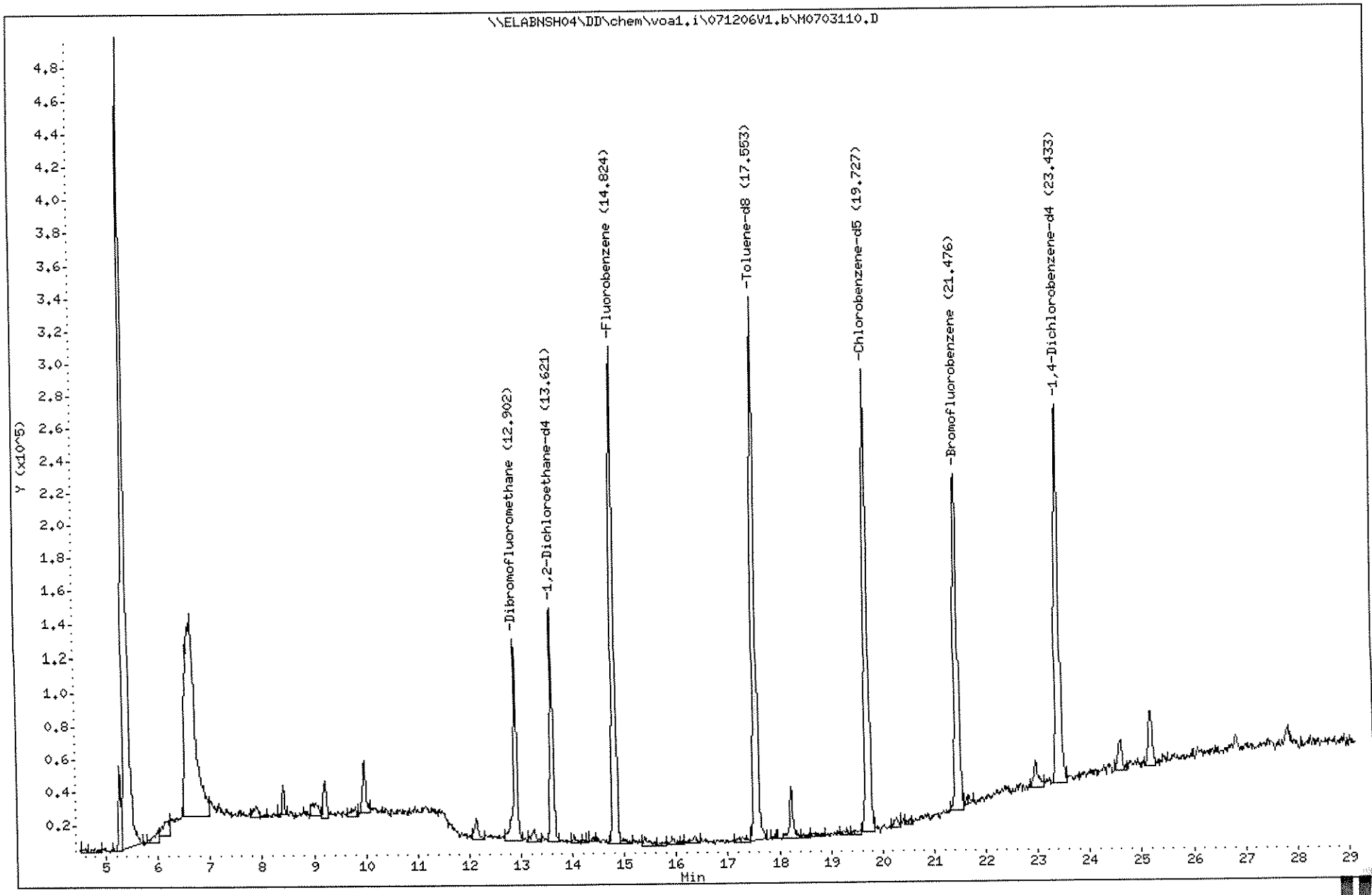
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\M0703110.D
Date : 12-JUL-2006 14:59
Client ID: 51BLK1W060711
Sample Info: 0607031-10;;5;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



Empirical Laboratories

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetone	0.495	0.403	0.388	0.382	0.325
Benzene	1.803	1.886	1.842	1.758	1.820
Bromodichloromethane	0.695	0.755	0.742	0.706	0.727
Bromoform	0.746	0.816	0.794	0.824	0.858
Bromomethane	0.323	0.272	0.262	0.264	0.292
2-Butanone	0.401	0.437	0.395	0.393	0.377
Carbon disulfide	1.398	1.375	1.422	1.330	1.464
Carbon tetrachloride		0.414	0.500	0.506	0.572
Chlorobenzene	2.281	2.349	2.280	2.180	2.128
Chloroethane	0.364	0.358	0.401	0.360	0.399
Chloroform	1.152	1.044	1.028	0.930	0.962
Chloromethane	0.864	0.729	0.742	0.665	0.684
Dibromochloromethane	0.866	0.946	0.898	0.882	0.885
1,1-Dichloroethane	1.044	1.001	1.034	0.975	1.029
1,2-Dichloroethane	0.879	0.944	0.897	0.885	0.907
1,1-Dichloroethene	0.421	0.410	0.379	0.368	0.407
cis-1,2-Dichloroethene	0.523	0.508	0.507	0.502	0.510
1,2-Dichloroethene(total)	0.481	0.483	0.489	0.480	0.494
trans-1,2-Dichloroethene	0.439	0.458	0.471	0.459	0.477
1,2-Dichloropropane	0.618	0.530	0.545	0.518	0.538
cis-1,3-Dichloropropene	0.891	0.941	0.924	0.885	0.903
trans-1,3-Dichloropropene	1.800	1.850	1.801	1.657	1.693
Ethylbenzene	4.362	4.442	4.538	4.221	4.124
2-Hexanone	1.126	1.275	1.100	1.098	0.998
Methylene chloride		1.975	1.347	0.906	0.691
4-Methyl-2-pentanone	0.714	0.764	0.671	0.665	0.683
Styrene	2.829	2.757	2.700	2.594	2.525
1,1,2,2-Tetrachloroethane	1.820	1.881	1.538	1.603	1.641
Tetrachloroethene	0.725	0.876	0.807	0.788	0.787
Toluene	2.326	2.283	2.199	2.090	2.063
1,1,1-Trichloroethane	0.781	0.814	0.826	0.755	0.796
1,1,2-Trichloroethane	0.672	0.787	0.736	0.716	0.683
Trichloroethene	0.527	0.537	0.506	0.494	0.497
Vinyl chloride	0.672	0.604	0.632	0.546	0.629
Xylene(total)	3.701	3.701	3.600	3.317	3.212
Dibromofluoromethane	0.306	0.305	0.305	0.297	0.288

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
1,2-Dichloroethane-d4	0.072	0.075	0.074	0.069	0.077
Toluene-d8	1.850	1.840	1.900	1.832	1.738
Bromofluorobenzene	0.914	0.888	0.872	0.858	0.815

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
Acetone	0.312	0.351
Benzene	1.718	1.568
Bromodichloromethane	0.694	0.690
Bromoform	0.848	0.871
Bromomethane	0.304	0.299
2-Butanone	0.361	0.393
Carbon disulfide	1.407	1.157
Carbon tetrachloride	0.573	0.584
Chlorobenzene	1.939	1.603
Chloroethane	0.392	0.353
Chloroform	0.898	0.857
Chloromethane	0.633	0.564
Dibromochloromethane	0.802	0.702
1,1-Dichloroethane	0.972	0.877
1,2-Dichloroethane	0.838	0.870
1,1-Dichloroethene	0.391	0.339
cis-1,2-Dichloroethene	0.489	0.450
1,2-Dichloroethene(total)	0.477	0.429
trans-1,2-Dichloroethene	0.465	0.408
1,2-Dichloropropane	0.506	0.486
cis-1,3-Dichloropropene	0.859	0.862
trans-1,3-Dichloropropene	1.484	1.261
Ethylbenzene	3.705	2.990
2-Hexanone	0.892	0.863
Methylene chloride	0.587	0.455
4-Methyl-2-pentanone	0.641	0.716
Styrene	2.301	1.964
1,1,2,2-Tetrachloroethane	1.539	1.581
Tetrachloroethene	0.728	0.605
Toluene	1.869	1.531
1,1,1-Trichloroethane	0.754	0.742
1,1,2-Trichloroethane	0.610	0.516
Trichloroethene	0.475	0.481
Vinyl chloride	0.606	0.559
Xylene(total)	2.880	
Dibromofluoromethane	0.284	0.280

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
1,2-Dichloroethane-d4	0.071	0.078
Toluene-d8	1.648	1.454
Bromofluorobenzene	0.774	0.710

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	3.637e-002	0.34533205		0.996
Benzene	AVRG		1.77069488		5.9
Bromodichloromethane	AVRG		0.71574403		3.6
Bromoform	AVRG		0.82249056		5.2
Bromomethane	AVRG		0.28814918		8.0
2-Butanone	AVRG		0.39390013		5.9
Carbon disulfide	AVRG		1.36472469		7.4
Carbon tetrachloride	AVRG		0.52464827		12.5
Chlorobenzene	AVRG		2.10887147		12.4
Chloroethane	AVRG		0.37540880		5.6
Chloroform	AVRG		0.98151866		10.2
Chloromethane	AVRG		0.69735842		13.6
Dibromochloromethane	AVRG		0.85441132		9.3
1,1-Dichloroethane	AVRG		0.99038672		5.8
1,2-Dichloroethane	AVRG		0.88834164		3.7
1,1-Dichloroethene	AVRG		0.38790223		7.3
cis-1,2-Dichloroethene	AVRG		0.49834109		4.8
1,2-Dichloroethene(total)	AVRG		0.47612211		4.5
trans-1,2-Dichloroethene	AVRG		0.45390313		5.2
1,2-Dichloropropane	AVRG		0.53445066		7.8
cis-1,3-Dichloropropene	AVRG		0.89489191		3.4
trans-1,3-Dichloropropene	AVRG		1.64926128		12.8
Ethylbenzene	AVRG		4.05484838		13.4
2-Hexanone	AVRG		1.05023750		13.7
Methylene chloride	2ORDR	-0.2065129	1.12270048	0.37411643	0.999
4-Methyl-2-pentanone	AVRG		0.69347581		5.9
Styrene	AVRG		2.52432675		12.0
1,1,2,2-Tetrachloroethane	AVRG		1.65756198		8.3
Tetrachloroethene	AVRG		0.75939873		11.2
Toluene	AVRG		2.05176043		13.4
1,1,1-Trichloroethane	AVRG		0.78118994		4.1
1,1,2-Trichloroethane	AVRG		0.67440588		13.2
Trichloroethene	AVRG		0.50247860		4.6
Vinyl chloride	AVRG		0.60710341		7.2
Xylene(total)	AVRG		3.40184727		9.6
Dibromofluoromethane	AVRG		0.29504821		3.7

MRL 2.5 ug/L

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Instrument ID: VOA1 Calibration Date(s): 06/09/06 06/09/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1148 1527

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethane-d4	AVRG		7.364e-002		4.5
Toluene-d8	AVRG		1.75173677		8.9
Bromofluorobenzene	AVRG		0.83329988		8.6

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD07.D
Report Date: 09-Jun-2006 16:23

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Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD07.D
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Inj Date : 09-JUN-2006 11:48 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD200ppb;;;;;
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Comment :
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Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.837	14.837	(1.000)	626518	30.0000	
1 Dichlorodifluoromethane	85	6.023	6.023	(0.406)	2156643	200.000	200.9(AM)
4 Chloromethane	50	6.436	6.436	(0.434)	2357539	200.000	161.9
5 Vinyl chloride	62	6.746	6.746	(0.455)	2336387	200.000	184.3(M)
6 Bromomethane	94	7.543	7.543	(0.508)	1250508	200.000	207.8(A)
7 Chloroethane	64	7.809	7.809	(0.526)	1473128	200.000	187.9(M)
9 Trichlorofluoromethane	101	8.856	8.856	(0.597)	3046855	200.000	187.6(M)
21 Trichlorotrifluoroethane	101	10.095	10.095	(0.680)	1533041	200.000	183.8
8 Acrolein	56	8.767	8.767	(0.591)	2386878	1000.00	991.7
12 Acetone	43	8.989	8.989	(0.606)	2935927	400.000	408.2(A)
15 1,1-Dichloroethene	96	9.785	9.785	(0.660)	1414656	200.000	174.6
16 Iodomethane	142	9.844	9.844	(0.663)	1754767	200.000	199.9
17 Acrylonitrile	53	9.800	9.800	(0.661)	3101544	1000.00	919.5
20 Methylene chloride	84	10.007	10.007	(0.674)	1900735	200.000	199.3(M)
25 Carbon disulfide	76	10.435	10.435	(0.703)	4832654	200.000	169.6(M)

RW 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD07.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.112	11.112	(0.749)	1704303	200.000	179.8
	29 MTBE	73	11.303	11.303	(0.762)	5923660	200.000	180.4
	30 1,1-Dichloroethane	63	11.524	11.524	(0.777)	3663123	200.000	177.1
	32 Vinyl acetate	43	11.642	11.642	(0.785)	10523017	400.000	376.3
	35 2-Butanone	43	12.142	12.142	(0.818)	3279713	400.000	398.7
	38 cis-1,2-Dichloroethene	96	12.451	12.451	(0.839)	1879140	200.000	180.6
M	18 1,2-Dichloroethene(total)	96				3583443	400.000	360.4
	41 Bromochloromethane	128	12.687	12.687	(0.855)	901810	200.000	180.8
	42 Chloroform	83	12.761	12.761	(0.860)	3578861	200.000	174.6
	43 2,2-Dichloropropane	77	12.893	12.893	(0.869)	3500554	200.000	188.9
$	44 Dibromofluoromethane	111	12.937	12.937	(0.872)	175611	30.0000	28.50
	22 Methyl acetate	43	10.021	10.021	(0.675)	1557161	200.000	195.2
	47 Tetrahydrofuran	42	13.276	13.276	(0.895)	773157	200.000	190.4
	52 Cyclohexane	56	14.424	14.424	(0.972)	3236999	200.000	172.8
$	48 1,2-Dichloroethane-d4	102	13.644	13.644	(0.920)	48809	30.0000	31.74(M)
	49 1,2-Dichloroethane	62	13.762	13.762	(0.928)	3632004	200.000	195.8
	50 1,1,1-Trichloroethane	97	13.953	13.953	(0.940)	3097749	200.000	189.9
	51 1,1-Dichloropropene	75	14.233	14.233	(0.959)	2814613	200.000	184.6
	53 Carbon tetrachloride	117	14.527	14.527	(0.979)	2437636	200.000	222.5(A)
	54 Benzene	78	14.542	14.542	(0.980)	6550776	200.000	177.1
	58 Dibromomethane	93	15.411	15.411	(1.039)	1339003	200.000	192.4
	59 1,2-Dichloropropane	63	15.455	15.455	(1.042)	2031061	200.000	182.0
	60 Trichloroethene	95	15.529	15.529	(1.047)	2007700	200.000	191.3
	61 Bromodichloromethane	83	15.588	15.588	(1.051)	2881326	200.000	192.8
	62 Methyl methacrylate	41	15.706	15.706	(1.059)	2712887	200.000	200.6(A)
	68 cis-1,3-Dichloropropene	75	16.531	16.531	(1.114)	3598709	200.000	192.6
	70 4-Methyl-2-pentanone	43	16.634	16.634	(1.121)	5981218	400.000	413.0(A)
	71 trans-1,3-Dichloropropene	75	17.150	17.150	(0.869)	3594519	200.000	152.9
	72 1,1,2-Trichloroethane	83	17.415	17.415	(0.883)	1472662	200.000	153.2
$	73 Toluene-d8	98	17.577	17.577	(0.891)	621689	30.0000	24.90
	74 Toluene	92	17.680	17.680	(0.896)	4365785	200.000	149.3
	76 1,3-Dichloropropane	76	17.769	17.769	(0.901)	3424974	200.000	155.5
	75 Ethyl methacrylate	69	17.680	17.680	(0.896)	3076016	200.000	158.8
	77 2-Hexanone	43	17.901	17.901	(0.907)	4918926	400.000	328.6
	78 Dibromochloromethane	129	18.211	18.211	(0.923)	2000582	200.000	164.2
	79 1,2-Dibromoethane	107	18.565	18.565	(0.941)	1921889	200.000	159.1
	65 Methyl cyclohexane	83	16.354	16.354	(1.102)	3113931	200.000	189.0
	80 Tetrachloroethene	166	18.815	18.815	(0.954)	1725005	200.000	159.4
	81 1,1,1,2-Tetrachloroethane	131	19.685	19.685	(0.998)	1758766	200.000	154.8
*	82 Chlorobenzene-d5	82	19.729	19.729	(1.000)	427645	30.0000	
	83 Chlorobenzene	112	19.788	19.788	(1.003)	4570303	200.000	152.0
	87 Bromoform	173	20.555	20.555	(0.877)	1390161	200.000	211.9(A)
	84 Ethylbenzene	91	20.024	20.024	(1.015)	8525905	200.000	147.5
	85 m,p-Xylene	91	20.275	20.275	(1.028)	12536357	400.000	398.2
M	91 Xylene(total)	91				19313107	200.000	992.2(A)
	89 o-Xylene	91	20.880	20.880	(1.058)	6776750	200.000	199.5
	88 Styrene	104	20.762	20.762	(1.052)	5598127	200.000	155.6

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD07.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.895	20.895	(0.891)	2521888	200.000	190.7
	92 1,2,3-Trichloropropane	110	21.102	21.102	(1.070)	834994	200.000	163.6
	94 Isopropylbenzene	105	21.397	21.397	(1.085)	8133718	200.000	152.9
$	95 Bromofluorobenzene	95	21.486	21.486	(1.089)	303811	30.0000	25.58
	96 Bromobenzene	156	21.840	21.840	(0.931)	1884518	200.000	187.0
	97 n-Propylbenzene	91	22.032	22.032	(0.940)	10461478	200.000	181.8
	98 2-Chlorotoluene	91	22.224	22.224	(0.948)	6307496	200.000	165.9
	99 4-Chlorotoluene	91	22.328	22.328	(0.952)	7489326	200.000	176.3
	100 1,3,5-Trimethylbenzene	105	22.387	22.387	(0.955)	6722984	200.000	185.5
	102 tert-Butylbenzene	119	22.875	22.875	(0.975)	6011249	200.000	189.2
	103 1,2,4-Trimethylbenzene	105	23.008	23.008	(0.981)	6780808	200.000	182.7
	104 sec-Butylbenzene	105	23.214	23.214	(0.990)	9354123	200.000	185.4
	105 1,3-Dichlorobenzene	146	23.407	23.407	(0.998)	3382183	200.000	176.3
*	106 1,4-Dichlorobenzene-d4	152	23.451	23.451	(1.000)	239320	30.0000	
	108 1,4-Dichlorobenzene	146	23.481	23.481	(1.001)	4018676	200.000	200.8(M)
	107 p-Isopropyltoluene	119	23.436	23.436	(0.999)	7065952	200.000	183.5
	109 1,2-Dichlorobenzene	146	24.072	24.072	(1.026)	3269154	200.000	188.9
	110 n-Butylbenzene	91	24.072	24.072	(1.026)	7280251	200.000	178.2
	111 1,2-Dibromo-3-chloropropane	157	24.782	24.782	(1.057)	528768	200.000	203.4(A)
	112 1,2,4-Trichlorobenzene	180	27.014	27.014	(1.152)	2139165	200.000	185.8
	113 Naphthalene	128	27.473	27.473	(1.172)	5629919	200.000	177.8
	114 Hexachlorobutadiene	225	27.518	27.518	(1.173)	1140885	200.000	182.2
	115 1,2,3-Trichlorobenzene	180	27.873	27.873	(1.189)	1916569	200.000	181.3

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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Date : 09-JUN-2006 11:48
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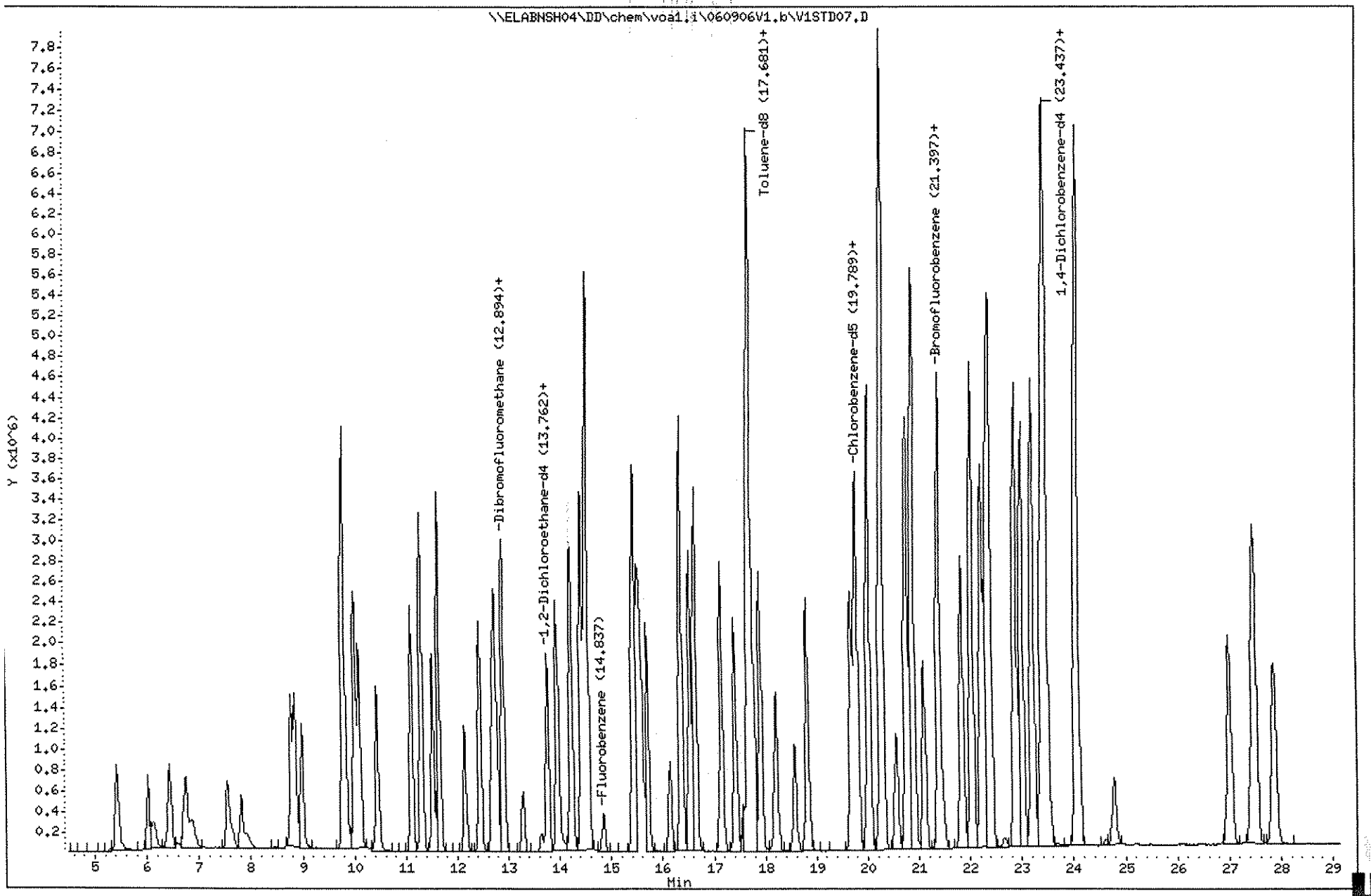
Sample Info: V1STD200ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000066



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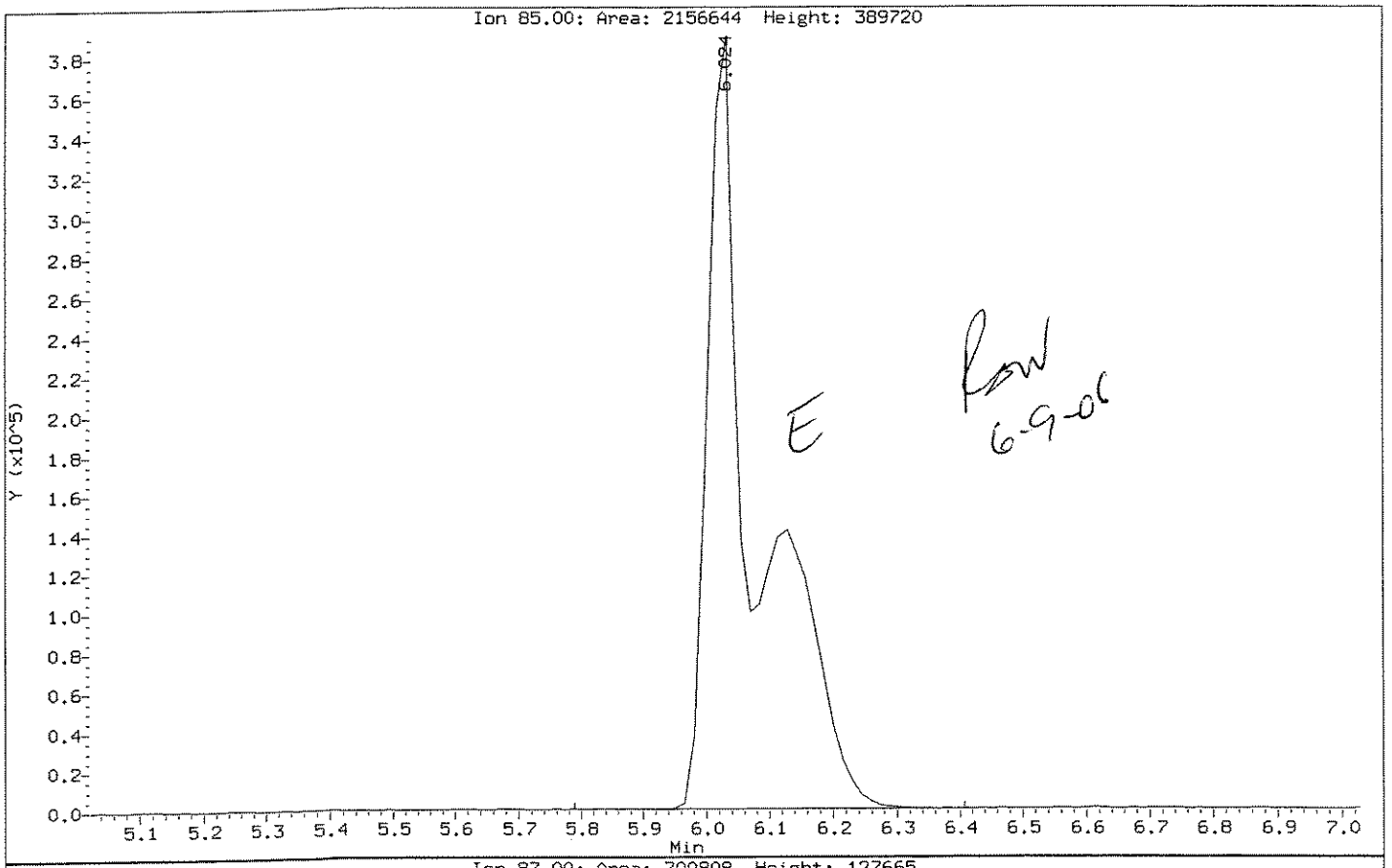
Injection Date: 09-JUN-2006 11:48
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



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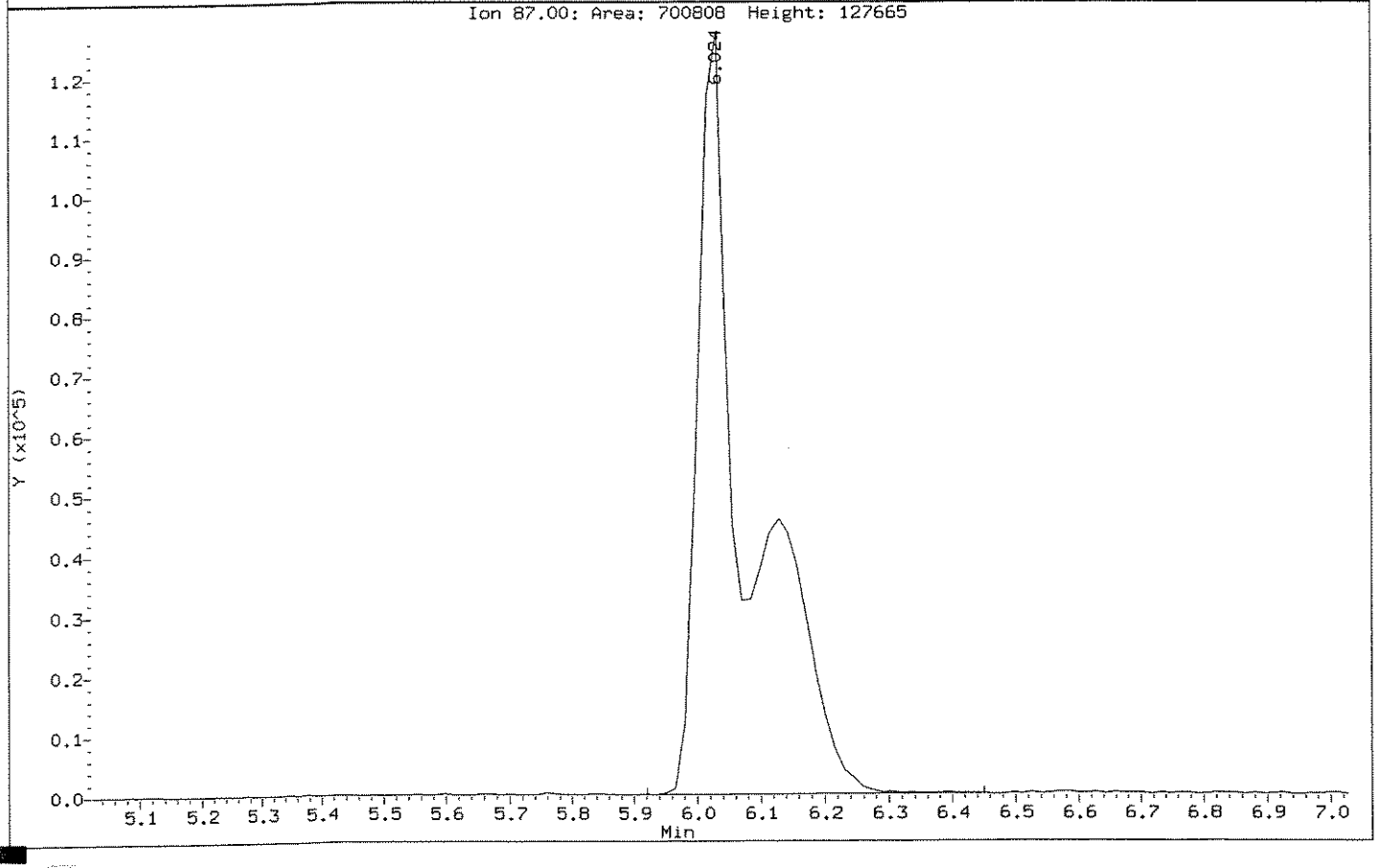
6-9-06



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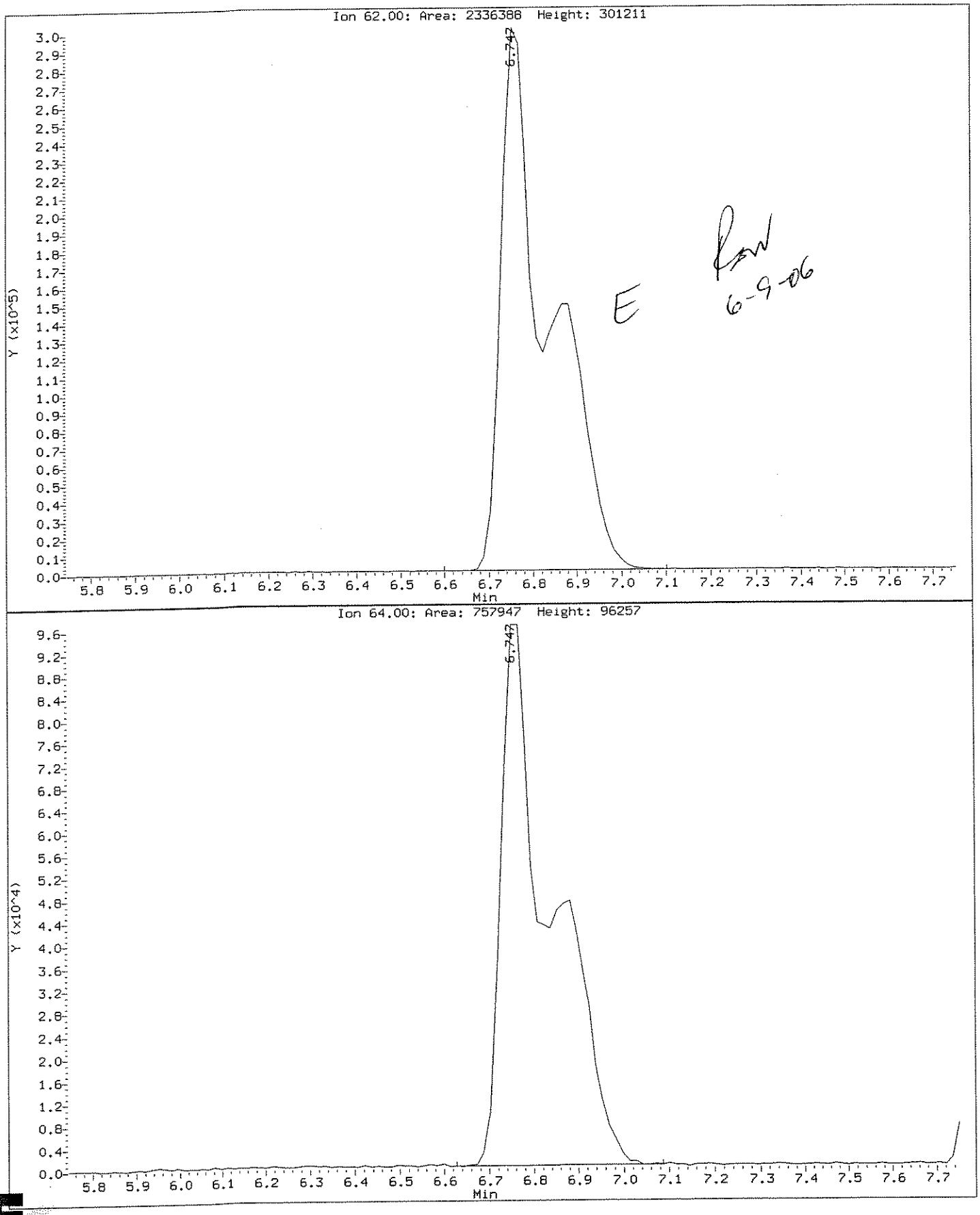
Injection Date: 09-JUN-2006 11:48
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Vinyl chloride
CAS Number: 75-01-4



E RW 6-9-06

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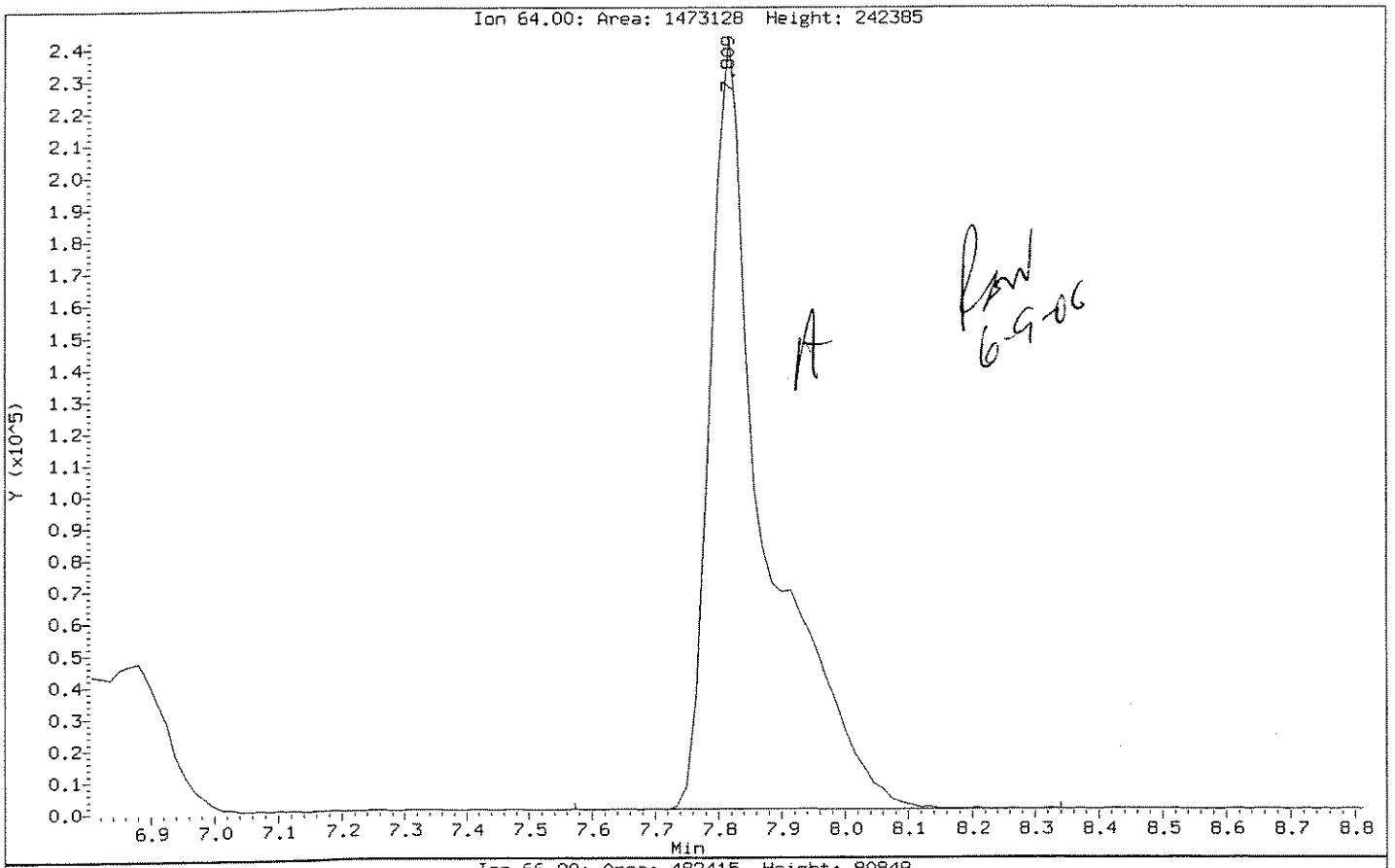
Injection Date: 09-JUN-2006 11:48
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Chloroethane
CAS Number: 75-00-3



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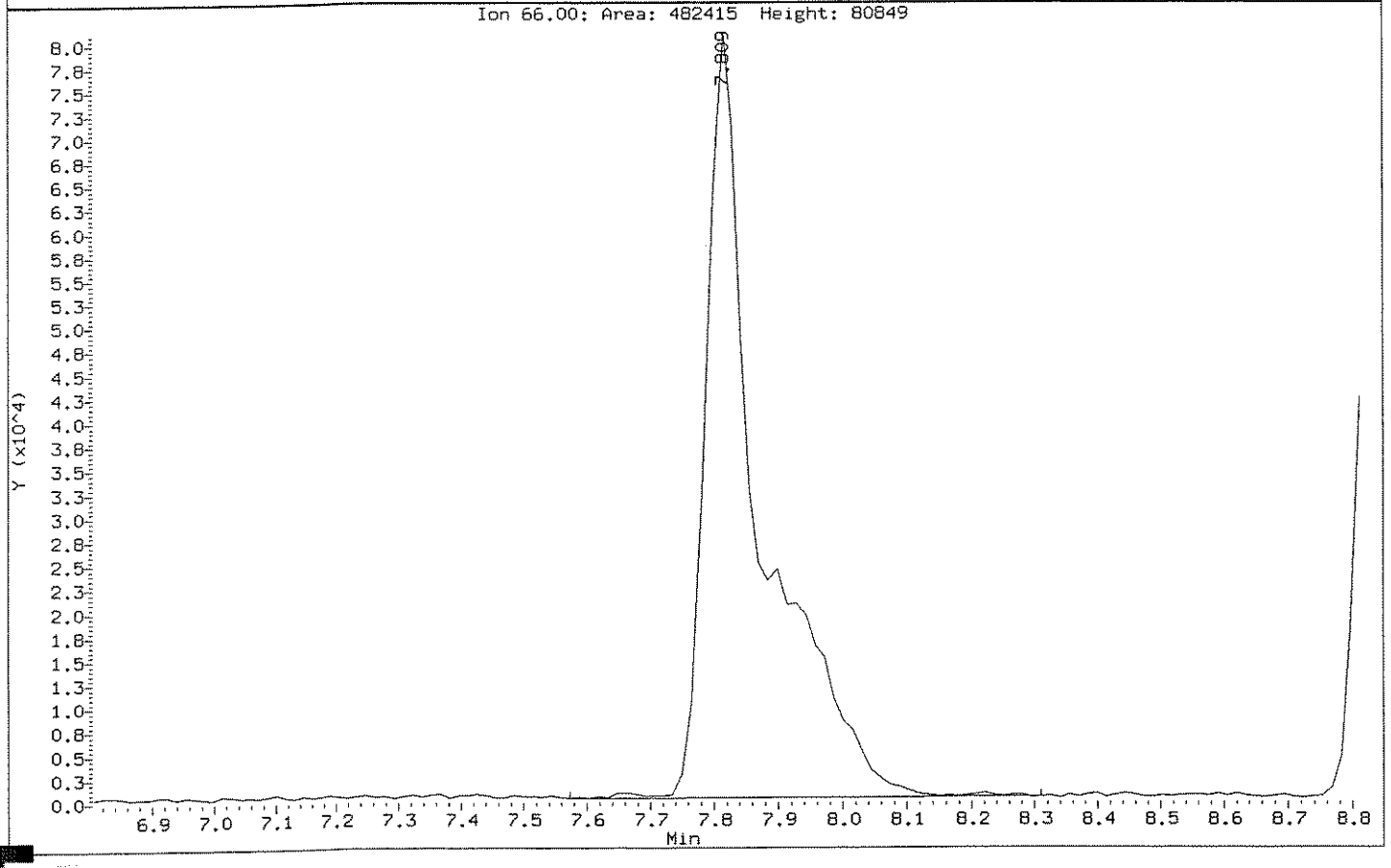
6-9-06



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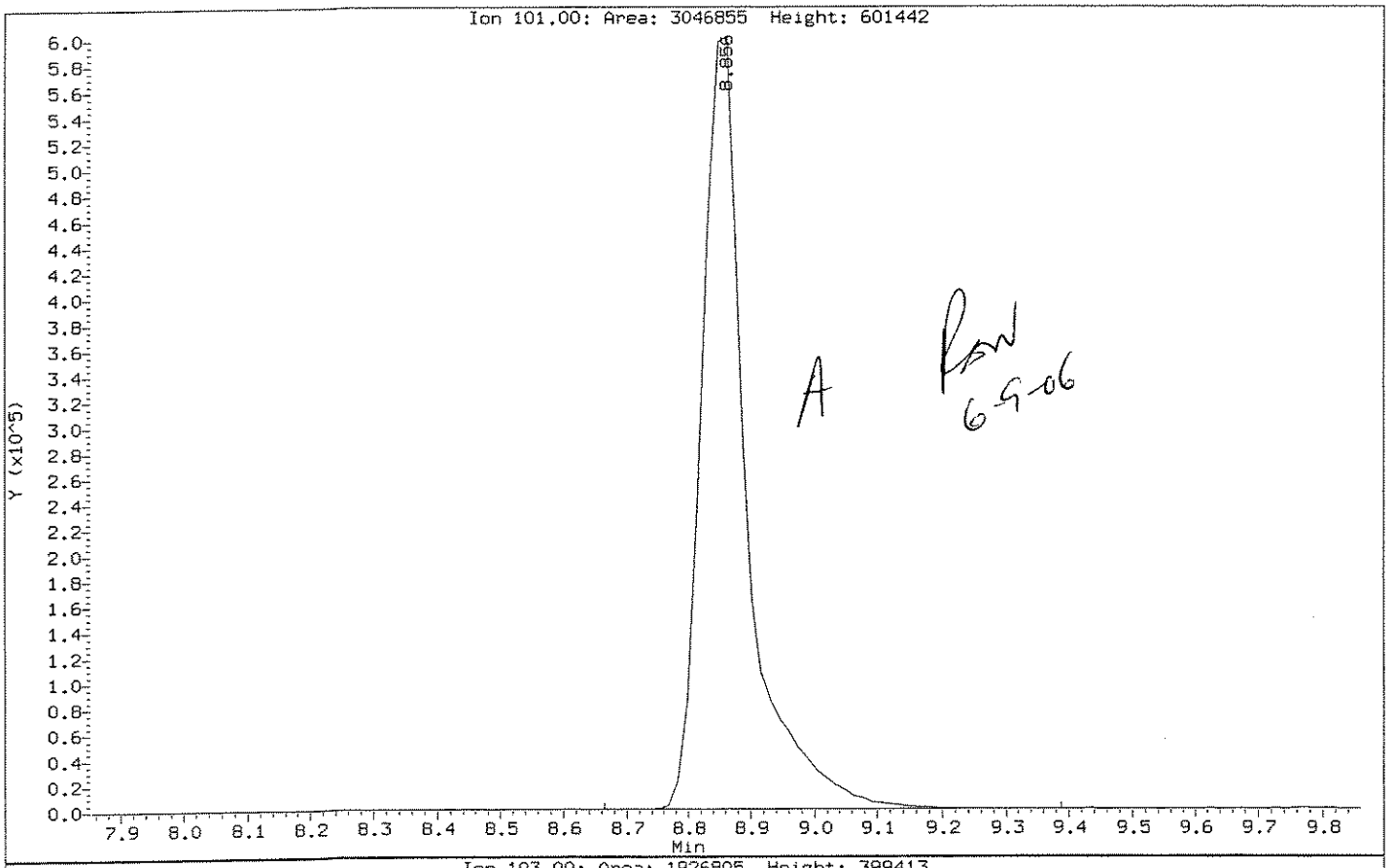
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Trichlorofluoromethane
CAS Number: 75-69-4



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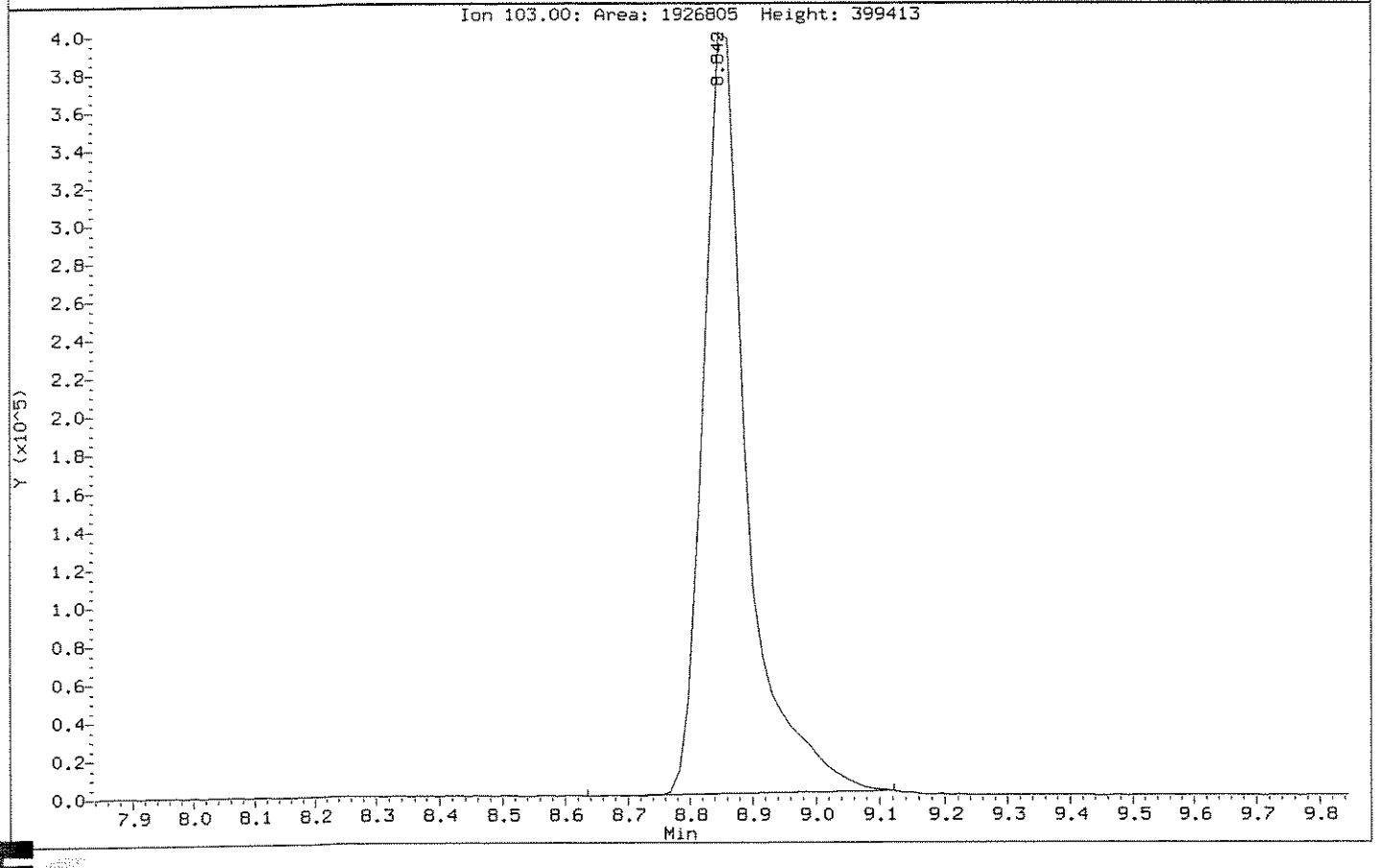

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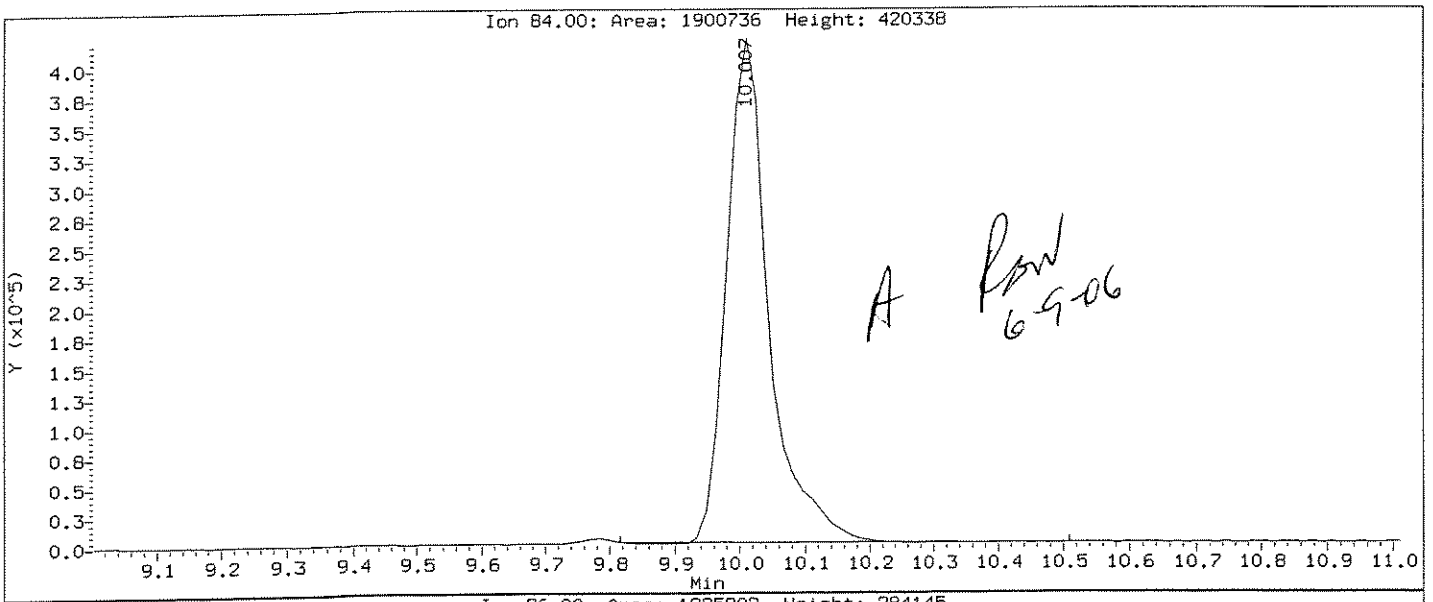
Injection Date: 09-JUN-2006 11:48
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Methylene chloride
CAS Number: 75-09-2



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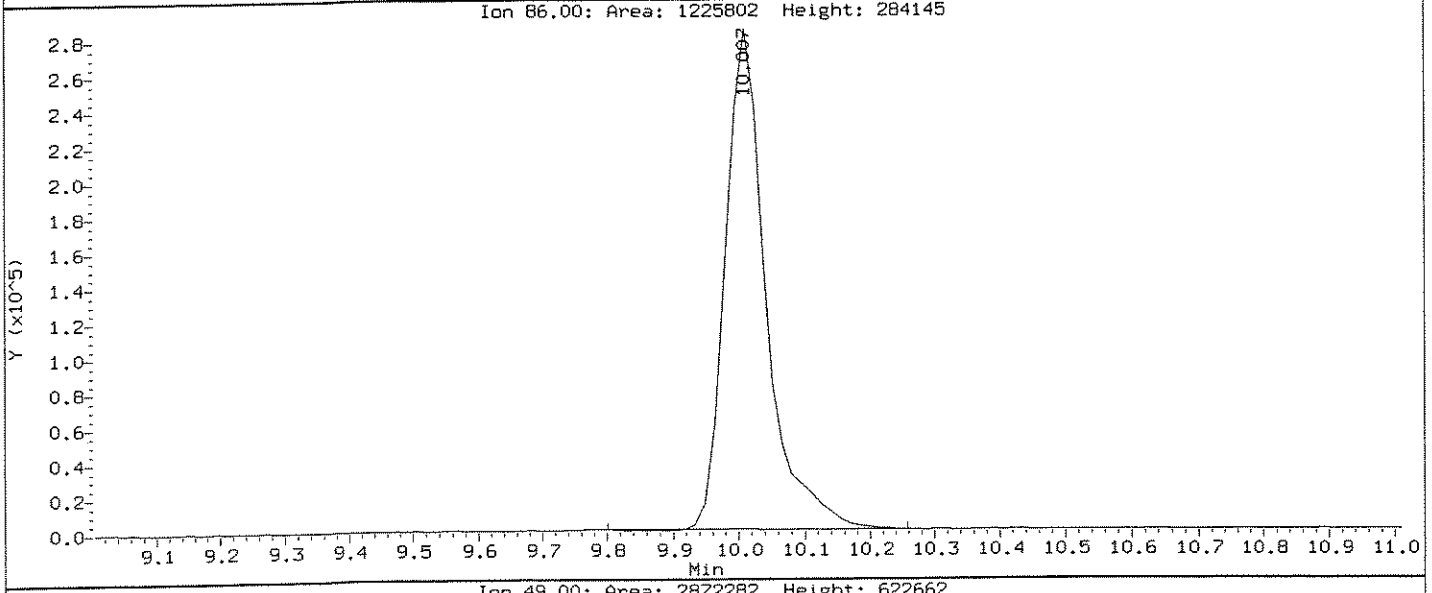

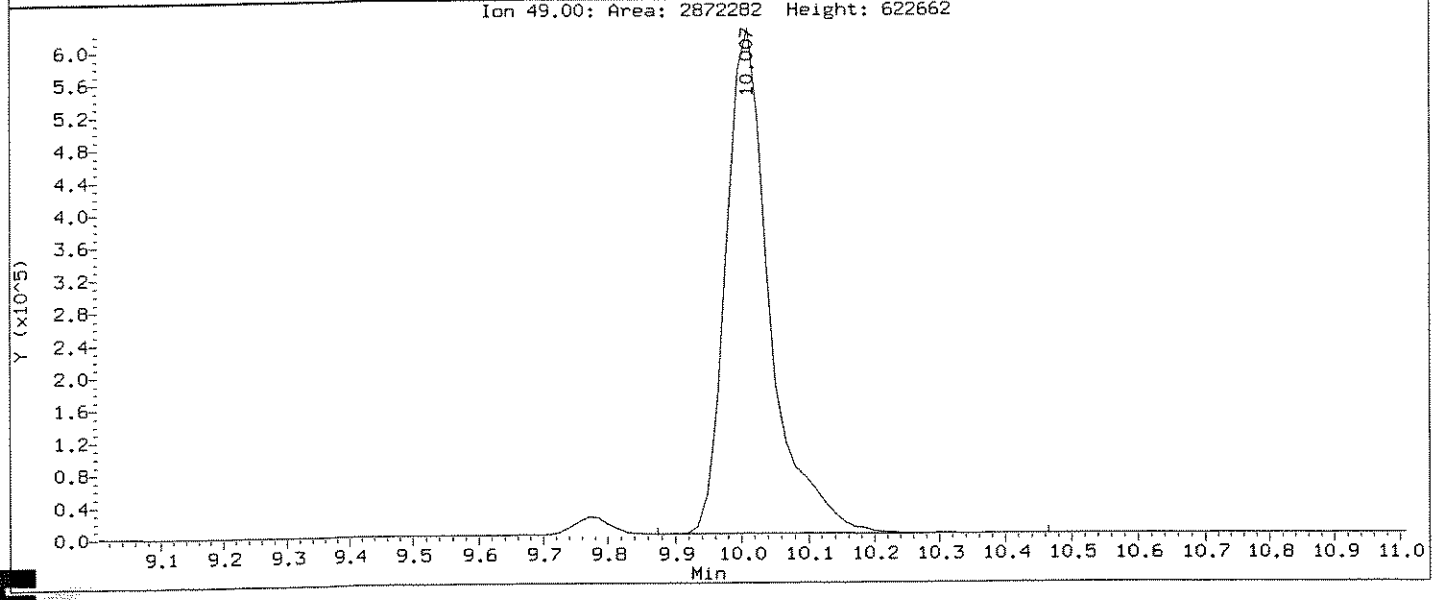

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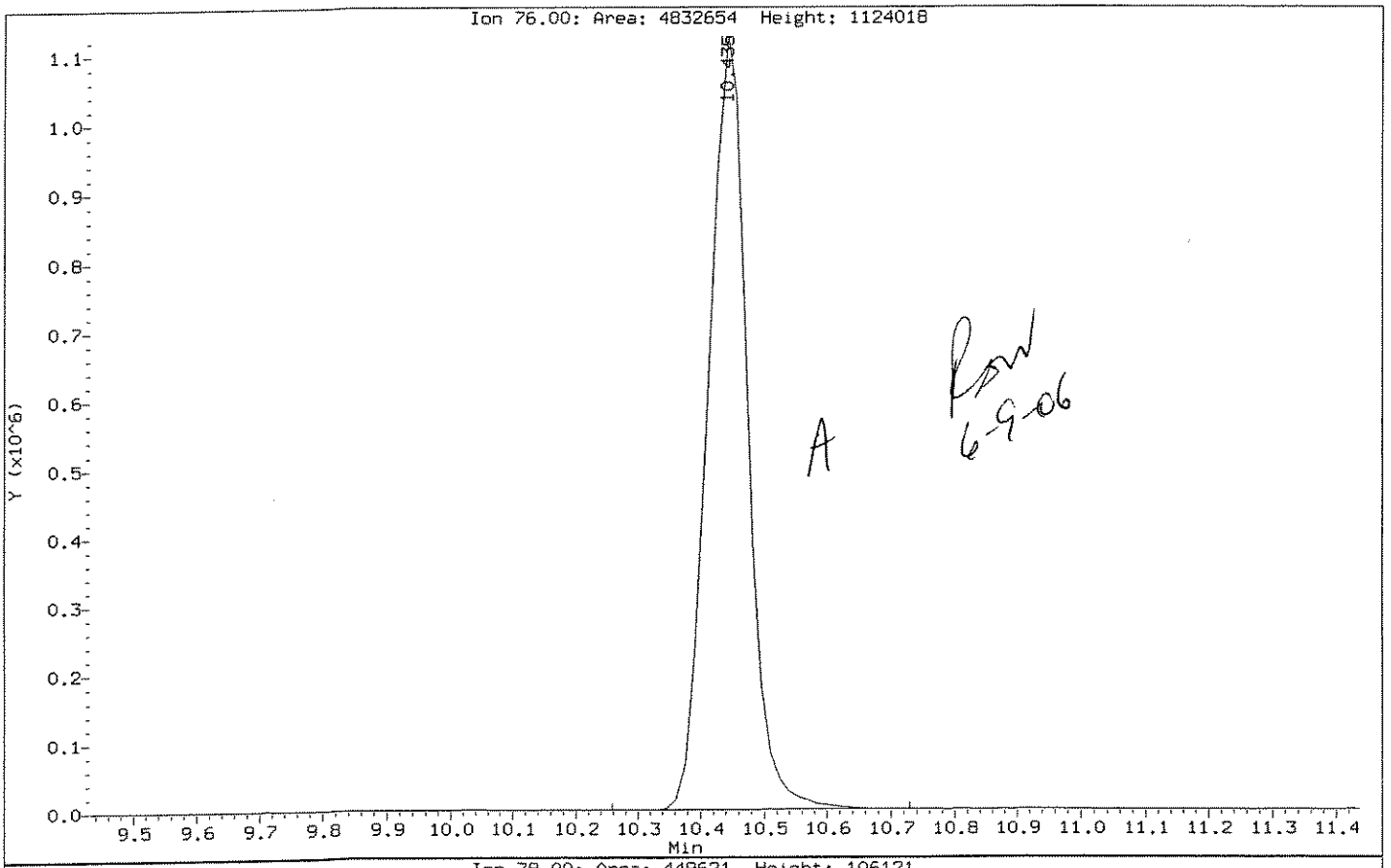
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: Carbon disulfide
CAS Number: 75-15-0



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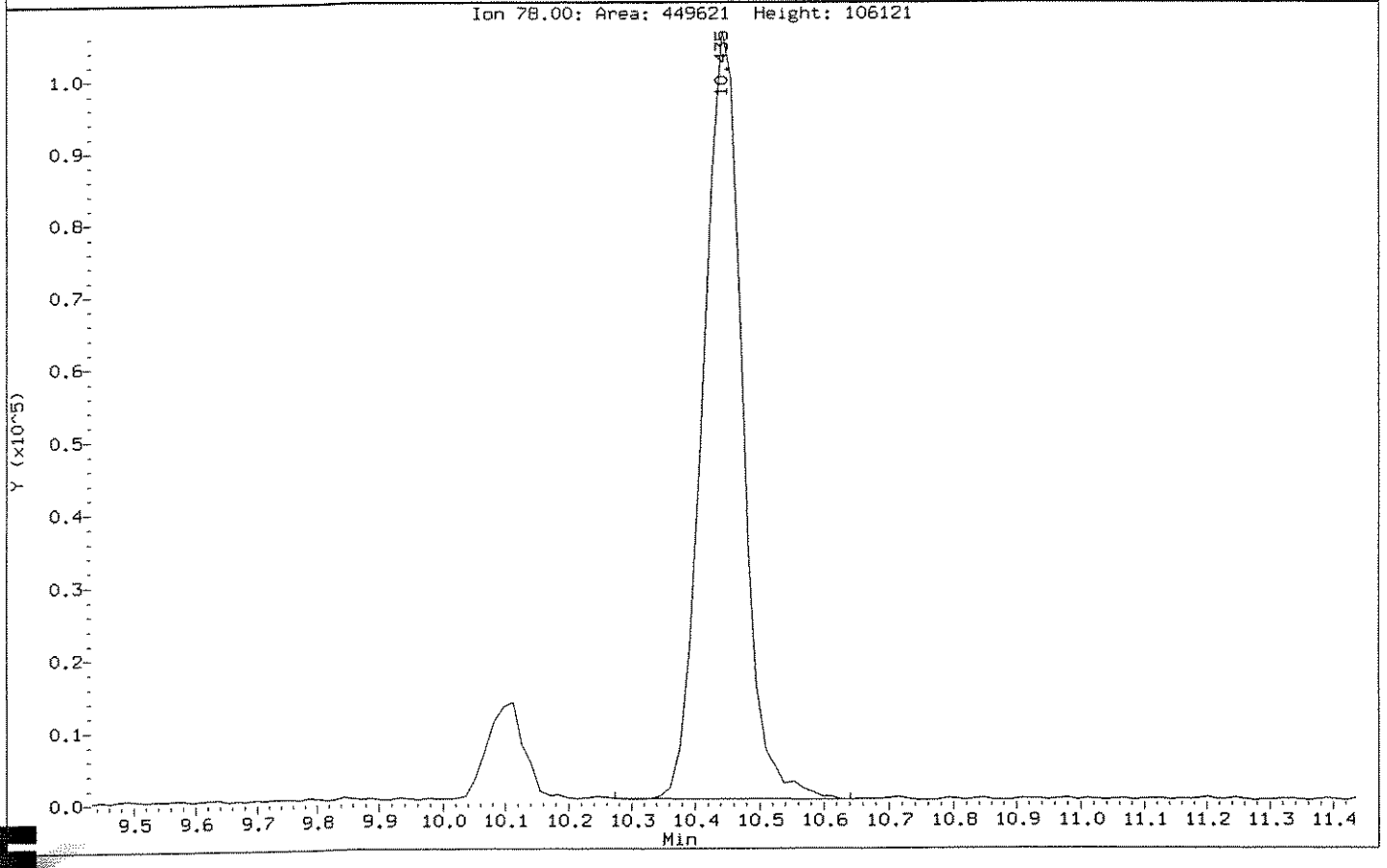
RAW
6-9-06



Empirical Laboratories

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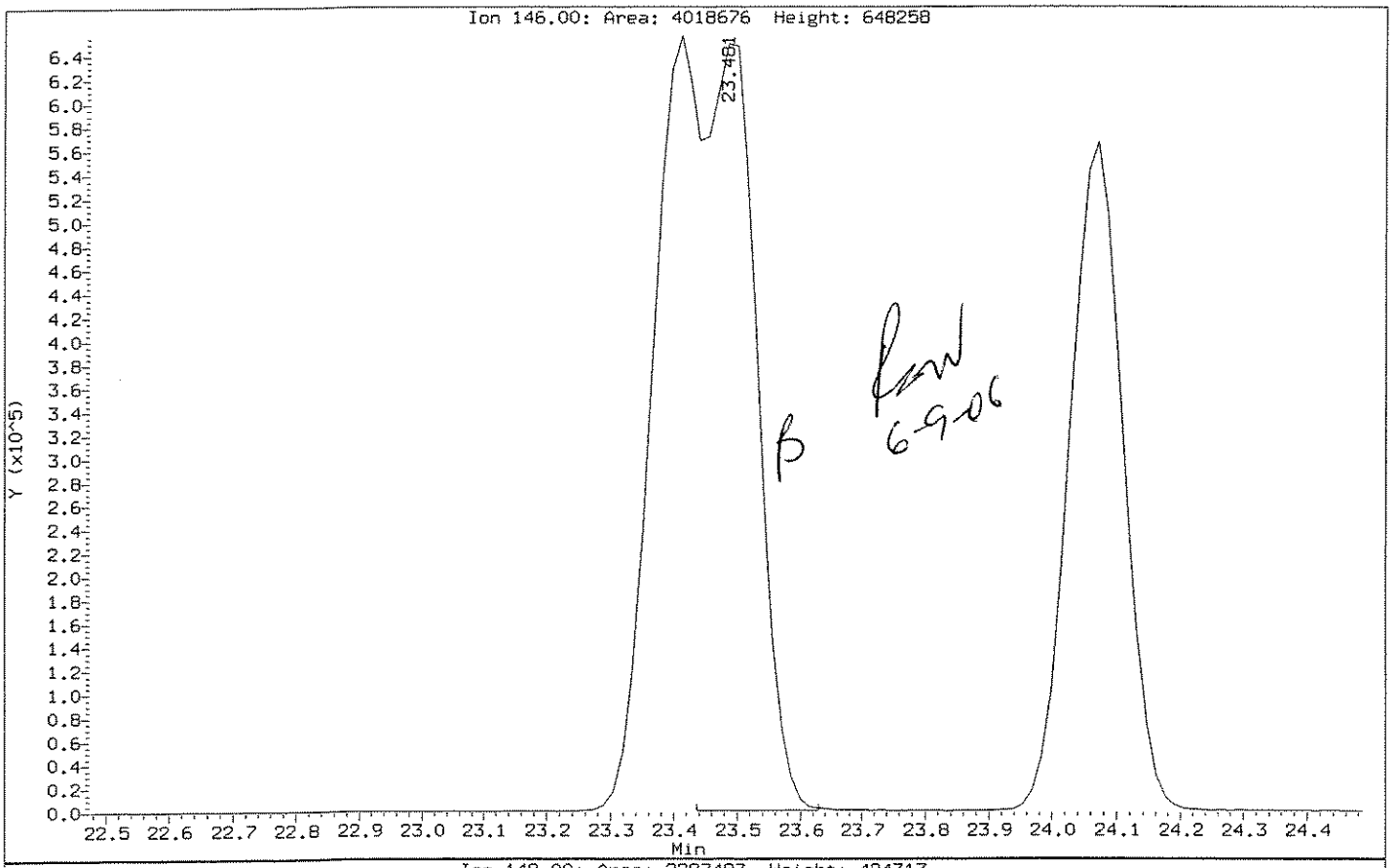
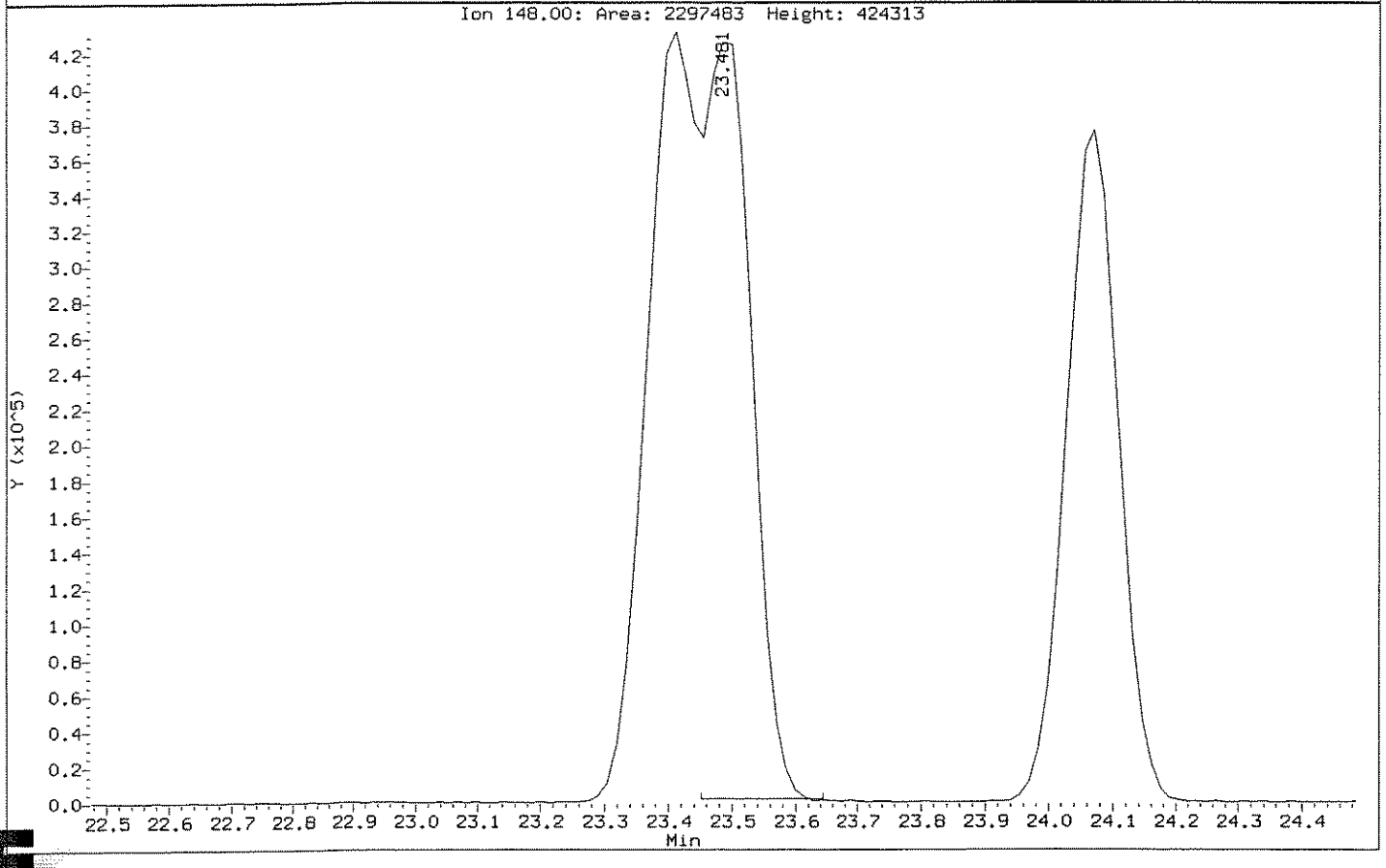
Injection Date: 09-JUN-2006 11:48
Instrument: voa1.i
Client Sample ID: V1STD200ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





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Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD06.D
Report Date: 09-Jun-2006 16:23

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD06.D
Lab Smp Id: V1STD100ppb Client Smp ID: V1STD100ppb
Inj Date : 09-JUN-2006 12:24 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD100ppb;;;;;
Misc Info : ;1;;;6;gm-all.sub;#4894,4917
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\VSOIL1.m
Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.842	14.842	(1.000)	651483	30.0000	
1 Dichlorodifluoromethane	85	6.009	6.009	(0.405)	1093326	100.000	97.93(M)
4 Chloromethane	50	6.437	6.437	(0.434)	1374697	100.000	90.78
5 Vinyl chloride	62	6.762	6.762	(0.456)	1316563	100.000	99.86(M)
6 Bromomethane	94	7.544	7.544	(0.508)	660898	100.000	105.6
7 Chloroethane	64	7.810	7.810	(0.526)	851788	100.000	104.5
9 Trichlorofluoromethane	101	8.843	8.843	(0.596)	1651544	100.000	97.80
21 Trichlorotrifluoroethane	101	10.098	10.098	(0.680)	888407	100.000	102.4
8 Acrolein	56	8.769	8.769	(0.591)	1305217	500.000	521.5
12 Acetone	43	8.991	8.991	(0.606)	1356801	200.000	182.0
15 1,1-Dichloroethene	96	9.774	9.774	(0.659)	849329	100.000	100.8
16 Iodomethane	142	9.833	9.833	(0.662)	936505	100.000	102.6
17 Acrylonitrile	53	9.788	9.788	(0.660)	1734139	500.000	494.4
20 Methylene chloride	84	9.995	9.995	(0.673)	1274486	100.000	102.6
25 Carbon disulfide	76	10.437	10.437	(0.703)	3054993	100.000	103.1

6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD06.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.100	11.100	(0.748)	1009476	100.000	102.4
	29 MTBE	73	11.292	11.292	(0.761)	3153450	100.000	92.38
	30 1,1-Dichloroethane	63	11.513	11.513	(0.776)	2110362	100.000	98.12
	32 Vinyl acetate	43	11.631	11.631	(0.784)	5744541	200.000	197.5
	35 2-Butanone	43	12.146	12.146	(0.818)	1567607	200.000	183.3
	38 cis-1,2-Dichloroethene	96	12.441	12.441	(0.838)	1061260	100.000	98.06
M	18 1,2-Dichloroethene(total)	96				2070736	200.000	200.3
	41 Bromochloromethane	128	12.691	12.691	(0.855)	498657	100.000	96.14
	42 Chloroform	83	12.750	12.750	(0.859)	1950083	100.000	91.49
	43 2,2-Dichloropropane	77	12.883	12.883	(0.868)	1841145	100.000	95.56
$	44 Dibromofluoromethane	111	12.927	12.927	(0.871)	184787	30.0000	28.84
	22 Methyl acetate	43	10.024	10.024	(0.675)	873644	100.000	105.3
	47 Tetrahydrofuran	42	13.266	13.266	(0.894)	379840	100.000	89.97
	52 Cyclohexane	56	14.429	14.429	(0.972)	1834789	100.000	94.21
$	48 1,2-Dichloroethane-d4	102	13.634	13.634	(0.919)	46157	30.0000	28.86
	49 1,2-Dichloroethane	62	13.752	13.752	(0.927)	1818790	100.000	94.28
	50 1,1,1-Trichloroethane	97	13.943	13.943	(0.939)	1637866	100.000	96.55
	51 1,1-Dichloropropene	75	14.223	14.223	(0.958)	1554105	100.000	98.02
	53 Carbon tetrachloride	117	14.518	14.518	(0.978)	1244611	100.000	109.2
	54 Benzene	78	14.532	14.532	(0.979)	3731011	100.000	97.03
	58 Dibromomethane	93	15.416	15.416	(1.039)	675414	100.000	93.34
	59 1,2-Dichloropropane	63	15.446	15.446	(1.041)	1099254	100.000	94.71
	60 Trichloroethene	95	15.519	15.519	(1.046)	1032253	100.000	94.60
	61 Bromodichloromethane	83	15.578	15.578	(1.050)	1508333	100.000	97.04
	62 Methyl methacrylate	41	15.696	15.696	(1.058)	1294103	100.000	92.00
	68 cis-1,3-Dichloropropene	75	16.521	16.521	(1.113)	1866323	100.000	96.04
	70 4-Methyl-2-pentanone	43	16.639	16.639	(1.121)	2786036	200.000	185.0
	71 trans-1,3-Dichloropropene	75	17.140	17.140	(0.869)	1804347	100.000	89.98
	72 1,1,2-Trichloroethane	83	17.406	17.406	(0.882)	741762	100.000	90.46
$	73 Toluene-d8	98	17.568	17.568	(0.890)	601072	30.0000	28.22
	74 Toluene	92	17.686	17.686	(0.896)	2273057	100.000	91.11
	76 1,3-Dichloropropane	76	17.759	17.759	(0.900)	1717901	100.000	91.44
	75 Ethyl methacrylate	69	17.671	17.671	(0.895)	1494729	100.000	90.47
	77 2-Hexanone	43	17.907	17.907	(0.907)	2168990	200.000	169.8
	78 Dibromochloromethane	129	18.202	18.202	(0.922)	974713	100.000	93.82
	79 1,2-Dibromoethane	107	18.570	18.570	(0.941)	932446	100.000	90.52
	65 Methyl cyclohexane	83	16.359	16.359	(1.102)	1696551	100.000	99.00
	80 Tetrachloroethene	166	18.821	18.821	(0.954)	885700	100.000	95.92
	81 1,1,1,2-Tetrachloroethane	131	19.676	19.676	(0.997)	903915	100.000	93.26
*	82 Chlorobenzene-d5	82	19.735	19.735	(1.000)	364776	30.0000	
	83 Chlorobenzene	112	19.794	19.794	(1.003)	2357626	100.000	91.94
	87 Bromoform	173	20.561	20.561	(0.877)	642784	100.000	103.1
	84 Ethylbenzene	91	20.015	20.015	(1.014)	4504975	100.000	91.37
	85 m,p-Xylene	91	20.266	20.266	(1.027)	6679026	200.000	205.4
M	91 Xylene(total)	91				10180594	100.000	459.1
	89 o-Xylene	91	20.871	20.871	(1.058)	3501568	100.000	101.6
	88 Styrene	104	20.753	20.753	(1.052)	2797871	100.000	91.15

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD06.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.901	20.901	(0.892)	1166419	100.000	92.87
	92 1,2,3-Trichloropropane	110	21.092	21.092	(1.069)	374269	100.000	85.96
	94 Isopropylbenzene	105	21.388	21.388	(1.084)	4133418	100.000	91.07
$	95 Bromofluorobenzene	95	21.476	21.476	(1.088)	282452	30.0000	27.88
	96 Bromobenzene	156	21.846	21.846	(0.932)	934839	100.000	97.69
	97 n-Propylbenzene	91	22.023	22.023	(0.939)	5385298	100.000	98.56
	98 2-Chlorotoluene	91	22.230	22.230	(0.948)	3707283	100.000	102.7
	99 4-Chlorotoluene	91	22.333	22.333	(0.953)	3894236	100.000	96.54
	100 1,3,5-Trimethylbenzene	105	22.392	22.392	(0.955)	3349266	100.000	97.28
	102 tert-Butylbenzene	119	22.880	22.880	(0.976)	2997831	100.000	99.35
	103 1,2,4-Trimethylbenzene	105	23.013	23.013	(0.982)	3421222	100.000	97.07
	104 sec-Butylbenzene	105	23.205	23.205	(0.990)	4699540	100.000	98.05
	105 1,3-Dichlorobenzene	146	23.397	23.397	(0.998)	1822840	100.000	100.0
*	106 1,4-Dichlorobenzene-d4	152	23.442	23.442	(1.000)	227309	30.0000	
	108 1,4-Dichlorobenzene	146	23.486	23.486	(1.002)	1828179	100.000	96.18(M)
	107 p-Isopropyltoluene	119	23.427	23.427	(0.999)	3547504	100.000	97.00
	109 1,2-Dichlorobenzene	146	24.063	24.063	(1.026)	1622206	100.000	98.71
	110 n-Butylbenzene	91	24.063	24.063	(1.026)	3741485	100.000	96.44
	111 1,2-Dibromo-3-chloropropane	157	24.772	24.772	(1.057)	231677	100.000	93.80
	112 1,2,4-Trichlorobenzene	180	27.005	27.005	(1.152)	1048406	100.000	95.86
	113 Naphthalene	128	27.464	27.464	(1.172)	2682641	100.000	89.22
	114 Hexachlorobutadiene	225	27.508	27.508	(1.173)	589412	100.000	99.10
	115 1,2,3-Trichlorobenzene	180	27.878	27.878	(1.189)	942720	100.000	93.88

QC Flag Legend

M - Compound response manually integrated.

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Sample Info: V1STD100ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

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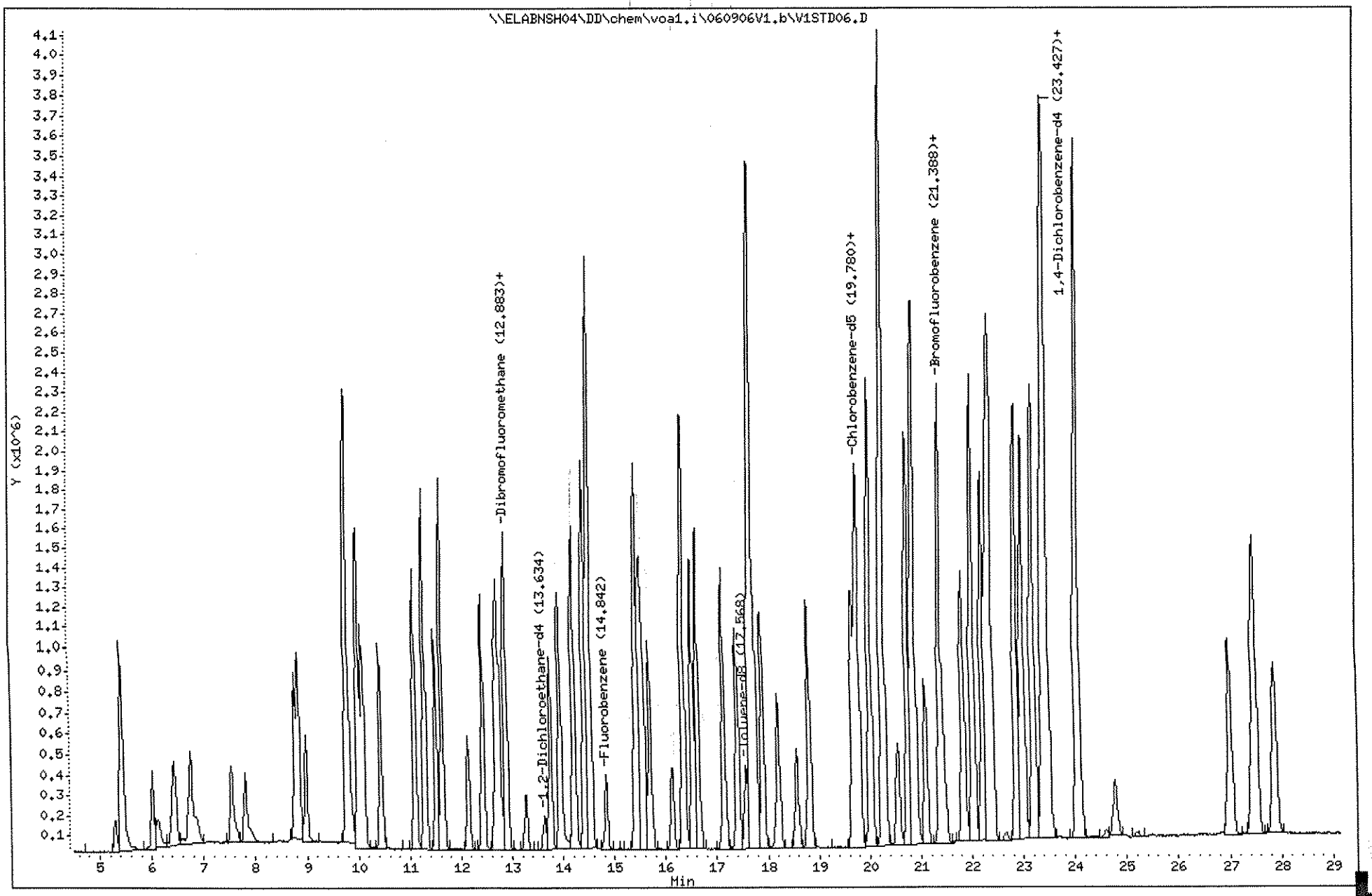

Empirical Laboratories

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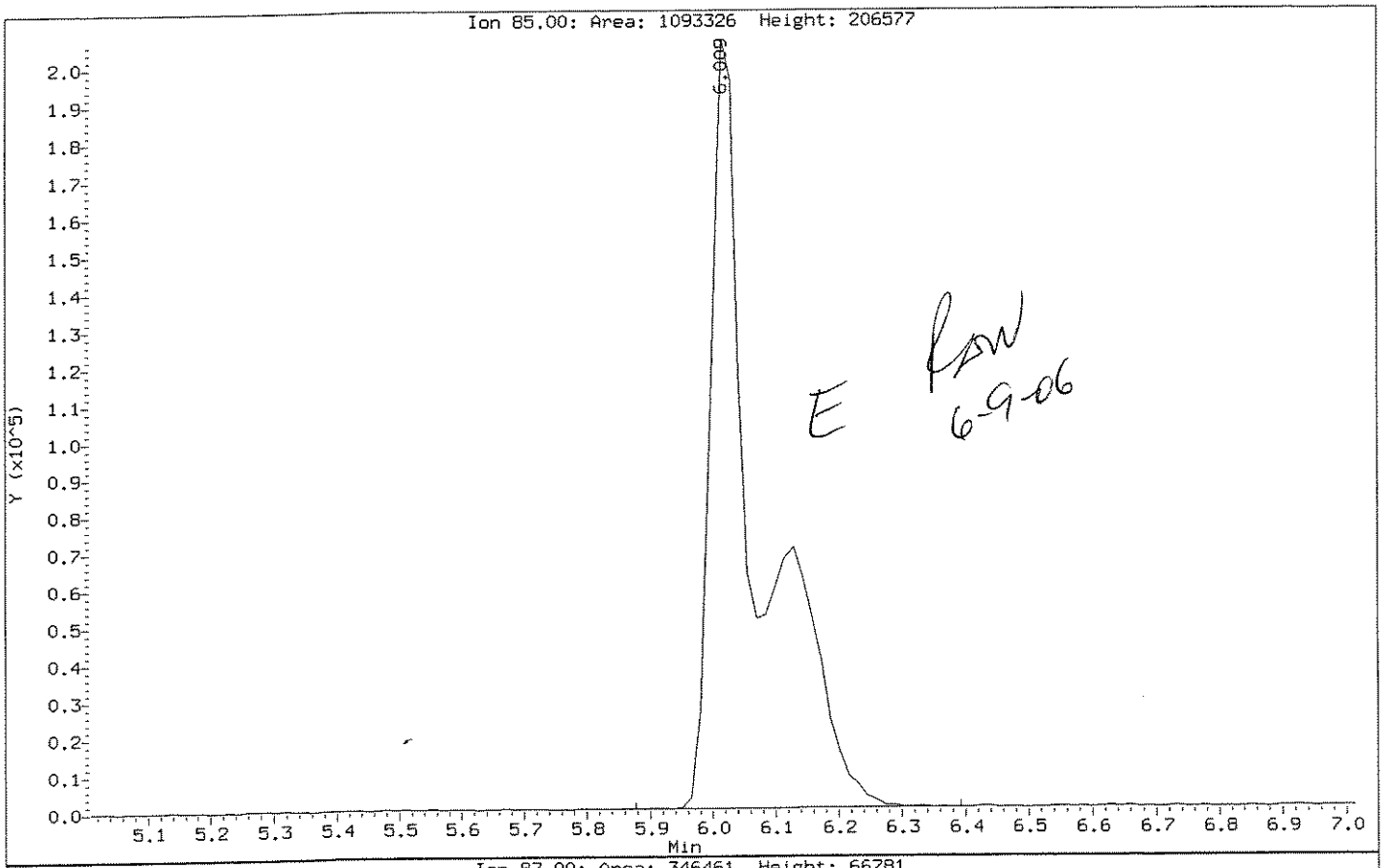
Injection Date: 09-JUN-2006 12:24
Instrument: voa1.i
Client Sample ID: V1STD100ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



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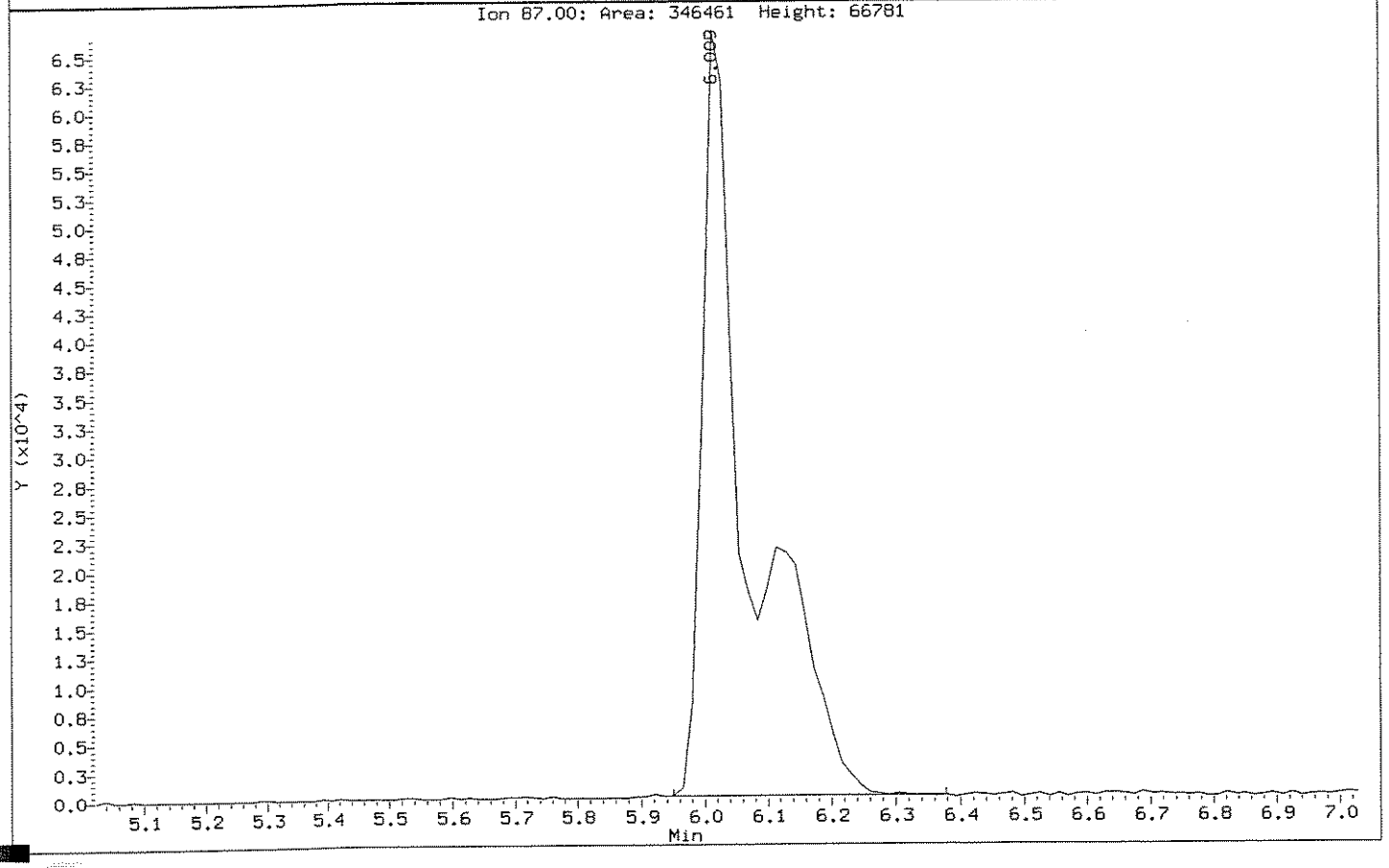

Empirical Laboratories

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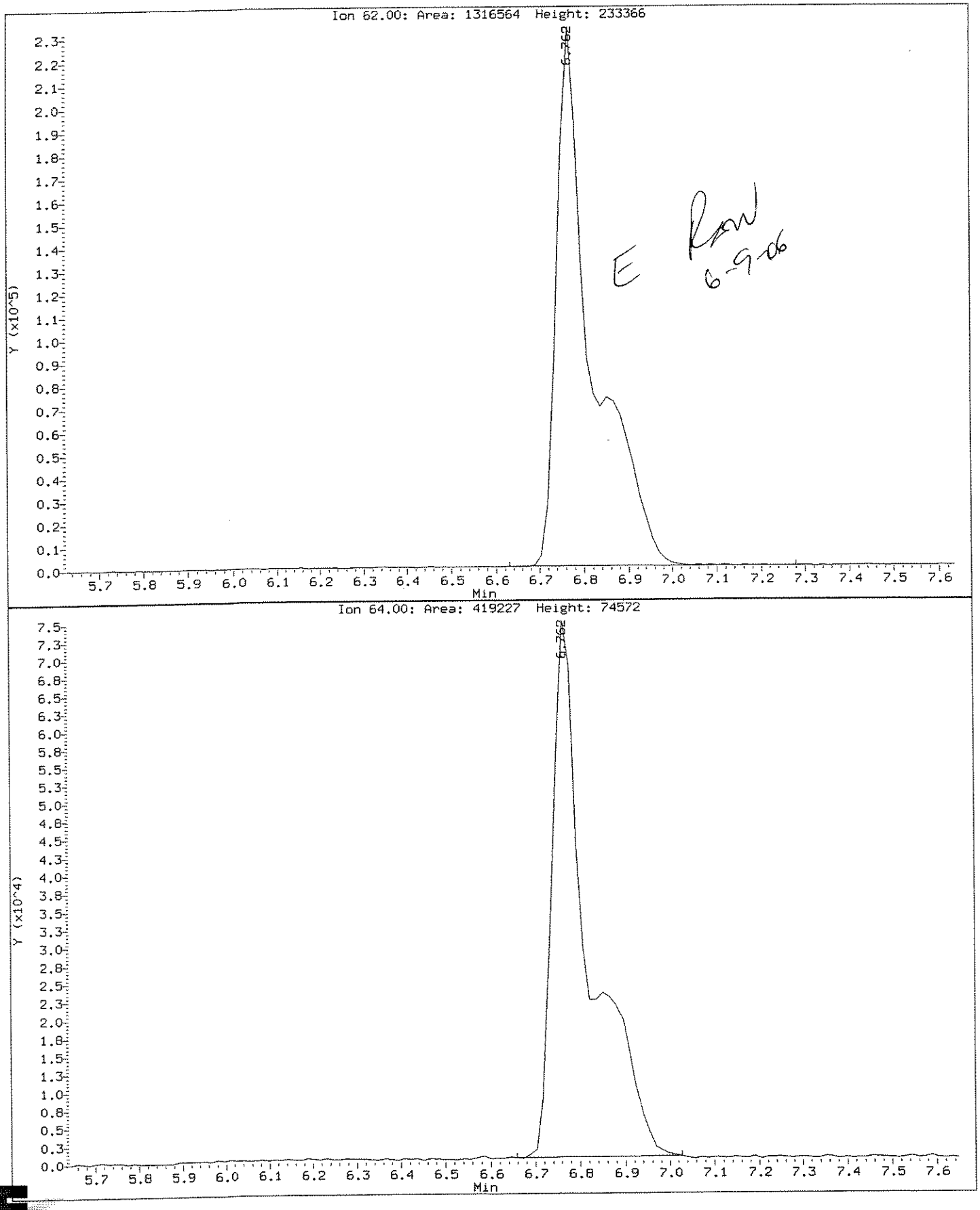
Injection Date: 09-JUN-2006 12:24
Instrument: voa1.i
Client Sample ID: V1STD100ppb

Compound: Vinyl chloride
CAS Number: 75-01-4



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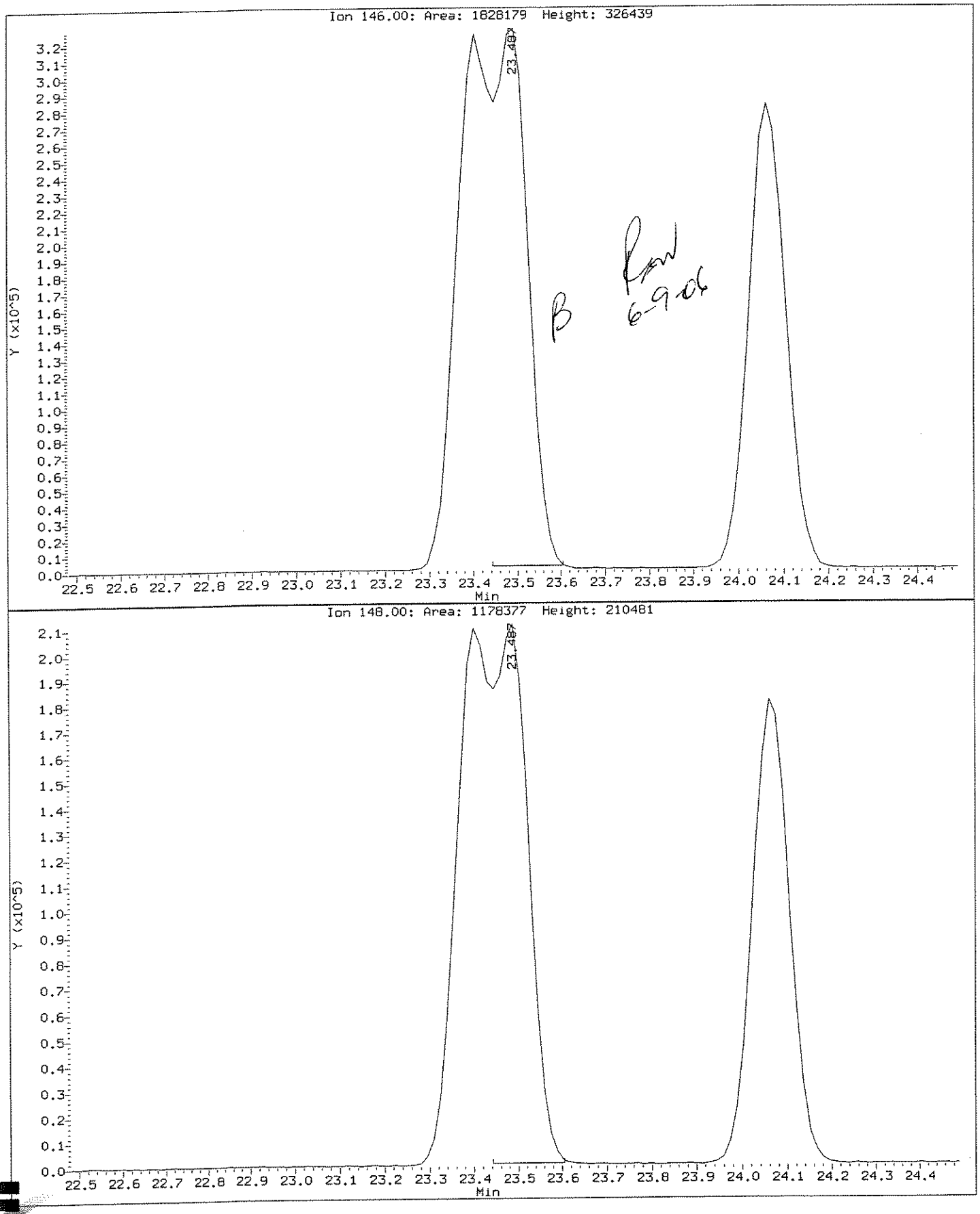
Injection Date: 09-JUN-2006 12:24
Instrument: voa1.i
Client Sample ID: V1STD100ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



B RAW 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD05.D
Report Date: 09-Jun-2006 16:23

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD05.D
Lab Smp Id: V1STD50ppb
Inj Date : 09-JUN-2006 13:00 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD50ppb;;;;;
Misc Info : ;1;;;5;gm-all.sub;#4894,4917
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\VSOIL1.m
Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000 Compound Sublist: gm-all.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.841	14.841	(1.000)	626724	30.0000	
1 Dichlorodifluoromethane	85	6.009	6.009	(0.405)	553267	50.0000	51.52(M)
4 Chloromethane	50	6.437	6.437	(0.434)	714827	50.0000	49.07
5 Vinyl chloride	62	6.762	6.762	(0.456)	657123	50.0000	51.81(M)
6 Bromomethane	94	7.544	7.544	(0.508)	304787	50.0000	50.63
7 Chloroethane	64	7.810	7.810	(0.526)	416492	50.0000	53.11
9 Trichlorofluoromethane	101	8.844	8.844	(0.596)	829513	50.0000	51.06
21 Trichlorotrifluoroethane	101	10.098	10.098	(0.680)	438137	50.0000	52.52
8 Acrolein	56	8.770	8.770	(0.591)	642944	250.000	267.0
12 Acetone	43	8.991	8.991	(0.606)	679532	100.000	95.28
15 1,1-Dichloroethene	96	9.774	9.774	(0.659)	425240	50.0000	52.48
16 Iodomethane	142	9.833	9.833	(0.663)	413449	50.0000	47.09
17 Acrylonitrile	53	9.788	9.788	(0.660)	876544	250.000	259.8
20 Methylene chloride	84	9.995	9.995	(0.673)	722232	50.0000	47.52
25 Carbon disulfide	76	10.437	10.437	(0.703)	1529430	50.0000	53.64

RW 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD05.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.100	11.100	(0.748)	498640	50.0000	52.58
	29 MTBE	73	11.292	11.292	(0.761)	1622888	50.0000	49.42
	30 1,1-Dichloroethane	63	11.513	11.513	(0.776)	1075043	50.0000	51.96
	32 Vinyl acetate	43	11.630	11.630	(0.784)	2955218	100.000	105.6
	35 2-Butanone	43	12.146	12.146	(0.818)	788098	100.000	95.77
	38 cis-1,2-Dichloroethene	96	12.440	12.440	(0.838)	532525	50.0000	51.15
M	18 1,2-Dichloroethene(total)	96				1031165	100.000	103.7
	41 Bromochloromethane	128	12.691	12.691	(0.855)	250715	50.0000	50.25
	42 Chloroform	83	12.750	12.750	(0.859)	1004793	50.0000	49.00
	43 2,2-Dichloropropane	77	12.897	12.897	(0.869)	939004	50.0000	50.66
$	44 Dibromofluoromethane	111	12.941	12.941	(0.872)	180454	30.0000	29.28
	22 Methyl acetate	43	10.025	10.025	(0.675)	442818	50.0000	55.49
	47 Tetrahydrofuran	42	13.280	13.280	(0.895)	189753	50.0000	46.72
	52 Cyclohexane	56	14.429	14.429	(0.972)	927238	50.0000	49.49
$	48 1,2-Dichloroethane-d4	102	13.633	13.633	(0.919)	48481	30.0000	31.51
	49 1,2-Dichloroethane	62	13.751	13.751	(0.927)	947133	50.0000	51.04
	50 1,1,1-Trichloroethane	97	13.943	13.943	(0.939)	831907	50.0000	50.98
	51 1,1-Dichloropropene	75	14.223	14.223	(0.958)	791993	50.0000	51.92
	53 Carbon tetrachloride	117	14.517	14.517	(0.978)	597743	50.0000	54.54
	54 Benzene	78	14.532	14.532	(0.979)	1900755	50.0000	51.38
	58 Dibromomethane	93	15.416	15.416	(1.039)	345080	50.0000	49.57
	59 1,2-Dichloropropane	63	15.445	15.445	(1.041)	561666	50.0000	50.30
	60 Trichloroethene	95	15.519	15.519	(1.046)	519343	50.0000	49.47
	61 Bromodichloromethane	83	15.593	15.593	(1.051)	759871	50.0000	50.82
	62 Methyl methacrylate	41	15.696	15.696	(1.058)	662532	50.0000	48.96
	68 cis-1,3-Dichloropropene	75	16.535	16.535	(1.114)	942988	50.0000	50.44
	70 4-Methyl-2-pentanone	43	16.638	16.638	(1.121)	1427460	100.000	98.53
	71 trans-1,3-Dichloropropene	75	17.139	17.139	(0.869)	935043	50.0000	51.32
	72 1,1,2-Trichloroethane	83	17.404	17.404	(0.882)	377243	50.0000	50.63
$	73 Toluene-d8	98	17.567	17.567	(0.890)	576214	30.0000	29.77
	74 Toluene	92	17.684	17.684	(0.896)	1139354	50.0000	50.26
	76 1,3-Dichloropropane	76	17.758	17.758	(0.900)	861240	50.0000	50.46
	75 Ethyl methacrylate	69	17.684	17.684	(0.896)	762329	50.0000	50.78
	77 2-Hexanone	43	17.906	17.906	(0.907)	1102410	100.000	95.01
	78 Dibromochloromethane	129	18.200	18.200	(0.922)	488822	50.0000	51.78
	79 1,2-Dibromoethane	107	18.569	18.569	(0.941)	467173	50.0000	49.91
	65 Methyl cyclohexane	83	16.359	16.359	(1.102)	823476	50.0000	49.95
	80 Tetrachloroethene	166	18.819	18.819	(0.954)	434637	50.0000	51.81
	81 1,1,1,2-Tetrachloroethane	131	19.689	19.689	(0.998)	447029	50.0000	50.76
*	82 Chlorobenzene-d5	82	19.733	19.733	(1.000)	331431	30.0000	
	83 Chlorobenzene	112	19.792	19.792	(1.003)	1175785	50.0000	50.47
	87 Bromoform	173	20.559	20.559	(0.877)	313851	50.0000	52.16
	84 Ethylbenzene	91	20.014	20.014	(1.014)	2278321	50.0000	50.86
	85 m,p-Xylene	91	20.279	20.279	(1.028)	3418547	100.000	97.98
M	91 Xylene(total)	91				5192643	50.0000	196.3
	89 o-Xylene	91	20.869	20.869	(1.058)	1774096	50.0000	49.41
	88 Styrene	104	20.766	20.766	(1.052)	1394745	50.0000	50.01

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD05.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.899	20.899	(0.892)	600338	50.0000	49.50
	92 1,2,3-Trichloropropane	110	21.105	21.105	(1.070)	186523	50.0000	47.15
	94 Isopropylbenzene	105	21.400	21.400	(1.084)	2101952	50.0000	50.97
$	95 Bromofluorobenzene	95	21.489	21.489	(1.089)	270216	30.0000	29.35
	96 Bromobenzene	156	21.844	21.844	(0.932)	466476	50.0000	50.48
	97 n-Propylbenzene	91	22.036	22.036	(0.940)	2725747	50.0000	51.66
	98 2-Chlorotoluene	91	22.228	22.228	(0.948)	1796018	50.0000	51.51
	99 4-Chlorotoluene	91	22.331	22.331	(0.953)	2002172	50.0000	51.40
	100 1,3,5-Trimethylbenzene	105	22.390	22.390	(0.955)	1696816	50.0000	51.04
	102 tert-Butylbenzene	119	22.878	22.878	(0.976)	1484175	50.0000	50.94
	103 1,2,4-Trimethylbenzene	105	23.011	23.011	(0.982)	1728352	50.0000	50.79
	104 sec-Butylbenzene	105	23.203	23.203	(0.990)	2368627	50.0000	51.18
	105 1,3-Dichlorobenzene	146	23.410	23.410	(0.999)	1002670	50.0000	57.00
*	106 1,4-Dichlorobenzene-d4	152	23.439	23.439	(1.000)	219487	30.0000	
	108 1,4-Dichlorobenzene	146	23.484	23.484	(1.002)	947781	50.0000	51.64 (M)
	107 p-Isopropyltoluene	119	23.439	23.439	(1.000)	1794351	50.0000	50.81
	109 1,2-Dichlorobenzene	146	24.075	24.075	(1.027)	805385	50.0000	50.75
	110 n-Butylbenzene	91	24.060	24.060	(1.026)	1902251	50.0000	50.78
	111 1,2-Dibromo-3-chloropropane	157	24.799	24.799	(1.058)	113942	50.0000	47.78
	112 1,2,4-Trichlorobenzene	180	27.002	27.002	(1.152)	527393	50.0000	49.94
	113 Naphthalene	128	27.461	27.461	(1.172)	1403547	50.0000	48.34
	114 Hexachlorobutadiene	225	27.505	27.505	(1.173)	293659	50.0000	51.13
	115 1,2,3-Trichlorobenzene	180	27.875	27.875	(1.189)	485263	50.0000	50.05

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD05.D
Date : 09-JUN-2006 13:00
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Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
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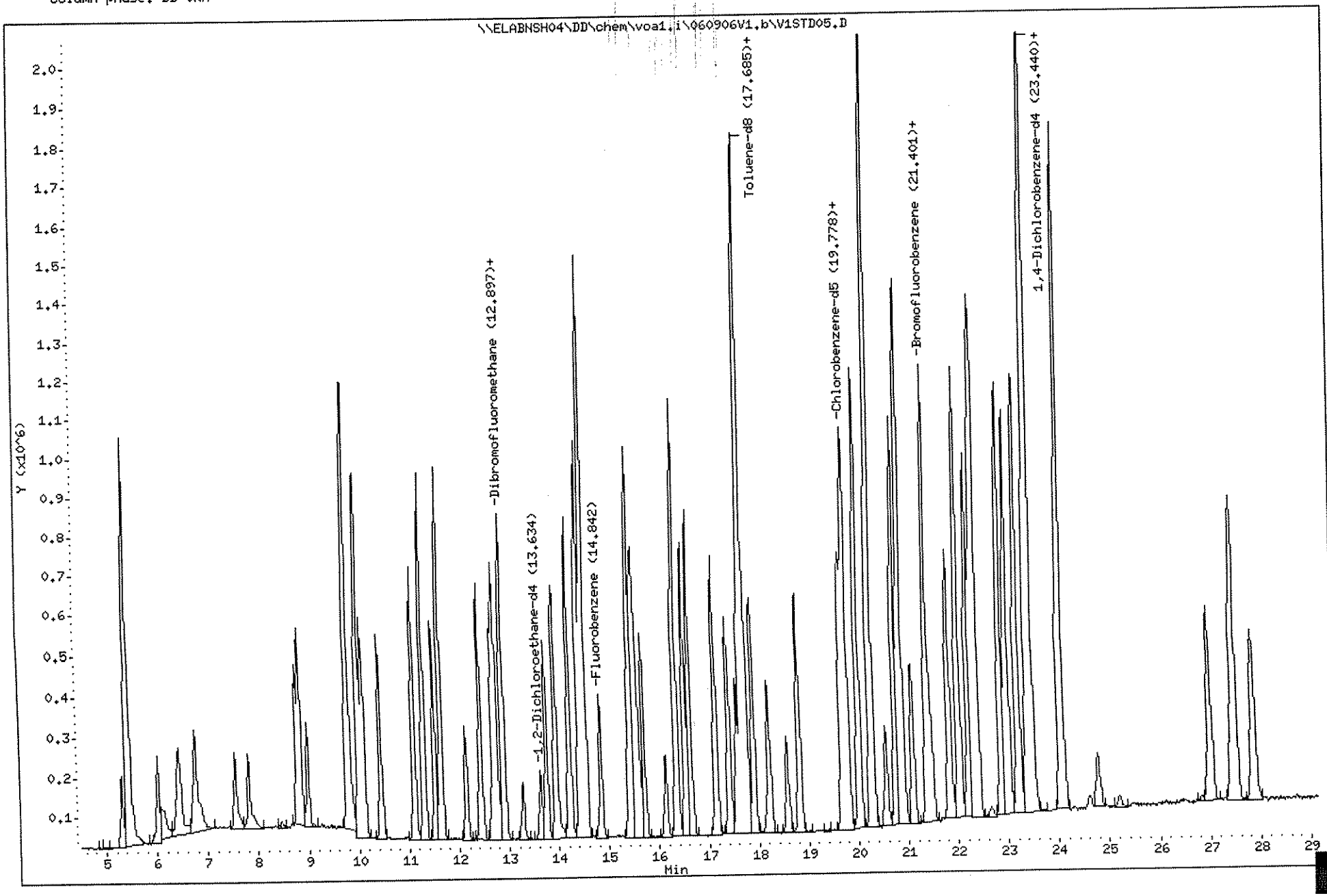

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Empirical Laboratories

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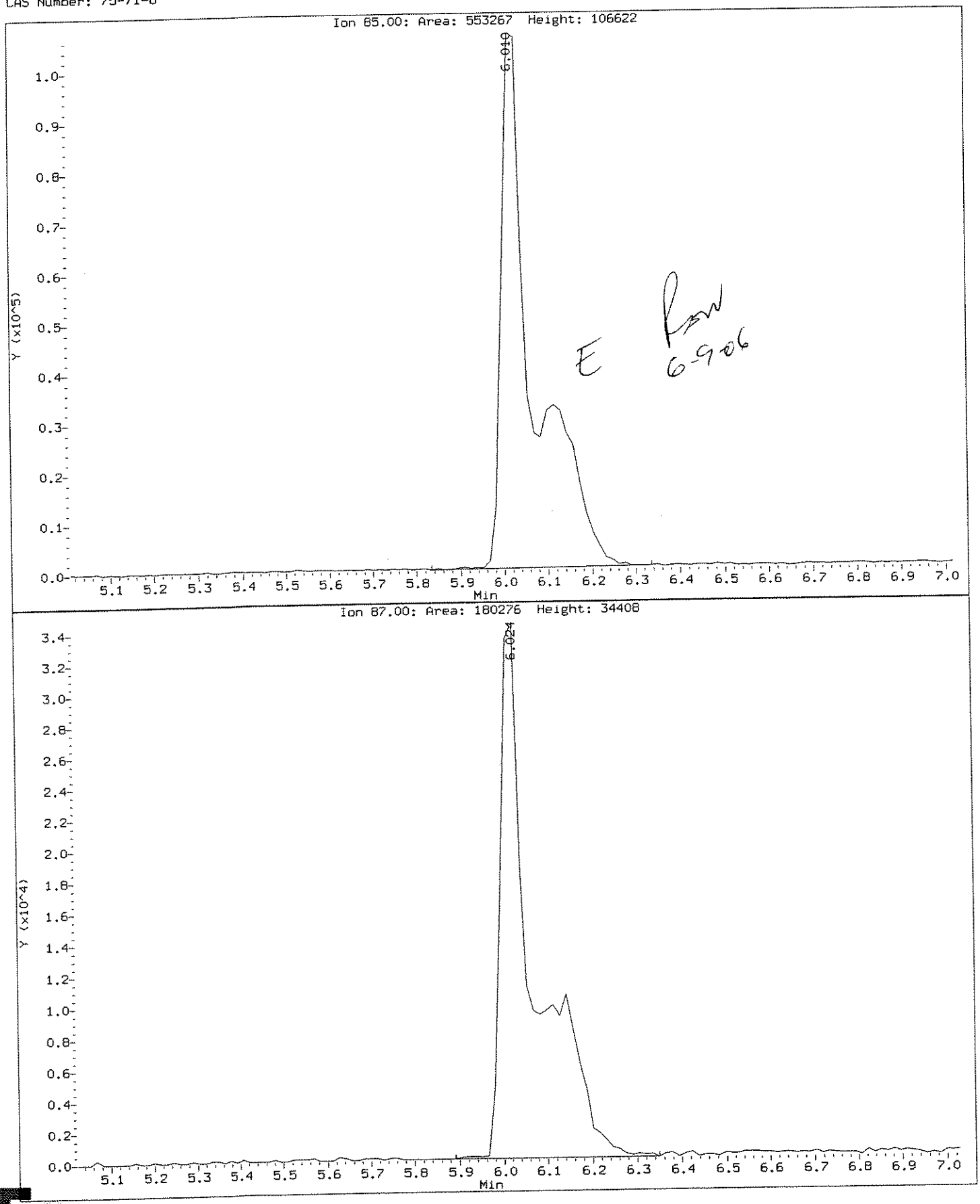
Instrument: voa1.i
Client Sample ID:

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



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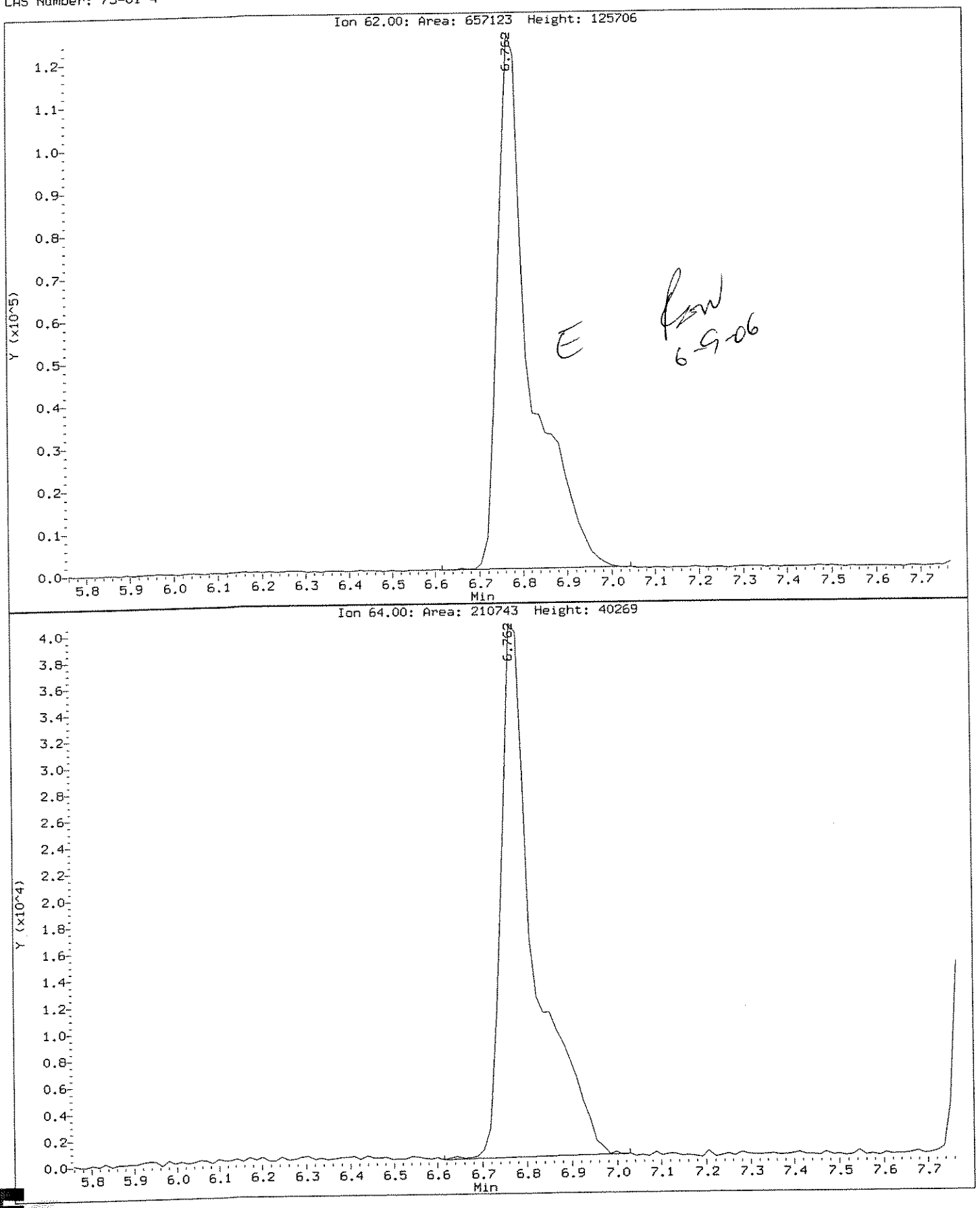
Instrument: voa1.i
Client Sample ID:

Compound: Vinyl chloride
CAS Number: 75-01-4



Empirical Laboratories

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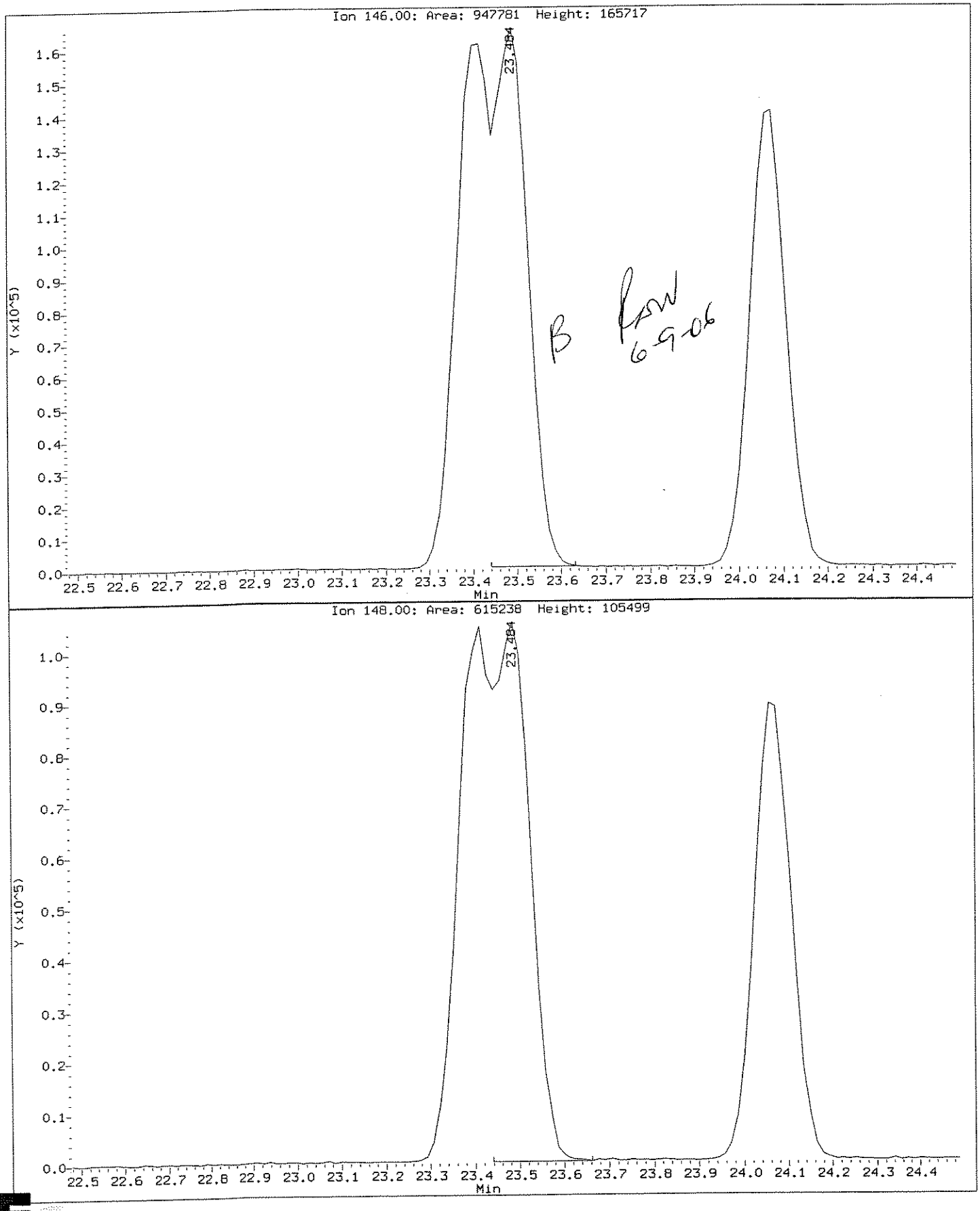
Instrument: voa1.i
Client Sample ID:

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



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Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD04.D
Report Date: 09-Jun-2006 16:23

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD04.D
Lab Smp Id: V1STD20ppb Client Smp ID: V1STD20ppb
Inj Date : 09-JUN-2006 13:37 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD20ppb;;;;;
Misc Info : ;1;;;4;gm-all.sub;#4894,4917
Comment :
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Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.841	14.841	(1.000)	600485	30.0000	
1 Dichlorodifluoromethane	85	6.009	6.009	(0.405)	177731	20.0000	17.27(M)
4 Chloromethane	50	6.422	6.422	(0.433)	266205	20.0000	19.07
5 Vinyl chloride	62	6.718	6.718	(0.453)	218638	20.0000	17.99(M)
6 Bromomethane	94	7.530	7.530	(0.507)	105849	20.0000	18.35
7 Chloroethane	64	7.796	7.796	(0.525)	144332	20.0000	19.21
9 Trichlorofluoromethane	101	8.844	8.844	(0.596)	296643	20.0000	19.06
21 Trichlorotrifluoroethane	101	10.084	10.084	(0.679)	159553	20.0000	19.96
8 Acrolein	56	8.770	8.770	(0.591)	224907	100.000	97.49
12 Acetone	43	8.991	8.991	(0.606)	305898	40.0000	45.34(a)
15 1,1-Dichloroethene	96	9.774	9.774	(0.659)	147476	20.0000	18.99
16 Iodomethane	142	9.833	9.833	(0.663)	115986	20.0000	13.79(a)
17 Acrylonitrile	53	9.788	9.788	(0.660)	324220	100.000	100.3
20 Methylene chloride	84	9.995	9.995	(0.673)	362680	20.0000	18.24
25 Carbon disulfide	76	10.423	10.423	(0.702)	532446	20.0000	19.49

Rsw 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD04.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.100	11.100	(0.748)	183799	20.0000	20.23
	29 MTBE	73	11.292	11.292	(0.761)	603040	20.0000	19.17
	30 1,1-Dichloroethane	63	11.513	11.513	(0.776)	390478	20.0000	19.70
	32 Vinyl acetate	43	11.631	11.631	(0.784)	1070572	40.0000	39.94
	35 2-Butanone	43	12.146	12.146	(0.818)	314556	40.0000	39.90(a)
	38 cis-1,2-Dichloroethene	96	12.440	12.440	(0.838)	200799	20.0000	20.13
M	18 1,2-Dichloroethene(total)	96				384598	40.0000	40.36
	41 Bromochloromethane	128	12.691	12.691	(0.855)	95899	20.0000	20.06
	42 Chloroform	83	12.750	12.750	(0.859)	372185	20.0000	18.94
	43 2,2-Dichloropropane	77	12.897	12.897	(0.869)	344557	20.0000	19.40
$	44 Dibromofluoromethane	111	12.927	12.927	(0.871)	178219	30.0000	30.18
	22 Methyl acetate	43	10.025	10.025	(0.675)	161531	20.0000	21.12
	47 Tetrahydrofuran	42	13.280	13.280	(0.895)	72886	20.0000	18.73
	52 Cyclohexane	56	14.429	14.429	(0.972)	341824	20.0000	19.04
$	48 1,2-Dichloroethane-d4	102	13.633	13.633	(0.919)	41490	30.0000	28.15
	49 1,2-Dichloroethane	62	13.751	13.751	(0.927)	354131	20.0000	19.92
	50 1,1,1-Trichloroethane	97	13.943	13.943	(0.939)	302292	20.0000	19.33
	51 1,1-Dichloropropene	75	14.222	14.222	(0.958)	291051	20.0000	19.92
	53 Carbon tetrachloride	117	14.517	14.517	(0.978)	202403	20.0000	19.27
	54 Benzene	78	14.532	14.532	(0.979)	703854	20.0000	19.86
	58 Dibromomethane	93	15.415	15.415	(1.039)	128421	20.0000	19.25
	59 1,2-Dichloropropane	63	15.445	15.445	(1.041)	207513	20.0000	19.40
	60 Trichloroethene	95	15.518	15.518	(1.046)	197611	20.0000	19.65
	61 Bromodichloromethane	83	15.592	15.592	(1.051)	282798	20.0000	19.74
	62 Methyl methacrylate	41	15.695	15.695	(1.058)	245126	20.0000	18.91
	68 cis-1,3-Dichloropropene	75	16.535	16.535	(1.114)	354262	20.0000	19.78
	70 4-Methyl-2-pentanone	43	16.638	16.638	(1.121)	532197	40.0000	38.34
	71 trans-1,3-Dichloropropene	75	17.153	17.153	(0.869)	329908	20.0000	20.09
	72 1,1,2-Trichloroethane	83	17.418	17.418	(0.882)	142482	20.0000	21.22
$	73 Toluene-d8	98	17.566	17.566	(0.890)	547261	30.0000	31.38
	74 Toluene	92	17.684	17.684	(0.896)	416223	20.0000	20.38
	76 1,3-Dichloropropane	76	17.757	17.757	(0.899)	317210	20.0000	20.62
	75 Ethyl methacrylate	69	17.684	17.684	(0.896)	286326	20.0000	21.16
	77 2-Hexanone	43	17.905	17.905	(0.907)	437511	40.0000	41.84
	78 Dibromochloromethane	129	18.199	18.199	(0.922)	175708	20.0000	20.66
	79 1,2-Dibromoethane	107	18.568	18.568	(0.940)	172045	20.0000	20.40
	65 Methyl cyclohexane	83	16.358	16.358	(1.102)	307250	20.0000	19.45
	80 Tetrachloroethene	166	18.819	18.819	(0.953)	156884	20.0000	20.75
	81 1,1,1,2-Tetrachloroethane	131	19.688	19.688	(0.997)	165064	20.0000	20.80
*	82 Chlorobenzene-d5	82	19.747	19.747	(1.000)	298689	30.0000	
	83 Chlorobenzene	112	19.791	19.791	(1.002)	434133	20.0000	20.68
	87 Bromoform	173	20.558	20.558	(0.877)	115338	20.0000	20.03
	84 Ethylbenzene	91	20.027	20.027	(1.014)	840573	20.0000	20.82
	85 m,p-Xylene	91	20.278	20.278	(1.027)	1284675	40.0000	35.29
M	91 Xylene(total)	91				1945163	20.0000	62.53
	89 o-Xylene	91	20.883	20.883	(1.058)	660488	20.0000	18.19
	88 Styrene	104	20.764	20.764	(1.052)	516497	20.0000	20.55

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD04.D
Report Date: 09-Jun-2006 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.897	20.897	(0.891)	224435	20.0000	19.34
	92 1,2,3-Trichloropropane	110	21.104	21.104	(1.069)	69749	20.0000	19.56
	94 Isopropylbenzene	105	21.399	21.399	(1.084)	780921	20.0000	21.01
$	95 Bromofluorobenzene	95	21.488	21.488	(1.088)	256454	30.0000	30.91
	96 Bromobenzene	156	21.842	21.842	(0.931)	172731	20.0000	19.54
	97 n-Propylbenzene	91	22.034	22.034	(0.940)	1026612	20.0000	20.34
	98 2-Chlorotoluene	91	22.226	22.226	(0.948)	659343	20.0000	19.76
	99 4-Chlorotoluene	91	22.329	22.329	(0.952)	770339	20.0000	20.67
	100 1,3,5-Trimethylbenzene	105	22.389	22.389	(0.955)	636119	20.0000	20.00
	102 tert-Butylbenzene	119	22.876	22.876	(0.975)	551677	20.0000	19.79
	103 1,2,4-Trimethylbenzene	105	23.009	23.009	(0.981)	647252	20.0000	19.88
	104 sec-Butylbenzene	105	23.201	23.201	(0.989)	893267	20.0000	20.17
	105 1,3-Dichlorobenzene	146	23.408	23.408	(0.998)	361624	20.0000	21.49
*	106 1,4-Dichlorobenzene-d4	152	23.452	23.452	(1.000)	209994	30.0000	
	108 1,4-Dichlorobenzene	146	23.482	23.482	(1.001)	318343	20.0000	18.13(M)
	107 p-Isopropyltoluene	119	23.437	23.437	(0.999)	673072	20.0000	19.92
	109 1,2-Dichlorobenzene	146	24.058	24.058	(1.026)	307161	20.0000	20.23
	110 n-Butylbenzene	91	24.058	24.058	(1.026)	725447	20.0000	20.24
	111 1,2-Dibromo-3-chloropropane	157	24.782	24.782	(1.057)	43763	20.0000	19.18
	112 1,2,4-Trichlorobenzene	180	27.014	27.014	(1.152)	199438	20.0000	19.74
	113 Naphthalene	128	27.458	27.458	(1.171)	547618	20.0000	19.72
	114 Hexachlorobutadiene	225	27.502	27.502	(1.173)	112892	20.0000	20.54
	115 1,2,3-Trichlorobenzene	180	27.872	27.872	(1.188)	185911	20.0000	20.04

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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Date : 09-JUN-2006 13:37
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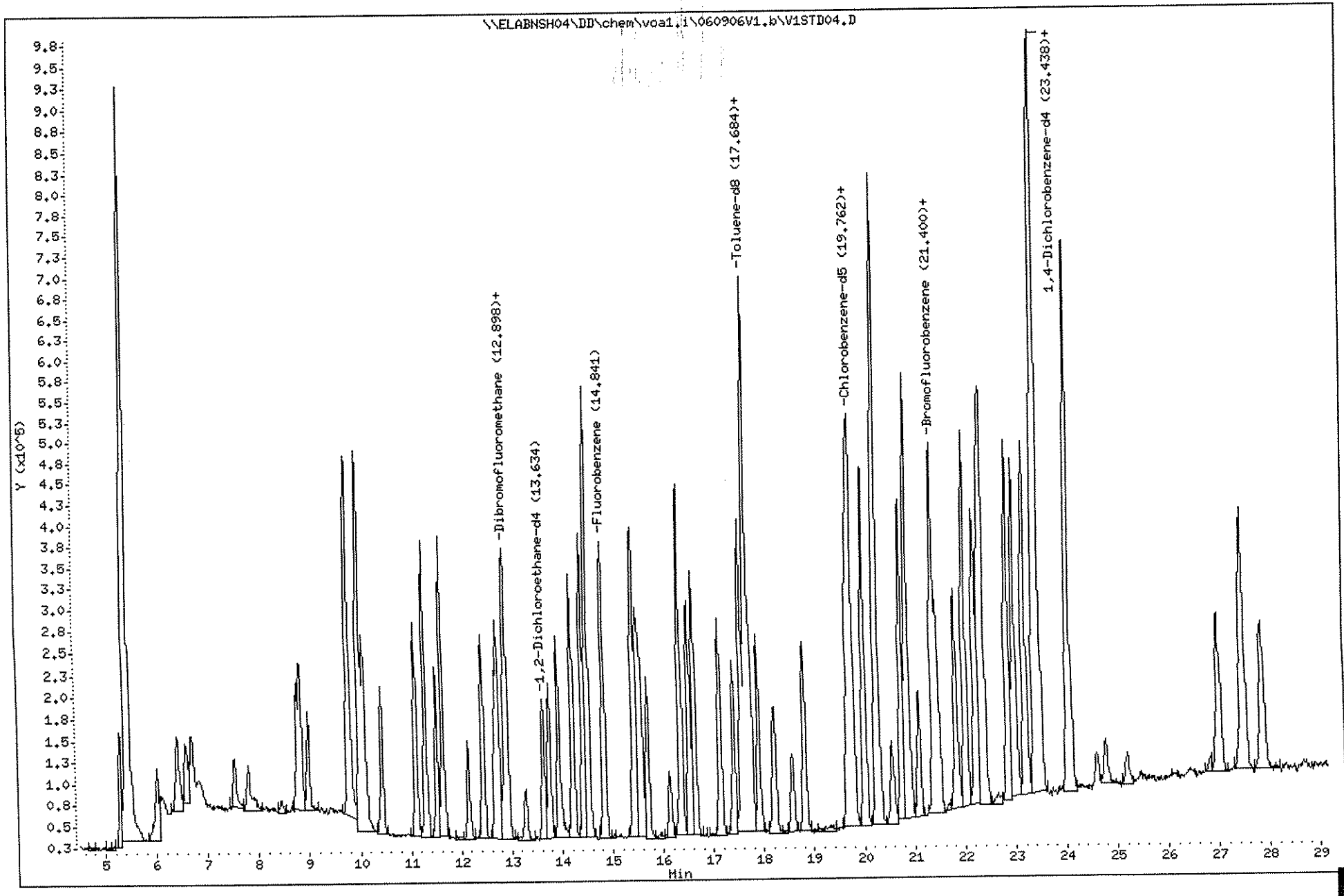
Sample Info: V1STD20ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



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Empirical Laboratories

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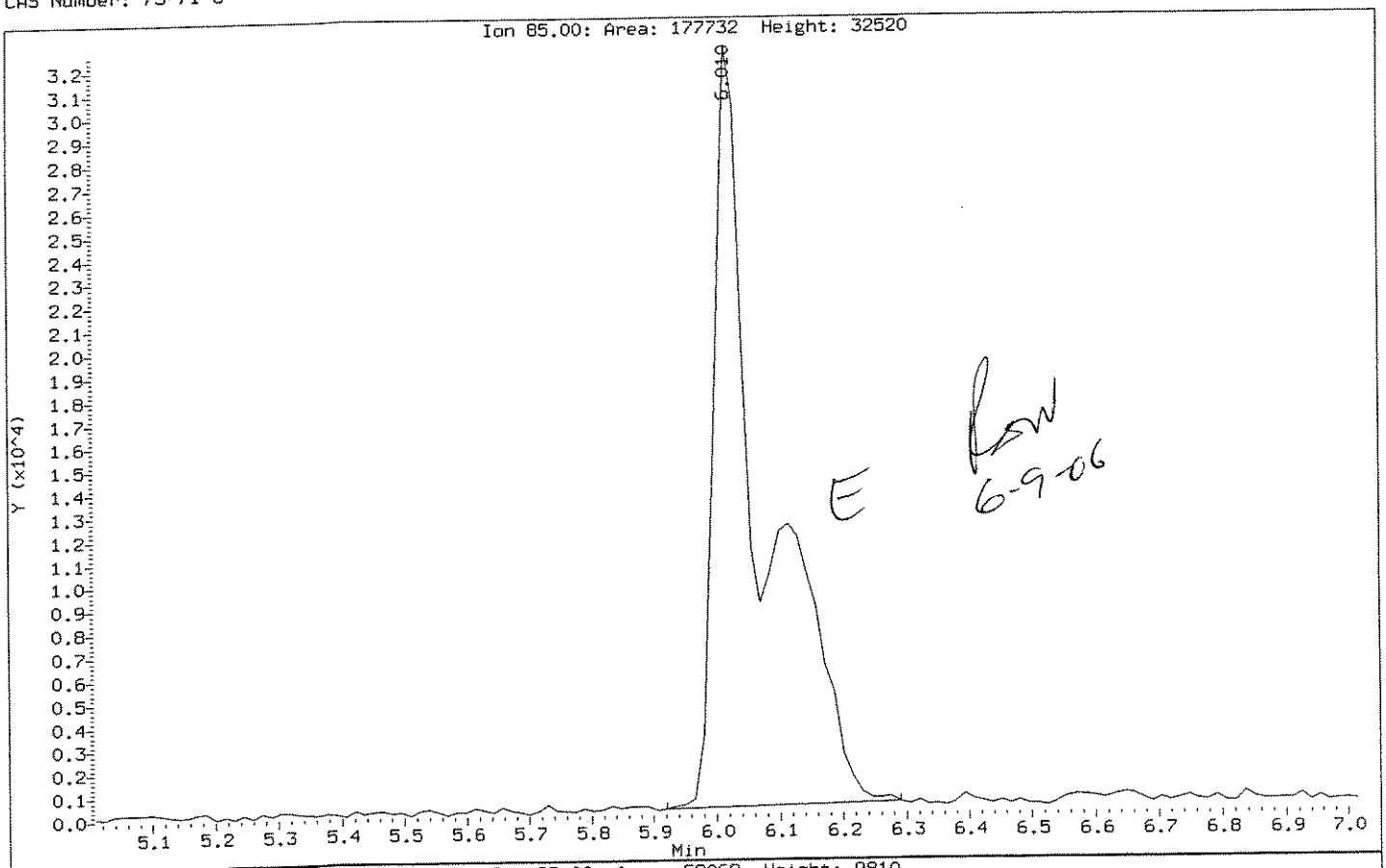
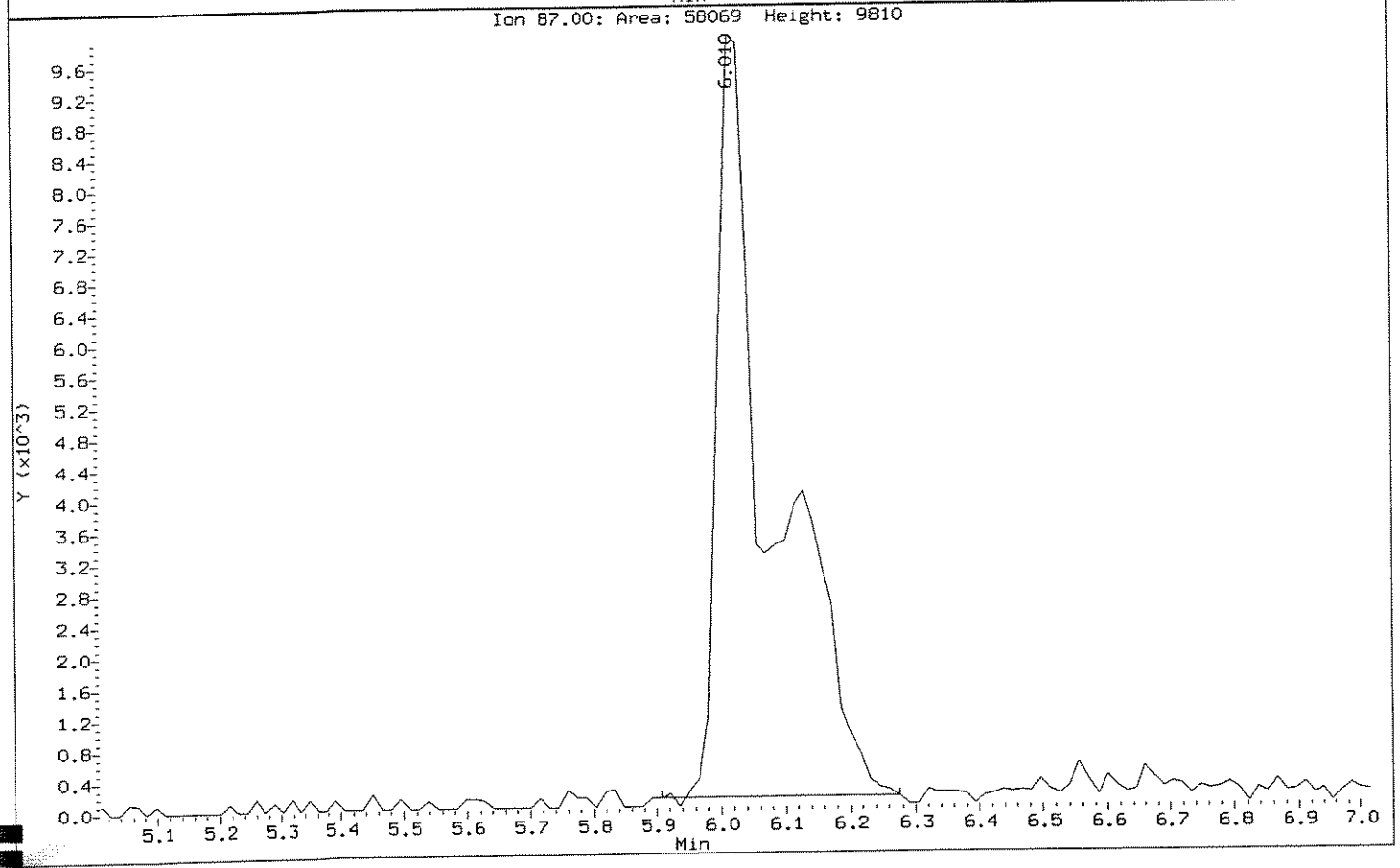
Instrument: voa1.i
Client Sample ID: V1STD20ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



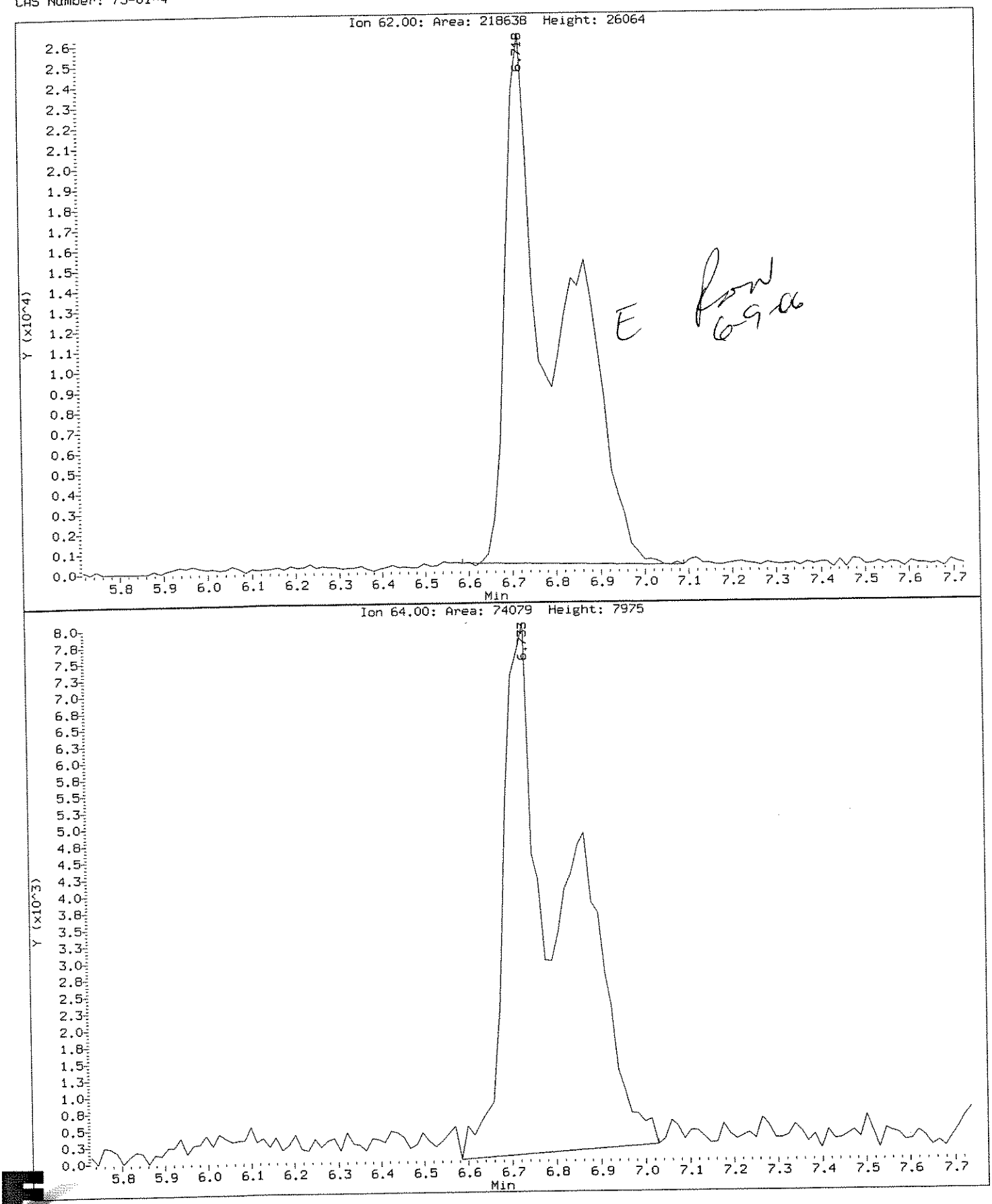
E RW 6-9-06



Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\voa1.i\060906V1.b\V1STD04.D
Injection Date: 09-JUN-2006 13:37
Instrument: voa1.i
Client Sample ID: V1STD20ppb

Compound: Vinyl chloride
CAS Number: 75-01-4



E flow 69cc

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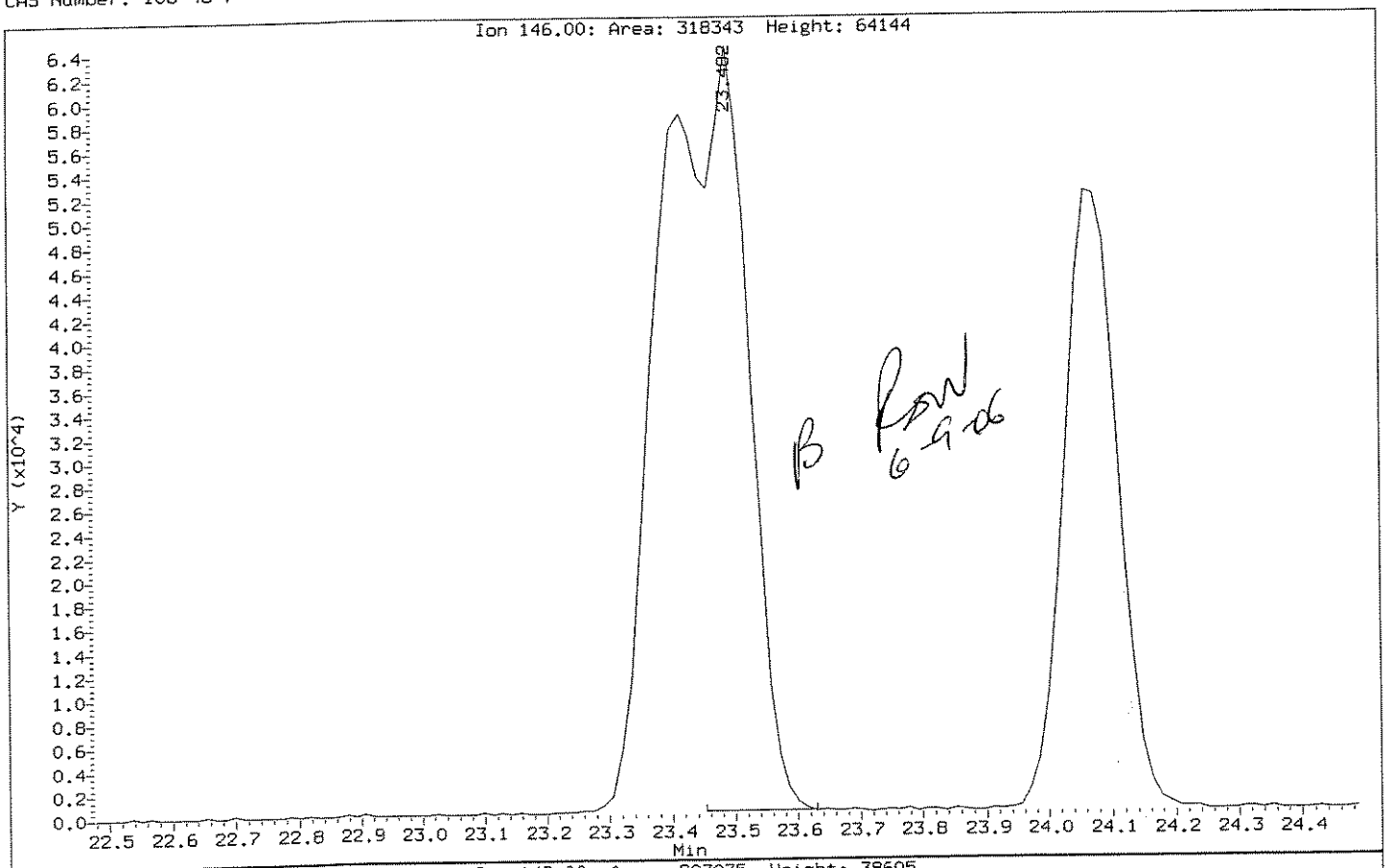
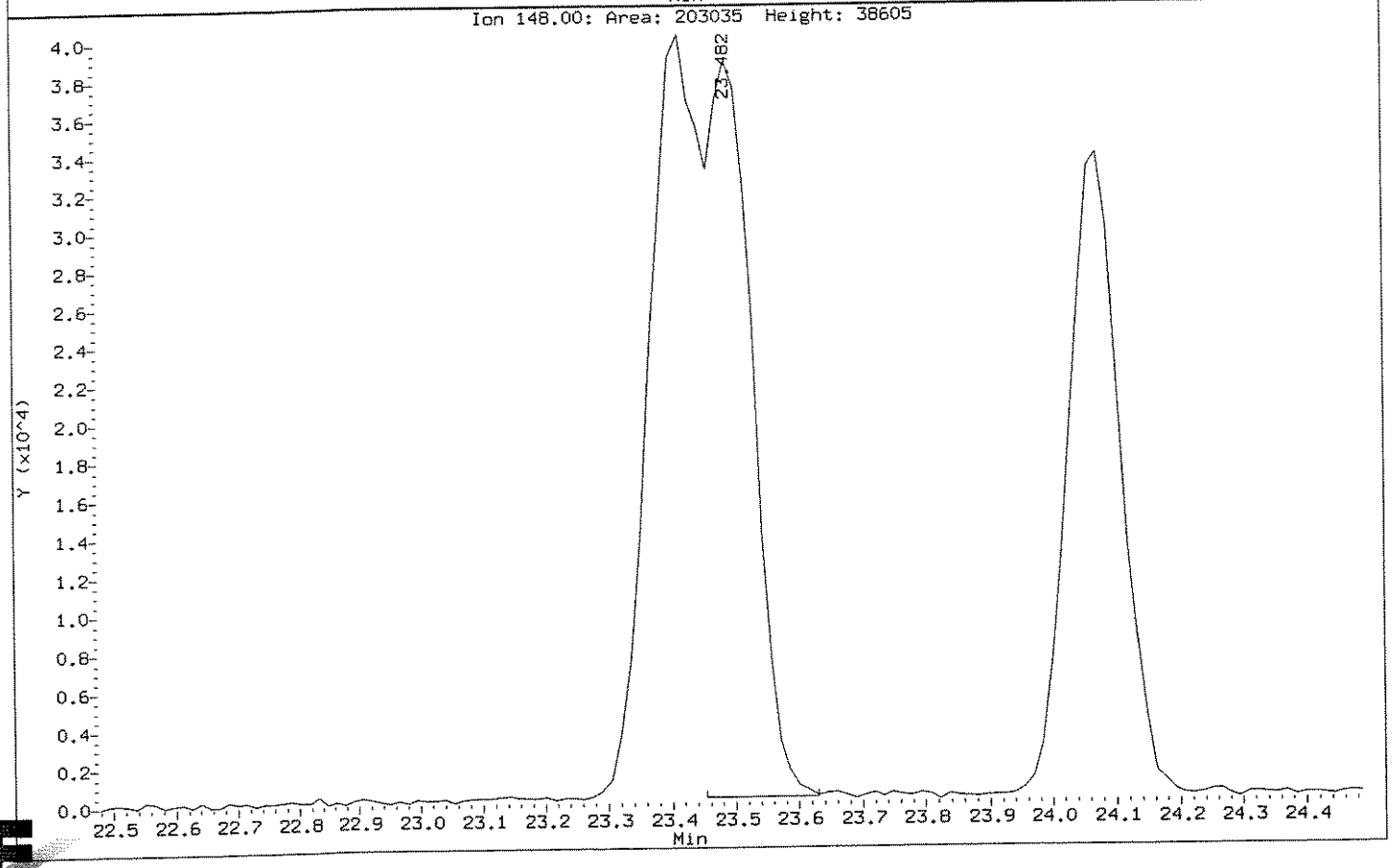
Injection Date: 09-JUN-2006 13:37
Instrument: voa1.i
Client Sample ID: V1STD20ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD03.D
Report Date: 09-Jun-2006 16:21

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD03.D
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Inj Date : 09-JUN-2006 14:13 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD10ppb;;;;;
Misc Info : ;1;;;3;gm-all.sub;#4894,4917
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\VSOIL1.m
Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.839	14.839	(1.000)	560802	30.0000	
1 Dichlorodifluoromethane	85	6.024	6.024	(0.406)	91767	10.0000	9.549(aM)
4 Chloromethane	50	6.437	6.437	(0.434)	138708	10.0000	10.64
5 Vinyl chloride	62	6.762	6.762	(0.456)	118118	10.0000	10.41
6 Bromomethane	94	7.544	7.544	(0.508)	48885	10.0000	9.075(a)
7 Chloroethane	64	7.810	7.810	(0.526)	75033	10.0000	10.69
9 Trichlorofluoromethane	101	8.843	8.843	(0.596)	150519	10.0000	10.35
21 Trichlorotrifluoroethane	101	10.098	10.098	(0.680)	73849	10.0000	9.894
8 Acrolein	56	8.769	8.769	(0.591)	104733	50.0000	48.61
12 Acetone	43	8.991	8.991	(0.606)	145100	20.0000	23.57(a)
15 1,1-Dichloroethene	96	9.773	9.773	(0.659)	70847	10.0000	9.770
16 Iodomethane	142	9.847	9.847	(0.664)	53803	10.0000	6.848(a)
17 Acrylonitrile	53	9.788	9.788	(0.660)	150349	50.0000	49.79
20 Methylene chloride	84	10.009	10.009	(0.674)	251817	10.0000	11.19
25 Carbon disulfide	76	10.436	10.436	(0.703)	265758	10.0000	10.42

RW 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD03.D
Report Date: 09-Jun-2006 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.114	11.114	(0.749)	88074	10.0000	10.38
	29 MTBE	73	11.305	11.305	(0.762)	296406	10.0000	10.09
	30 1,1-Dichloroethane	63	11.526	11.526	(0.777)	193327	10.0000	10.44
	32 Vinyl acetate	43	11.644	11.644	(0.785)	507346	20.0000	20.27(a)
	35 2-Butanone	43	12.144	12.144	(0.818)	147794	20.0000	20.07(a)
	38 cis-1,2-Dichloroethene	96	12.439	12.439	(0.838)	94856	10.0000	10.18
M	18 1,2-Dichloroethene(total)	96				182930	20.0000	20.55
	41 Bromochloromethane	128	12.689	12.689	(0.855)	45349	10.0000	10.16
	42 Chloroform	83	12.748	12.748	(0.859)	192229	10.0000	10.48
	43 2,2-Dichloropropane	77	12.895	12.895	(0.869)	169993	10.0000	10.25
$	44 Dibromofluoromethane	111	12.940	12.940	(0.872)	171285	30.0000	31.06
	22 Methyl acetate	43	10.024	10.024	(0.675)	81938	10.0000	11.47(M)
	47 Tetrahydrofuran	42	13.278	13.278	(0.895)	36955	10.0000	10.17
	52 Cyclohexane	56	14.427	14.427	(0.972)	171988	10.0000	10.26
$	48 1,2-Dichloroethane-d4	102	13.632	13.632	(0.919)	41240	30.0000	29.96
	49 1,2-Dichloroethane	62	13.764	13.764	(0.928)	167711	10.0000	10.10
	50 1,1,1-Trichloroethane	97	13.955	13.955	(0.940)	154393	10.0000	10.57
	51 1,1-Dichloropropene	75	14.221	14.221	(0.958)	141919	10.0000	10.40
	53 Carbon tetrachloride	117	14.515	14.515	(0.978)	93381	10.0000	9.521
	54 Benzene	78	14.530	14.530	(0.979)	344268	10.0000	10.40
	58 Dibromomethane	93	15.413	15.413	(1.039)	66530	10.0000	10.68
	59 1,2-Dichloropropane	63	15.443	15.443	(1.041)	101845	10.0000	10.19
	60 Trichloroethene	95	15.531	15.531	(1.047)	94636	10.0000	10.08
	61 Bromodichloromethane	83	15.590	15.590	(1.051)	138719	10.0000	10.37
	62 Methyl methacrylate	41	15.708	15.708	(1.059)	125710	10.0000	10.38
	68 cis-1,3-Dichloropropene	75	16.532	16.532	(1.114)	172664	10.0000	10.32
	70 4-Methyl-2-pentanone	43	16.635	16.635	(1.121)	250930	20.0000	19.36(a)
	71 trans-1,3-Dichloropropene	75	17.151	17.151	(0.869)	169412	10.0000	10.92
	72 1,1,2-Trichloroethane	83	17.416	17.416	(0.882)	69232	10.0000	10.91
$	73 Toluene-d8	98	17.578	17.578	(0.890)	536182	30.0000	32.54
	74 Toluene	92	17.681	17.681	(0.896)	206855	10.0000	10.72
	76 1,3-Dichloropropane	76	17.770	17.770	(0.900)	160128	10.0000	11.02
	75 Ethyl methacrylate	69	17.681	17.681	(0.896)	136645	10.0000	10.69
	77 2-Hexanone	43	17.902	17.902	(0.907)	206897	20.0000	20.94(a)
	78 Dibromochloromethane	129	18.197	18.197	(0.922)	84455	10.0000	10.51
	79 1,2-Dibromoethane	107	18.565	18.565	(0.940)	83515	10.0000	10.48
	65 Methyl cyclohexane	83	16.356	16.356	(1.102)	152141	10.0000	10.31
	80 Tetrachloroethene	166	18.816	18.816	(0.953)	75957	10.0000	10.63
	81 1,1,1,2-Tetrachloroethane	131	19.685	19.685	(0.997)	79284	10.0000	10.57
*	82 Chlorobenzene-d5	82	19.744	19.744	(1.000)	282227	30.0000	
	83 Chlorobenzene	112	19.788	19.788	(1.002)	214546	10.0000	10.81
	87 Bromoform	173	20.555	20.555	(0.877)	54689	10.0000	9.653
	84 Ethylbenzene	91	20.024	20.024	(1.014)	426911	10.0000	11.19
	85 m,p-Xylene	91	20.275	20.275	(1.027)	644075	20.0000	17.74
M	91 Xylene(total)	91				982775	10.0000	30.06
	89 o-Xylene	91	20.879	20.879	(1.058)	338700	10.0000	9.484
	88 Styrene	104	20.761	20.761	(1.052)	254041	10.0000	10.70

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD03.D
Report Date: 09-Jun-2006 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.909	20.909	(0.892)	105937	10.0000	9.279
	92 1,2,3-Trichloropropane	110	21.101	21.101	(1.069)	34970	10.0000	10.38
	94 Isopropylbenzene	105	21.396	21.396	(1.084)	386000	10.0000	10.99
$	95 Bromofluorobenzene	95	21.484	21.484	(1.088)	246061	30.0000	31.39
	96 Bromobenzene	156	21.854	21.854	(0.932)	86368	10.0000	9.929
	97 n-Propylbenzene	91	22.031	22.031	(0.940)	494116	10.0000	9.948
	98 2-Chlorotoluene	91	22.223	22.223	(0.948)	320647	10.0000	9.768
	99 4-Chlorotoluene	91	22.326	22.326	(0.952)	400729	10.0000	10.93
	100 1,3,5-Trimethylbenzene	105	22.400	22.400	(0.955)	313278	10.0000	10.01
	102 tert-Butylbenzene	119	22.873	22.873	(0.975)	274233	10.0000	9.998
	103 1,2,4-Trimethylbenzene	105	23.005	23.005	(0.981)	321182	10.0000	10.02
	104 sec-Butylbenzene	105	23.212	23.212	(0.990)	439949	10.0000	10.10
	105 1,3-Dichlorobenzene	146	23.419	23.419	(0.999)	172982	10.0000	10.44
*	106 1,4-Dichlorobenzene-d4	152	23.449	23.449	(1.000)	206636	30.0000	
	108 1,4-Dichlorobenzene	146	23.493	23.493	(1.002)	169349	10.0000	9.800(M)
	107 p-Isopropyltoluene	119	23.434	23.434	(0.999)	331083	10.0000	9.958
	109 1,2-Dichlorobenzene	146	24.069	24.069	(1.026)	151826	10.0000	10.16
	110 n-Butylbenzene	91	24.069	24.069	(1.026)	359501	10.0000	10.19
	111 1,2-Dibromo-3-chloropropane	157	24.793	24.793	(1.057)	20061	10.0000	8.935(a)
	112 1,2,4-Trichlorobenzene	180	27.010	27.010	(1.152)	98554	10.0000	9.913
	113 Naphthalene	128	27.469	27.469	(1.171)	274281	10.0000	10.04
	114 Hexachlorobutadiene	225	27.513	27.513	(1.173)	56398	10.0000	10.43
	115 1,2,3-Trichlorobenzene	180	27.868	27.868	(1.188)	93430	10.0000	10.24

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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Date : 09-JUN-2006 14:13
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Sample Info: V1STD10ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

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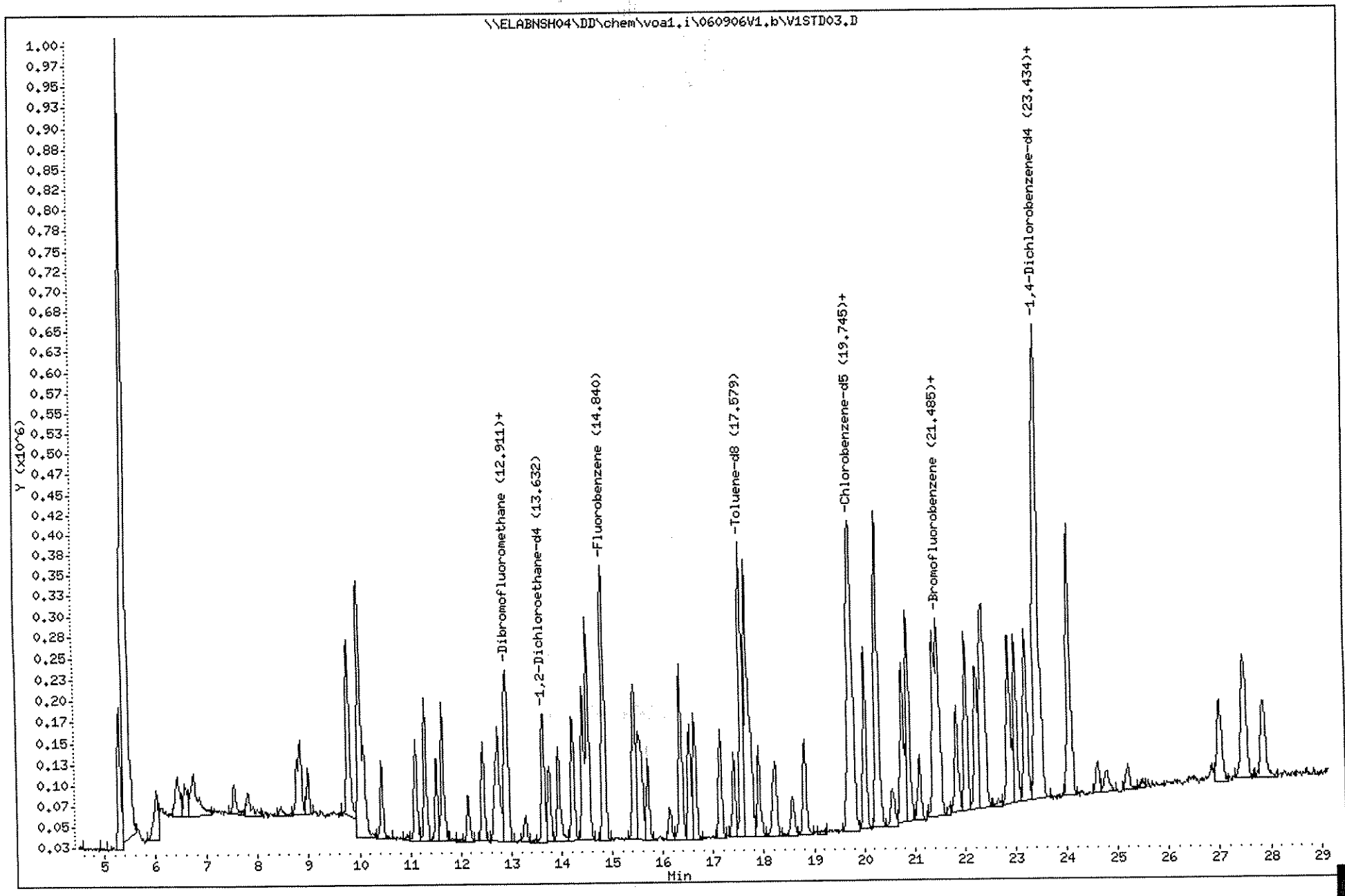

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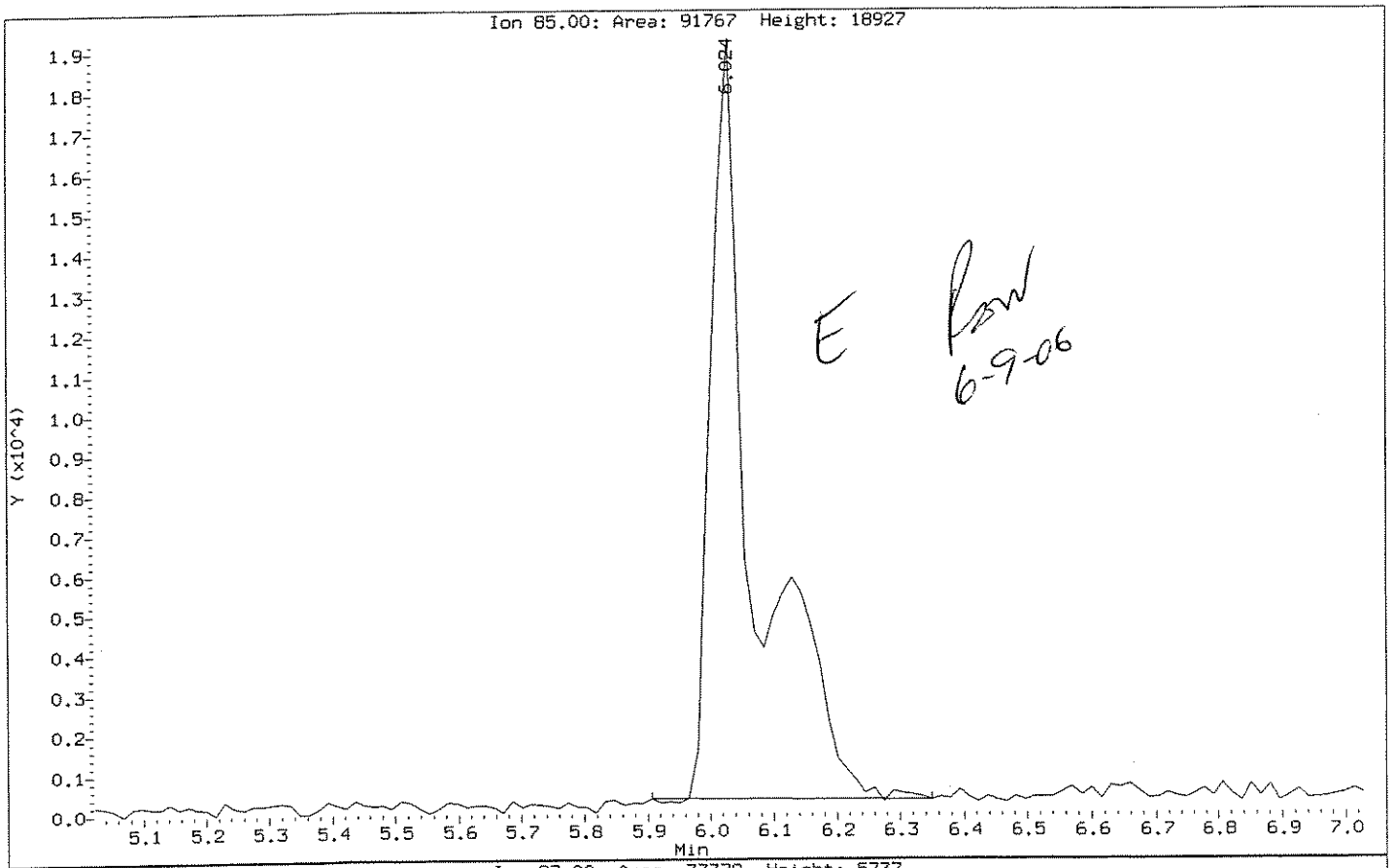
Injection Date: 09-JUN-2006 14:13
Instrument: voa1.i
Client Sample ID: V1STD10ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



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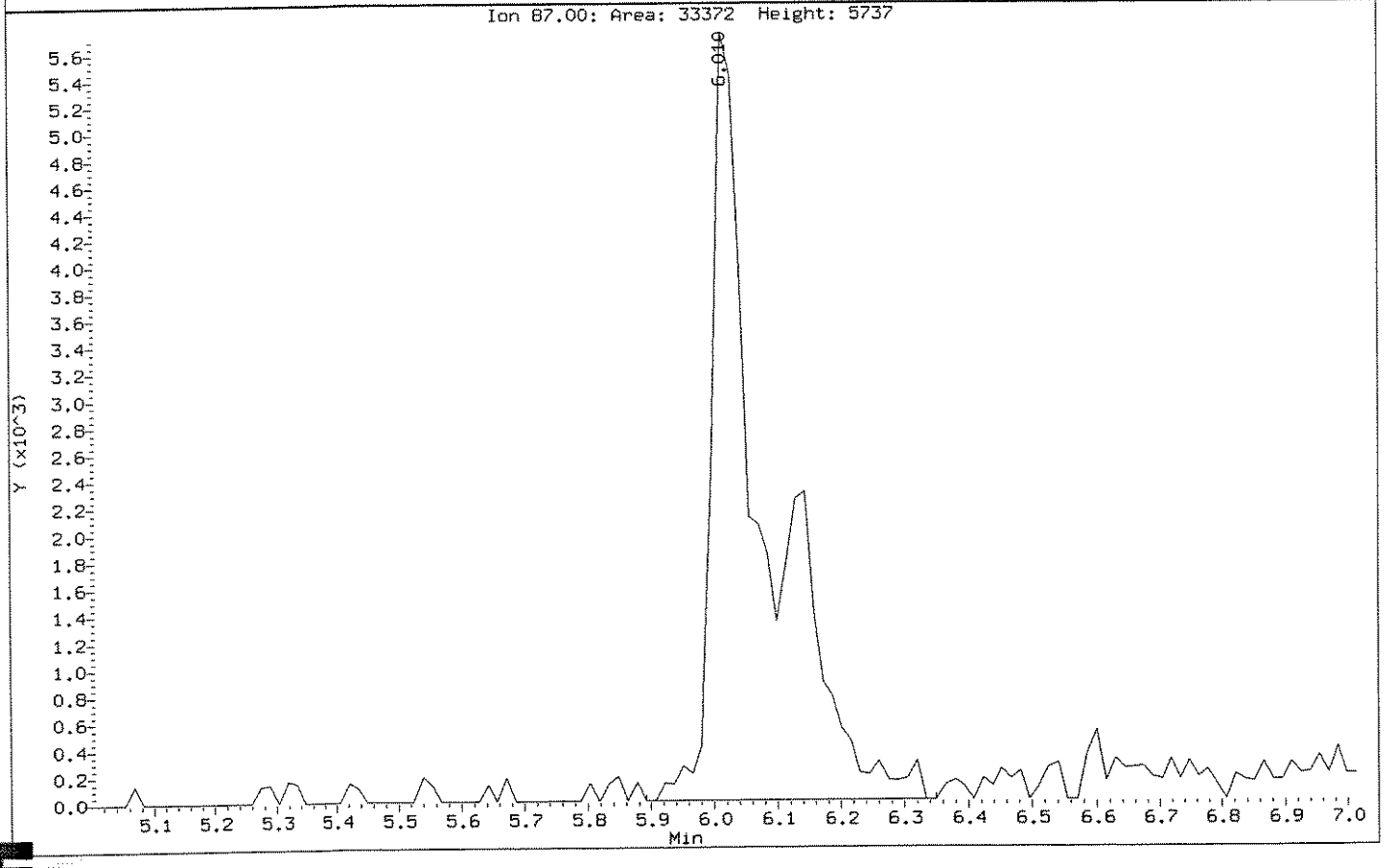

Empirical Laboratories

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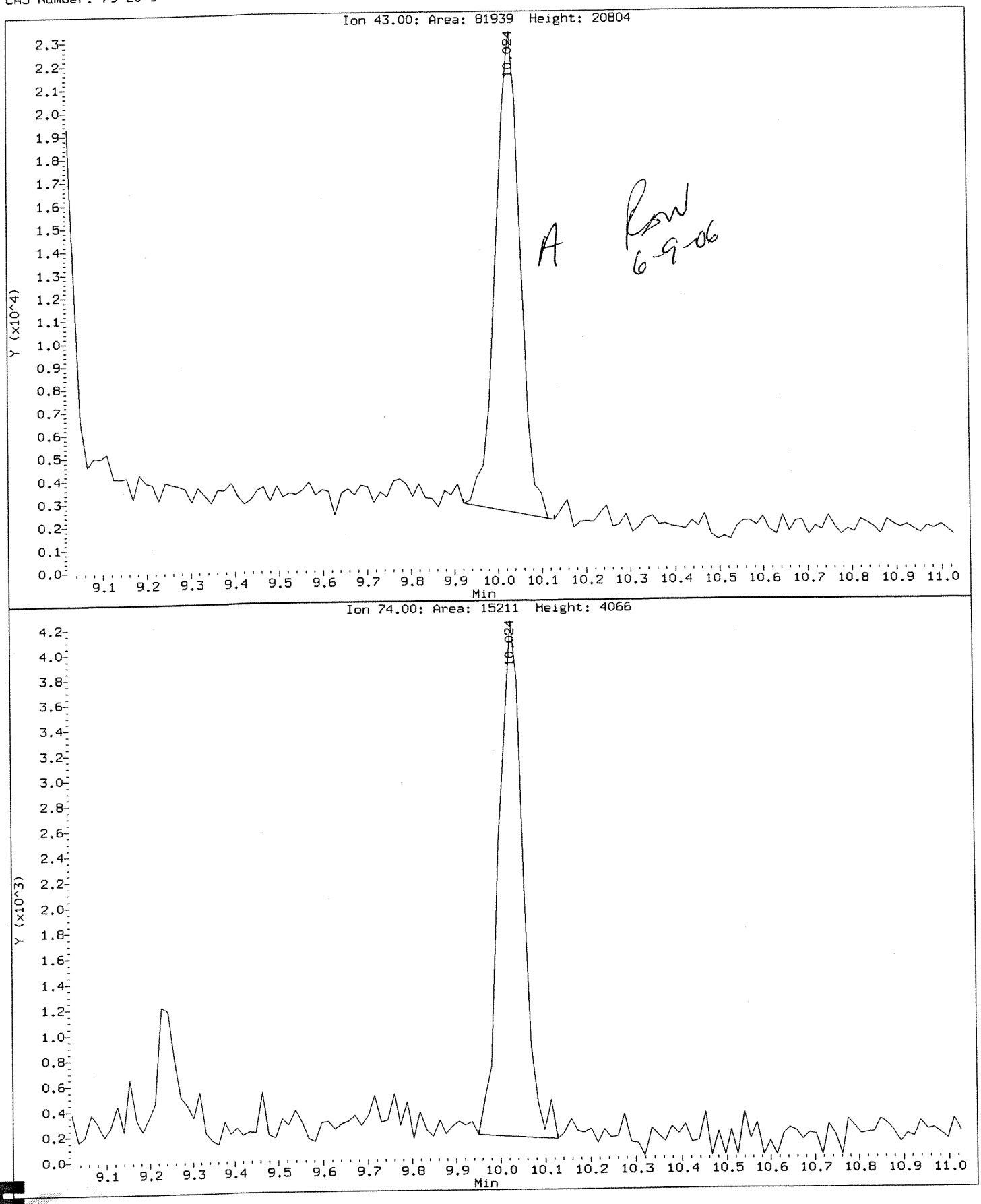
Injection Date: 09-JUN-2006 14:13
Instrument: voa1.i
Client Sample ID: V1STD10ppb

Compound: Methyl acetate
CAS Number: 79-20-9



Empirical Laboratories

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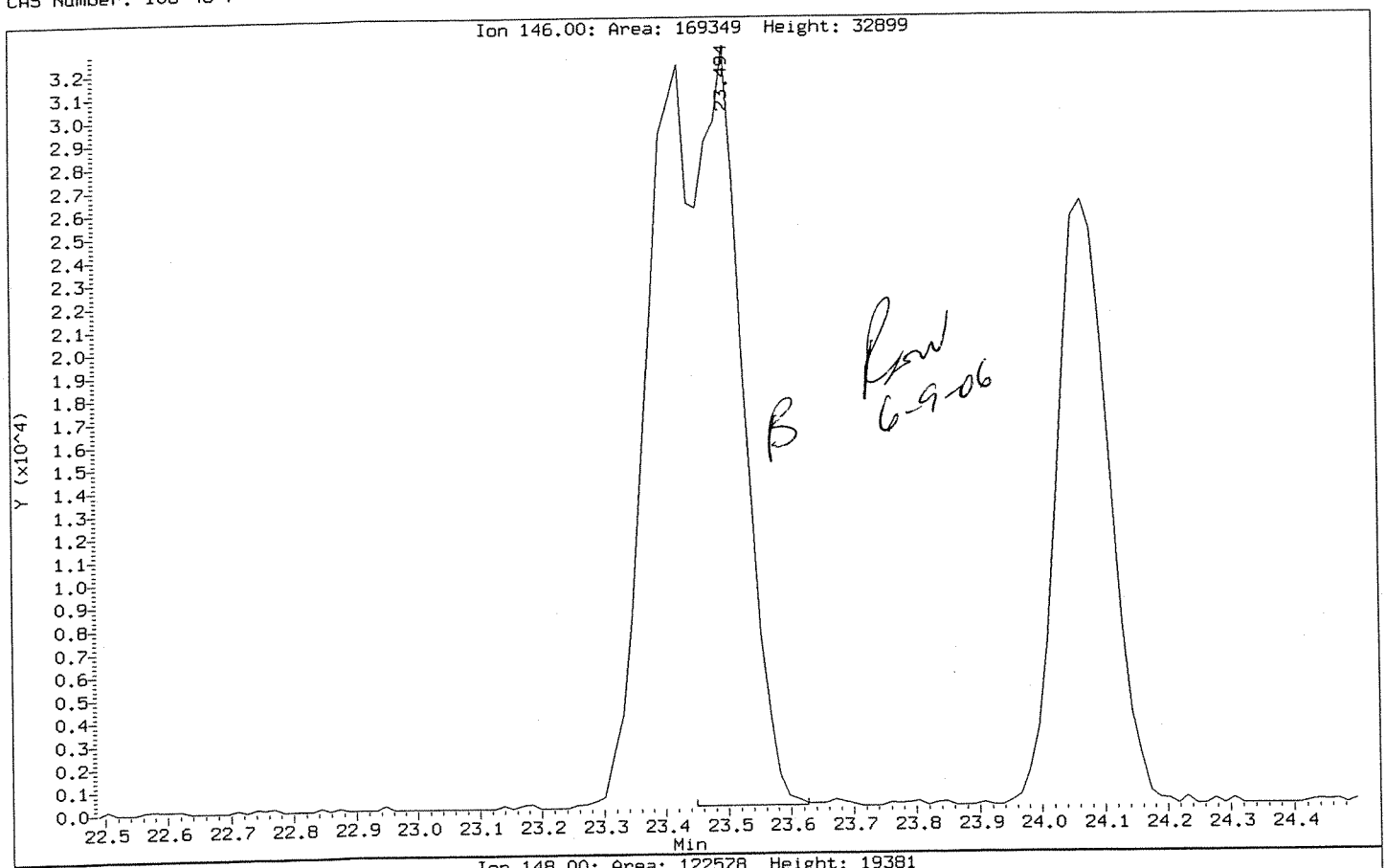
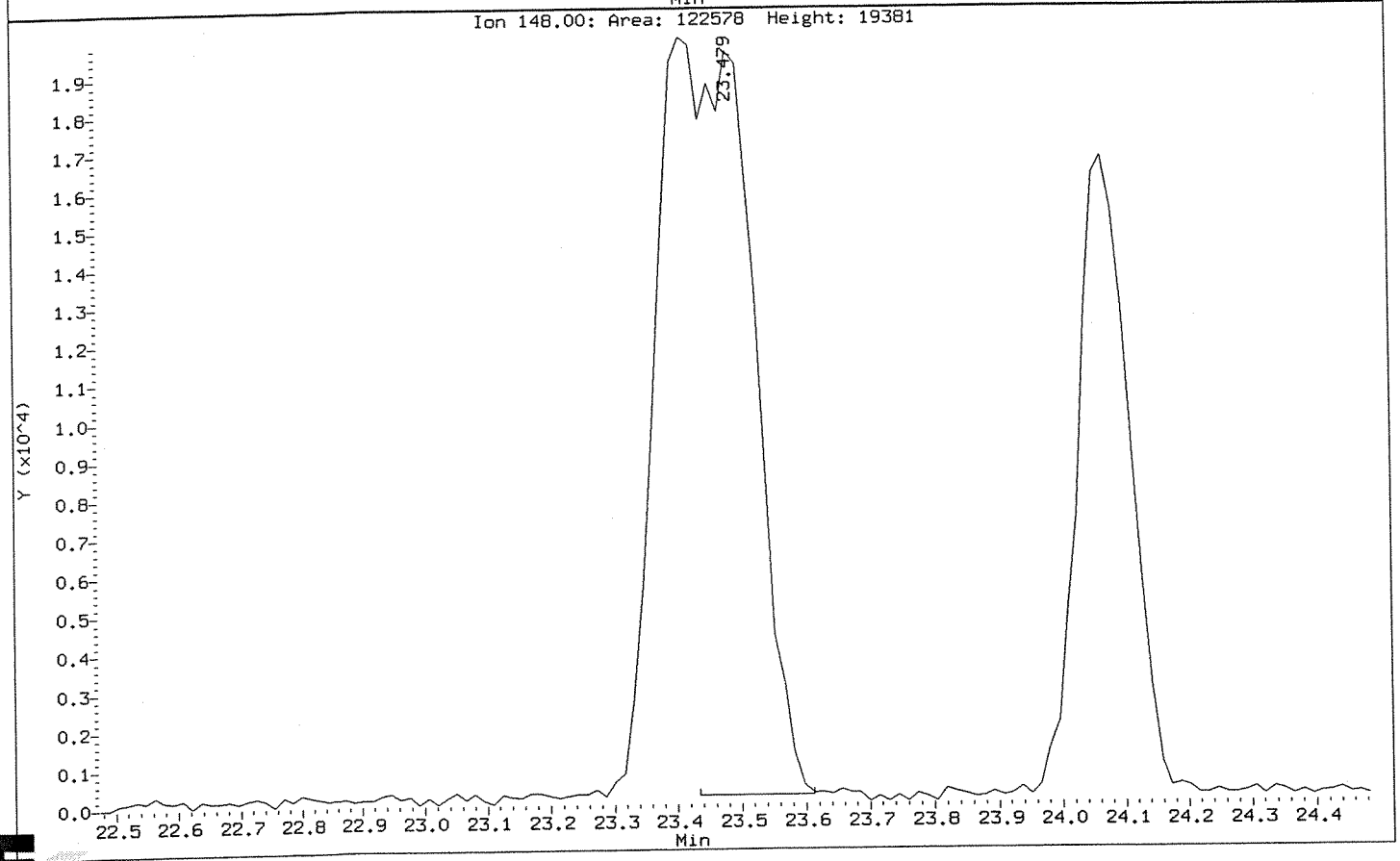
Injection Date: 09-JUN-2006 14:13
Instrument: voa1.i
Client Sample ID: V1STD10ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD02.D
Report Date: 09-Jun-2006 16:21

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD02.D
Lab Smp Id: V1STD5.0ppb Client Smp ID: V1STD5.0ppb
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Operator : ADM Inst ID: voa1.i
Smp Info : V1STD5.0ppb;;;;;
Misc Info : ;1;;;2;gm-all.sub;#4894,4917
Comment :
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Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 11:48 Cal File: V1STD07.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.853	14.853	(1.000)	558493	30.0000	
1 Dichlorodifluoromethane	85	6.024	6.024	(0.406)	50017	5.00000	5.226(aM)
4 Chloromethane	50	6.437	6.437	(0.433)	67841	5.00000	5.226(a)
5 Vinyl chloride	62	6.762	6.762	(0.455)	56262	5.00000	4.978(a)
6 Bromomethane	94	7.544	7.544	(0.508)	25332	5.00000	4.722(a)
7 Chloroethane	64	7.810	7.810	(0.526)	33310	5.00000	4.766(aM)
9 Trichlorofluoromethane	101	8.843	8.843	(0.595)	77414	5.00000	5.347(a)
21 Trichlorotrifluoroethane	101	10.097	10.097	(0.680)	38477	5.00000	5.176
8 Acrolein	56	8.784	8.784	(0.591)	54546	25.0000	25.42
12 Acetone	43	8.990	8.990	(0.605)	75091	10.0000	12.77(a)
15 1,1-Dichloroethene	96	9.787	9.787	(0.659)	38172	5.00000	5.286
16 Iodomethane	142	9.846	9.846	(0.663)	29250	5.00000	3.738(a)
17 Acrylonitrile	53	9.787	9.787	(0.659)	84002	25.0000	27.94
20 Methylene chloride	84	10.009	10.009	(0.674)	183868	5.00000	6.110(a)
25 Carbon disulfide	76	10.436	10.436	(0.703)	127987	5.00000	5.038

6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD02.D
Report Date: 09-Jun-2006 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.099	11.099	(0.747)	42624	5.00000	5.044
	29 MTBE	73	11.305	11.305	(0.761)	161958	5.00000	5.535
	30 1,1-Dichloroethane	63	11.526	11.526	(0.776)	93197	5.00000	5.055
	32 Vinyl acetate	43	11.643	11.643	(0.784)	262202	10.0000	10.52(a)
	35 2-Butanone	43	12.144	12.144	(0.818)	81328	10.0000	11.09(a)
	38 cis-1,2-Dichloroethene	96	12.453	12.453	(0.838)	47241	5.00000	5.092
M	18 1,2-Dichloroethene(total)	96				89865	10.0000	10.14
	41 Bromochloromethane	128	12.689	12.689	(0.854)	25372	5.00000	5.706(a)
	42 Chloroform	83	12.762	12.762	(0.859)	97201	5.00000	5.320
	43 2,2-Dichloropropane	77	12.895	12.895	(0.868)	85190	5.00000	5.158
$	44 Dibromofluoromethane	111	12.939	12.939	(0.871)	170437	30.0000	31.03
	22 Methyl acetate	43	10.024	10.024	(0.675)	61332	5.00000	8.624
	47 Tetrahydrofuran	42	13.292	13.292	(0.895)	22811	5.00000	6.302(a)
	52 Cyclohexane	56	14.426	14.426	(0.971)	85465	5.00000	5.119(a)
$	48 1,2-Dichloroethane-d4	102	13.646	13.646	(0.919)	41967	30.0000	30.61
	49 1,2-Dichloroethane	62	13.763	13.763	(0.927)	87860	5.00000	5.313
	50 1,1,1-Trichloroethane	97	13.940	13.940	(0.939)	75780	5.00000	5.211
	51 1,1-Dichloropropene	75	14.220	14.220	(0.957)	68667	5.00000	5.052
	53 Carbon tetrachloride	117	14.514	14.514	(0.977)	38513	5.00000	3.943(a)
	54 Benzene	78	14.529	14.529	(0.978)	175555	5.00000	5.326
	58 Dibromomethane	93	15.412	15.412	(1.038)	32963	5.00000	5.314
	59 1,2-Dichloropropane	63	15.442	15.442	(1.040)	49314	5.00000	4.956(a)
	60 Trichloroethene	95	15.530	15.530	(1.046)	50008	5.00000	5.346
	61 Bromodichloromethane	83	15.589	15.589	(1.050)	70259	5.00000	5.273
	62 Methyl methacrylate	41	15.707	15.707	(1.057)	65620	5.00000	5.442
	68 cis-1,3-Dichloropropene	75	16.531	16.531	(1.113)	87572	5.00000	5.256
	70 4-Methyl-2-pentanone	43	16.634	16.634	(1.120)	142163	10.0000	11.01(a)
	71 trans-1,3-Dichloropropene	75	17.149	17.149	(0.869)	85648	5.00000	5.608
	72 1,1,2-Trichloroethane	83	17.400	17.400	(0.881)	36460	5.00000	5.838
$	73 Toluene-d8	98	17.577	17.577	(0.890)	511273	30.0000	31.52
	74 Toluene	92	17.680	17.680	(0.896)	105727	5.00000	5.564
	76 1,3-Dichloropropane	76	17.768	17.768	(0.900)	81511	5.00000	5.697
	75 Ethyl methacrylate	69	17.680	17.680	(0.896)	72871	5.00000	5.791
	77 2-Hexanone	43	17.915	17.915	(0.907)	118073	10.0000	12.14(a)
	78 Dibromochloromethane	129	18.210	18.210	(0.922)	43804	5.00000	5.536
	79 1,2-Dibromoethane	107	18.564	18.564	(0.940)	43472	5.00000	5.541
	65 Methyl cyclohexane	83	16.354	16.354	(1.101)	75452	5.00000	5.136
	80 Tetrachloroethene	166	18.814	18.814	(0.953)	40539	5.00000	5.765
	81 1,1,1,2-Tetrachloroethane	131	19.698	19.698	(0.998)	42259	5.00000	5.725
*	82 Chlorobenzene-d5	82	19.742	19.742	(1.000)	277811	30.0000	
	83 Chlorobenzene	112	19.801	19.801	(1.003)	108779	5.00000	5.570
	87 Bromoform	173	20.553	20.553	(0.876)	27658	5.00000	4.961(a)
	84 Ethylbenzene	91	20.022	20.022	(1.014)	205687	5.00000	5.478
	85 m,p-Xylene	91	20.273	20.273	(1.027)	323747	10.0000	8.776
M	91 Xylene(total)	91				495123	5.00000	14.42
	89 o-Xylene	91	20.877	20.877	(1.058)	171376	5.00000	4.760(a)
	88 Styrene	104	20.759	20.759	(1.052)	127671	5.00000	5.462

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD02.D
Report Date: 09-Jun-2006 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.907	20.907	(0.891)	63749	5.00000	5.674
	92 1,2,3-Trichloropropane	110	21.114	21.114	(1.069)	19858	5.00000	5.988
	94 Isopropylbenzene	105	21.394	21.394	(1.084)	191543	5.00000	5.541
$	95 Bromofluorobenzene	95	21.482	21.482	(1.088)	246792	30.0000	31.98
	96 Bromobenzene	156	21.851	21.851	(0.931)	46085	5.00000	5.383
	97 n-Propylbenzene	91	22.029	22.029	(0.939)	252616	5.00000	5.168
	98 2-Chlorotoluene	91	22.235	22.235	(0.948)	177209	5.00000	5.486
	99 4-Chlorotoluene	91	22.339	22.339	(0.952)	187363	5.00000	5.192
	100 1,3,5-Trimethylbenzene	105	22.398	22.398	(0.955)	159580	5.00000	5.181
	102 tert-Butylbenzene	119	22.885	22.885	(0.975)	140927	5.00000	5.221
	103 1,2,4-Trimethylbenzene	105	23.018	23.018	(0.981)	164170	5.00000	5.207
	104 sec-Butylbenzene	105	23.210	23.210	(0.989)	216629	5.00000	5.052
	105 1,3-Dichlorobenzene	146	23.417	23.417	(0.998)	83231	5.00000	5.107
*	106 1,4-Dichlorobenzene-d4	152	23.461	23.461	(1.000)	203350	30.0000	
	108 1,4-Dichlorobenzene	146	23.490	23.490	(1.001)	75922	5.00000	4.465(aM)
	107 p-Isopropyltoluene	119	23.431	23.431	(0.999)	172055	5.00000	5.259
	109 1,2-Dichlorobenzene	146	24.067	24.067	(1.026)	74325	5.00000	5.056
	110 n-Butylbenzene	91	24.067	24.067	(1.026)	181719	5.00000	5.236
	111 1,2-Dibromo-3-chloropropane	157	24.805	24.805	(1.057)	11892	5.00000	5.382(a)
	112 1,2,4-Trichlorobenzene	180	27.022	27.022	(1.152)	51283	5.00000	5.242
	113 Naphthalene	128	27.480	27.480	(1.171)	155374	5.00000	5.776
	114 Hexachlorobutadiene	225	27.510	27.510	(1.173)	27901	5.00000	5.244
	115 1,2,3-Trichlorobenzene	180	27.865	27.865	(1.188)	47551	5.00000	5.293

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD02.D
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Sample Info: V1STD5.0ppb;;;;;

Instrument: voa1.i

Operator: ADM
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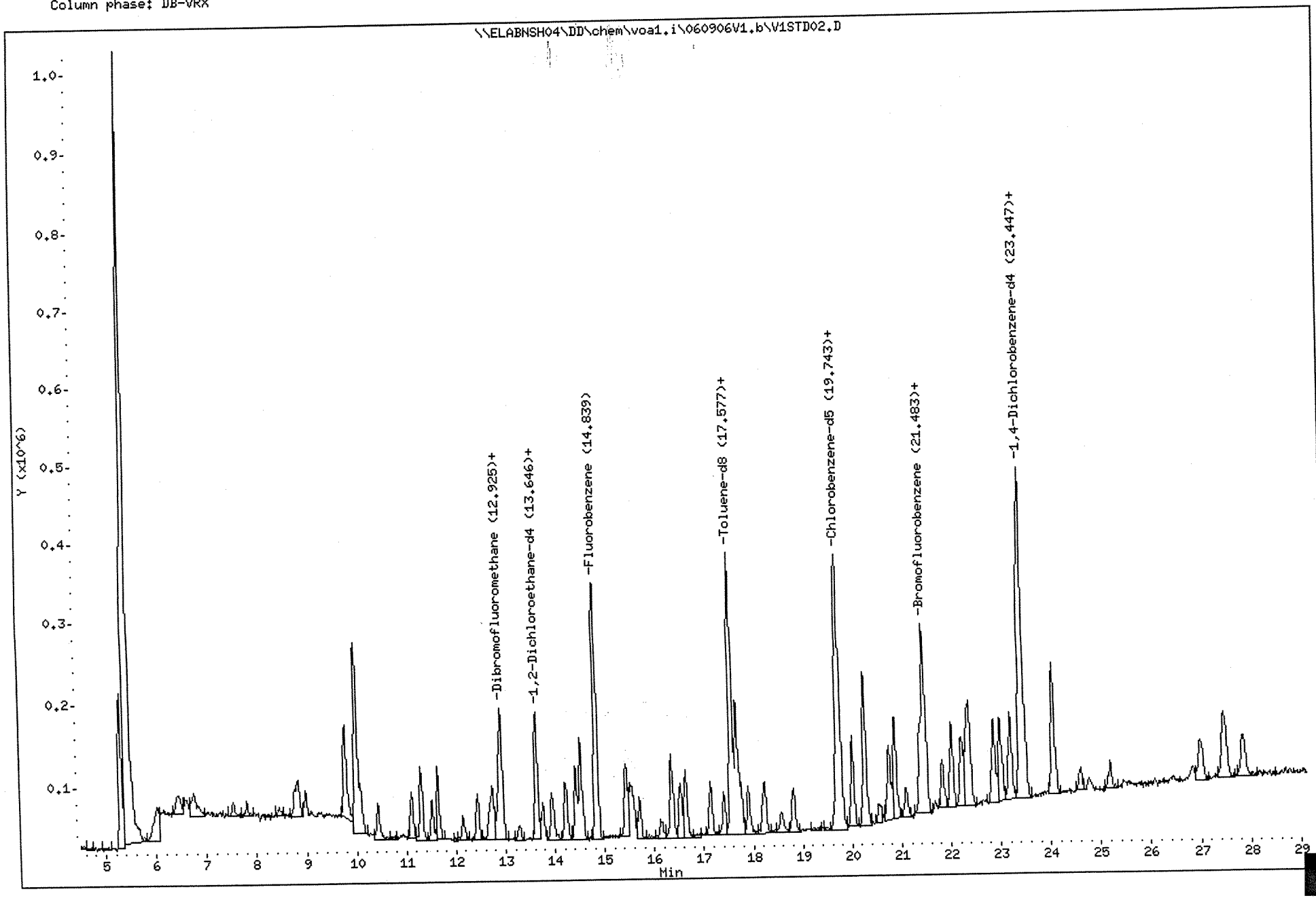
Column phase: DB-VRX



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Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\voa1.i\060906V1.b\V1STD02.D
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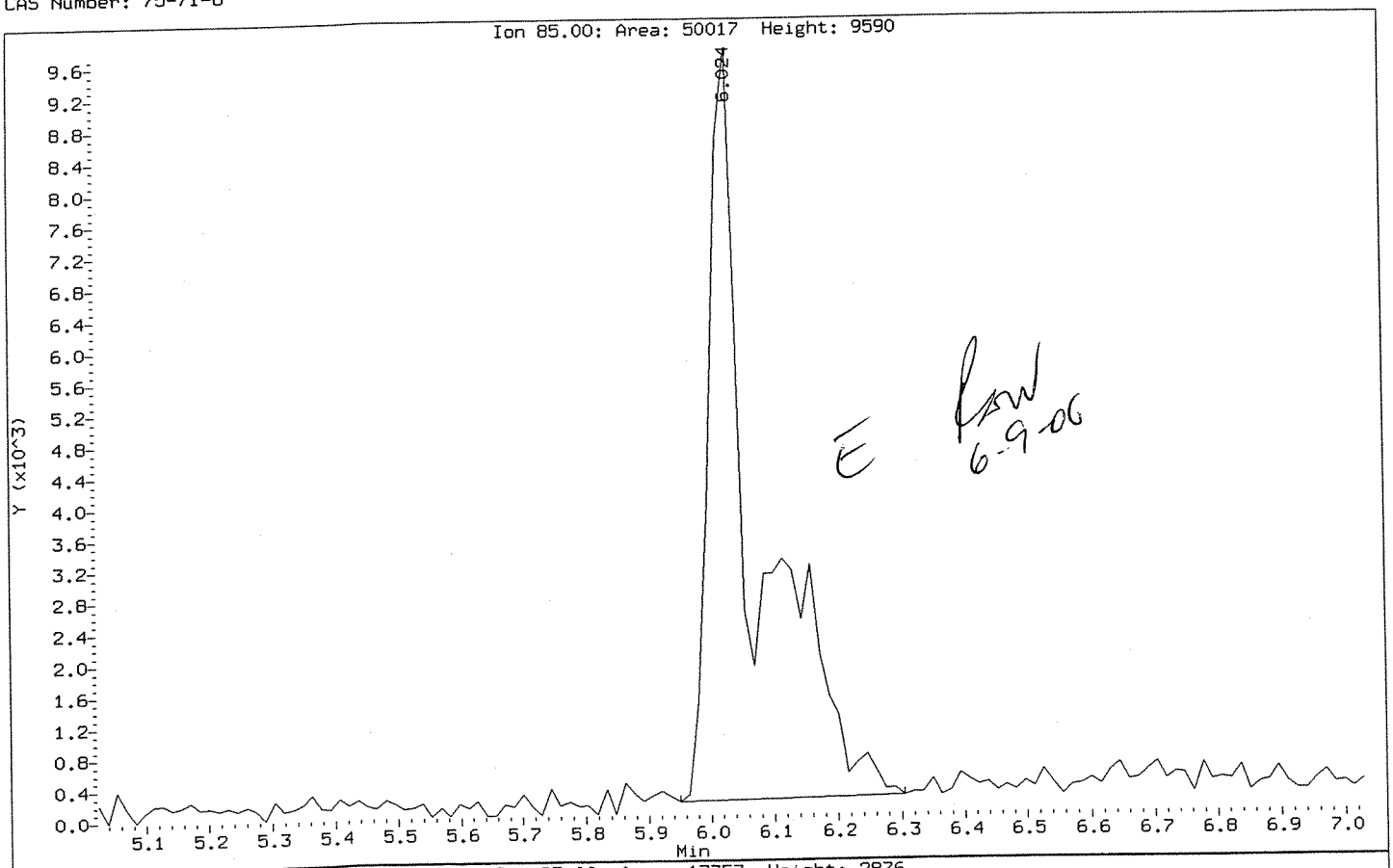
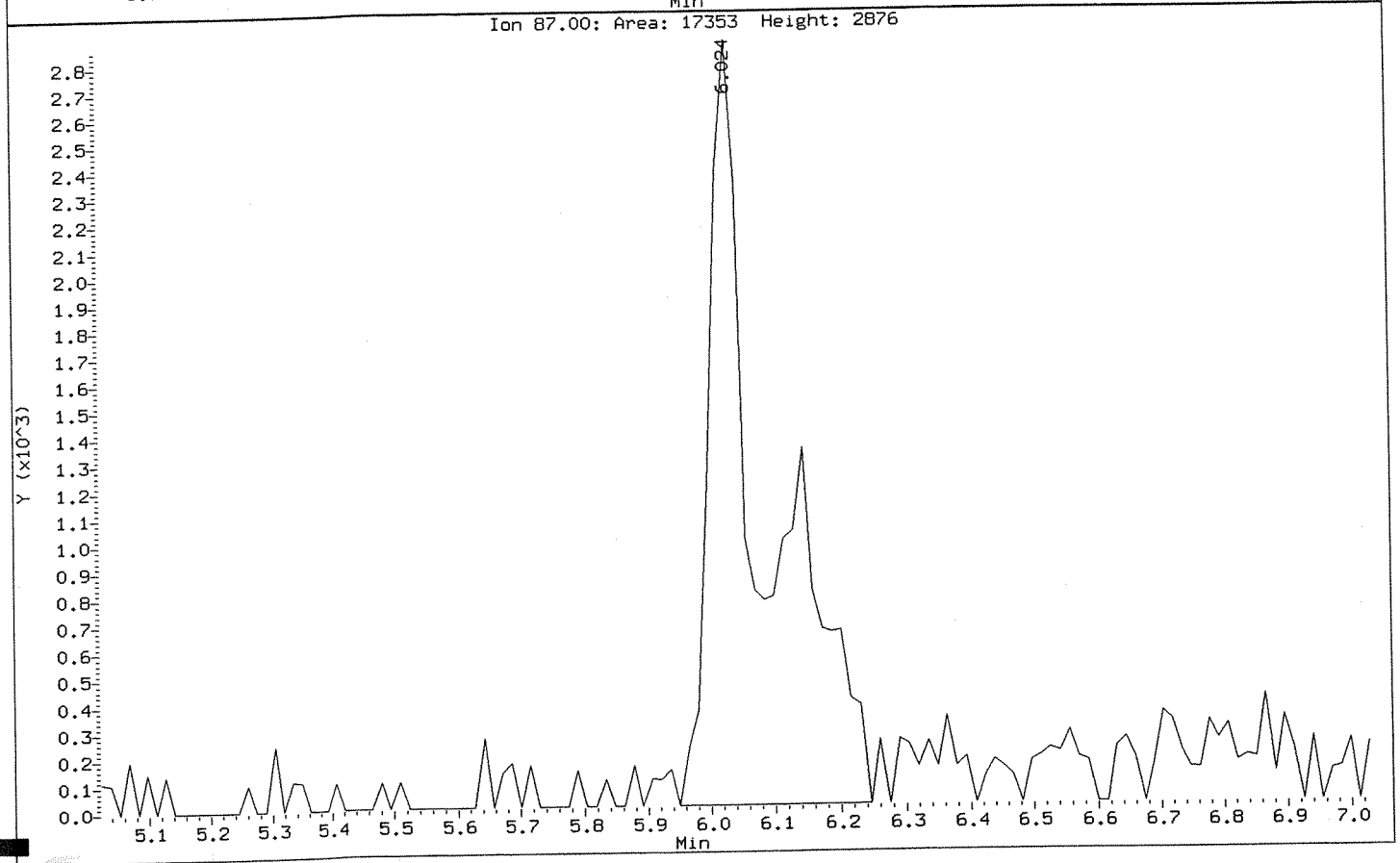
Instrument: voa1.i
Client Sample ID: V1STD5.0ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



E LAW 6-9-06



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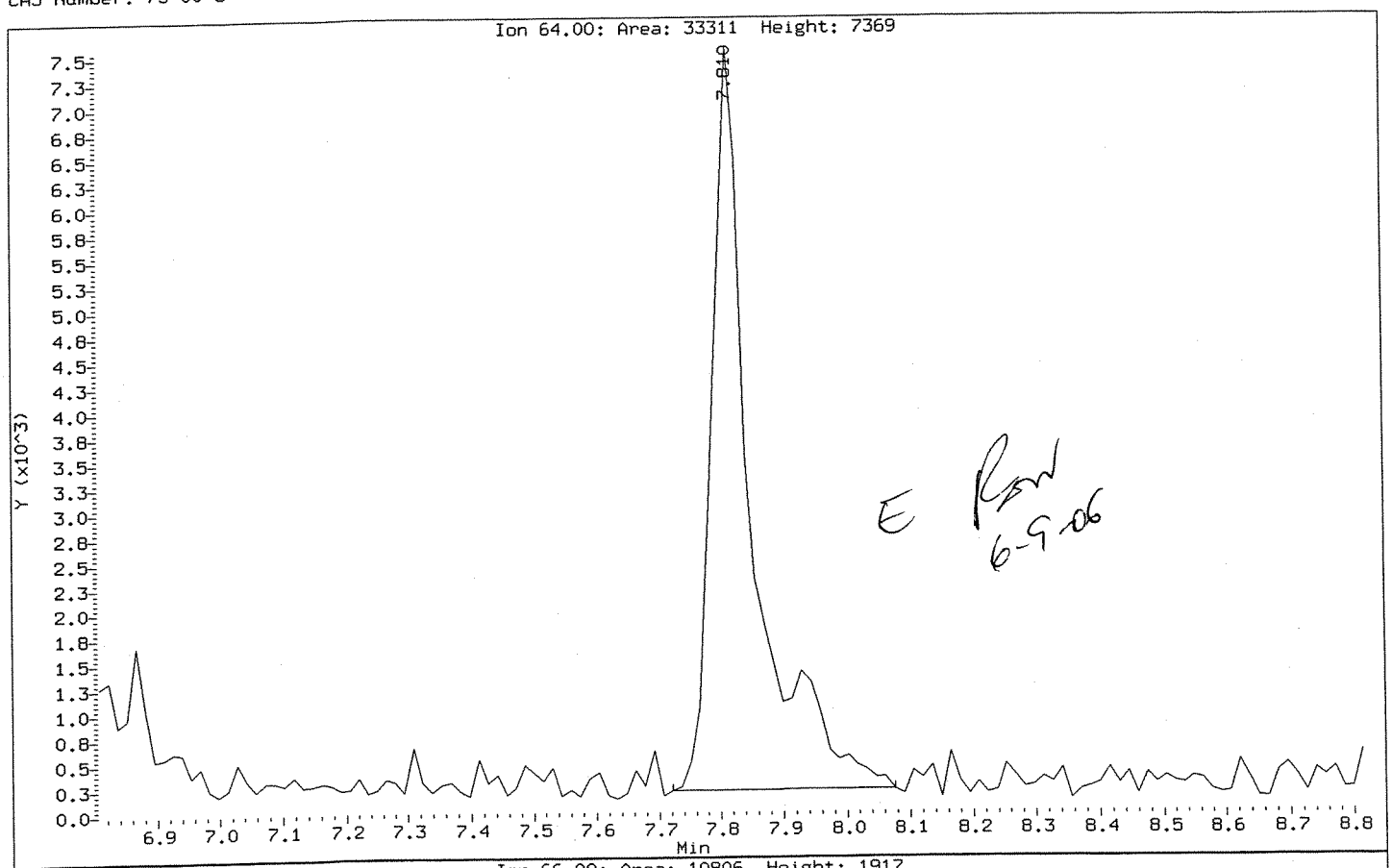
Instrument: voa1.i
Client Sample ID: V1STD5.0ppb

Compound: Chloroethane
CAS Number: 75-00-3



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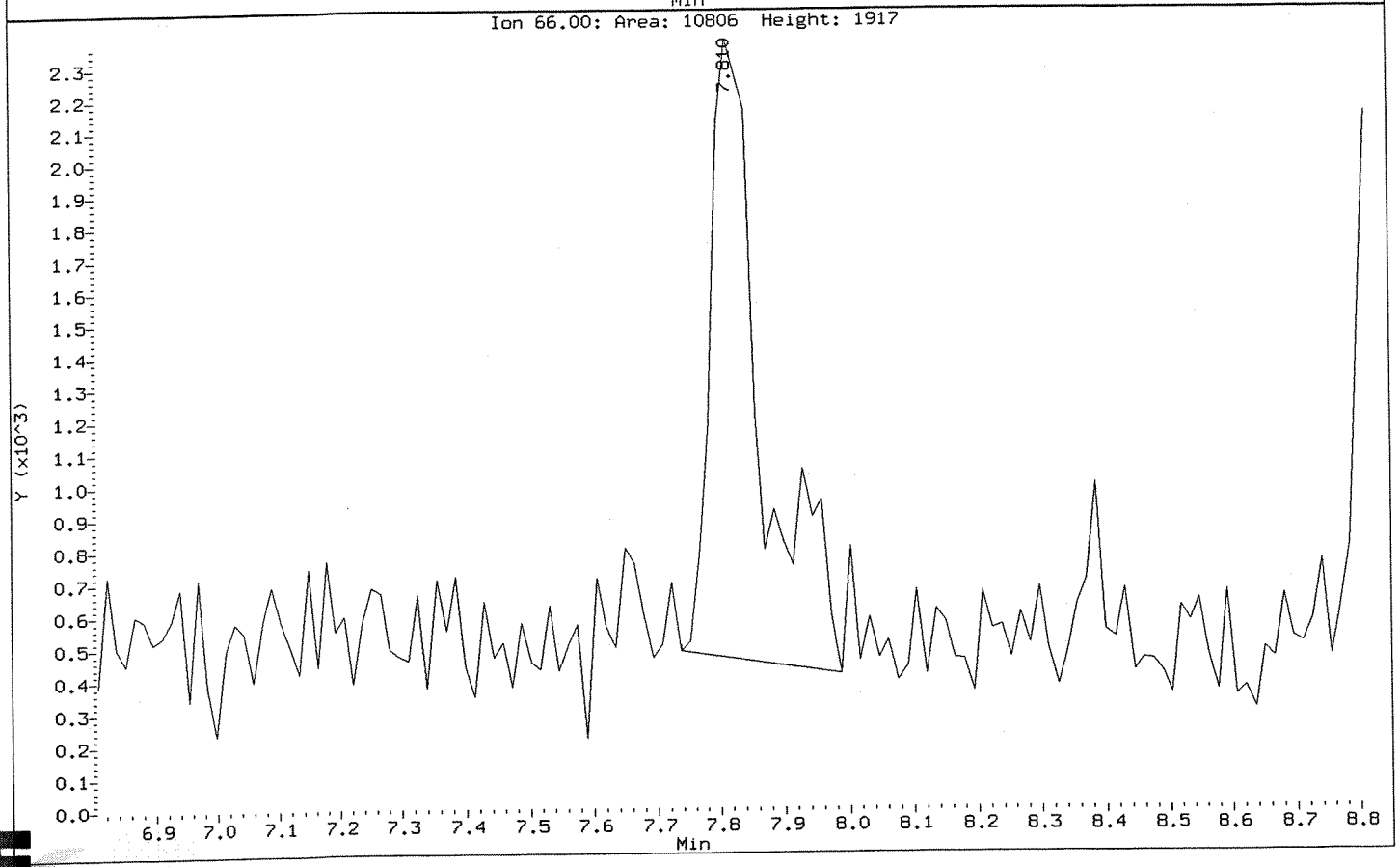

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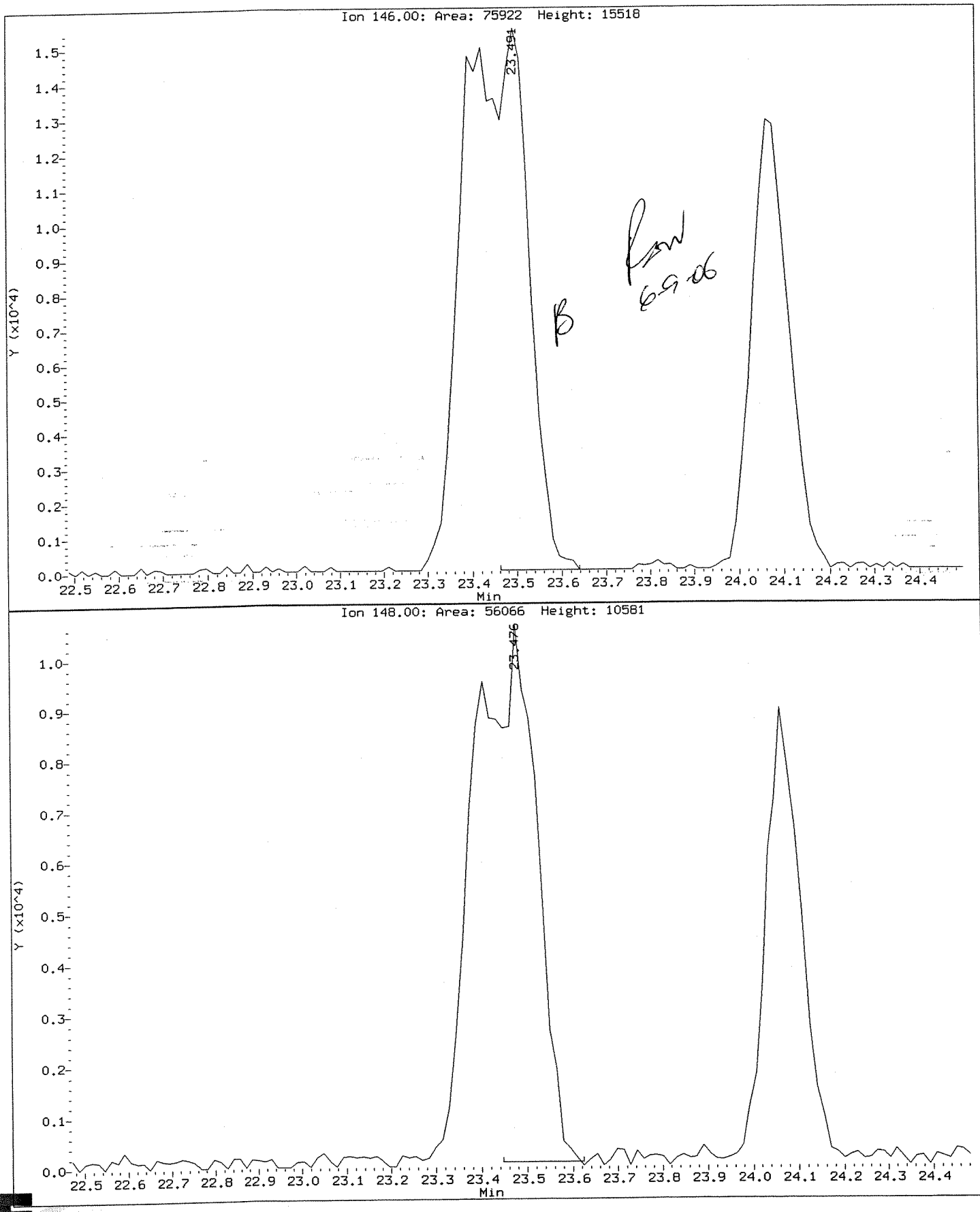
Injection Date: 09-JUN-2006 14:50
Instrument: voa1.i
Client Sample ID: V1STD5.0ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



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6-9-06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
Report Date: 09-Jun-2006 16:21

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
Lab Smp Id: V1STD2.0ppb Client Smp ID: V1STD2.0ppb
Inj Date : 09-JUN-2006 15:27 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD2.0ppb;;;;;
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Comment :
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Meth Date : 09-Jun-2006 16:21 rward Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-RWARD1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

6/12/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.852	14.852	(1.000)	558155	30.0000	
1 Dichlorodifluoromethane	85	6.009	6.009	(0.405)	21467	2.00000	2.244(aM)
4 Chloromethane	50	6.452	6.452	(0.434)	32145	2.00000	2.478(a)
5 Vinyl chloride	62	6.777	6.777	(0.456)	25025	2.00000	2.216(a)
6 Bromomethane	94	7.544	7.544	(0.508)	12036	2.00000	2.245(a)
7 Chloroethane	64	7.810	7.810	(0.526)	13560	2.00000	1.941(aM)
9 Trichlorofluoromethane	101	8.843	8.843	(0.595)	29079	2.00000	2.010(a)
21 Trichlorotrifluoroethane	101	10.112	10.112	(0.681)	14603	2.00000	1.966(a)
8 Acrolein	56	8.784	8.784	(0.591)	20009	10.0000	9.331(a)
12 Acetone	43	8.990	8.990	(0.605)	36862	4.00000	6.828(a)
15 1,1-Dichloroethene	96	9.787	9.787	(0.659)	15663	2.00000	2.170(a)
16 Iodomethane	142	9.846	9.846	(0.663)	10178	2.00000	1.302(a)
17 Acrylonitrile	53	9.802	9.802	(0.660)	28142	10.0000	9.365(a)
20 Methylene chloride	84	10.009	10.009	(0.674)	145421	2.00000	3.342(a)
25 Carbon disulfide	76	10.436	10.436	(0.703)	52033	2.00000	2.049(a)

RPW 6-9-06

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
Report Date: 09-Jun-2006 16:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.113	11.113	(0.748)	16330	2.00000	1.934(a)
	29 MTBE	73	11.304	11.304	(0.761)	65010	2.00000	2.223(a)
	30 1,1-Dichloroethane	63	11.525	11.525	(0.776)	38842	2.00000	2.108(a)
	32 Vinyl acetate	43	11.643	11.643	(0.784)	94797	4.00000	3.805(a)
	35 2-Butanone	43	12.143	12.143	(0.818)	29877	4.00000	4.077(a)
	38 cis-1,2-Dichloroethene	96	12.452	12.452	(0.838)	19477	2.00000	2.101(a)
M	18 1,2-Dichloroethene(total)	96				35807	4.00000	4.042(a)
	41 Bromochloromethane	128	12.688	12.688	(0.854)	8619	2.00000	1.940(a)
	42 Chloroform	83	12.747	12.747	(0.858)	42850	2.00000	2.346(a)
	43 2,2-Dichloropropane	77	12.894	12.894	(0.868)	34989	2.00000	2.120(a)
$	44 Dibromofluoromethane	111	12.938	12.938	(0.871)	170837	30.0000	31.12
	22 Methyl acetate	43	10.023	10.023	(0.675)	20391	2.00000	2.869(aM)
	47 Tetrahydrofuran	42	13.277	13.277	(0.894)	9124	2.00000	2.522(a)
	52 Cyclohexane	56	14.440	14.440	(0.972)	40121	2.00000	2.404(a)
$	48 1,2-Dichloroethane-d4	102	13.645	13.645	(0.919)	39967	30.0000	29.17
	49 1,2-Dichloroethane	62	13.762	13.762	(0.927)	32703	2.00000	1.979(a)
	50 1,1,1-Trichloroethane	97	13.954	13.954	(0.940)	29056	2.00000	1.999(a)
	51 1,1-Dichloropropene	75	14.234	14.234	(0.958)	27507	2.00000	2.025(a)
	53 Carbon tetrachloride	117	14.528	14.528	(0.978)	10059	2.00000	1.030(a)
	54 Benzene	78	14.528	14.528	(0.978)	67083	2.00000	2.036(a)
	58 Dibromomethane	93	15.411	15.411	(1.038)	12641	2.00000	2.039(a)
	59 1,2-Dichloropropane	63	15.455	15.455	(1.041)	22996	2.00000	2.313(a)
	60 Trichloroethene	95	15.514	15.514	(1.045)	19610	2.00000	2.098(a)
	61 Bromodichloromethane	83	15.588	15.588	(1.050)	25862	2.00000	1.942(a)
	62 Methyl methacrylate	41	15.705	15.705	(1.057)	24731	2.00000	2.052(a)
	68 cis-1,3-Dichloropropene	75	16.545	16.545	(1.114)	33156	2.00000	1.991(a)
	70 4-Methyl-2-pentanone	43	16.648	16.648	(1.121)	53139	4.00000	4.118(a)
	71 trans-1,3-Dichloropropene	75	17.148	17.148	(0.869)	33105	2.00000	2.183(a)
	72 1,1,2-Trichloroethane	83	17.413	17.413	(0.882)	12367	2.00000	1.994(a)
$	73 Toluene-d8	98	17.575	17.575	(0.890)	510279	30.0000	31.68
	74 Toluene	92	17.693	17.693	(0.896)	42788	2.00000	2.268(a)
	76 1,3-Dichloropropane	76	17.781	17.781	(0.901)	29174	2.00000	2.053(a)
	75 Ethyl methacrylate	69	17.678	17.678	(0.896)	34417	2.00000	2.754(a)
	77 2-Hexanone	43	17.929	17.929	(0.908)	41417	4.00000	4.288(a)
	78 Dibromochloromethane	129	18.223	18.223	(0.923)	15935	2.00000	2.028(a)
	79 1,2-Dibromoethane	107	18.562	18.562	(0.940)	17529	2.00000	2.250(a)
	65 Methyl cyclohexane	83	16.368	16.368	(1.102)	30385	2.00000	2.070(a)
	80 Tetrachloroethene	166	18.812	18.812	(0.953)	13328	2.00000	1.908(a)
	81 1,1,1,2-Tetrachloroethane	131	19.696	19.696	(0.998)	15192	2.00000	2.072(a)
*	82 Chlorobenzene-d5	82	19.740	19.740	(1.000)	275877	30.0000	
	83 Chlorobenzene	112	19.785	19.785	(1.002)	41959	2.00000	2.164(a)
	87 Bromoform	173	20.566	20.566	(0.877)	9545	2.00000	1.814(a)
	84 Ethylbenzene	91	20.020	20.020	(1.014)	80231	2.00000	2.152(a)
	85 m,p-Xylene	91	20.286	20.286	(1.028)	127260	4.00000	3.404(a)
M	91 Xylene(total)	91				195330	2.00000	5.484
	89 o-Xylene	91	20.890	20.890	(1.058)	68070	2.00000	1.874(a)
	88 Styrene	104	20.772	20.772	(1.052)	52033	2.00000	2.242(a)

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
Report Date: 09-Jun-2006 16:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
90 1,1,2,2-Tetrachloroethane	83	20.905	20.905	(0.891)	23285	2.00000	2.196(a)
92 1,2,3-Trichloropropane	110	21.126	21.126	(1.070)	7676	2.00000	2.331(a)
94 Isopropylbenzene	105	21.406	21.406	(1.084)	71907	2.00000	2.095(a)
$ 95 Bromofluorobenzene	95	21.480	21.480	(1.088)	252222	30.0000	32.91
96 Bromobenzene	156	21.864	21.864	(0.932)	16671	2.00000	2.063(a)
97 n-Propylbenzene	91	22.041	22.041	(0.940)	94724	2.00000	2.053(a)
98 2-Chlorotoluene	91	22.233	22.233	(0.948)	64135	2.00000	2.103(a)
99 4-Chlorotoluene	91	22.351	22.351	(0.953)	65417	2.00000	1.920(a)
100 1,3,5-Trimethylbenzene	105	22.395	22.395	(0.955)	60596	2.00000	2.084(a)
102 tert-Butylbenzene	119	22.897	22.897	(0.976)	51370	2.00000	2.016(a)
103 1,2,4-Trimethylbenzene	105	23.015	23.015	(0.981)	63204	2.00000	2.124(a)
104 sec-Butylbenzene	105	23.208	23.208	(0.989)	84216	2.00000	2.081(a)
105 1,3-Dichlorobenzene	146	23.400	23.400	(0.997)	25776	2.00000	1.675(a)
* 106 1,4-Dichlorobenzene-d4	152	23.459	23.459	(1.000)	191952	30.0000	
108 1,4-Dichlorobenzene	146	23.488	23.488	(1.001)	39229	2.00000	2.444(aM)
107 p-Isopropyltoluene	119	23.444	23.444	(0.999)	65017	2.00000	2.105(a)
109 1,2-Dichlorobenzene	146	24.064	24.064	(1.026)	28148	2.00000	2.028(a)
110 n-Butylbenzene	91	24.079	24.079	(1.026)	68835	2.00000	2.101(a)
111 1,2-Dibromo-3-chloropropane	157	24.773	24.773	(1.056)	4841	2.00000	2.321(a)
112 1,2,4-Trichlorobenzene	180	27.004	27.004	(1.151)	20074	2.00000	2.174(a)
113 Naphthalene	128	27.477	27.477	(1.171)	56218	2.00000	2.214(a)
114 Hexachlorobutadiene	225	27.507	27.507	(1.173)	9605	2.00000	1.912(a)
115 1,2,3-Trichlorobenzene	180	27.876	27.876	(1.188)	18137	2.00000	2.139(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
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Sample Info: V1STD2.0ppb;;;;;

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Operator: ADM
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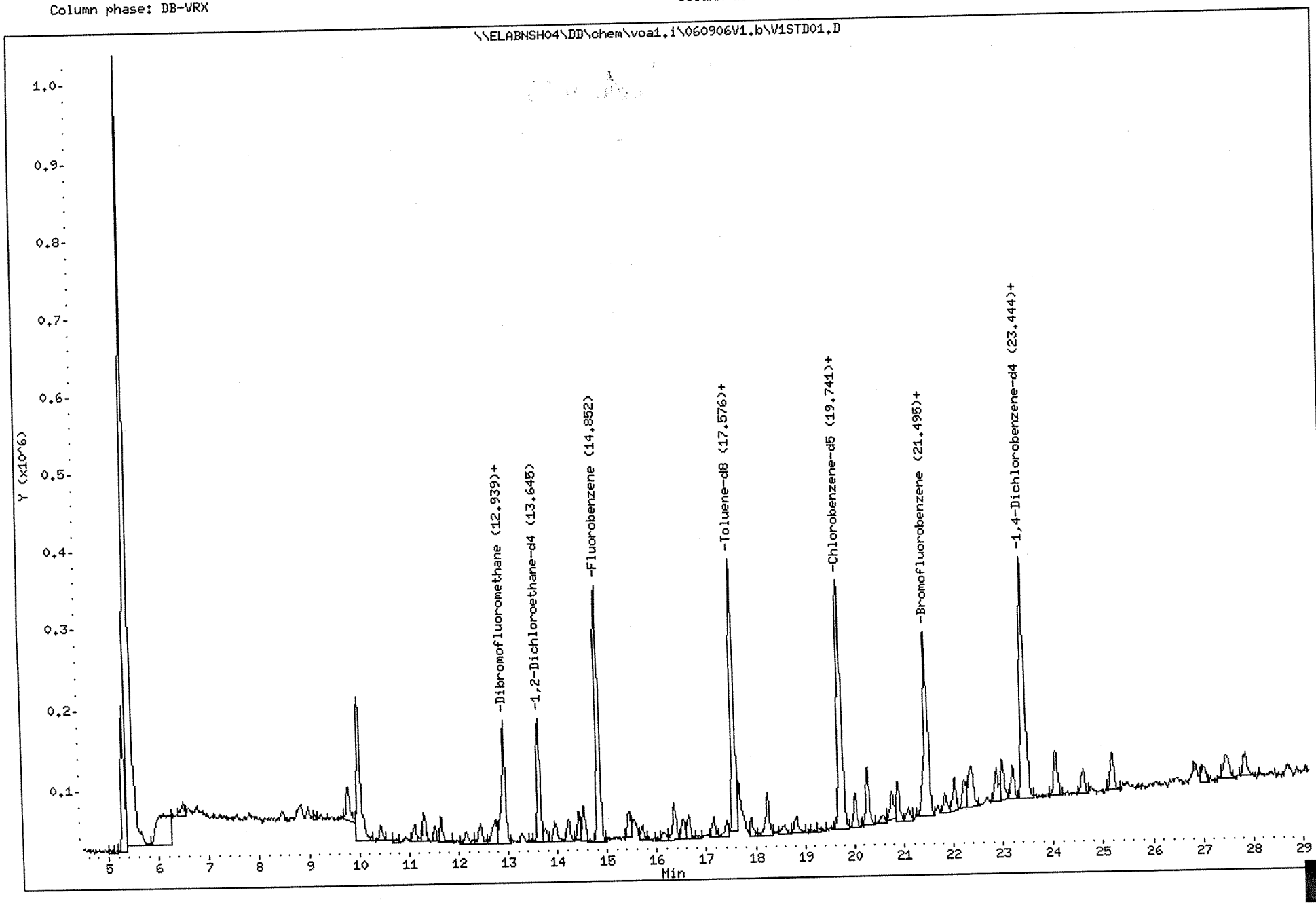

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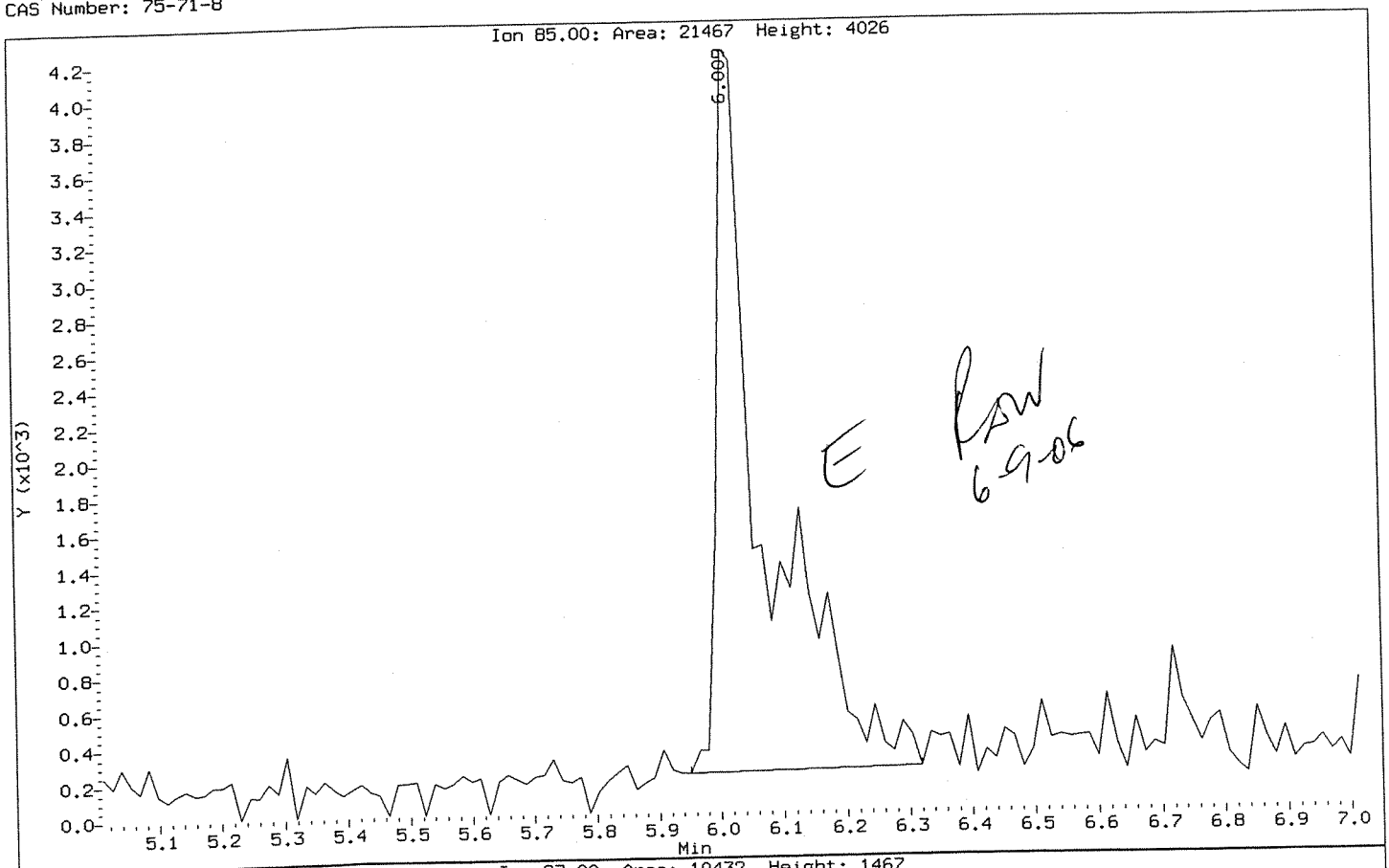
Injection Date: 09-JUN-2006 15:27
Instrument: voa1.i
Client Sample ID: V1STD2.0ppb

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8



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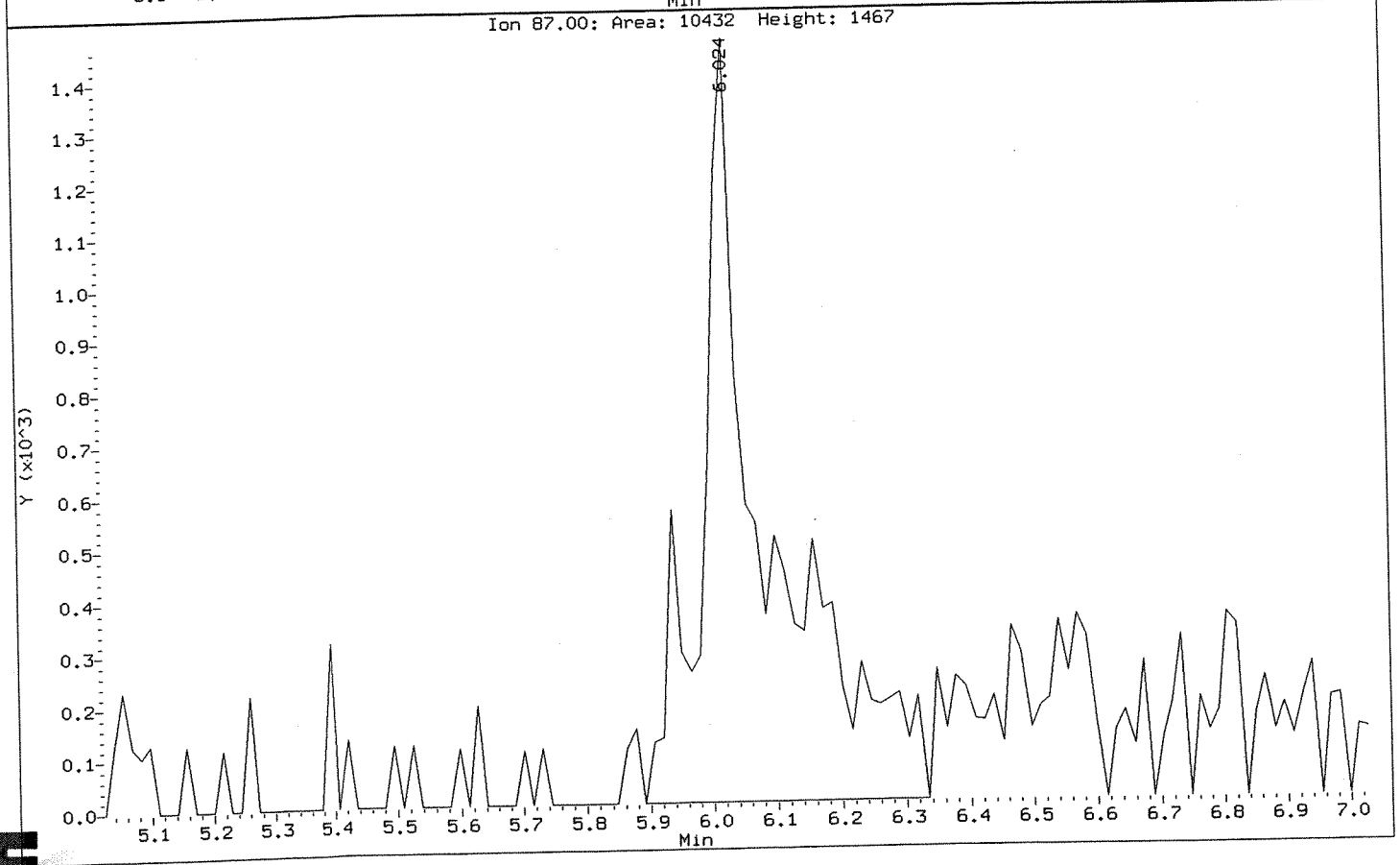

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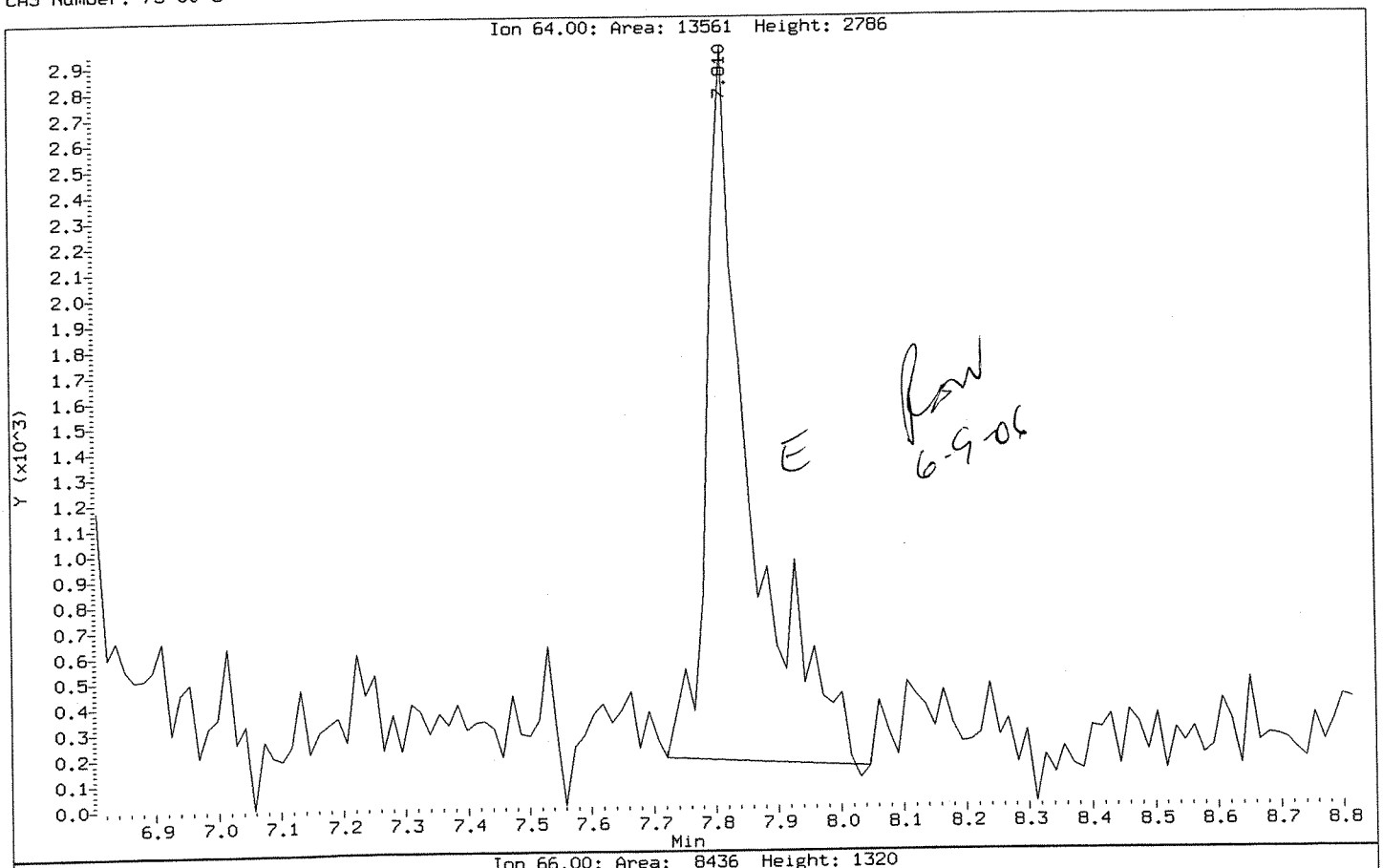
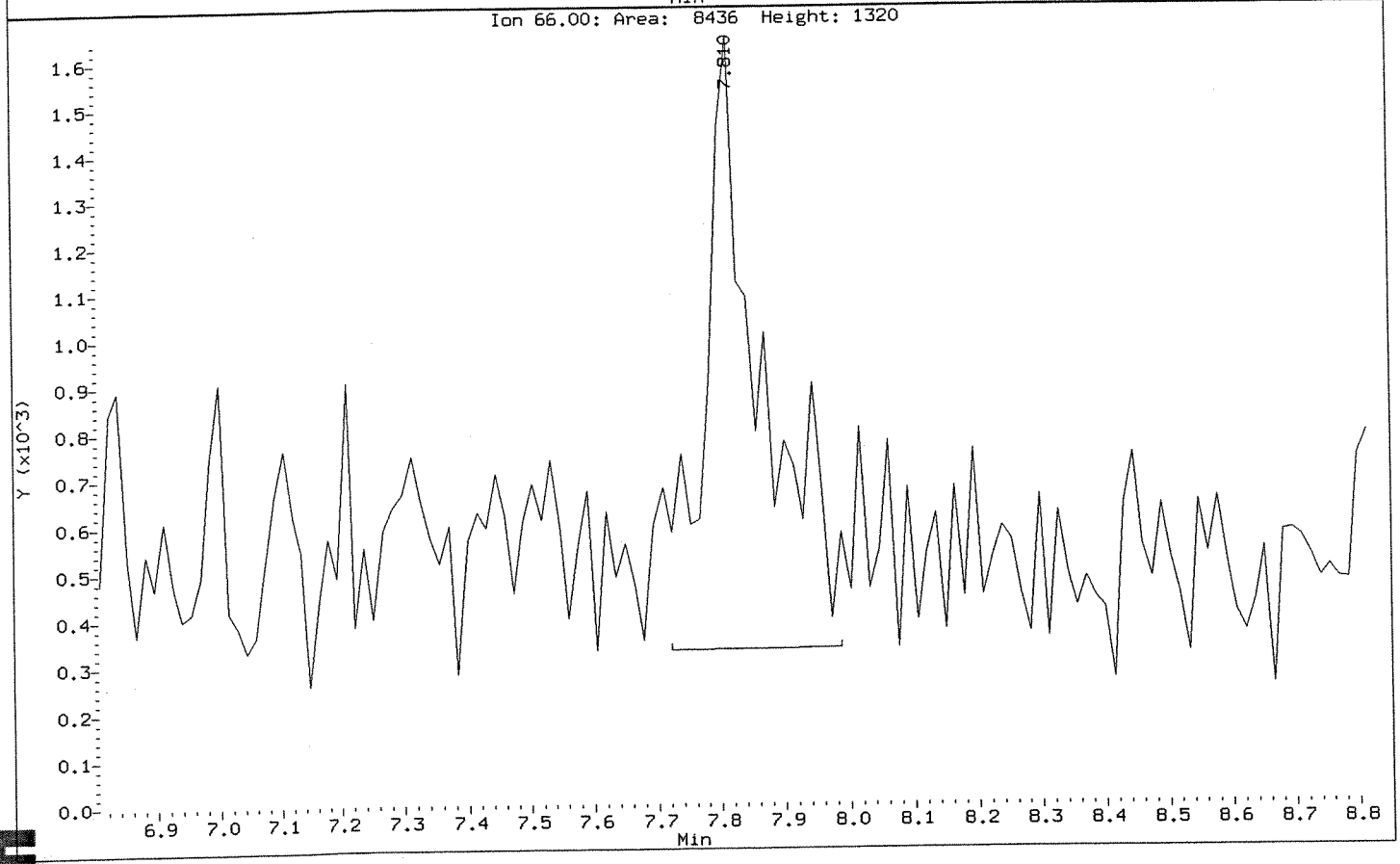
Instrument: voa1.i
Client Sample ID: V1STD2.Oppb

Compound: Chloroethane
CAS Number: 75-00-3

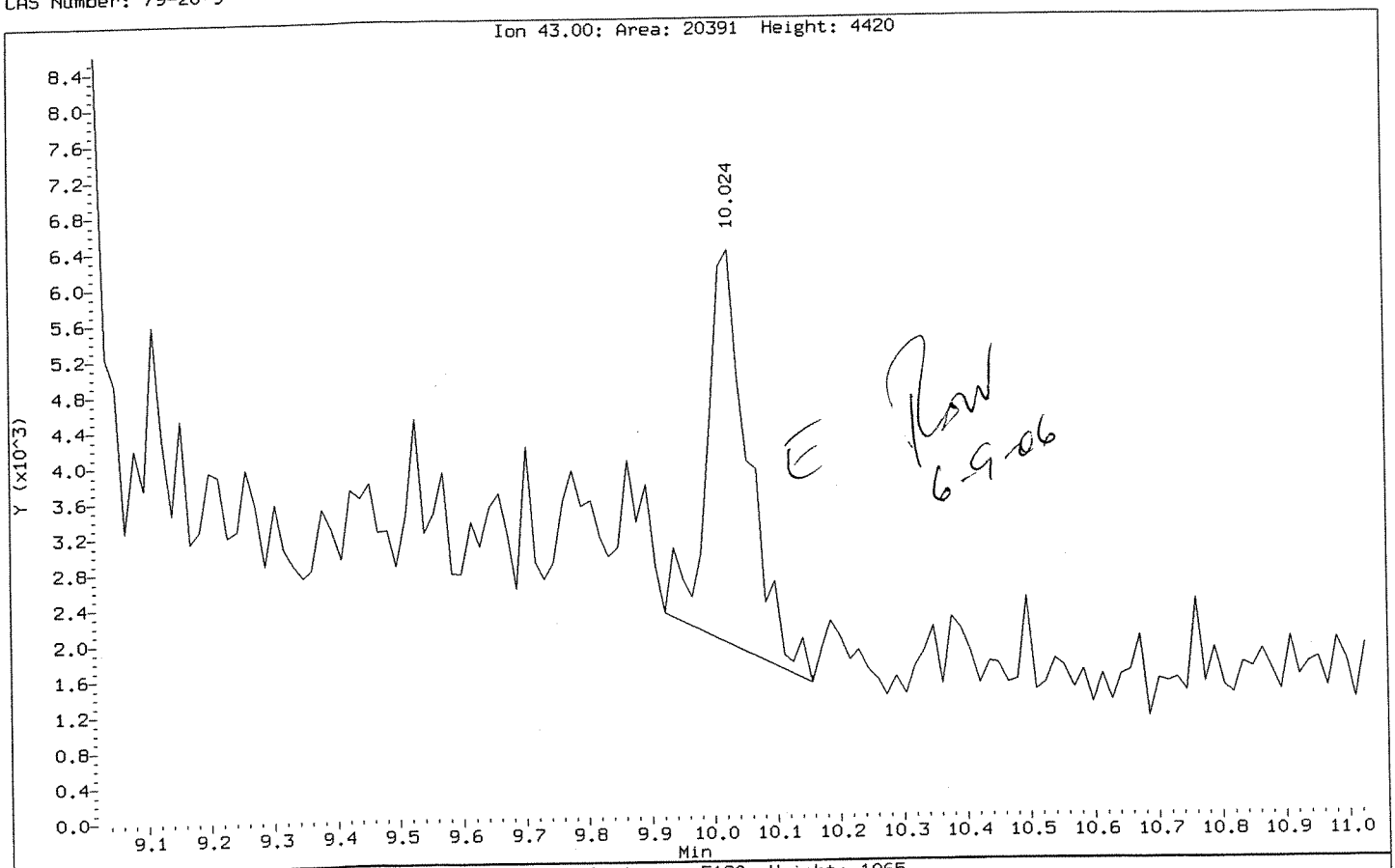




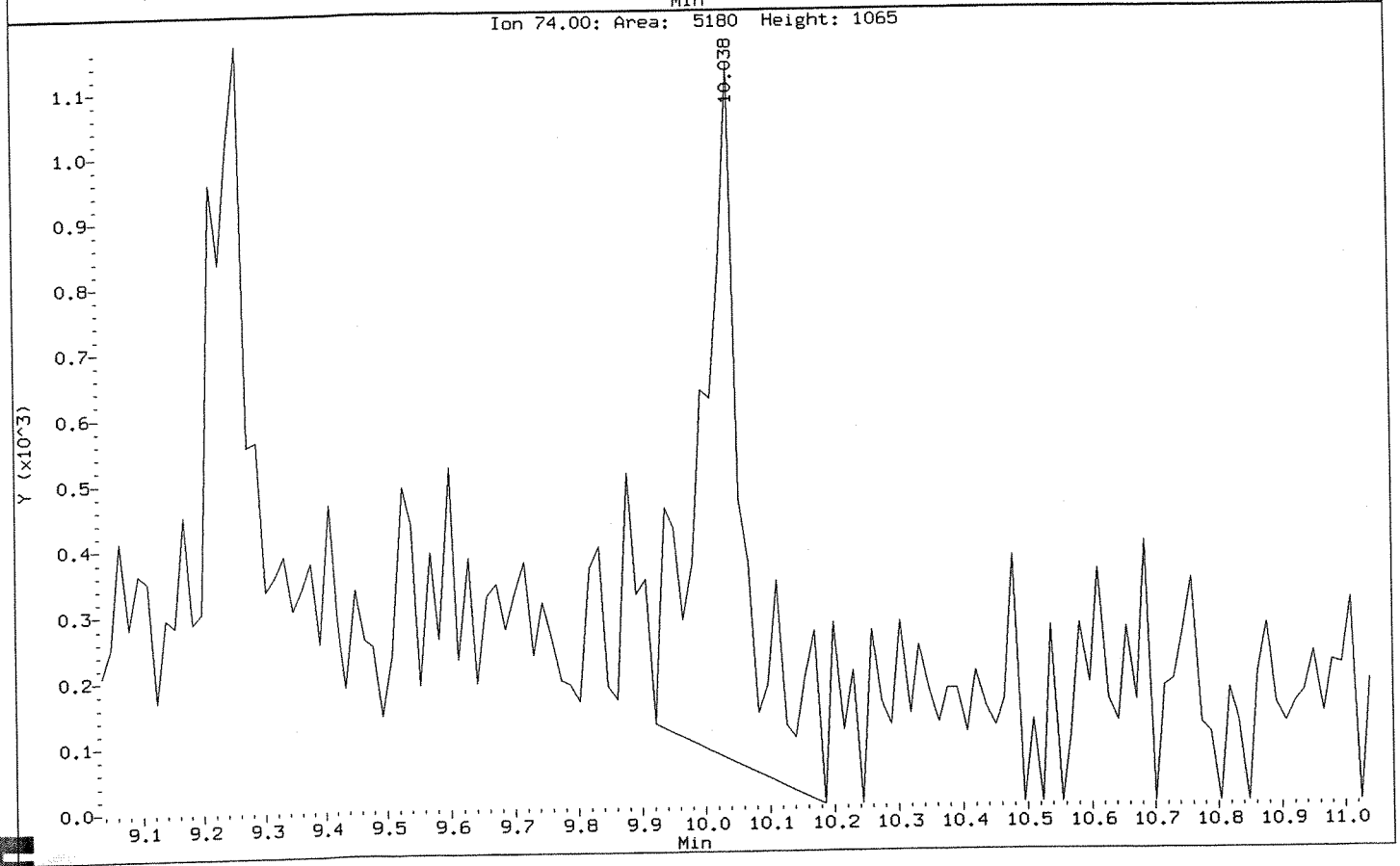
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1STD01.D
Injection Date: 09-JUN-2006 15:27
Instrument: voa1.i
Client Sample ID: V1STD2.0ppb

Compound: Methyl acetate
CAS Number: 79-20-9



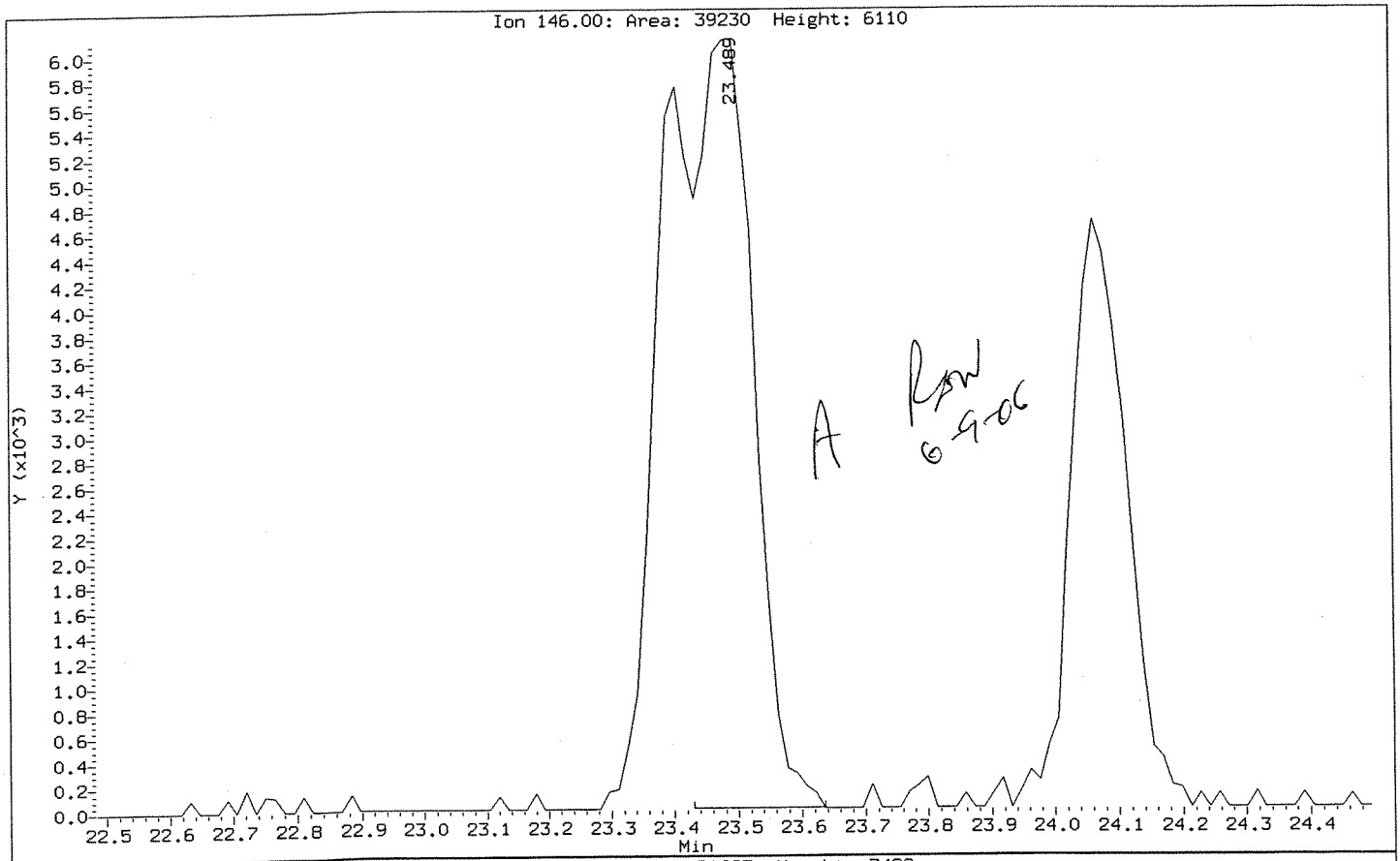
E Row 6-9-06

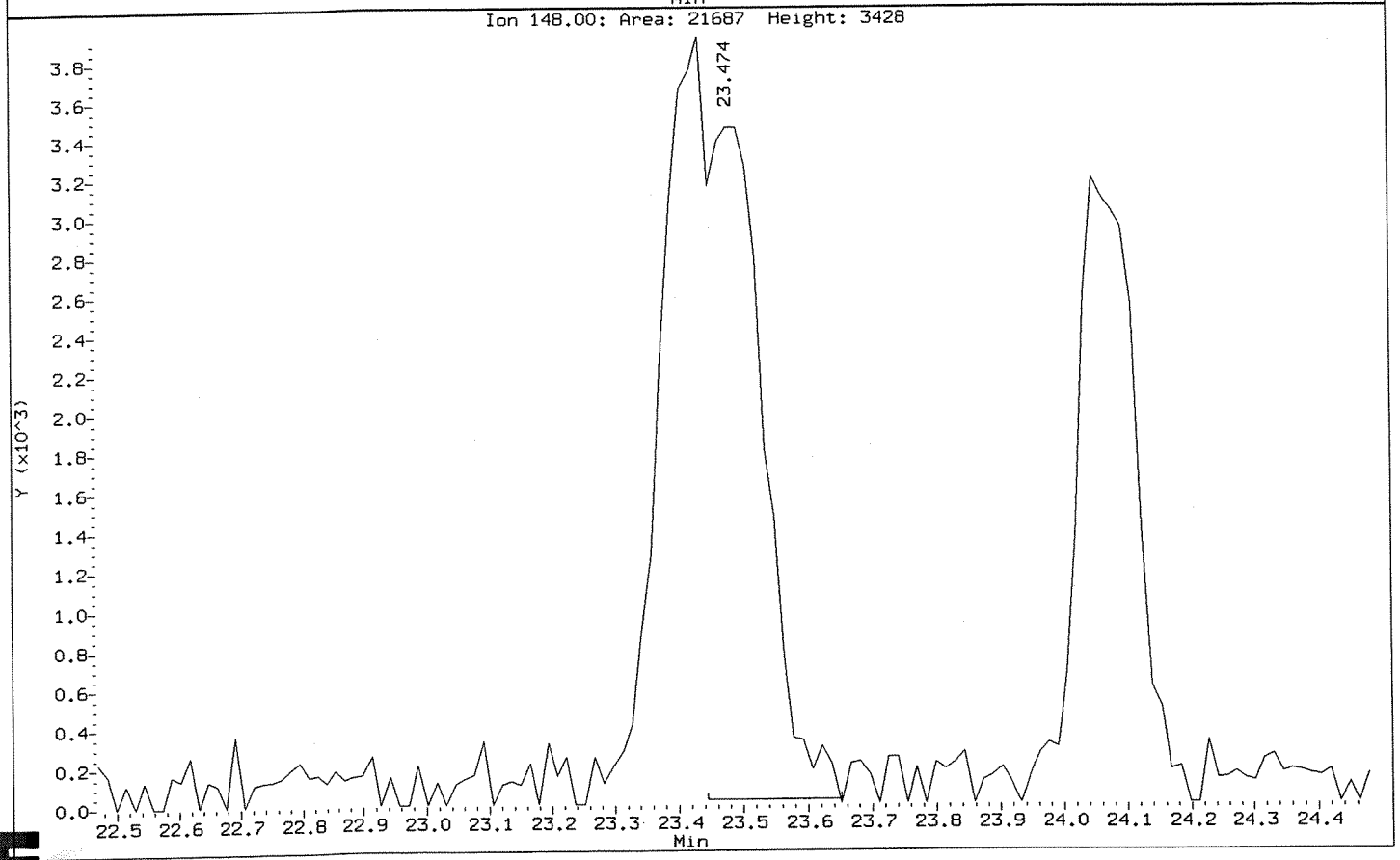


Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\voa1.i\060906V1.b\V1STD01.D
Injection Date: 09-JUN-2006 15:27
Instrument: voa1.i
Client Sample ID: V1STD2.0ppb

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





FORM 3
AIR VOLATILE METHOD SPIKE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: SDGA88279

Matrix Spike - Client Sample No.: V1BLK0609ICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
Benzene	50.00	50.26	100	75-125
Ethylbenzene	50.00	50.11	100	75-125
Toluene	50.00	49.31	99	75-125
Xylene(total)	150.0	137.4	92	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

Data File: V1LCS01icv.D
Report Date: 14-Jul-2006 09:58

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\v1soilch2m.b\V1LCS01icv.D
Lab Smp Id: V1BLK0609ICV Client Smp ID: V1BLK0609ICV
Inj Date : 09-JUN-2006 16:03 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0609LCS;;;;;50ppb
Misc Info : ;3;LCS;;;gm-all.sub;#4894,4918
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\060906V1.b\v1soilch2m.b\V1SOILch2m.m
Meth Date : 14-Jul-2006 09:58 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

7/14/06

7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.852	14.852	(1.000)	568351	30.0000	
1 Dichlorodifluoromethane	85	6.024	6.024	(0.406)	418323	50.0000	42.95(M)
4 Chloromethane	50	6.451	6.451	(0.434)	513828	50.0000	38.89
5 Vinyl chloride	62	6.776	6.776	(0.456)	497830	50.0000	43.28
6 Bromomethane	94	7.544	7.544	(0.508)	207752	50.0000	38.06
7 Chloroethane	64	7.809	7.809	(0.526)	303159	50.0000	42.62
9 Trichlorofluoromethane	101	8.857	8.857	(0.596)	720142	50.0000	48.88
21 Trichlorotrifluoroethane	101	10.096	10.096	(0.680)	420788	50.0000	55.63
8 Acrolein	56	8.783	8.783	(0.591)	507107	250.000	232.2
12 Acetone	43	8.990	8.990	(0.605)	543030	100.000	84.09
15 1,1-Dichloroethene	96	9.786	9.786	(0.659)	353549	50.0000	48.11
16 Iodomethane	142	9.845	9.845	(0.663)	411287	50.0000	51.65
17 Acrylonitrile	53	9.801	9.801	(0.660)	728759	250.000	238.2
20 Methylene chloride	84	10.008	10.008	(0.674)	608707	50.0000	42.75
25 Carbon disulfide	76	10.435	10.435	(0.703)	1498575	50.0000	57.96
27 trans-1,2-Dichloroethene	96	11.112	11.112	(0.748)	434277	50.0000	50.50

MRL

Data File: V1LCS01icv.D
Report Date: 14-Jul-2006 09:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	29 MTBE	73	11.304	11.304	(0.761)	1475960	50.0000	49.56
	30 1,1-Dichloroethane	63	11.524	11.524	(0.776)	943261	50.0000	50.27
	32 Vinyl acetate	43	11.642	11.642	(0.784)	2567326	100.000	101.2
	35 2-Butanone	43	12.157	12.157	(0.819)	659175	100.000	88.33
	38 cis-1,2-Dichloroethene	96	12.452	12.452	(0.838)	468649	50.0000	49.64
M	18 1,2-Dichloroethene(total)	96				902926	100.000	100.1
	41 Bromochloromethane	128	12.702	12.702	(0.855)	219542	50.0000	48.52
	42 Chloroform	83	12.761	12.761	(0.859)	913210	50.0000	49.11
	43 2,2-Dichloropropane	77	12.894	12.894	(0.868)	855729	50.0000	50.91
$	44 Dibromofluoromethane	111	12.938	12.938	(0.871)	167228	30.0000	29.92
	22 Methyl acetate	43	10.022	10.022	(0.675)	399428	50.0000	55.19
	47 Tetrahydrofuran	42	13.276	13.276	(0.894)	178008	50.0000	48.33
	52 Cyclohexane	56	14.440	14.440	(0.972)	850506	50.0000	50.06
$	48 1,2-Dichloroethane-d4	102	13.644	13.644	(0.919)	40867	30.0000	29.29
	49 1,2-Dichloroethane	62	13.762	13.762	(0.927)	908501	50.0000	53.98
	50 1,1,1-Trichloroethane	97	13.954	13.954	(0.940)	777233	50.0000	52.52
	51 1,1-Dichloropropene	75	14.233	14.233	(0.958)	718034	50.0000	51.91
	53 Carbon tetrachloride	117	14.528	14.528	(0.978)	581741	50.0000	58.53
	54 Benzene	78	14.543	14.543	(0.979)	1686124	50.0000	50.26
	58 Dibromomethane	93	15.426	15.426	(1.039)	326312	50.0000	51.69
	59 1,2-Dichloropropane	63	15.455	15.455	(1.041)	509171	50.0000	50.29
	60 Trichloroethene	95	15.529	15.529	(1.046)	487458	50.0000	51.21
	61 Bromodichloromethane	83	15.588	15.588	(1.050)	759974	50.0000	56.05
	62 Methyl methacrylate	41	15.706	15.706	(1.058)	612328	50.0000	49.90
	68 cis-1,3-Dichloropropene	75	16.545	16.545	(1.114)	880095	50.0000	51.91
	70 4-Methyl-2-pentanone	43	16.649	16.649	(1.121)	1321158	100.000	100.6
	71 trans-1,3-Dichloropropene	75	17.149	17.149	(0.869)	805636	50.0000	47.00
	72 1,1,2-Trichloroethane	83	17.414	17.414	(0.882)	357651	50.0000	51.03
$	73 Toluene-d8	98	17.576	17.576	(0.890)	524085	30.0000	28.79
	74 Toluene	92	17.694	17.694	(0.896)	1051475	50.0000	49.31
	76 1,3-Dichloropropane	76	17.768	17.768	(0.900)	839572	50.0000	52.29
	75 Ethyl methacrylate	69	17.694	17.694	(0.896)	712743	50.0000	50.47
	77 2-Hexanone	43	17.915	17.915	(0.907)	1005950	100.000	92.16
	78 Dibromochloromethane	129	18.210	18.210	(0.922)	484381	50.0000	54.55
	79 1,2-Dibromoethane	107	18.579	18.579	(0.941)	456703	50.0000	51.87
	65 Methyl cyclohexane	83	16.369	16.369	(1.102)	771025	50.0000	51.58
	80 Tetrachloroethene	166	18.829	18.829	(0.954)	399519	50.0000	50.62
	81 1,1,1,2-Tetrachloroethane	131	19.684	19.684	(0.997)	428561	50.0000	51.73
*	82 Chlorobenzene-d5	82	19.743	19.743	(1.000)	311779	30.0000	
	83 Chlorobenzene	112	19.802	19.802	(1.003)	1096574	50.0000	50.03
	87 Bromoform	173	20.569	20.569	(0.877)	314937	50.0000	55.23
	84 Ethylbenzene	91	20.023	20.023	(1.014)	2111716	50.0000	50.11
	85 m,p-Xylene	91	20.288	20.288	(1.028)	3159603	100.000	93.81
M	91 Xylene(total)	91				4857114	50.0000	137.4
	89 o-Xylene	91	20.878	20.878	(1.058)	1697511	50.0000	48.01
	88 Styrene	104	20.775	20.775	(1.052)	1297889	50.0000	49.47
	90 1,1,2,2-Tetrachloroethane	83	20.908	20.908	(0.892)	587642	50.0000	51.14

Data File: V1LCS01icv.D
Report Date: 14-Jul-2006 09:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	==========	====	==	======	======	========	=======	=======
92	1,2,3-Trichloropropane	110	21.100	21.100	(1.069)	186285	50.0000	50.06
94	Isopropylbenzene	105	21.410	21.410	(1.084)	1835892	50.0000	47.32
$ 95	Bromofluorobenzene	95	21.484	21.484	(1.088)	251585	30.0000	29.05
96	Bromobenzene	156	21.853	21.853	(0.932)	426516	50.0000	48.71
97	n-Propylbenzene	91	22.030	22.030	(0.940)	2551648	50.0000	51.04
98	2-Chlorotoluene	91	22.237	22.237	(0.948)	1562147	50.0000	47.28
99	4-Chlorotoluene	91	22.340	22.340	(0.953)	1664286	50.0000	45.09
100	1,3,5-Trimethylbenzene	105	22.399	22.399	(0.955)	1579013	50.0000	50.12
102	tert-Butylbenzene	119	22.887	22.887	(0.976)	1443737	50.0000	52.29
103	1,2,4-Trimethylbenzene	105	23.019	23.019	(0.982)	1563794	50.0000	48.49
104	sec-Butylbenzene	105	23.212	23.212	(0.990)	2249634	50.0000	51.29
105	1,3-Dichlorobenzene	146	23.419	23.419	(0.999)	940906	50.0000	56.44
* 106	1,4-Dichlorobenzene-d4	152	23.448	23.448	(1.000)	207990	30.0000	
108	1,4-Dichlorobenzene	146	23.492	23.492	(1.002)	857443	50.0000	49.30(M) MTCL
107	p-Isopropyltoluene	119	23.448	23.448	(1.000)	1598052	50.0000	47.75
109	1,2-Dichlorobenzene	146	24.069	24.069	(1.026)	751518	50.0000	49.98
110	n-Butylbenzene	91	24.069	24.069	(1.026)	1722718	50.0000	48.53
111	1,2-Dibromo-3-chloropropane	157	24.793	24.793	(1.057)	118614	50.0000	52.49
112	1,2,4-Trichlorobenzene	180	27.010	27.010	(1.152)	468468	50.0000	46.82
113	Naphthalene	128	27.469	27.469	(1.171)	1392189	50.0000	50.60
114	Hexachlorobutadiene	225	27.528	27.528	(1.174)	291742	50.0000	53.61
115	1,2,3-Trichlorobenzene	180	27.883	27.883	(1.189)	454450	50.0000	49.46

QC Flag Legend

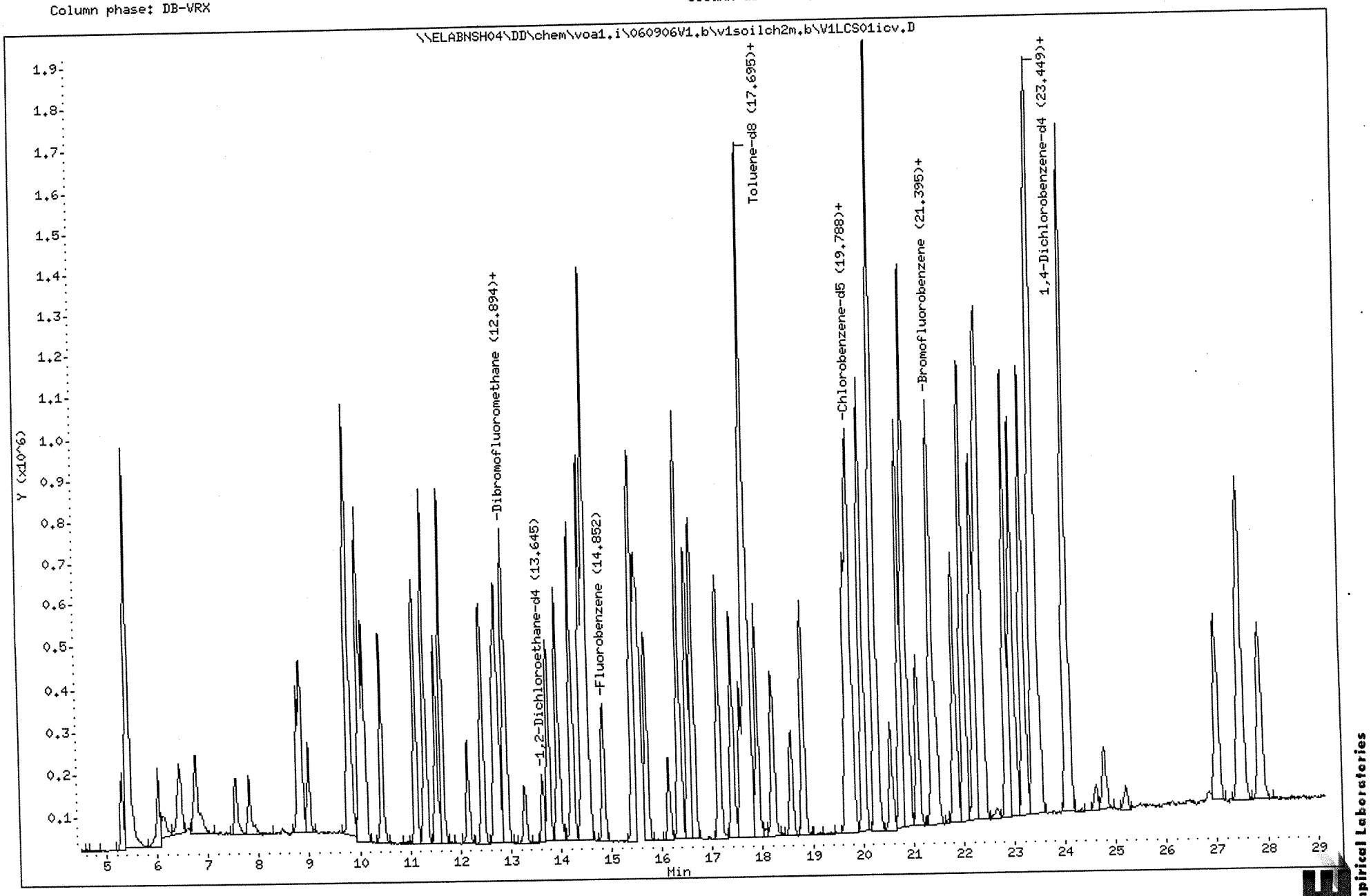
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\v1soilch2m.b\V1LCS01icv.D
Date : 09-JUN-2006 16:03
Client ID: V1BLK0609ICV
Sample Info: V1BLK0609LCS;;;;;50ppb
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

000122



Empirical Laboratories

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Instrument ID: VOA1 Calibration Date: 07/12/06 Time: 1138

Lab File ID: V1CCV01 Init. Calib. Date(s): 06/09/06 06/09/06

Heated Purge: (Y/N) Y Init. Calib. Times: 1148 1527

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.379	0.340	100.0	99.61		LINR	-0.4		
Benzene	1.771	1.803	50.00	50.92		AVRG	1.8		
Bromodichloromethane	0.716	0.725	50.00	50.64		AVRG	1.3		
Bromoform	0.822	0.803	50.00	48.82	0.100	AVRG	-2.4		
Bromomethane	0.288	0.268	50.00	46.50		AVRG	-7.0		
2-Butanone	0.394	0.386	100.0	98.03		AVRG	-2.0		
Carbon disulfide	1.365	1.607	50.00	58.89		AVRG	17.8		
Carbon tetrachloride	0.525	0.541	50.00	51.54		AVRG	3.1		
Chlorobenzene	2.108	2.208	50.00	52.35	0.300	AVRG	4.7		
Chloroethane	0.375	0.344	50.00	45.76		AVRG	-8.5		
Chloroform	0.982	0.914	50.00	46.56		AVRG	-6.9	20.0	
Chloromethane	0.697	0.438	50.00	31.42	0.100	AVRG	-37.1		NA
Dibromochloromethane	0.854	0.885	50.00	51.81		AVRG	3.6		
1,1-Dichloroethane	0.990	0.973	50.00	49.14	0.100	AVRG	-1.7		
1,2-Dichloroethane	0.888	0.843	50.00	47.44		AVRG	-5.1		
1,1-Dichloroethene	0.388	0.380	50.00	49.05		AVRG	-1.9	20.0	
cis-1,2-Dichloroethene	0.498	0.496	50.00	49.79		AVRG	-0.4		
1,2-Dichloroethene(total)	0.476	0.470	100.0	98.73		AVRG	-1.3		
trans-1,2-Dichloroethene	0.454	0.444	50.00	48.89		AVRG	-2.2		
1,2-Dichloropropane	0.534	0.561	50.00	52.50		AVRG	5.0	20.0	
cis-1,3-Dichloropropene	0.895	0.881	50.00	49.22		AVRG	-1.6		
trans-1,3-Dichloropropene	1.649	1.520	50.00	46.08		AVRG	-7.8		
Ethylbenzene	4.054	4.147	50.00	51.14		AVRG	2.3	20.0	
2-Hexanone	1.050	1.059	100.0	100.8		AVRG	0.8		
Methylene chloride	0.994	0.552	50.00	34.28		2ORDR	-31.4		
4-Methyl-2-pentanone	0.693	0.673	100.0	97.10		AVRG	-2.9		
Styrene	2.524	2.595	50.00	51.40		AVRG	2.8		
1,1,2,2-Tetrachloroethane	1.658	1.697	50.00	51.19	0.300	AVRG	2.4		
Tetrachloroethene	0.759	0.831	50.00	54.70		AVRG	9.4		
Toluene	2.052	2.132	50.00	51.94		AVRG	3.9	20.0	
1,1,1-Trichloroethane	0.781	0.755	50.00	48.34		AVRG	-3.3		
1,1,2-Trichloroethane	0.674	0.725	50.00	53.75		AVRG	7.5		
Trichloroethene	0.502	0.490	50.00	48.79		AVRG	-2.4		
Vinyl chloride	0.607	0.474	50.00	39.02		AVRG	-22.0	20.0	RERI
Xylene(total)	3.402	3.278	150.0	140.4		AVRG	-3.6		
Dibromofluoromethane	0.295	0.277	30.00	28.18		AVRG	-6.1		

FORM VII VOA

7/12/06

Empirical Laboratories

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Instrument ID: VOA1 Calibration Date: 07/12/06 Time: 1138

Lab File ID: V1CCV01 Init. Calib. Date(s): 06/09/06 06/09/06

Heated Purge: (Y/N) Y Init. Calib. Times: 1148 1527

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethane-d4	0.074	0.073	30.00	29.61		AVRG	-1.3	
Toluene-d8	1.752	1.839	30.00	31.50		AVRG	5.0	
Bromofluorobenzene	0.833	0.812	30.00	29.24		AVRG	-2.5	

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1CCV01.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1CCV01.D
Lab Smp Id: V1STD50ppb Client Smp ID: V1STD50ppb
Inj Date : 12-JUL-2006 11:38
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD50ppb;;;;;
Misc Info : ;2;;;;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: it-tcl.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

7/14/6

7/14/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
*	56 Fluorobenzene	96	14.825	14.825	(1.000)	601940	30.0000	
	4 Chloromethane	50	6.429	6.429	(0.434)	439714	50.0000	31.42
	5 Vinyl chloride	62	6.753	6.753	(0.456)	475325	50.0000	39.02
	6 Bromomethane	94	7.532	7.532	(0.508)	268832	50.0000	46.50(M)
	7 Chloroethane	64	7.797	7.797	(0.526)	344665	50.0000	45.76
	12 Acetone	43	8.960	8.960	(0.604)	682626	100.000	99.61
	15 1,1-Dichloroethene	96	9.754	9.754	(0.658)	381800	50.0000	49.05
	25 Carbon disulfide	76	10.417	10.417	(0.703)	1612495	50.0000	58.89
	20 Methylene chloride	84	9.990	9.990	(0.674)	553641	50.0000	34.28
	27 trans-1,2-Dichloroethene	96	11.079	11.079	(0.747)	445305	50.0000	48.89
	30 1,1-Dichloroethane	63	11.491	11.491	(0.775)	976533	50.0000	49.14
	38 cis-1,2-Dichloroethene	96	12.416	12.416	(0.837)	497886	50.0000	49.79
M	18 1,2-Dichloroethene(total)	96				943191	100.000	98.73
	35 2-Butanone	43	12.122	12.122	(0.818)	774796	100.000	98.03
	42 Chloroform	83	12.739	12.739	(0.859)	916914	50.0000	46.56

NTCL

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1CCV01.D
Report Date: 13-Jul-2006 17:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	50 1,1,1-Trichloroethane	97	13.929	13.929	(0.940)	757620	50.0000	48.34
$	44 Dibromofluoromethane	111	12.916	12.916	(0.871)	166818	30.0000	28.18
	53 Carbon tetrachloride	117	14.502	14.502	(0.978)	542553	50.0000	51.54
	54 Benzene	78	14.517	14.517	(0.979)	1809056	50.0000	50.92
	49 1,2-Dichloroethane	62	13.738	13.738	(0.927)	845668	50.0000	47.44
$	48 1,2-Dichloroethane-d4	102	13.620	13.620	(0.919)	43751	30.0000	29.61
	60 Trichloroethene	95	15.501	15.501	(1.046)	491902	50.0000	48.79
	59 1,2-Dichloropropane	63	15.427	15.427	(1.041)	562995	50.0000	52.50
	61 Bromodichloromethane	83	15.574	15.574	(1.051)	727239	50.0000	50.64
	68 cis-1,3-Dichloropropene	75	16.515	16.515	(1.114)	883852	50.0000	49.22
	70 4-Methyl-2-pentanone	43	16.618	16.618	(1.121)	1351160	100.000	97.10
$	73 Toluene-d8	98	17.558	17.558	(0.890)	564640	30.0000	31.50
	74 Toluene	92	17.661	17.661	(0.896)	1090587	50.0000	51.94
	71 trans-1,3-Dichloropropene	75	17.131	17.131	(0.869)	777597	50.0000	46.08
	72 1,1,2-Trichloroethane	83	17.396	17.396	(0.882)	370907	50.0000	53.75
$	95 Bromofluorobenzene	95	21.455	21.455	(1.088)	249304	30.0000	29.24
*	82 Chlorobenzene-d5	82	19.719	19.719	(1.000)	306980	30.0000	
	80 Tetrachloroethene	166	18.793	18.793	(0.953)	425087	50.0000	54.70
	77 2-Hexanone	43	17.881	17.881	(0.907)	1083364	100.000	100.8
	78 Dibromochloromethane	129	18.190	18.190	(0.922)	452968	50.0000	51.81
	83 Chlorobenzene	112	19.763	19.763	(1.002)	1129648	50.0000	52.35
	84 Ethylbenzene	91	19.998	19.998	(1.014)	2121745	50.0000	51.14
	85 m,p-Xylene	91	20.248	20.248	(1.027)	3211341	100.000	96.83
M	91 Xylene(total)	91				4888639	50.0000	140.4
	89 o-Xylene	91	20.852	20.852	(1.057)	1677298	50.0000	48.18
	88 Styrene	104	20.749	20.749	(1.052)	1327595	50.0000	51.40
	87 Bromoform	173	20.542	20.542	(0.877)	277446	50.0000	48.82
*	106 1,4-Dichlorobenzene-d4	152	23.430	23.430	(1.000)	207274	30.0000	
	90 1,1,2,2-Tetrachloroethane	83	20.881	20.881	(0.891)	586227	50.0000	51.19

QC Flag Legend

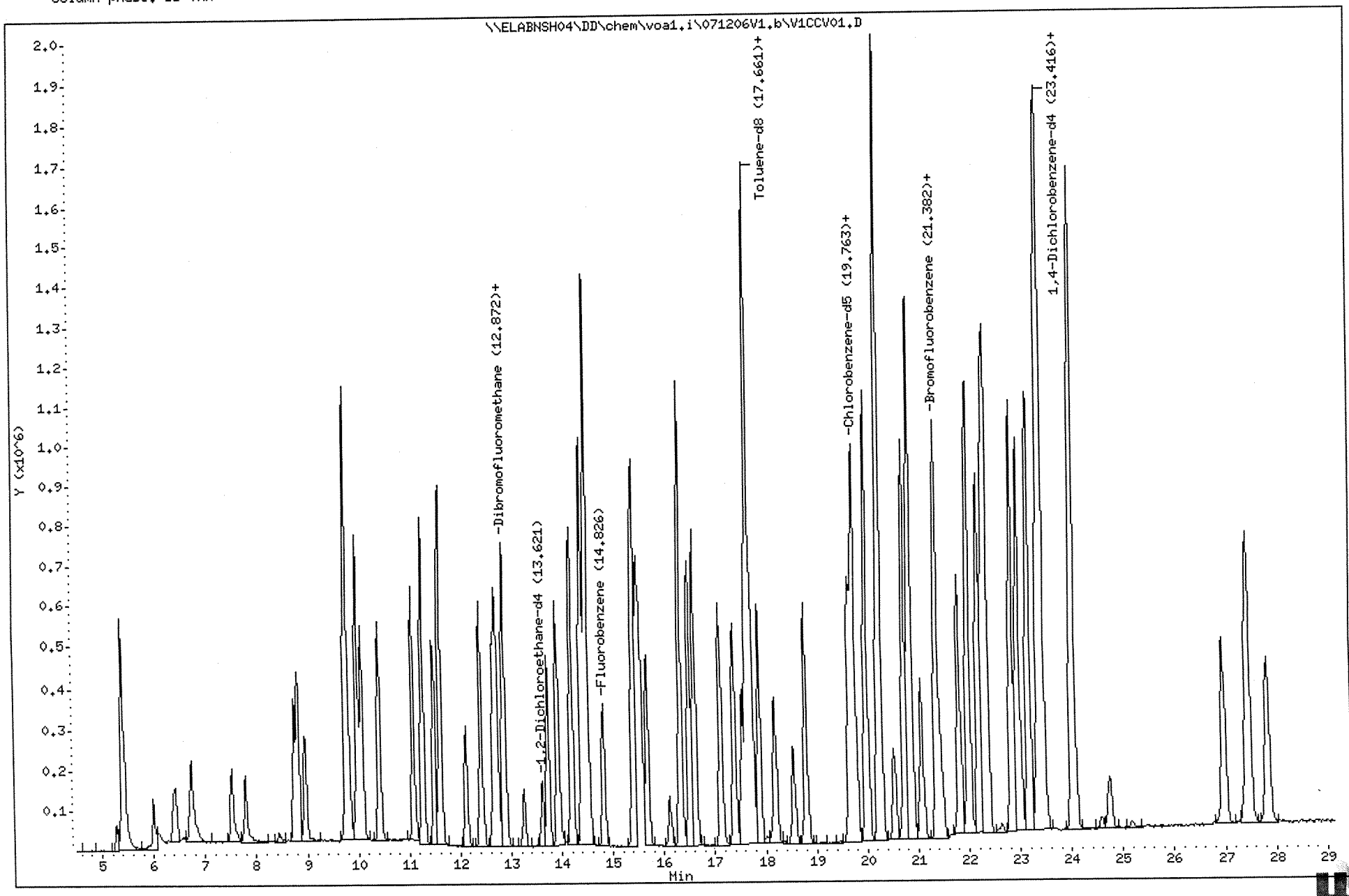
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1CCV01.D
Date : 12-JUL-2006 11:38
Client ID: V1STD50ppb
Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



000127

Empirical Laboratories

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Instrument ID: VOA1 Calibration Date: 07/13/06 Time: 0627

Lab File ID: V1CCV01 Init. Calib. Date(s): 06/09/06 06/09/06

Heated Purge: (Y/N) Y Init. Calib. Times: 1148 1527

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.379	0.432	100.0	126.2		LINR	26.2	
Benzene	1.771	1.836	50.00	51.86		AVRG	3.7	
Bromodichloromethane	0.716	0.670	50.00	46.78		AVRG	-6.4	
Bromoform	0.822	0.793	50.00	48.19	0.100	AVRG	-3.6	
Bromomethane	0.288	0.297	50.00	51.50		AVRG	3.0	
2-Butanone	0.394	0.474	100.0	120.3		AVRG	20.3	
Carbon disulfide	1.365	1.354	50.00	49.60		AVRG	-0.8	
Carbon tetrachloride	0.525	0.542	50.00	51.64		AVRG	3.3	
Chlorobenzene	2.108	2.154	50.00	51.08	0.300	AVRG	2.2	
Chloroethane	0.375	0.369	50.00	49.14		AVRG	-1.7	
Chloroform	0.982	0.913	50.00	46.50		AVRG	-7.0	20.0
Chloromethane	0.697	0.464	50.00	33.31	0.100	AVRG	-33.4	
Dibromochloromethane	0.854	0.813	50.00	47.56		AVRG	-4.9	
1,1-Dichloroethane	0.990	0.992	50.00	50.06	0.100	AVRG	0.1	
1,2-Dichloroethane	0.888	0.798	50.00	44.90		AVRG	-10.2	
1,1-Dichloroethene	0.388	0.381	50.00	49.17		AVRG	-1.6	20.0
cis-1,2-Dichloroethene	0.498	0.488	50.00	48.92		AVRG	-2.2	
1,2-Dichloroethene(total)	0.476	0.471	100.0	98.91		AVRG	-1.1	
trans-1,2-Dichloroethene	0.454	0.454	50.00	50.04		AVRG	0.1	
1,2-Dichloropropane	0.534	0.548	50.00	51.31		AVRG	2.6	20.0
cis-1,3-Dichloropropene	0.895	0.871	50.00	48.65		AVRG	-2.7	
trans-1,3-Dichloropropene	1.649	1.589	50.00	48.16		AVRG	-3.7	
Ethylbenzene	4.054	4.140	50.00	51.04		AVRG	2.1	20.0
2-Hexanone	1.050	1.247	100.0	118.7		AVRG	18.7	
Methylene chloride	0.994	0.514	50.00	30.86		2ORDR	-38.3	
4-Methyl-2-pentanone	0.693	0.679	100.0	97.95		AVRG	-2.0	
Styrene	2.524	2.569	50.00	50.89		AVRG	1.8	
1,1,2,2-Tetrachloroethane	1.658	1.662	50.00	50.15	0.300	AVRG	0.3	
Tetrachloroethene	0.759	0.825	50.00	54.32		AVRG	8.6	
Toluene	2.052	2.128	50.00	51.86		AVRG	3.7	20.0
1,1,1-Trichloroethane	0.781	0.730	50.00	46.73		AVRG	-6.5	
1,1,2-Trichloroethane	0.674	0.690	50.00	51.19		AVRG	2.4	
Trichloroethene	0.502	0.484	50.00	48.15		AVRG	-3.7	
Vinyl chloride	0.607	0.515	50.00	42.38		AVRG	-15.2	20.0
Xylene(total)	3.402	3.216	150.0	138.8		AVRG	-5.5	
Dibromofluoromethane	0.295	0.289	30.00	29.43		AVRG	-1.9	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Instrument ID: VOA1 Calibration Date: 07/13/06 Time: 0627

Lab File ID: V1CCV01 Init. Calib. Date(s): 06/09/06 06/09/06

Heated Purge: (Y/N) Y Init. Calib. Times: 1148 1527

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethane-d4	0.074	0.080	30.00	32.62		AVRG	8.8	
Toluene-d8	1.752	1.794	30.00	30.72		AVRG	2.4	
Bromofluorobenzene	0.833	0.816	30.00	29.37		AVRG	-2.1	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1CCV01.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1CCV01.D
Lab Smp Id: V1STD50ppb Client Smp ID: V1STD50ppb
Inj Date : 13-JUL-2006 06:27 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD50ppb;;;;;
Misc Info : ;2;;;;gm-all.sub;#4928,4941
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: it-tcl.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
*	56 Fluorobenzene	96	14.833	14.833	(1.000)	651493	30.0000	
	4 Chloromethane	50	6.430	6.430	(0.434)	504420	50.0000	33.31
	5 Vinyl chloride	62	6.754	6.754	(0.455)	558768	50.0000	42.38
	6 Bromomethane	94	7.535	7.535	(0.508)	322262	50.0000	51.50
	7 Chloroethane	64	7.799	7.799	(0.526)	400652	50.0000	49.14
	12 Acetone	43	8.977	8.977	(0.605)	938171	100.000	126.2
	15 1,1-Dichloroethene	96	9.773	9.773	(0.659)	414217	50.0000	49.17
	25 Carbon disulfide	76	10.421	10.421	(0.703)	1469989	50.0000	49.60
	20 Methylene chloride	84	9.994	9.994	(0.674)	557702	50.0000	30.86
	27 trans-1,2-Dichloroethene	96	11.098	11.098	(0.748)	493288	50.0000	50.04
	30 1,1-Dichloroethane	63	11.510	11.510	(0.776)	1076797	50.0000	50.06
	38 cis-1,2-Dichloroethene	96	12.436	12.436	(0.838)	529383	50.0000	48.92
M	18 1,2-Dichloroethene(total)	96				1022671	100.000	98.91
	35 2-Butanone	43	12.128	12.128	(0.818)	1028759	100.000	120.3
	42 Chloroform	83	12.745	12.745	(0.859)	991068	50.0000	46.50

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1CCV01.D
Report Date: 13-Jul-2006 17:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	50 1,1,1-Trichloroethane	97	13.936	13.936	(0.940)	792839	50.0000	46.73
$	44 Dibromofluoromethane	111	12.922	12.922	(0.871)	188590	30.0000	29.43
	53 Carbon tetrachloride	117	14.510	14.510	(0.978)	588420	50.0000	51.64
	54 Benzene	78	14.524	14.524	(0.979)	1994004	50.0000	51.86
	49 1,2-Dichloroethane	62	13.745	13.745	(0.927)	866154	50.0000	44.90
$	48 1,2-Dichloroethane-d4	102	13.627	13.627	(0.919)	52176	30.0000	32.62
	60 Trichloroethene	95	15.509	15.509	(1.046)	525374	50.0000	48.15
	59 1,2-Dichloropropane	63	15.436	15.436	(1.041)	595551	50.0000	51.31
	61 Bromodichloromethane	83	15.568	15.568	(1.050)	727063	50.0000	46.78
	68 cis-1,3-Dichloropropene	75	16.524	16.524	(1.114)	945441	50.0000	48.65
	70 4-Methyl-2-pentanone	43	16.627	16.627	(1.121)	1475085	100.000	97.95
$	73 Toluene-d8	98	17.553	17.553	(0.890)	595247	30.0000	30.72
	74 Toluene	92	17.671	17.671	(0.896)	1176767	50.0000	51.86
	71 trans-1,3-Dichloropropene	75	17.126	17.126	(0.869)	878522	50.0000	48.16
	72 1,1,2-Trichloroethane	83	17.391	17.391	(0.882)	381819	50.0000	51.19
$	95 Bromofluorobenzene	95	21.470	21.470	(1.089)	270702	30.0000	29.37
*	82 Chlorobenzene-d5	82	19.716	19.716	(1.000)	331797	30.0000	
	80 Tetrachloroethene	166	18.804	18.804	(0.954)	456197	50.0000	54.32
	77 2-Hexanone	43	17.892	17.892	(0.907)	1378812	100.000	118.7(M)
	78 Dibromochloromethane	129	18.186	18.186	(0.922)	449441	50.0000	47.56
	83 Chlorobenzene	112	19.775	19.775	(1.003)	1191285	50.0000	51.08
	84 Ethylbenzene	91	20.011	20.011	(1.015)	2289156	50.0000	51.04
	85 m,p-Xylene	91	20.261	20.261	(1.028)	3442536	100.000	96.04
M	91 Xylene(total)	91				5220868	50.0000	138.8
	89 o-Xylene	91	20.865	20.865	(1.058)	1778332	50.0000	47.26
	88 Styrene	104	20.747	20.747	(1.052)	1420899	50.0000	50.89
	87 Bromoform	173	20.541	20.541	(0.877)	286514	50.0000	48.19
*	106 1,4-Dichlorobenzene-d4	152	23.432	23.432	(1.000)	216856	30.0000	
	90 1,1,2,2-Tetrachloroethane	83	20.880	20.880	(0.891)	600853	50.0000	50.15

QC Flag Legend

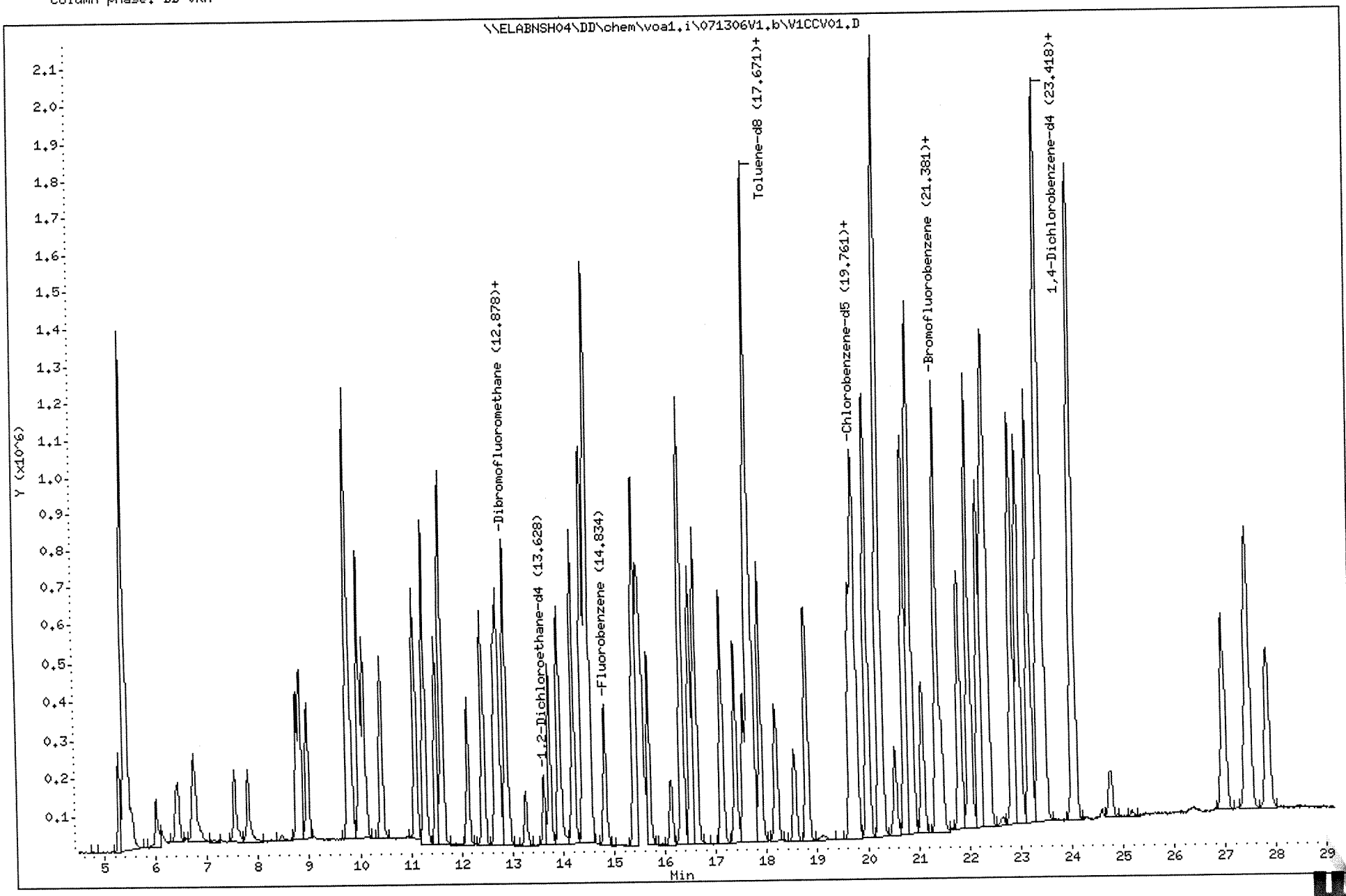
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1CCV01.D
Date : 13-JUL-2006 06:27
Client ID: V1STD50ppb
Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



000132

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1BFB01.D

Date : 09-JUN-2006 10:50

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

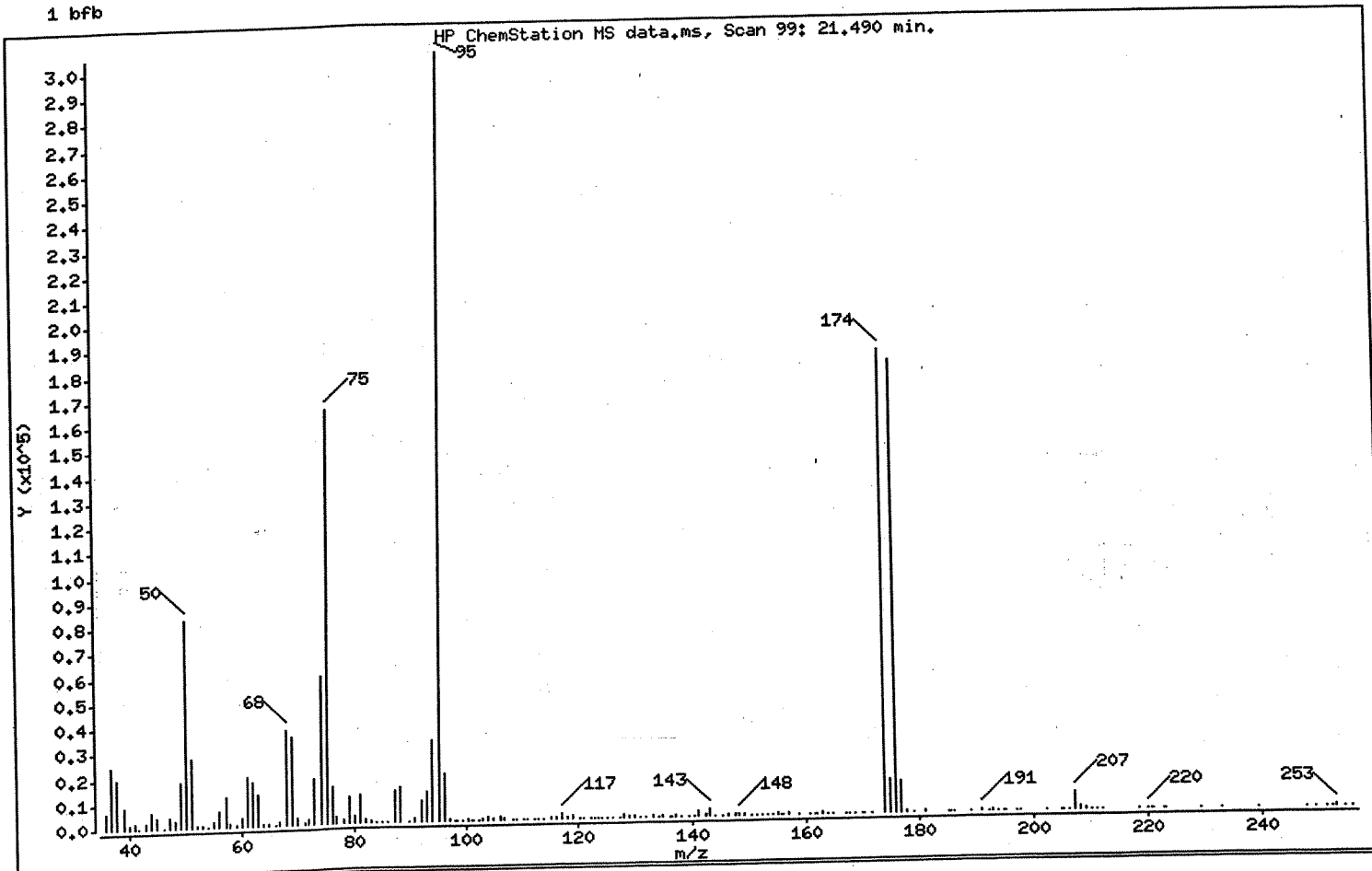
Operator: ADM

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.15
75	30.00 - 60.00% of mass 95	54.06
96	5.00 - 9.00% of mass 95	6.25
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	60.41
175	5.00 - 9.00% of mass 174	4.47 (7.39)
176	95.00 - 101.00% of mass 174	59.11 (97.85)
177	5.00 - 9.00% of mass 176	4.03 (6.83)

Raw 6-9-06

6/12/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1BFB01.D

Date : 09-JUN-2006 10:50

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: HP ChemStation MS data.ms, Scan 99: 21.490 min.

Location of Maximum: 95.00

Number of points: 184

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36.00	6271	83.05	484	128.00	1178	175.90	180608
37.00	24752	83.95	135	128.95	720	176.90	12328
38.00	19840	84.95	197	129.95	949	177.90	405
39.10	8621	85.75	110	130.95	334	179.00	231
40.00	1167	87.05	12567	131.95	222	181.00	363
41.10	1765	88.00	13794	132.95	896	185.05	119
41.90	335	89.70	67	134.05	282	185.65	123
43.10	1796	90.80	1534	134.85	949	186.15	97
44.10	6358	92.00	8480	136.15	152	188.95	56
45.00	4423	93.00	11863	136.45	116	190.95	949
46.10	262	94.00	32320	137.05	453	192.15	263
47.10	4411	95.00	305536	137.85	91	193.05	441
48.05	2564	96.10	19096	139.05	97	193.85	85
49.05	18432	97.10	816	140.05	277	194.85	64
50.05	82960	97.90	78	140.95	2351	195.15	91
51.05	27448	98.20	95	142.00	393	197.10	55
52.05	1047	99.20	78	142.90	2884	197.80	64
53.05	576	100.20	667	143.80	88	202.20	76
54.05	193	101.00	84	145.00	100	204.90	98
55.05	2317	101.20	69	145.90	584	205.10	99
56.05	6358	102.25	58	147.10	378	206.00	73
57.05	11734	102.95	649	147.90	940	207.00	7026
57.95	1287	103.95	1097	148.90	417	208.00	1653
59.05	625	104.95	636	150.00	234	208.90	728
60.05	3832	105.95	1203	151.10	110	210.05	77
61.00	19784	106.85	396	152.00	105	210.95	125
62.00	17640	108.35	82	152.90	216	212.05	55
63.10	12636	109.05	156	154.10	139	218.25	56
64.10	1017	110.15	158	154.90	594	219.95	142
65.00	403	110.85	310	155.65	84	220.45	55
66.10	248	112.15	248	156.05	127	221.05	137
67.00	1634	112.85	144	156.95	414	222.90	69
68.00	37640	113.75	117	158.85	327	223.10	63
69.00	35360	115.00	498	160.85	340	229.20	65
70.10	2786	116.00	977	161.65	108	232.90	95

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1BFB01.D

Date : 09-JUN-2006 10:50

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: HP ChemStation MS data.ms, Scan 99: 21.490 min.

Location of Maximum: 95.00

Number of points: 184

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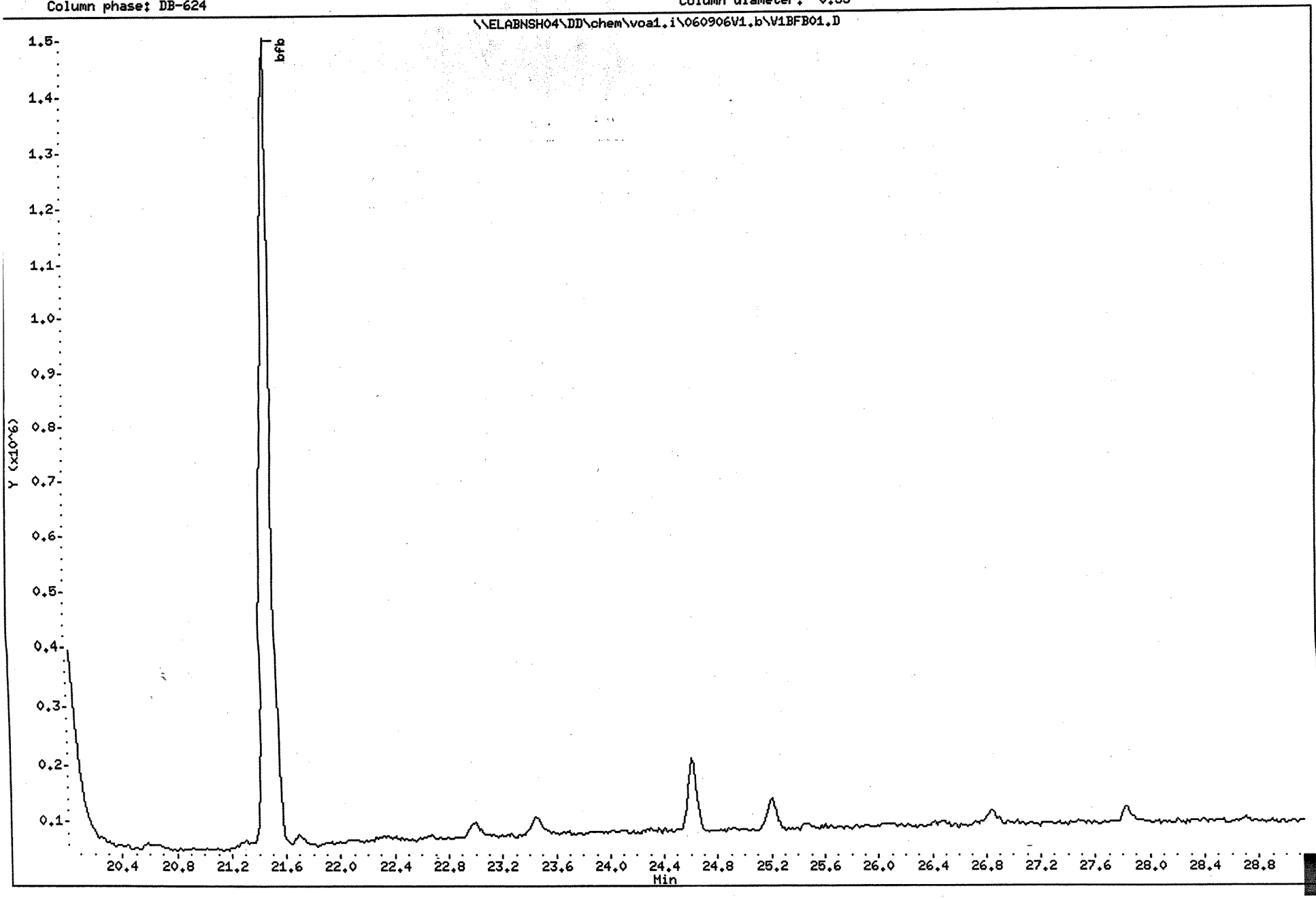
71.20	537	116.90	2050	162.05	87	239.25	59
72.10	1934	117.90	676	162.85	413	247.75	58
73.10	18280	118.90	1389	163.85	233	249.05	55
74.10	59256	120.10	154	164.95	164	251.00	70
75.05	165184	121.00	73	167.15	86	252.20	65
76.05	14894	122.10	89	167.85	77	252.90	391
76.95	2900	122.70	118	168.90	73	254.30	138
77.95	1723	123.50	90	170.10	59	255.60	53
78.95	10658	124.10	232	170.30	62		
79.95	2564	125.10	271	171.60	58		
80.95	11416	125.90	148	173.90	184576		
81.95	1502	127.20	203	175.00	13644		

Data File: \\ELABNSH04\DD\chem\voa1.i\060906V1.b\V1BFB01.D
Date : 09-JUN-2006 10:50
Client ID: 50ppb BFB
Sample Info: V1BFB 50ng;;;;;
Volume Injected (uL): 1.0
Column phase: DB-624

Instrument: voa1.i
Operator: ADM
Column diameter: 0.53



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000136

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BFB01.D

Date : 12-JUL-2006 11:02

Client ID: 50ppb BFB

Instrument: voa1.i

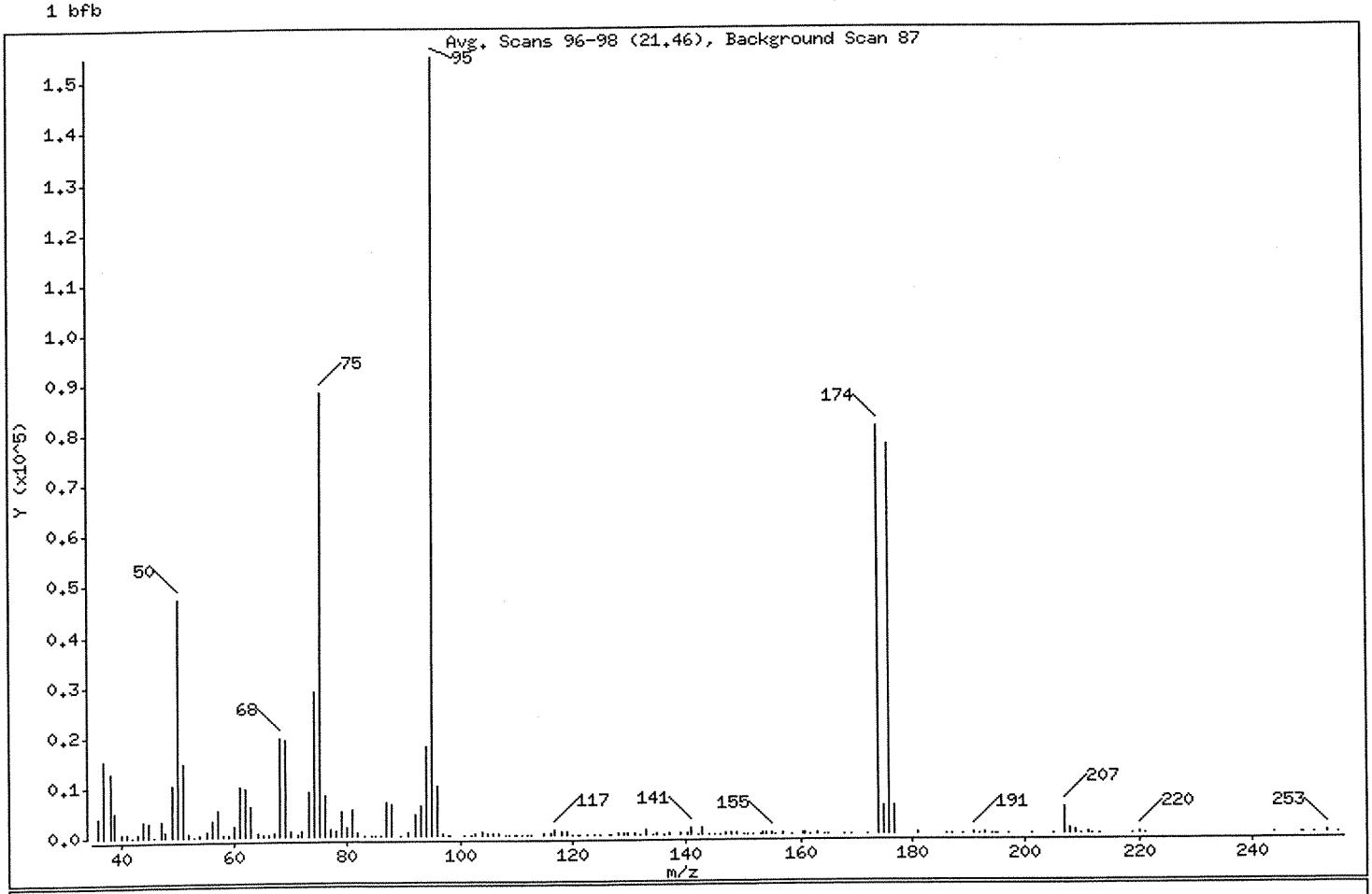
Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.56
75	30.00 - 60.00% of mass 95	57.06
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	52.32
175	5.00 - 9.00% of mass 174	3.76 (7.19)
176	95.00 - 101.00% of mass 174	50.09 (95.75)
177	5.00 - 9.00% of mass 176	3.66 (7.30)

M 7/14/6

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BFB01.D

Date : 12-JUL-2006 11:02

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: Avg. Scans 96-98 (21.46), Background Scan 87

Location of Maximum: 95.00

Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3941	77.05	1525	120.00	100	161.85	64
37.00	15307	78.05	893	121.10	78	162.85	244
38.10	12671	78.95	4907	121.40	58	164.15	84
39.00	5102	79.95	1624	122.70	115	164.85	71
40.00	848	80.95	5395	123.80	50	167.95	56
41.10	754	81.95	740	124.90	126	169.20	71
42.00	170	83.05	70	126.30	69	171.90	86
43.10	566	84.35	52	126.60	103	173.90	80960
44.10	3088	84.95	61	127.90	533	174.90	5817
45.10	2843	85.95	141	128.95	275	175.90	77520
46.00	105	86.95	6796	129.75	337	176.90	5657
47.10	3335	87.90	6358	131.05	314	180.90	282
47.95	1160	89.60	53	131.95	83	186.15	67
49.05	10171	90.90	674	132.95	1114	187.15	56
50.05	47296	92.00	4301	134.05	155	189.05	69
51.05	14691	93.00	6184	134.85	500	190.95	465
51.95	610	94.10	17736	135.95	142	191.95	132
52.95	150	95.00	154752	136.95	430	192.95	365
53.85	199	96.00	9787	138.95	226	193.95	59
55.05	1131	96.90	397	140.25	195	194.85	80
56.05	3053	97.80	66	140.95	1339	195.05	97
57.05	5395	98.10	59	142.00	71	197.10	63
58.15	276	100.70	62	142.90	1252	201.00	52
58.95	352	101.95	50	143.90	72	205.10	166
60.05	2130	102.75	334	145.00	76	207.00	5306
61.00	9841	103.85	665	146.00	108	207.90	1027
62.00	9626	104.95	351	146.90	211	209.00	706
63.00	6167	105.95	522	147.80	337	209.85	96
64.10	737	106.95	241	149.00	313	210.95	227
65.00	245	108.05	87	150.00	127	211.75	126
66.10	269	108.85	140	150.90	54	212.95	60
67.00	602	109.85	97	151.80	70	218.95	74
68.00	19520	110.05	93	152.90	127	220.05	210
69.00	19360	111.05	152	153.50	198	221.05	112
70.10	1207	111.95	62	154.00	189	243.75	59

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BFB01.D

Date : 12-JUL-2006 11:02

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: Avg. Scans 96-98 (21.46), Background Scan 87

Location of Maximum: 95.00

Number of points: 163

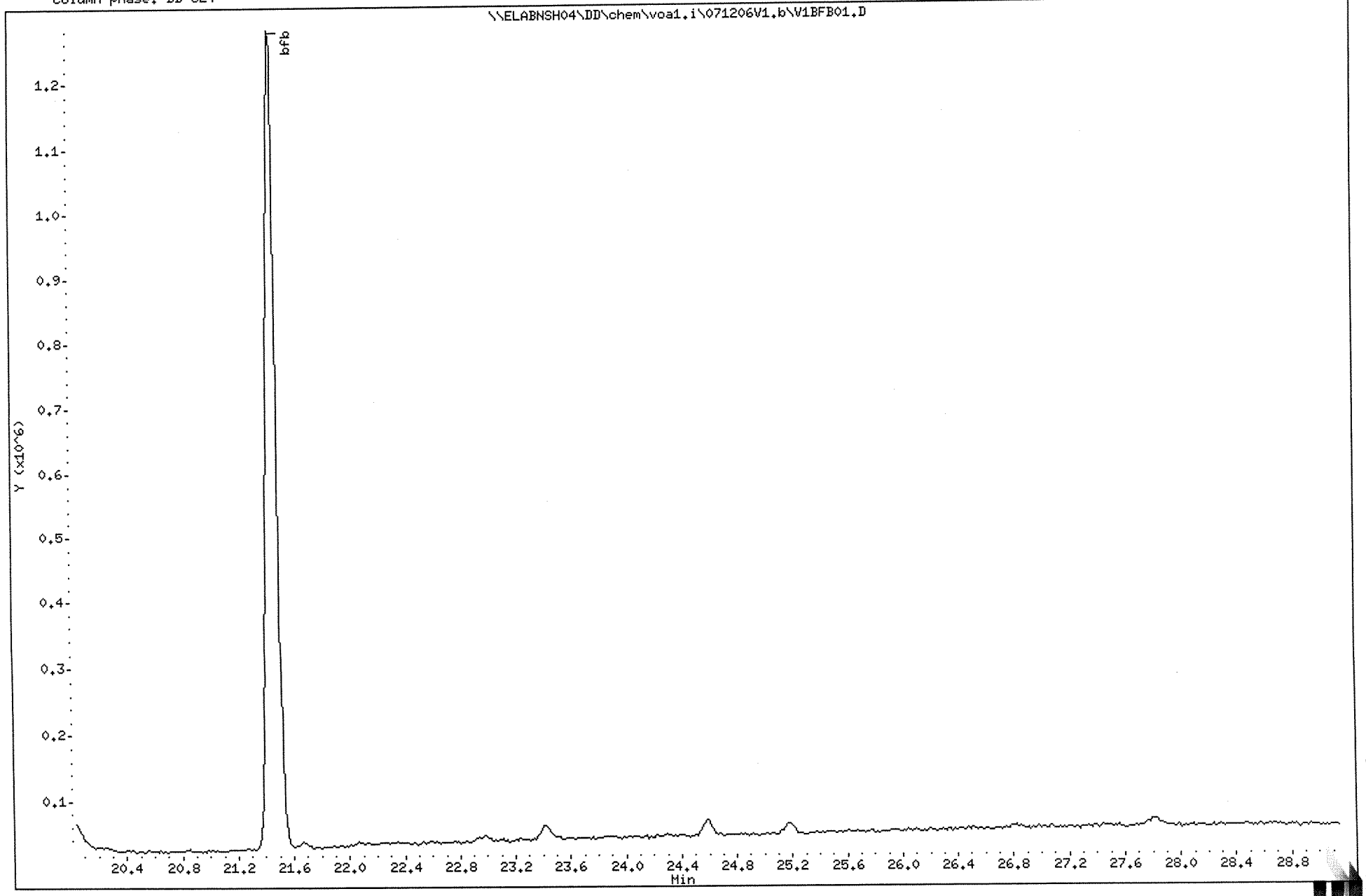
m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.10	296	112.75	78	155.00	341	248.65	84
72.00	1014	115.00	262	155.65	132	248.95	56
73.10	9010	116.00	484	156.95	294	251.00	59
74.00	28984	116.90	1021	158.65	112	253.10	187
75.05	88304	118.00	594	160.55	188	255.00	62
76.05	8046	118.90	832	160.85	235		

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BFB01.D
Date : 12-JUL-2006 11:02
Client ID: 50ppb BFB
Sample Info: V1BFB 50ng;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.53

Column phase: DB-624



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/12/06 13:49

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	RL	CONC	UG/KG Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BLK01.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BLK01.D
Lab Smp Id: V1PBLK0712 Client Smp ID: V1PBLK0712
Inj Date : 12-JUL-2006 13:49 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0712;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.833	14.825	(1.000)	574498	30.0000		
$ 44 Dibromofluoromethane	111	12.926	12.916	(0.871)	164860	29.1780	29.18	
$ 48 1,2-Dichloroethane-d4	102	13.630	13.620	(0.919)	42374	30.0476	30.05	
$ 73 Toluene-d8	98	17.562	17.558	(0.891)	533390	33.2440	33.24	
$ 95 Bromofluorobenzene	95	21.467	21.455	(1.089)	226766	29.7108	29.71	
* 82 Chlorobenzene-d5	82	19.719	19.719	(1.000)	274779	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.424	23.430	(1.000)	193449	30.0000		(Q)

QC Flag Legend

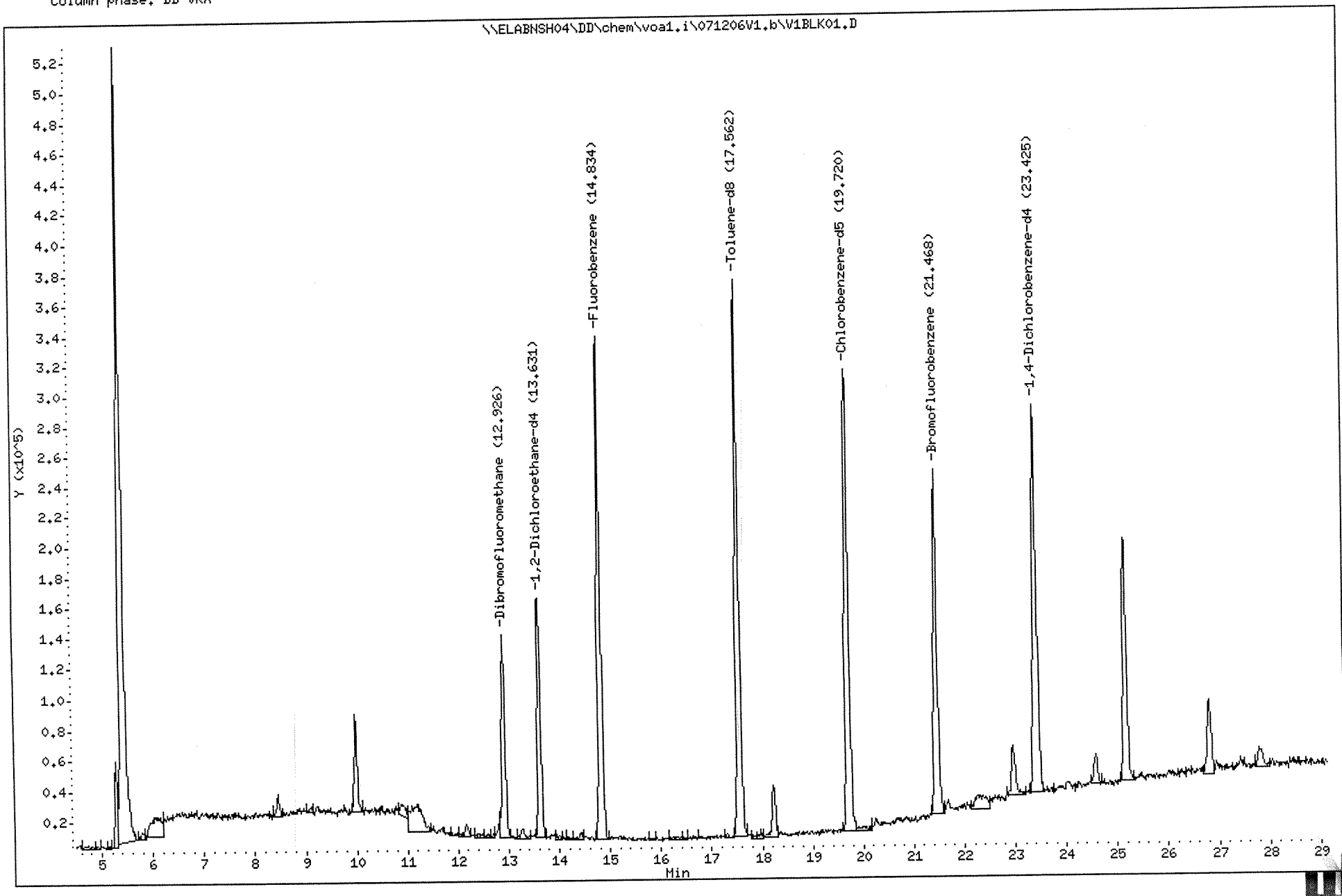
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1BLK01.D
Date : 12-JUL-2006 13:49
Client ID: V1PBLK0712
Sample Info: V1BLK0712;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PMBLK0712

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PMBLK0712

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1MBLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/12/06 14:24

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1MBLK01.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1MBLK01.D
Lab Smp Id: V1PMBLK0712 Client Smp ID: V1PMBLK0712
Inj Date : 12-JUL-2006 14:24 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1MBLK0712;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

7/14/06

7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.822	14.825	(1.000)	525071	30.0000		
$ 44 Dibromofluoromethane	111	12.899	12.916	(0.870)	149284	28.9084	1445	
$ 48 1,2-Dichloroethane-d4	102	13.604	13.620	(0.918)	37002	28.7082	1435	
$ 73 Toluene-d8	98	17.550	17.558	(0.890)	481660	31.7835	1589	
$ 95 Bromofluorobenzene	95	21.472	21.455	(1.089)	213427	29.6059	1480	
* 82 Chlorobenzene-d5	82	19.723	19.719	(1.000)	259532	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.429	23.430	(1.000)	182041	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

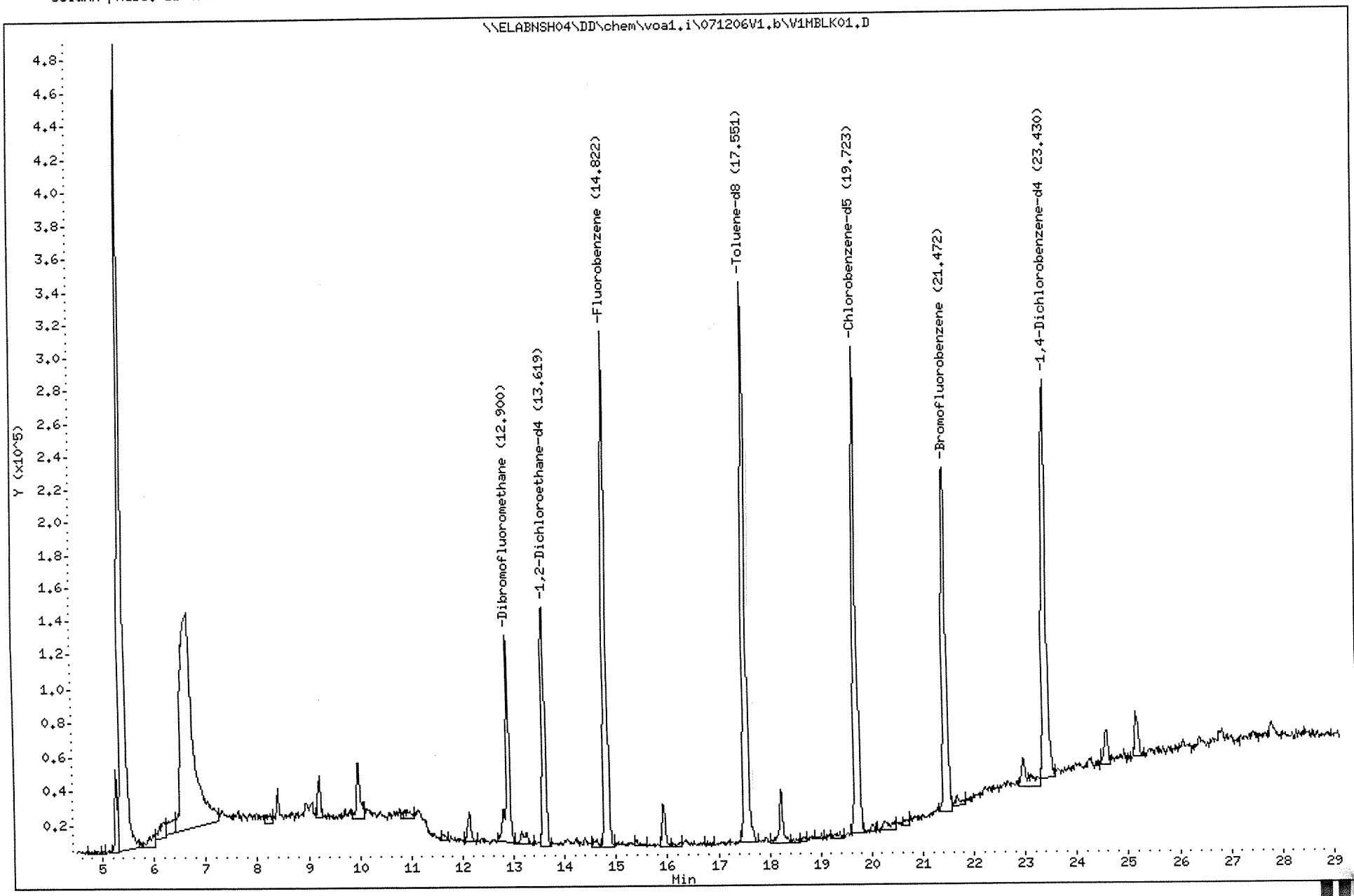
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1MBLK01.D
Date : 12-JUL-2006 14:24
Client ID: V1PMBLK0712
Sample Info: V1MBLK0712;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000146



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0713

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0713

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/13/06 08:12

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1BLK01.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1BLK01.D
Lab Smp Id: V1PBLK0713 Client Smp ID: V1PBLK0713
Inj Date : 13-JUL-2006 08:12 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0713;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.811	14.833	(1.000)	537011	30.0000		
$ 44 Dibromofluoromethane	111	12.888	12.922	(0.870)	148644	28.1444	28.14	
$ 48 1,2-Dichloroethane-d4	102	13.607	13.627	(0.919)	40989	31.0944	31.09	
$ 73 Toluene-d8	98	17.540	17.553	(0.890)	507185	33.3375	33.34	
$ 95 Bromofluorobenzene	95	21.462	21.470	(1.089)	209650	28.9687	28.97	
* 82 Chlorobenzene-d5	82	19.713	19.716	(1.000)	260547	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.420	23.432	(1.000)	175886	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

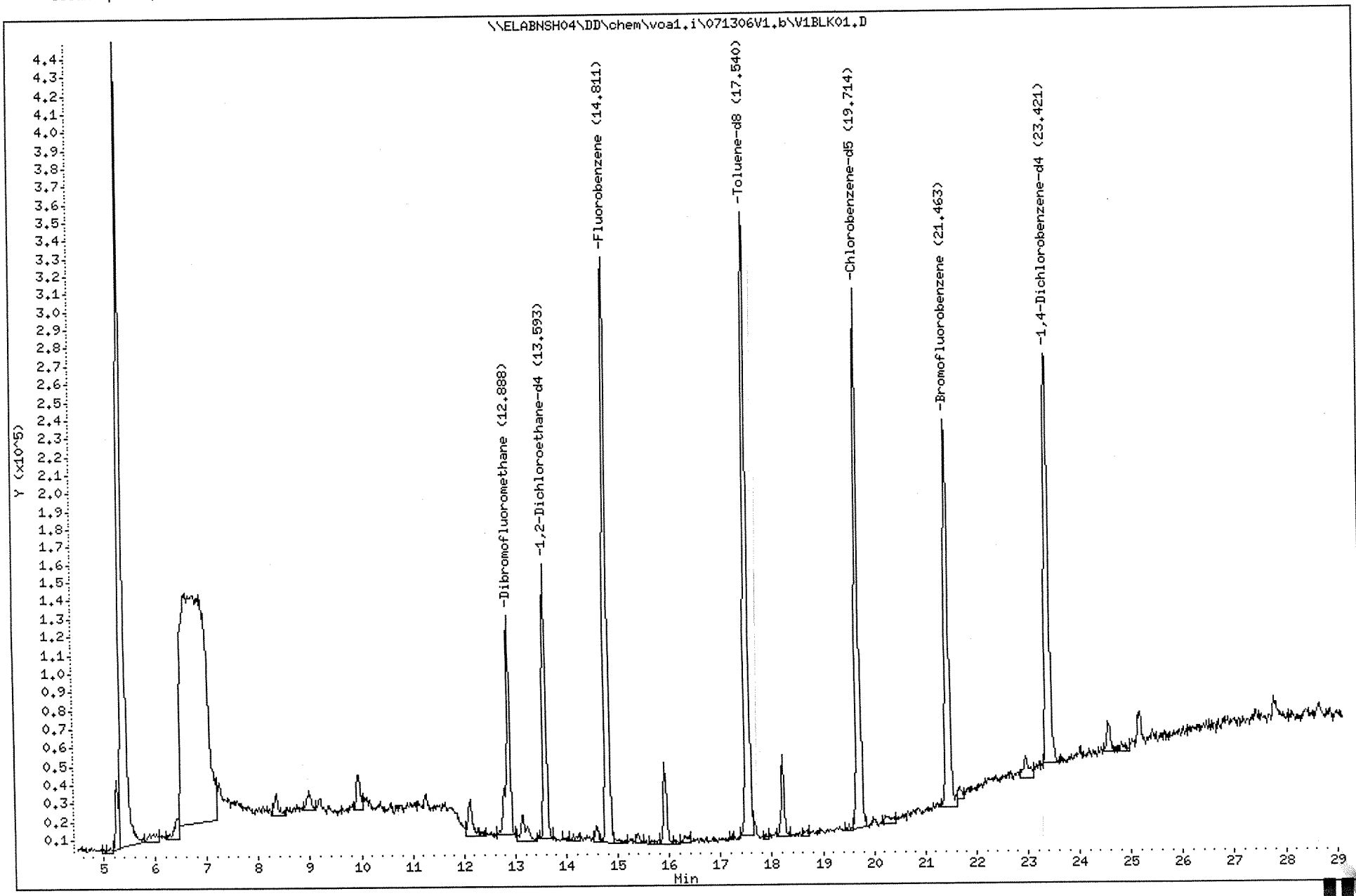
Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1BLK01.D
Date : 13-JUL-2006 08:12
Client ID: V1PBLK0713
Sample Info: V1BLK0713;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000149



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0712LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0712LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/12/06 12:13

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0	53	
100-41-4	Ethylbenzene	0.75	5.0	52	
108-88-3	Toluene	0.86	5.0	53	
1330-20-7	Xylene(total)	0.70	5.0	140	

Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1LCS01.D
Report Date: 13-Jul-2006 17:09

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1LCS01.D
Lab Smp Id: V1PBLK0712LCS Client Smp ID: V1PBLK0712LCS
Inj Date : 12-JUL-2006 12:13
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0712LCS;;;;;
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4942
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:09 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.825	14.825	(1.000)	598702	30.0000	
$ 44 Dibromofluoromethane	111	12.916	12.916	(0.871)	166806	28.3289	28.33
54 Benzene	78	14.517	14.517	(0.979)	1879029	53.1741	53.17
$ 48 1,2-Dichloroethane-d4	102	13.620	13.620	(0.919)	43396	29.5282	29.53
$ 73 Toluene-d8	98	17.558	17.558	(0.890)	567272	31.0737	31.07
74 Toluene	92	17.661	17.661	(0.896)	1130466	52.8691	52.87
$ 95 Bromofluorobenzene	95	21.471	21.455	(1.089)	251691	28.9826	28.98
* 82 Chlorobenzene-d5	82	19.719	19.719	(1.000)	312644	30.0000	
84 Ethylbenzene	91	20.013	19.998	(1.015)	2190378	51.8341	51.83
85 m,p-Xylene	91	20.263	20.248	(1.028)	3285496	97.2754	97.28
M 91 Xylene(total)	91				5017282	141.522	141.5
89 o-Xylene	91	20.867	20.852	(1.058)	1731786	48.8484	48.85
* 106 1,4-Dichlorobenzene-d4	152	23.431	23.430	(1.000)	207315	30.0000	

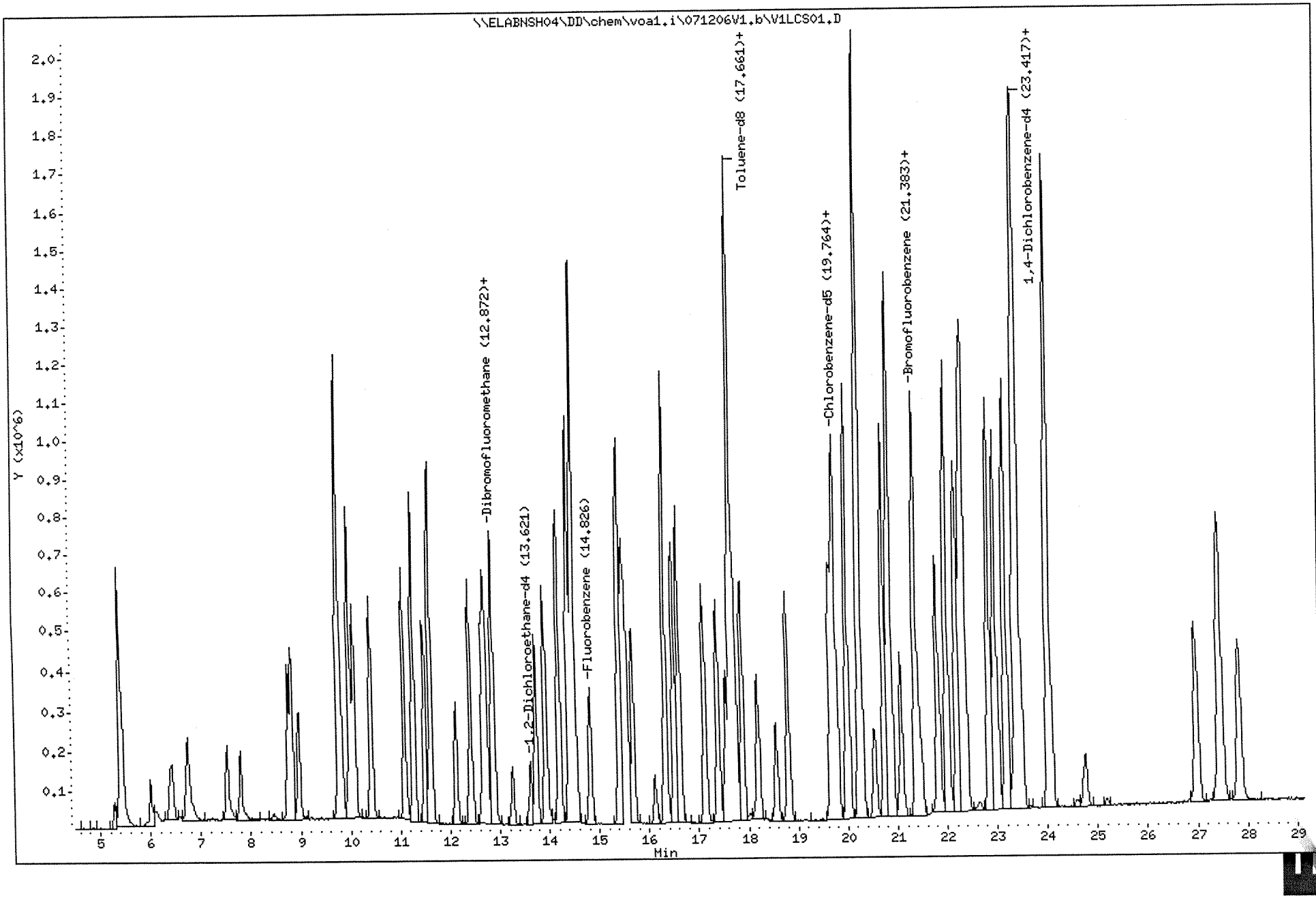
Data File: \\ELABNSH04\DD\chem\voa1.i\071206V1.b\V1LCS01.D
Date : 12-JUL-2006 12:13
Client ID: V1PBLK0712LCS
Sample Info: V1BLK0712LCS;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000152



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0713LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0713LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/13/06 07:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0	58	
100-41-4	Ethylbenzene	0.75	5.0	57	
108-88-3	Toluene	0.86	5.0	58	
1330-20-7	Xylene(total)	0.70	5.0	160	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1LCS01.D
Report Date: 13-Jul-2006 17:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1LCS01.D
Lab Smp Id: V1PBLK0713LCS Client Smp ID: V1PBLK0713LCS
Inj Date : 13-JUL-2006 07:02 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0713LCS;;;;;
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4942
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

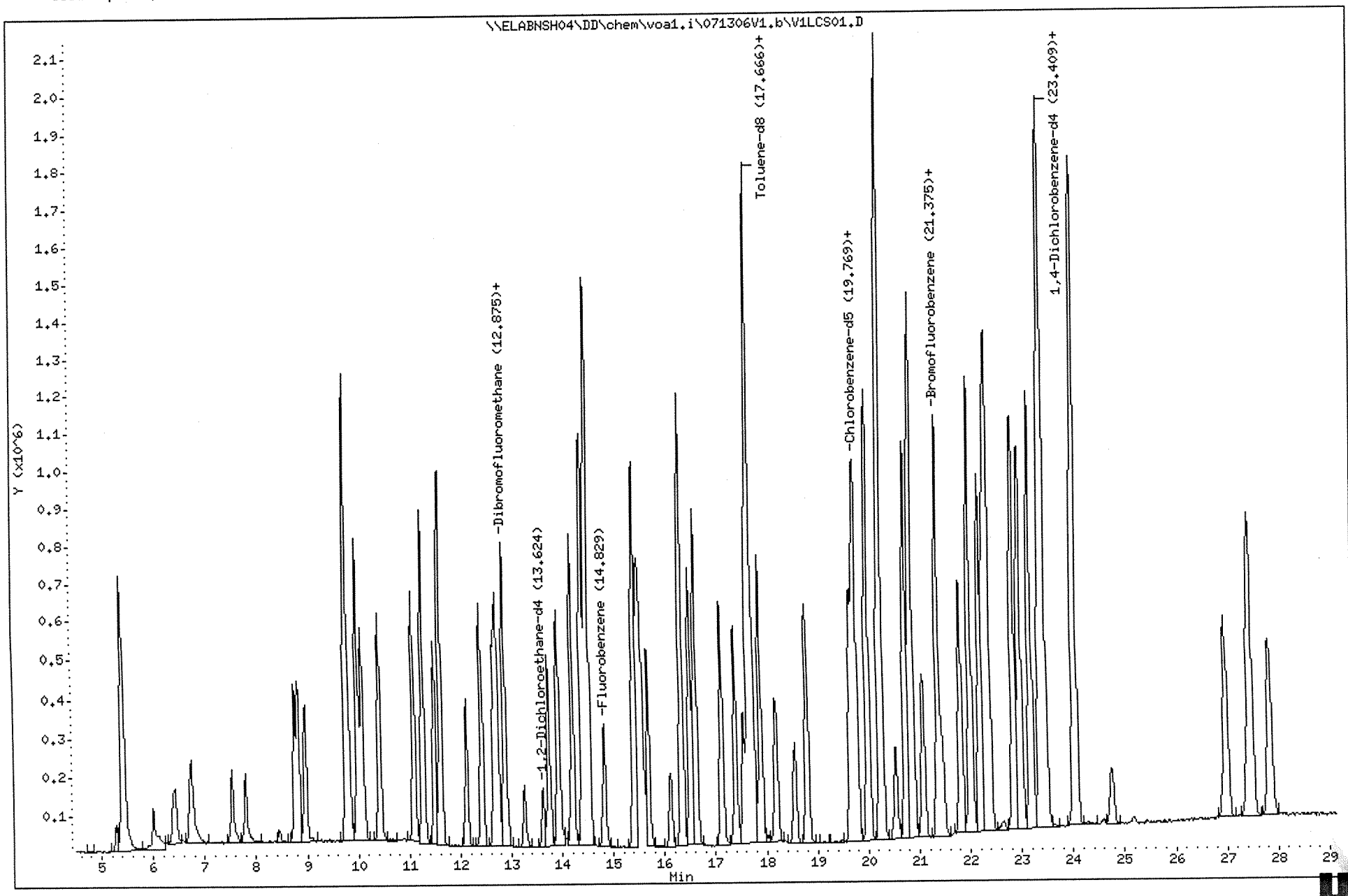
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.829	14.833	(1.000)	562419	30.0000	
$ 44 Dibromofluoromethane	111	12.918	12.922	(0.871)	160122	28.9480	28.95
54 Benzene	78	14.520	14.524	(0.979)	1929437	58.1230	58.12
$ 48 1,2-Dichloroethane-d4	102	13.623	13.627	(0.919)	44556	32.2734	32.27
$ 73 Toluene-d8	98	17.562	17.553	(0.890)	522612	30.7667	30.77
74 Toluene	92	17.666	17.671	(0.896)	1162378	58.4239	58.42
$ 95 Bromofluorobenzene	95	21.463	21.470	(1.088)	232804	28.8111	28.81
* 82 Chlorobenzene-d5	82	19.725	19.716	(1.000)	290905	30.0000	
84 Ethylbenzene	91	20.004	20.011	(1.014)	2255724	57.3695	57.37
85 m,p-Xylene	91	20.255	20.261	(1.027)	3355755	106.780	106.8
M 91 Xylene(total)	91				5130756	155.538	155.5
89 o-Xylene	91	20.858	20.865	(1.057)	1775001	53.8089	53.81
* 106 1,4-Dichlorobenzene-d4	152	23.424	23.432	(1.000)	193919	30.0000	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1LCS01.D
Date : 13-JUL-2006 07:02
Client ID: V1PBLK0713LCS
Sample Info: V1BLK0713LCS;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



000155

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM1BS
060711 MS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 703101BM

Level: (low/med) LOW Date Sampled: 07/11/06 12:20

% Moisture: not dec. 8 Date Analyzed: 07/13/06 13:45

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.51	5.4	54	
100-41-4	Ethylbenzene	0.81	5.4	53	
108-88-3	Toluene	0.93	5.4	54	
1330-20-7	Xylene (total)	0.76	5.4	150	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BM.D
Report Date: 13-Jul-2006 17:11

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BM.D
Lab Smp Id: 0607031-01 Client Smp ID: 51CFM1BS060711 MS
Inj Date : 13-JUL-2006 13:45 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-01;;5.01;;;MS
Misc Info : ch2.v07031;3;MS;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.010	Weight of sample extracted (g)
Solids	92.300	Percent Solids

M 7/14/06

7/14/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.837	14.833	(1.000)	563381	30.0000	
$ 44 Dibromofluoromethane	111	12.928	12.922	(0.871)	148792	26.8538	29.04
54 Benzene	78	14.528	14.524	(0.979)	1663202	50.0173	54.08
$ 48 1,2-Dichloroethane-d4	102	13.632	13.627	(0.919)	42038	30.3975	32.87
$ 73 Toluene-d8	98	17.569	17.553	(0.890)	520858	30.6958	33.19
74 Toluene	92	17.672	17.671	(0.896)	988596	49.7417	53.78
$ 95 Bromofluorobenzene	95	21.484	21.470	(1.089)	235534	29.1797	31.55
* 82 Chlorobenzene-d5	82	19.731	19.716	(1.000)	290598	30.0000	
84 Ethylbenzene	91	20.011	20.011	(1.014)	1929100	49.1144	53.10
85 m,p-Xylene	91	20.261	20.261	(1.027)	2951066	94.0023	101.6
M 91 Xylene(total)	91				4547190	137.993	149.2
89 o-Xylene	91	20.865	20.865	(1.057)	1596124	48.4374	52.37
* 106 1,4-Dichlorobenzene-d4	152	23.430	23.432	(1.000)	197344	30.0000	

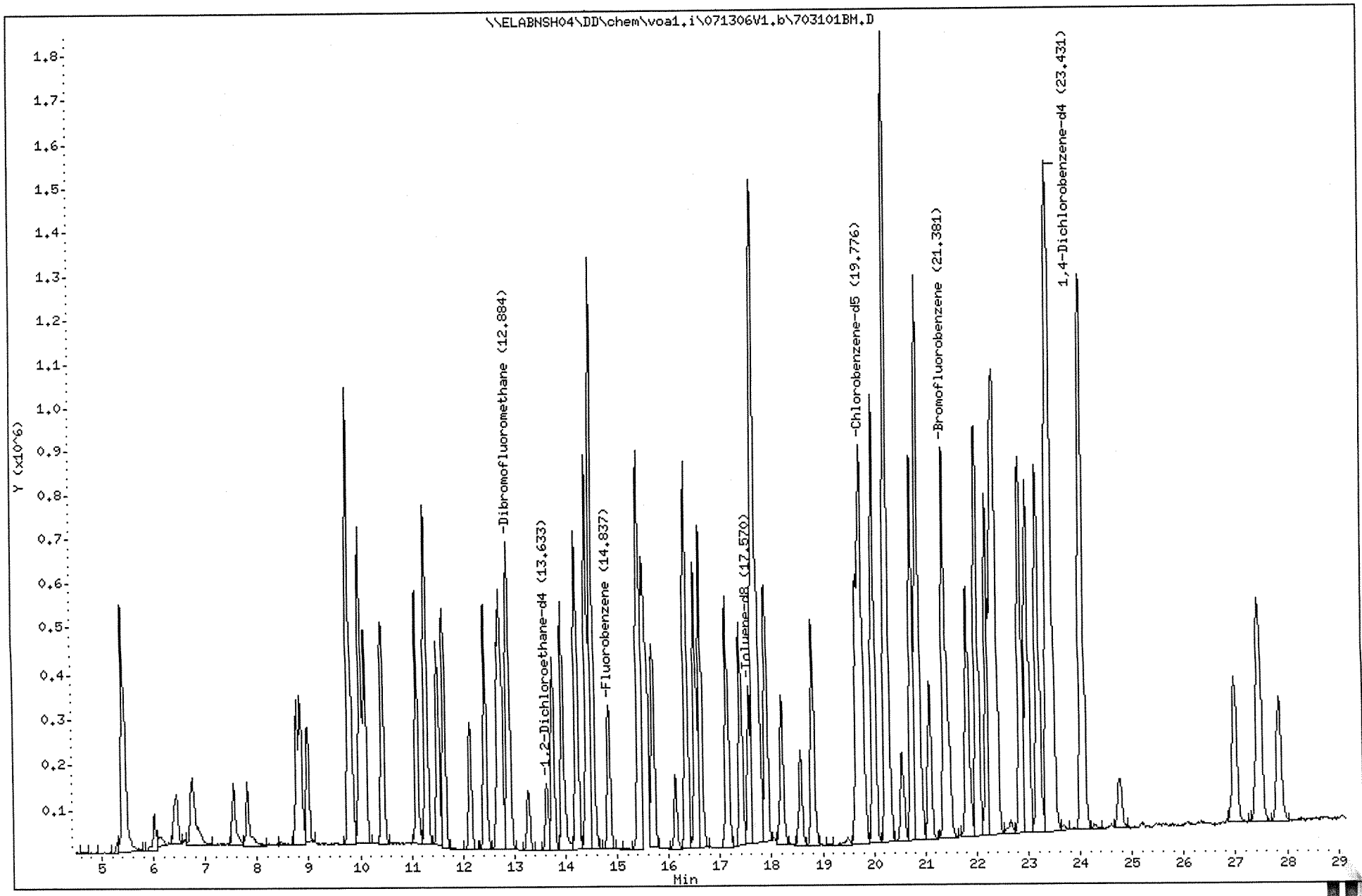
Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BM.D
Date : 13-JUL-2006 13:45
Client ID: 51CFM1BS060711 MS
Sample Info: 0607031-01;;5.01;;;MS

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000158



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM1BS0
60711 MSD

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07031

Matrix: (soil/water) SOIL Lab Sample ID: 0607031-01

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 703101BS

Level: (low/med) LOW Date Sampled: 07/11/06 12:20

% Moisture: not dec. 8 Date Analyzed: 07/13/06 14:21

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.48	5.2	51	
100-41-4	Ethylbenzene	0.77	5.2	51	
108-88-3	Toluene	0.89	5.2	52	
1330-20-7	Xylene(total)	0.72	5.2	140	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BS.D
Report Date: 13-Jul-2006 17:11

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BS.D
Lab Smp Id: 0607031-01 Client Smp ID: 51CFM1BS060711 MSD
Inj Date : 13-JUL-2006 14:21 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607031-01;;5.25;;;MSD
Misc Info : ch2.v07031;3;MSD;;;btex.sub;#4894
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071306V1.b\V1SOILch2m.m
Meth Date : 13-Jul-2006 17:10 mmcginnity Quant Type: ISTD
Cal Date : 09-JUN-2006 15:27 Cal File: V1STD01.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.250	Weight of sample extracted (g)
Solids	92.300	Percent Solids

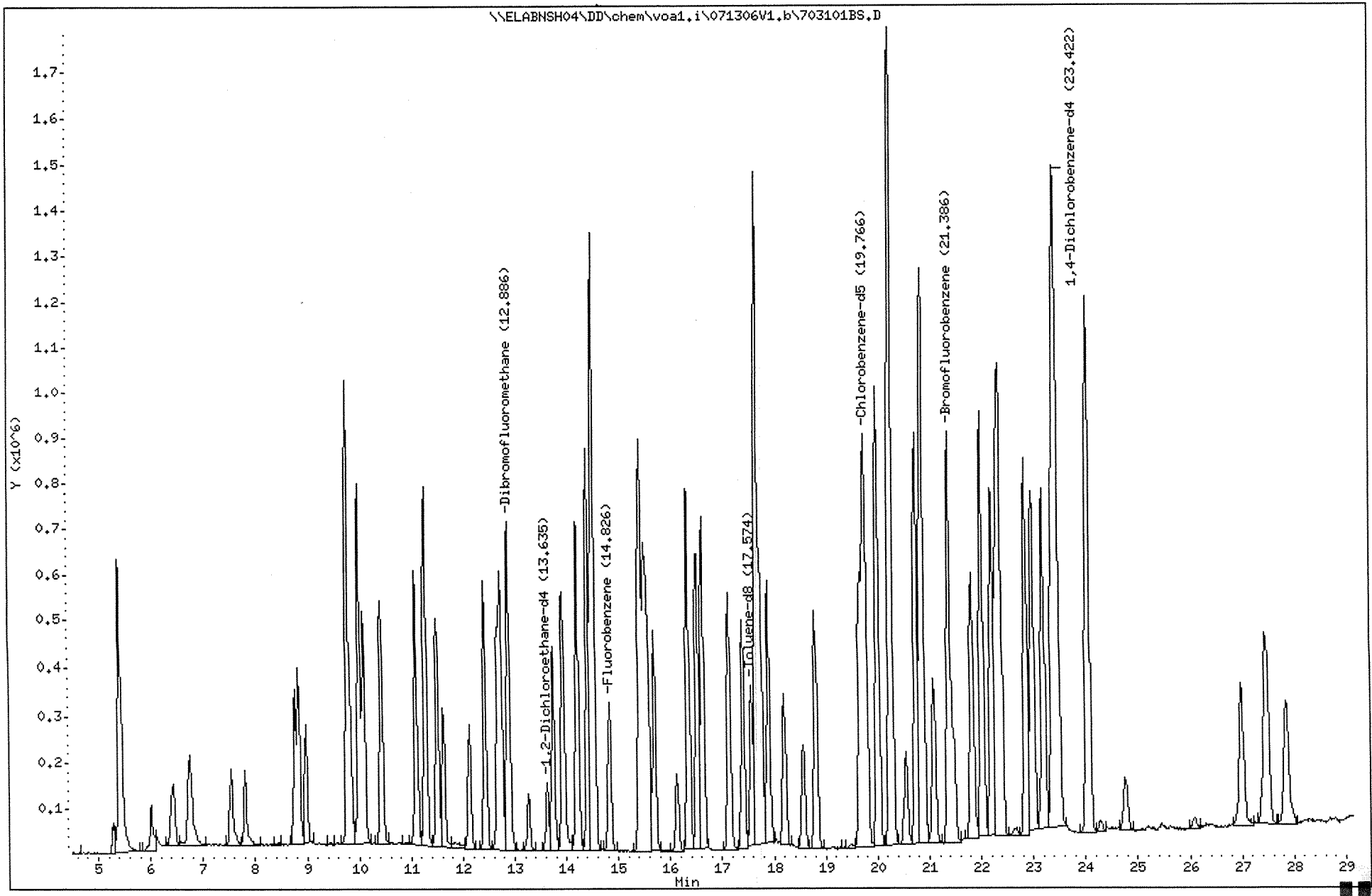
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.826	14.833	(1.000)	576067	30.0000	
$ 44 Dibromofluoromethane	111	12.930	12.922	(0.872)	161676	28.5365	29.44
54 Benzene	78	14.517	14.524	(0.979)	1676489	49.3066	50.88
$ 48 1,2-Dichloroethane-d4	102	13.635	13.627	(0.920)	38916	27.5203	28.40
$ 73 Toluene-d8	98	17.574	17.553	(0.891)	530218	31.1850	32.18
74 Toluene	92	17.677	17.671	(0.896)	998257	50.1274	51.72
$ 95 Bromofluorobenzene	95	21.474	21.470	(1.089)	229237	28.3428	29.24
* 82 Chlorobenzene-d5	82	19.721	19.716	(1.000)	291180	30.0000	
84 Ethylbenzene	91	20.016	20.011	(1.015)	1935996	49.1914	50.76
85 m,p-Xylene	91	20.266	20.261	(1.028)	2854707	90.7512	93.64
M 91 Xylene(total)	91				4398177	133.204	137.4
89 o-Xylene	91	20.870	20.865	(1.058)	1543470	46.7459	48.23
* 106 1,4-Dichlorobenzene-d4	152	23.436	23.432	(1.000)	201899	30.0000	

Data File: \\ELABNSH04\DD\chem\voa1.i\071306V1.b\703101BS.D
Date : 13-JUL-2006 14:21
Client ID: 51CFM1BS060711 MSD
Sample Info: 0607031-01;;5.25;;;MSD

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



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Data Path: C:\...

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Airbags

Raw 6-10-06

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Line	Type	Vial	DataFile	Method	Sample Name
1	QC	1	PREBLK01	VSOIL1	V1bLK;;;;;
2	QC	2	PREBLK02	VSOIL1	V1bLK;;;;;
3	Sample	1	V1BFB01	V1BFBFS	V1BFB 50ng;;;;; 1850 6-9-06
4	ICal	2	V1STD07	VSOIL1	V1STD200ppb;;;;;
5	ICal	3	V1STD06	VSOIL1	V1STD100ppb;;;;;
6	ICal	4	V1STD05	VSOIL1	V1STD50ppb;;;;;
7	ICal	5	V1STD04	VSOIL1	V1STD20ppb;;;;;
8	ICal	6	V1STD03	VSOIL1	V1STD10ppb;;;;;
9	ICal	7	V1STD02	VSOIL1	V1STD5.0ppb;;;;;
10	ICal	8	V1STD01	VSOIL1	V1STD2.0ppb;;;;;
11	QC	9	V1LCS01	VSOIL1	V1BLK0609LCS;;;;;50ppb
12	QC	10	BLANK01	VSOIL1	V1bLK;;;;;
13	QC	11	V1BLK01	VSOIL1	V1BLK0609;;;;;
14	Sample	12	0604001	VSOIL1	0606040-01;;;;;
15	Sample	13	0604002	VSOIL1	0606040-02;;;;;
16	Sample	14	0604003	VSOIL1	0606040-03;;;;;
17	Sample	15	0604004	VSOIL1	0606040-04;;;;;
18	Sample	16	0604005	VSOIL1	0606040-05;;;;;
19	Sample	17	0604006	VSOIL1	0606040-06;;;;;
20	Sample	18	V1BFB01E	V1BFBFS	V1BFB 50ng;;;;; 2132 6-9-06
21	CCal	19	V1CCV01E	VSOIL1	V1STD50ppb;;;;;
22	QC	20	V1LCS01E	VSOIL1	V1BLK0609LCS;;;;;50ppb
23	QC	21	BLANK01E	VSOIL1	V1bLK;;;;;
24	QC	22	V1BLK01E	VSOIL1	V1BLK0609;;;;;
25	Sample	23	0604007	VSOIL1	0606040-07;;;;;
26	Sample	24	0604008	VSOIL1	0606040-08;;;;; 0109 6-10-06

Data Path: C:\...

Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: QC	V1bLK;;;;;	
	Vial: 1	;3;BLANK;;;gm-all.sub;#4894	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: QC	V1bLK;;;;;	
	Vial: 2	;3;BLANK;;;gm-all.sub;#4894	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK02.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
3	Type: Sample	V1BFB 50ng;;;;;	
	Vial: 1	;3;BFB;;;all.sub;#4916	
	Meth: V1BFBFS.M	Barcode:	
	Data: V1BFB01.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
4	Type: ICal	V1STD200ppb;;;;;	
	Vial: 2	;1;;;7;gm-all.sub;#4894,4917	
	Meth: VSOIL1.M	Barcode:	
	Data: V1STD07.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
5	Type: ICal	V1STD100ppb;;;;;	
	Vial: 3	;1;;;6;gm-all.sub;#4894,4917	
	Meth: VSOIL1.M	Barcode:	
	Data: V1STD06.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
6	Type: ICal	V1STD50ppb;;;;;	
	Vial: 4	;1;;;5;gm-all.sub;#4894,4917	
	Meth: VSOIL1.M	Barcode:	
	Data: V1STD05.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
7	Type: ICal	V1STD20ppb;;;;;	
	Vial: 5	;1;;;4;gm-all.sub;#4894,4917	
	Meth: VSOIL1.M	Barcode:	
	Data: V1STD04.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
8	Type: ICal	V1STD10ppb;;;;;	
	Vial: 6	;1;;;3;gm-all.sub;#4894,4917	
	Meth: VSOIL1.M	Barcode:	

Sequence: 060906V1.S Last Modified: Fri Jun 09 16:55:43 2006 Page: 1

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   CR Database      :Default                 CR Spreadsheet  :Default
-------------------------------------------------------------------------
9  Type: ICal        V1STD5.0ppb;;;;;
   Vial: 7           ;1;;;2;gm-all.sub;#4894,4917
   Meth: VSOIL1.M    Barcode:
   Data: V1STD02.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10 Type: ICal        V1STD2.0ppb;;;;;
   Vial: 8           ;1;;;1;gm-all.sub;#4894,4917
   Meth: VSOIL1.M    Barcode:
   Data: V1STD01.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11 Type: QC          V1BLK0609LCS;;;;;50ppb
   Vial: 9           ;3;LCS;;;gm-all.sub;#4894,4918
   Meth: VSOIL1.M    Barcode:
   Data: V1LCS01.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12 Type: QC          V1bLK;;;;;
   Vial: 10          ;3;BLANK;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: BLANK01.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13 Type: QC          V1BLK0609;;;;;
   Vial: 11          ;3;BLANK;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: V1BLK01.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14 Type: Sample      0606040-01;;;;;
   Vial: 12          ear.v06040;0;;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: 0604001.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15 Type: Sample      0606040-02;;;;;
   Vial: 13          ear.v06040;0;;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: 0604002.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16 Type: Sample      0606040-03;;;;;
   Vial: 14          ear.v06040;0;;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: 0604003.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17 Type: Sample      0606040-04;;;;;
   Vial: 15          ear.v06040;0;;;;gm-all.sub;#4894
   Meth: VSOIL1.M    Barcode:
   Data: 0604004.D   Samp Amt: 0          Multiplr: 1
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18  Type: Sample        0606040-05;;;;;
    Vial: 16            ear.v06040;0;;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: 0604005.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: Sample        0606040-06;;;;;
    Vial: 17            ear.v06040;0;;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: 0604006.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: Sample        V1BFB 50ng;;;;;
    Vial: 18            ;3;BFB;;;all.sub;#4916
    Meth: V1BFBFS.M     Barcode:
    Data: V1BFB01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: CCal          V1STD50ppb;;;;;
    Vial: 19            ;2;;;;gm-all.sub;#4894,4917
    Meth: VSOIL1.M      Barcode:
    Data: V1CCV01E.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: QC            V1BLK0609LCS;;;;;50ppb
    Vial: 20            ;3;LCS;;;gm-all.sub;#4894,4918
    Meth: VSOIL1.M      Barcode:
    Data: V1LCS01E.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: QC            V1bLK;;;;;
    Vial: 21            ;3;BLANK;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: BLANK01E.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24  Type: QC            V1BLK0609;;;;;
    Vial: 22            ;3;BLANK;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: V1BLK01E.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25  Type: Sample        0606040-07;;;;;
    Vial: 23            ear.v06040;0;;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: 0604007.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
26  Type: Sample        0606040-08;;;;;
    Vial: 24            ear.v06040;0;;;;gm-all.sub;#4894
    Meth: VSOIL1.M      Barcode:
    Data: 0604008.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
```

6464

Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071006v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

M 7/10/06

6509

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	QC	1	PREBLK01	VSOIL1	V1bLK;;;;;
2	QC	2	PREBLK02	VSOIL1	V1bLK;;;;;
3	Sample	100	V1BFB01	V1BFBFS	V1BFB 50ng;;;;;9:57, 7/10
4	CCal	1	V1CCV01	VSOIL1	V1STD50ppb;;;;;
5	QC	2	V1LCS01	VSOIL1	V1BLK0710LCS;;;;;
6	QC	3	BLANK01	VSOIL1	V1bLK;;;;;
7	QC	4	V1PBLK01	VSOIL1	V1PBLK0710;;;;;
8	Sample	5	0702203A	VSOIL1	0607022-03;;4.21;;;
9	Sample	6	0702204A	VSOIL1	0607022-04;;4.37;;;
10	Sample	7	0702205A	VSOIL1	0607022-05;;4.74;;;-RR 50X
11	Sample	8	0702206B	VSOIL1	0607022-06;;4.7;;; -RR 100X
12	Sample	9	0702207A	VSOIL1	0607022-07;;3.31;;;-RR 50X
13	Sample	10	0702208A	VSOIL1	0607022-08;;4.84;;;-RR ~~100X~~ 'B', possible c.o?
14	Sample	11	0702209A	VSOIL1	0607022-09;;5.24;;;-RR 50X
15	Sample	12	0702210A	VSOIL1	0607022-10;;5.48;;;-RR 'B', possible c.o?
16	Sample	13	0702211A	VSOIL1	0607022-11;;4.63;;;
17	Sample	14	702203AM	VSOIL1	0607022-03;;4.91;;;MS
18	Sample	15	702203AS	VSOIL1	0607022-03;;5.27;;;MSD 18:54, 7/10
19	QC	16	BLANK02	VSOIL1	V1bLK;;;;;
20	QC	17	BLANK03	VSOIL1	V1bLK;;;;;
21	QC	18	BLANK04	VSOIL1	V1bLK;;;;;
22	QC	19	BLANK05	VSOIL1	V1bLK;;;;;
23	QC	20	BLANK06	VSOIL1	V1bLK;;;;;
24	QC	100	BLANK	V1BFB	V1bLK;;;;;

Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071006v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

6510

Line	Sample Name/Misc Info
1 Type: QC	V1bLK;;;;;
Vial: 1	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: PREBLK01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
2 Type: QC	V1bLK;;;;;
Vial: 2	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: PREBLK02.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
3 Type: Sample	V1BFB 50ng;;;;;
Vial: 100	;3;BFB;;;all.sub;#4916
Meth: V1BFBFS.M	Barcode:
Data: V1BFB01.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
4 Type: CCal	V1STD50ppb;;;;;
Vial: 1	;2;;;;gm-all.sub;#4928,4935
Meth: VSOIL1.M	Barcode:
Data: V1CCV01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
5 Type: QC	V1BLK0710LCS;;;;;
Vial: 2	;3;LCS;;;gm-all.sub;#4928,4936
Meth: VSOIL1.M	Barcode:
Data: V1LCS01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
6 Type: QC	V1bLK;;;;;
Vial: 3	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: BLANK01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
7 Type: QC	V1PBLK0710;;;;;
Vial: 4	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: V1PBLK01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
8 Type: Sample	0607022-03;;4.21;;;
Vial: 5	ch2.v07022;0;;;;btex.sub;#4894
Meth: VSOIL1.M	Barcode:

```
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample      0607022-04;;4.37;;;
    Vial: 6           ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702204A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: Sample      0607022-05;;4.74;;;
    Vial: 7           ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702205A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample      0607022-06;;4.7;;;
    Vial: 8           ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702206B.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      0607022-07;;3.31;;;
    Vial: 9           ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702207A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample      0607022-08;;4.84;;;
    Vial: 10          ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702208A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample      0607022-09;;5.24;;;
    Vial: 11          ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702209A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      0607022-10;;5.48;;;
    Vial: 12          ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702210A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample      0607022-11;;4.63;;;
    Vial: 13          ch2.v07022;0;;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 0702211A.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      0607022-03;;4.91;;;MS
    Vial: 14          ch2.v07022;3;MS;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 702203AM.D  Samp Amt: 0          Multiplr: 1
```

6511

```
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0607022-03;;5.27;;;MSD
    Vial: 15          ch2.v07022;3;MSD;;;btex.sub;#4894
    Meth: VSOIL1.M    Barcode:
    Data: 702203AS.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: QC          V1bLK;;;;;
    Vial: 16          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: QC          V1bLK;;;;;
    Vial: 17          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK03.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: QC          V1bLK;;;;;
    Vial: 18          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK04.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: QC          V1bLK;;;;;
    Vial: 19          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK05.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: QC          V1bLK;;;;;
    Vial: 20          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK06.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: QC          V1bLK;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#4928
    Meth: V1BFB.M     Barcode:
    Data: BLANK.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

6512

Sequence Name: C:\HPCHEM\1\SEQUENCE\071206v1.S
Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071206v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6 of 13

M 71206

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	QC	1	PREBLK01	VSOIL1	V1bLK;;;;;
2	QC	2	PREBLK02	VSOIL1	V1bLK;;;;;
3	Sample	100	V1BFB01	V1BFBFS	V1BFB 50ng;;;;; 11:02, 7/12
4	CCal	1	V1CCV01	VSOIL1	V1STD50ppb;;;;;
5	QC	2	V1LCS01	VSOIL1	V1BLK0712LCS;;;;;
6	QC	3	BLANK01	VSOIL1	V1bLK;;;;;
7	QC	4	V1BLK01	VSOIL1	V1BLK0712;;;;;
8	QC	5	V1MBLK01	VSOIL1	V1MBLK0712;;;;;
9	Sample	6	M0703110M	VSOIL1	0607031-10;;5;;;
10	Sample	7	0703101A	VSOIL1	0607031-01;;4.83;;;
11	Sample	8	0703102A	VSOIL1	0607031-02;;3.95;;;
12	Sample	9	0703106A	VSOIL1	0607031-06;;4.94;;;
13	Sample	10	0703108A	VSOIL1	0607031-08;;5.12;;;
14	Sample	11	0703109A	VSOIL1	0607031-09;;4.84;;;
15	Sample	12	M0703103	VSOIL1	0607031-03;;5.52;;;50x — Archive only
16	Sample	13	M0703104	VSOIL1	0607031-04;;3.55;;;100x
17	Sample	14	M0703105	VSOIL1	0607031-05;;4.35;;;50x
18	Sample	15	M0703107	VSOIL1	0607031-07;;4.94;;;50x
19	Sample	16	703101AM	VSOIL1	0607031-01;;3.72;;;MS — To be Run
20	Sample	17	703101AS	VSOIL1	0607031-01;;5.5;;;MSD
21	QC	18	BLANK02	VSOIL1	V1bLK;;;;;
22	QC	19	BLANK03	VSOIL1	V1bLK;;;;;
23	QC	100	BLANK	V1BFB	V1bLK;;;;;

Sequence Name: C:\HPCHEM\1\SEQUENCE\071206V1.S
Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071206v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6514

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: QC Vial: 1 Meth: VSOIL1.M Data: PREBLK01.D Area% Report :Default Quant Report :Default CR Database :Default	V1bLK;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2 Type: QC Vial: 2 Meth: VSOIL1.M Data: PREBLK02.D Area% Report :Default Quant Report :Default CR Database :Default	V1bLK;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3 Type: Sample Vial: 100 Meth: V1BFBFS.M Data: V1BFB01.D Area% Report :Default Quant Report :Default CR Database :Default	V1BFB 50ng;;;;; ;3;BFB;;;all.sub;#4916 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4 Type: CCal Vial: 1 Meth: VSOIL1.M Data: V1CCV01.D Area% Report :Default Quant Report :Default CR Database :Default	V1STD50ppb;;;;; ;2;;;;gm-all.sub;#4928,4941 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5 Type: QC Vial: 2 Meth: VSOIL1.M Data: V1LCS01.D Area% Report :Default Quant Report :Default CR Database :Default	V1BLK0712LCS;;;;; ;3;LCS;;;gm-all.sub;#4928,4942 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6 Type: QC Vial: 3 Meth: VSOIL1.M Data: BLANK01.D Area% Report :Default Quant Report :Default CR Database :Default	V1bLK;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7 Type: QC Vial: 4 Meth: VSOIL1.M Data: V1BLK01.D Area% Report :Default Quant Report :Default CR Database :Default	V1BLK0712;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8 Type: QC Vial: 5 Meth: VSOIL1.M	V1MBLK0712;;;;; ;3;BLANK;;;gm-all.sub;#4928 Barcode:

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample       0607031-10;;5;;;
    Vial: 6            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703110M.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: Sample       0607031-01;;4.83;;;
    Vial: 7            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703101A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample       0607031-02;;3.95;;;
    Vial: 8            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703102A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample       0607031-06;;4.94;;;
    Vial: 9            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703106A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample       0607031-08;;5.12;;;
    Vial: 10           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703108A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample       0607031-09;;4.84;;;
    Vial: 11           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703109A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample       0607031-03;;5.52;;;50x
    Vial: 12           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: M0703103.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample       0607031-04;;3.55;;;100x
    Vial: 13           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: M0703104.D   Samp Amt: 0          Multiplr: 2
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample       0607031-05;;4.35;;;50x
    Vial: 14           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: M0703105.D   Samp Amt: 0          Multiplr: 1
```

6515

```
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample       0607031-07;;4.94;;;50x
    Vial: 15           ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: M0703107.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample       0607031-01;;3.72;;;MS
    Vial: 16           ch2.v07031;3;MS;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101AM.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample       0607031-01;;5.5;;;MSD
    Vial: 17           ch2.v07031;3;MSD;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101AS.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: QC           V1bLK;;;;;
    Vial: 18           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: BLANK02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: QC           V1bLK;;;;;
    Vial: 19           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: BLANK03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: QC           V1bLK;;;;;
    Vial: 100          ;3;BLANK;;;gm-all.sub;#4928
    Meth: V1BFB.M      Barcode:
    Data: BLANK.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

6576

Sequence Name:
Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071306v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6517

M 7/13/06

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	V1BFB01	V1BFBFS	V1BFB 50ng;;;;; 5:52, 7/13
2	CCal	1	V1CCV01	VSOIL1	V1STD50ppb;;;;;
3	QC	2	V1LCS01	VSOIL1	V1BLK0712LCS;;;;;
4	QC	3	BLANK01	VSOIL1	V1bLK;;;;;
5	QC	4	V1BLK01	VSOIL1	V1BLK0713;;;;;
6	Sample	5	M0703104	VSOIL1	0607031-04;;3.55;;;100x RR 'A'
7	Sample	6	M0703105	VSOIL1	0607031-05;;4.35;;;50x RR 'A'
8	Sample	7	M0703107	VSOIL1	0607031-07;;4.94;;;50x
9	Sample	8	0703104A	VSOIL1	0607031-04;;5.73;;;
10	Sample	9	0703105A	VSOIL1	0607031-05;;5.5;;;
11	Sample	10	703101AM	VSOIL1	0607031-01;;3.72;;;MS } RR 'B'
12	Sample	11	703101AS	VSOIL1	0607031-01;;5.5;;;MSD }
13	QC	12	BLANK02	VSOIL1	V1bLK;;;;;
14	Sample	13	703101BM	VSOIL1	0607031-01;;5.01;;;MS
15	Sample	14	703101BS	VSOIL1	0607031-01;;5.25;;;MSD 14:21, 7/13
16	QC	15	BLANK03	VSOIL1	V1bLK;;;;;
17	QC	100	BLANK	V1BFB	V1bLK;;;;;

Comment: EPA 8260B soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071306v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6518

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample	V1BFB 50ng;;;;;
Vial: 100	;3;BFB;;;all.sub;#4916
Meth: V1BFBFS.M	Barcode:
Data: V1BFB01.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
2 Type: CCal	V1STD50ppb;;;;;
Vial: 1	;2;;;;gm-all.sub;#4928,4941
Meth: VSOIL1.M	Barcode:
Data: V1CCV01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
3 Type: QC	V1BLK0712LCS;;;;;
Vial: 2	;3;LCS;;;gm-all.sub;#4928,4942
Meth: VSOIL1.M	Barcode:
Data: V1LCS01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
4 Type: QC	V1bLK;;;;;
Vial: 3	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: BLANK01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
5 Type: QC	V1BLK0713;;;;;
Vial: 4	;3;BLANK;;;gm-all.sub;#4928
Meth: VSOIL1.M	Barcode:
Data: V1BLK01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
6 Type: Sample	0607031-04;;3.55;;;100x
Vial: 5	ch2.v07031;0;;;;btex.sub;#4894
Meth: VSOIL1.M	Barcode:
Data: M0703104.D	Samp Amt: 0 Multiplr: 2
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
7 Type: Sample	0607031-05;;4.35;;;50x
Vial: 6	ch2.v07031;0;;;;btex.sub;#4894
Meth: VSOIL1.M	Barcode:
Data: M0703105.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
8 Type: Sample	0607031-07;;4.94;;;50x
Vial: 7	ch2.v07031;0;;;;btex.sub;#4894
Meth: VSOIL1.M	Barcode:

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample       0607031-04;;5.73;;;
    Vial: 8            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703104A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: Sample       0607031-05;;5.5;;;
    Vial: 9            ch2.v07031;0;;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 0703105A.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample       0607031-01;;3.72;;;MS
    Vial: 10           ch2.v07031;3;MS;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101AM.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample       0607031-01;;5.5;;;MSD
    Vial: 11           ch2.v07031;3;MSD;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101AS.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: QC           V1bLK;;;;;
    Vial: 12           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: BLANK02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample       0607031-01;;5.01;;;MS
    Vial: 13           ch2.v07031;3;MS;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101BM.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample       0607031-01;;5.25;;;MSD
    Vial: 14           ch2.v07031;3;MSD;;;btex.sub;#4894
    Meth: VSOIL1.M     Barcode:
    Data: 703101BS.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: QC           V1bLK;;;;;
    Vial: 15           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: BLANK03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: QC           V1bLK;;;;;
    Vial: 100          ;3;BLANK;;;gm-all.sub;#4928
    Meth: V1BFB.M      Barcode:
    Data: BLANK.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

6579

6520

ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
FREEZER

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-6	7:15 6/29/16 M			VOA
6404-01-02	Comp for lgin	2:00 6/29/16 M		VOA
6405-02	Comp for ext.	2:30 7/6/16 M		VOA
7022-03-11	Comp for hbart	11:15 7/10/16 M		VOA
7022-03-11	6:05 7/11/16 M	7:30 7/11/16 M		VOA
7031-1-10	Comp for lgin	1:00 7/12/16 M		VOA
7031-04,05,01	9:20 7/13/16 M			VOA

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 64231 6405-2 6404-1,2	9:10 7-6-06 lg	11:20 7/06/06		Herb Rest BNA PCB
6405-02	9:50 7-6-6			VOA
6423 6422	1013 7/6/06	1640 7/6/06		✓. S
7001-01 B →02	1151 7/6/06 RCh	1702 7/6/06 RCh		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCh			ZHE
6399.01→02	1431 7/6/06 RCh			SPLP
6405-02	7:00 7/7/6	11:30 7/7/6		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:45 7/7/6	wght + pH	VOA
7014-03B	1:35 7/7/6			VOA
7022 01-711	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06	15:32 7/10/06		CN
7023.01 A,B	9:11 7/10/06 RCh	1450 7/10/06 RCh	taken from extractns	PH, TCLP, ZHE/NON
7014	9/6 7/10/06			✓S
7022-3-11	10:05 7/10/6		wght + pH	VOA
7014-1-3	1230 7-10-06	1245 7-10-06		FPRO
6399	1425 7/10/06	1456 7/10/06		✓.S
7014-01→03	6:30 7/11/06	7:16 7/11/06		BNA
7023-01	↓	↓		PCB
6226-01 6217-01-05 6236-1-07 6396-1,2	8:10 7/11/06	15:45 7/11/06		Cr+6

Empirical Laboratories

Empirical Laboratories

Logbook#: MS042

Fraction: Volatiles Matrix: Soil Level: Low/Medium (circle one) Supervisor

#	Client	Lab No.	Date Prepared	Time Prepared	Analyst Initials	Sample Weight (g)	MeOH Volume (mL)	Solvent-Reagent Lot/Vendor: Vial	NaHSO4	Methanol	TAT 'To be frozen' Notes/Comments	Final
1	CH_2Mix1	07022-03A	7/10/16	10:30	MDM	4.21	\	DEC B608201VB	N/A		1n DI 31.09	35.3
2		B				4.92	\				31.18	36.1
3		M				4.53	5			Empirical	29.47	34.0
4		-03MSA				4.91	\				31.09	36.0
5		B				4.8	\				31.20	36.0
6		M				5.12	5			DEC	29.58	34.7
7		-03MSDA				5.27	\			B608201VB	31.13	36.4
8		B				5.18	\				31.12	36.3
9		M				5.1	5				30.30	35.4
10		-04A				4.37	\				31.13	35.5
11		B				4.41	\				31.29	35.7
12		M				4.64	5				30.36	35.0
13		-05A				4.74	\				31.06	35.8
14		B				4.71	\				30.99	35.7
15		M				5.07	5				30.23	35.3
16		-06A				2.59	\				31.31	33.9
17		B				4.7	\				30.80	35.5
18		M				4.46	5				29.84	34.3
19		-07A				3.31	\				31.39	34.7
20		B				4.23	\				31.37	35.6
21		M				5.03	5				29.67	34.7
22		-08A				4.84	\				31.16	36.0
23		B				5.52	\				30.98	36.5
24		M				4.58	5				30.42	35.0
25		-09A				5.24	\				31.16	36.4
26		B				5.27	\				31.03	36.3
27		M				4.96	5				29.34	34.3
28		-10A				5.48	\				31.12	36.6
29		B				4.98	\				31.22	36.2
30		M				4.46	5				29.64	34.1
31		-11A				4.63	\				31.07	35.7
32		B				5.42	\				30.88	36.3
33		M				4.69	5				29.71	34.4
34												
35												
36												
37												
38												
39												
40												

000180

Empirical Laboratories

Logbook#: MS042

Fraction: Volatiles Matrix: Soil Level: Low/Medium (circle one) Supervisor_____

#	Client	Lab No.	Date Prepared	Time Prepared	Analyst Initials	Sample Weight (g)	MeOH Volume (mL)	Solvent-Reagent Lot/Vendor Vial	NaHSO4	Methanol	FREEZE Time	Notes/Comments	Final
1	CH2M Hill	07031-01A	7/12/16	10:15	MM	4.83	\	DEC	N/A		31.27		36.1
2		B				5.21	\	136082016B			31.29		36.5
3		M				4.47	5			Pumped	30.73		35.2
4		-01MS-A				3.72	\				31.28		35.0
5		B				5.01	\				31.09		36.1
6		M				4.32	5			136158016B	30.28		34.6
7		-01MSD-A				5.5	\				31.00		36.5
8		B				5.25	\				31.15		36.4
9		M				4.4	5				30.20		34.6
10		-02A				3.95	\				31.05		35.0
11		B				4.51	\				30.99		35.5
12		M				4.04	5				30.46		34.5
13		-03A				4.69	\				31.11		35.8
14		B				5.52	\				31.18		36.7
15		M				5.52	5				30.58		36.1
16		-04A				5.73	\				31.07		36.8
17		B				4.93	\				31.07		36.0
18		M				3.55	5				30.45		34.0
19		-05A				5.5	\				31.00		36.5
20		B				3.41	\				30.99		34.4
21		M				4.35	5				30.55		34.9
22		-06A				4.94	\				31.06		36.0
23		B				4.66	\				30.94		35.6
24		M				5.27	5				30.33		35.6
25		-07A				5.27	\				30.83		36.1
26		B				4.96	\				31.04		36.0
27		M				4.94	5				30.36		35.3
28		-08A				5.12	\				31.08		36.2
29		B				5.15	\				31.15		36.3
30		M				4.39	5				30.31		34.7
31		-09A				4.84	\				31.06		35.9
32		B				4.76	\				31.14		35.9
33		M				4.24	5				30.26		34.5
34		-10M				-	5				30.34		-
35													
36													
37													
38													
39													
40													

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%SOLIDS

Client(s): CH2MHILL

Empirical Laboratories

Analyst: BT
Method #: 2540
Method Type: Gravimetric

Date on: 7/13/06
Time on: 8:10

Date off: 7/13/06
Time off: 2:10

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	7031-01		CH2MHILL	1.2388	5.7283	6.5232	92.3			
2	Sample	7031-02		CH2MHILL	1.2426	6.1434	6.8039	90.5			
3	Sample	7031-03		CH2MHILL	1.2473	6.2964	7.2579	95.5			
4	Sample	7031-04		CH2MHILL	1.2496	5.8709	6.7695	94.0			
5	Sample	7031-05		CH2MHILL	1.2508	5.5589	6.2606	90.1			
6	Sample	7031-06		CH2MHILL	1.2535	5.8112	6.5482	91.1			
7	Sample	7031-07		CH2MHILL	1.2524	5.5289	6.4056	93.2			
8	Sample	7031-08		CH2MHILL	1.2451	6.1383	7.0552	94.7			
9	Sample	7031-09		CH2MHILL	1.2500	5.4825	6.3003	92.1			
10	Sample										
11	Sample										
12	Sample										
13	Sample										
14	Sample										
15	Sample										
16	Sample										
17	Sample										
18	Sample										
19	Sample										
20	Sample										
21	Duplicate	7031-09		CH2MHILL	1.2464	5.4559	6.2548	91.8	0.3	+/-20%	

NS Mayport

PREPARED FOR: NS Mayport/Satellite Parking Lot 2 Excavation – Additional Sampling

PREPARED BY: Camden Robinson/ Associate Project Chemist/CCI

COPIES: Mike Halil/Project Manager/CCI

DATE: August 11, 2006

SUBJECT: Quality Assessment for Samples Collected July 25th, 2006

This quality assurance memorandum is based upon a review of analytical data generated for soil samples and the associated field quality control samples collected July 25th 2006 at the Naval Station Mayport, in Jacksonville, Florida. The samples were collected as a part of the satellite parking lot 2 excavations additional sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories of Nashville, Tennessee served as the laboratory for this satellite parking lot 2 excavations additional sampling event for the following analyses:

- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by SW-846 method 8260B,
- Polyaromatic Hydrocarbons (PAH) by SW-846 method 8270C,
- Total Petroluem Hydrocarbon (TPH) by method FL-PRO

Table 1-1 Summary Sample Data Reviewed
NS Mayport Satellite Parking Lot 2 Excavation Additional Sampling

Sample ID	Date Sampled	LabID	Matrix	Analysis
51EQB3W060725	07/25/2006	0607211-01	Water	[1], [2], [3]
51EQB4W060725	07/25/2006	0607211-02	Water	[1], [2], [3]
51CFM09S060725	07/25/2006	0607211-03	Water	[1], [2], [3]
51CFM10S060725	07/25/2006	0607211-04	Water	[1], [2], [3]
51CFM11S060725	07/25/2006	0607211-05	Water	[1], [2], [3]
51CFM12S060725	07/25/2006	0607211-06	Water	[1], [2], [3]
51CFM13S060725	07/25/2006	0607211-07	Water	[1], [2], [3]
51CFM14S060725	07/25/2006	0607211-08	Water	[1], [2], [3]
51CFM15S060725	07/25/2006	0607211-09	Water	[1], [2], [3]
51CFM16S060725	07/25/2006	0607211-10	Water	[1], [2], [3]
51CFM17S060725	07/25/2006	0607211-11	Water	[1], [2], [3]
*51DUP1S060725	07/25/2006	0607211-12	Water	[1], [2], [3]

TB3W060725	07/25/2006	0607211-13	Water	[1]
TB4W060725	07/25/2006	0607211-14	Water	[1]

ANALYSES PERFORMED CODES:
[1] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by Method SW 846 8260B
[2] – Polyaromatic Hydrocarbons (PAH) by Method SW 846 8270C
[3] – Total Petroluem Hydrocarbon by method FL-PRO
** 51DUP1S060725 is blind field duplicate for sample 51CFM09S060725*

The quality assessment report for the analyses was reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All organic, inorganic, and classical chemistry results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual for Environmental Laboratories, Final-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, and electronic data deliverables.

The analyses were performed acceptably and required only general qualifying statements. It is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. Result summary reports presenting the validated and qualified results are presented in Attachment II.

SOIL RESIDENTAL CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the Satellite Parking Lot 2 Excavation Additional Sampling 2006 event for the Benzene, Tolune, Ethylbenzene, Total Xylenes, Polyaromatic Hydrocarbons, and Total Petroluem Hydrocarbon (PRO) analyses were less than the action level soil residental cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (PRO)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
PRO	51CFM11S060725	710 B	460
PRO	51CFM15S060725	830 B	460

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Benzo(a)anthracene	51CFM09S060725	3.4 J	1.3
Benzo(a)pyrene	51CFM09S060725	3.8 J	0.1
Benzo(b)fluoranthene	51CFM09S060725	4.7 J	1.3
Dibenz(a,h)anthracene	51CFM09S060725	0.55 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM09S060725	1.7	1.3
Benzo(a)pyrene	51CFM10S060725	0.46	0.1
Benzo(a)anthracene	51CFM11S060725	28 J	1.3
Benzo(a)pyrene	51CFM11S060725	37	0.1
Benzo(b)fluoranthene	51CFM11S060725	41	1.3
Benzo(k)fluoranthene	51CFM11S060725	29 J	13
Dibenz(a,h)anthracene	51CFM11S060725	4.9 J	0.1
Indeno(1,2,3-cd)pyrene	51CFM11S060725	16 J	1.3
Benzo(a)pyrene	51CFM12S060725	0.18	0.1
Benzo(a)pyrene	51CFM13S060725	1.4	0.1
Benzo(b)fluoranthene	51CFM13S060725	1.4	1.3
Dibenz(a,h)anthracene	51CFM13S060725	0.18	0.1
Benzo(a)pyrene	51CFM14S060725	2.1	0.1
Benzo(b)fluoranthene	51CFM14S060725	3.9	1.3

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Residental Cleanup Target Levels (mg/kg)
Dibenz(a,h)anthracene	51CFM14S060725	0.3	0.1
Benzo(a)anthracene	51CFM15S060725	17	1.3
Benzo(a)pyrene	51CFM15S060725	19	0.1
Benzo(b)fluoranthene	51CFM15S060725	22	1.3
Indeno(1,2,3-cd)pyrene	51CFM15S060725	2.8	1.3
Benzo(a)pyrene	51CFM16S060725	0.54	0.1

SOIL INDUSTRIAL CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the Satellite Parking Lot 2 Excavation Additional Sampling 2006 event for the Benzene, Tolune, Ethylbenzene, Total Xylenes, Polyaromatic Hydrocarbons, and Total Petroluem Hydrocarbon (PRO) analyses were less than the action level soil industrial cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (PAH List)	Affected Sample	Sample Results (mg/kg)	Soil Industrial Cleanup Target Levels (mg/kg)
Benzo(a)pyrene	51CFM09S060725	3.8 J	0.7
Benzo(a)pyrene	51CFM11S060725	37	0.7
Benzo(a)pyrene	51CFM13S060725	1.4	0.7
Benzo(a)pyrene	51CFM14S060725	2.1	0.7
Benzo(a)pyrene	51CFM15S060725	19	0.7
Benzo(a)anthracene	51CFM11S060725	28 J	6.6
Benzo(a)anthracene	51CFM15S060725	17	6.6
Benzo(b)fluoranthene	51CFM04S060706	41	6.5
Benzo(b)fluoranthene	51CFM15S060725	22	6.5
Dibenz(a,h)anthracene	51CFM11S060725	4.9 J	0.7
Indeno(1,2,3-cd)pyrene	51CFM11S060725	16 J	6.6

GENERAL DATA QUALIFIERS

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary tables to indicate that they are quantitative estimates.

ORGANIC DATA QUALIFIERS

1-methylnaphthalene was not included in the polyaromatic hydrocarbon soil spike mix; therefore laboratory control sample, laboratory control sample duplicate, matrix spike and matrix spike duplicate recoveries could not be reported.

The quantitation limits or positive results reported for total petroleum hydrocarbons (PRO) and C16-C22 in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the continuing calibrations were reported during the total petroleum analysis. Lacks of precision during the continuing calibrations indicate instrument instability; therefore "J" qualifiers were apprended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
PRO	51CFM17S060725
C16-C22	51CFM11S060725 and 51CFM15S060725

The positive results reported for benzo (a) anthracene, benzo (b) fluoranthene, and benzo (a) pyrene in the sample listed below should be considered biased low and biased high quantitative estimates and may be lower or higher than reported. The associated recoveries for the client specific matrix spike (MS) and matrix spike duplicate (MSD) samples were both below and above the established quality control (QC) limit for these analytes. The bias low and bias high recoveries for these compounds indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by placing "J" qualifiers next to the benzo (a) anthracene, benzo (b) fluoranthene, and benzo (a) pyrene results for the sample listed below on the data summary tables.

Compound	Affected Samples
Benzo(a)anthracene	51CFM09S060725
Benzo(b)fluoranthene	51CFM09S060725
Benzo(a)pyrene	51CFM09S060725

The positive results reported for benzo (b) fluoroanthene and benzo (a) pyrene for sample 51CFM09S060725 should be considered quantitative estimates due to the analytes were reported outside the linear range of the calibration curve. A dilution was performed for this sample; however the results for benzo (b) fluoranthene and benzo (a) pyrene are considered invalid due to low internal standard failures reported for the diluted analysis. This has been indicated by placing a "J" qualifier next to the quantitative results for benzo(b)fluoranthene and benzo(a)pyrene for sample 51CFM09S060725 since the analytes had to be reported from the over calibration curve analysis.

The dibenz(a,h)anthracene result for sample 51CFM15S060725 was reported from the diluted analysis as non-detect due to low internal standard failure noted in the straight run for the polyaromatic hydrocarbon analysis. No qualifiers were required.

The positive result reported for total petroleum hydrocarbon (PRO) in the sample listed below is considered a quantitative estimate and may be lower than reported. One of the two surrogate compound recoveries were reported above acceptance criteria during the analysis of this sample. The high recovery may be due to matrix interferences present in this sample. The positive result reported for total petroleum hydrocarbon (PRO) in this sample has been appended with a "J" qualifier on the data summary table to indicate that it is a biased low quantitative estimate.

Compound	Affected Samples
PRO	51CFM12S060725

The total petroleum hydrocarbon (PRO), C12-C16, and C22-C36 results for the samples listed below are considered estimated due to the levels at which the analytes were present in the associated method blanks. This has been indicated by placing a "B" qualifier next to the reported results associated with the method blank contamination for the analytes listed on the data summary table for these samples.

Analyte	Affected Samples
PRO	51CFM09S060725, 51CFM10S060725, 51CFM11S060725, 51CFM12S060725, 51CFM13S060725, 51CFM14S060725, 51CFM15S060725, 51CFM16S060725, and 51DUP1S060725
C12-C16	51CFM11S060725 and 51CFM15S060725
C22-C36	51CFM11S060725 and 51CFM15S060725

The samples presented below were analyzed, re-analyzed at dilutions, or extracted following medium level protocol for the analyses indicated. These dilutions may have resulted in surrogate compounds diluted below the instrument detection limit; therefore surrogate recoveries may not be reported for all diluted analysis. These dilutions were required to prevent saturation of the instrument and to allow quantitation of the compounds within the linear range of the calibration curve, internal standard failures, and/or to reduce the effects of the matrix on the target compounds. Positive results for these compounds in the samples below have been reported from the diluted analyses. All other results and quantitation limits have been reported on the sample report summary from the initial analysis. However, higher quantitation limits may have resulted for specific volatile organic compounds, polyaromatic hydrocarbons, and total petroleum hydrocarbons which were not detected, in these samples. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds, polyaromatic hydrocarbons, and total petroleum hydrocarbons.

Sample ID	Analysis	Dilution Factor
51CFM13S060725	BTEX	50X
51CFM15S060725	BTEX	500X
51CFM11S060725	PRO	5X
51CFM15S060725	PRO	10X
51CFM09S060725	PAH	10X
51CFM11S060725	PAH	200X
51CFM14S060725	PAH	2X
51CFM15S060725	PAH	50X
51DUP1S060725	PAH	10X

Sample 51CFM09S060725 and its blind field duplicate sample 51DUP1S060725 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for soil samples relative percent difference (RPD) for benzene, toluene, ethylbenzene, total xylenes, total petroleum hydrocarbon, and polyaromatic hydrocarbons analyses with the exception of acenaphthene, anthracene, benzo(a)pyrene, dibenz(a,h)anthracene, and fluorene. A "J" qualifier was appended to the compound for the native sample and field duplicate sample listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Acenaphthene	51CFM09S060725 and 51DUP1S060725
Anthracene	51CFM09S060725 and 51DUP1S060725
Benzo(a)pyrene	51CFM09S060725 and 51DUP1S060725
Dibenz(a,h)anthracene	51CFM09S060725 and 51DUP1S060725
Fluorene	51CFM09S060725 and 51DUP1S060725

SUMMARY

The organic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached data summary report. A support documentation package has been prepared for this quality assurance review and filed for Contract Task Order 51 Satellite Parking Lot 2 Excavation Additional Sampling 2006-project files.

ATTACHMENT I

Data Summary Tables

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	The matrix spike/matrix spike duplicate accuracy or precision objectives were not met. (AIR ANALYSIS ONLY)	Not applicable

ATTACHMENT II

Chains of Custody

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721101

Level: (low/med) LOW Date Sampled: 07/25/06 15:50

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:30

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721102

Level: (low/med) LOW Date Sampled: 07/25/06 17:35

% Moisture: not dec. _____ Date Analyzed: 07/26/06 14:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0721103A

Level: (low/med) LOW Date Sampled: 07/25/06 16:10

% Moisture: not dec. 5 Date Analyzed: 07/26/06 16:20

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.50	5.3		U
100-41-4	Ethylbenzene	0.80	5.3		U
108-88-3	Toluene	0.92	5.3		U
1330-20-7	Xylene(total)	0.75	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 0721104A

Level: (low/med) LOW Date Sampled: 07/25/06 16:20

% Moisture: not dec. 8 Date Analyzed: 07/26/06 16:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.49	5.2		U
100-41-4	Ethylbenzene	0.78	5.2		U
108-88-3	Toluene	0.90	5.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721105B

Level: (low/med) LOW Date Sampled: 07/25/06 16:30

% Moisture: not dec. 5 Date Analyzed: 07/26/06 17:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721106A

Level: (low/med) LOW Date Sampled: 07/25/06 16:40

% Moisture: not dec. 7 Date Analyzed: 07/26/06 18:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.54	5.8		U
100-41-4	Ethylbenzene	0.86	5.8		U
108-88-3	Toluene	0.99	5.8		U
1330-20-7	Xylene(total)	0.80	5.8		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721107M

Level: (low/med) MED Date Sampled: 07/25/06 16:45

% Moisture: not dec. 12 Date Analyzed: 07/26/06 18:47

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	300		U
100-41-4	Ethylbenzene	46	300	670	
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300	5200	

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Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 0721108A

Level: (low/med) LOW Date Sampled: 07/25/06 16:50

% Moisture: not dec. 6 Date Analyzed: 07/26/06 19:23

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.40	4.3		U
100-41-4	Ethylbenzene	0.64	4.3		U
108-88-3	Toluene	0.74	4.3		U
1330-20-7	Xylene(total)	0.60	4.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0721109M

Level: (low/med) MED Date Sampled: 07/25/06 17:05

% Moisture: not dec. 11 Date Analyzed: 07/26/06 19:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	230	2500		UD
100-41-4	Ethylbenzene	370	2500		UD
108-88-3	Toluene	420	2500		UD
1330-20-7	Xylene(total)	340	2500	24000	D

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Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 0721110A

Level: (low/med) LOW Date Sampled: 07/25/06 17:15

% Moisture: not dec. 8 Date Analyzed: 07/27/06 08:05

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 4.4 (g/mL) G Lab File ID: 0721111A

Level: (low/med) LOW Date Sampled: 07/25/06 17:25

% Moisture: not dec. 9 Date Analyzed: 07/27/06 08:41

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.59	6.3		U
100-41-4	Ethylbenzene	0.94	6.3		U
108-88-3	Toluene	1.1	6.3		U
1330-20-7	Xylene(total)	0.88	6.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721112A

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. 6 Date Analyzed: 07/27/06 09:17

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.46	4.9		U
100-41-4	Ethylbenzene	0.74	4.9		U
108-88-3	Toluene	0.85	4.9		U
1330-20-7	Xylene(total)	0.69	4.9		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-13

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721113

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 12:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721114

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 032R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.061	0.17		U

C.L

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 033R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 015R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 23:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	100	B-MB

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 016R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 00:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	23	B-MB

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	590	R-D

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	710	D B-MB

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.17	4.2	3.8	J
	>C10-C12	0.17	0.42	2.8	
	>C12-C16	0.34	0.84	11	B-MB
	>C16-C22	0.50	1.2	230	E R-D
	>C22-C36	1.2	29	510	E R-D

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PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.84	21	1.7	JD
	>C10-C12	0.84	2.1		UD
	>C12-C16	1.7	4.2	9.4	D
	>C16-C22	2.5	6.3	290	D
	>C22-C36	5.9	150	610	D

R-O
J-C
B-MB

N.L

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0101

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.2	13	J B - MB,S

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 019R0101

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:53

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	26	B-mB

0.1

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 020R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 03:41

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	100	B-MB

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	850	ER-D

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	27	76	830	~~D~~ B-mB

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.18	4.5	19	
	>C10-C12	0.18	0.45	11	
	>C12-C16	0.36	0.89	54	B-MB
	>C16-C22	0.54	1.3	360	E R-D
	>C22-C36	1.2	31	520	E R-D

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.8	45		UD R-D
	>C10-C12	1.8	4.5		UD
	>C12-C16	3.6	8.9	8.0	JD
	>C16-C22	5.4	13	360	D J-C
	>C22-C36	12	310	680	D B MB

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 022R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 05:15

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	27	B-mB

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 024R0101

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 06:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.5		UJ-C

2.5

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 036R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 16:10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	93	B-MB

C.L

FORM I PRO

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:22

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721102

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 15:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	220	J-Z
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	510	J-Z
56-55-3	Benzo(a)anthracene	21	170	3400	J-Q
205-99-2	Benzo(b)fluoranthene	21	170	4700	E J-Q
207-08-9	Benzo(k)fluoranthene	21	170	2000	
191-24-2	Benzo(g,h,i)perylene	21	170	1400	
50-32-8	Benzo(a)pyrene	21	100	3800	E J-Q
218-01-9	Chrysene	21	170	3800	E R-D
53-70-3	Dibenz(a,h)anthracene	21	100	550	J-Z
206-44-0	Fluoranthene	21	170	5600	E R-D
86-73-7	Fluorene	21	170	210	J-Z
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1700	
91-57-6	2-Methylnaphthalene	21	170	50	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170	32	J
85-01-8	Phenanthrene	21	170	3500	E R-D
129-00-0	Pyrene	21	170	5200	E R-D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM09S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	250	JD R-D
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	570	JD
56-55-3	Benzo(a)anthracene	210	1700	4000	D
205-99-2	Benzo(b)fluoranthene	210	1700	6200	D* R-D
207-08-9	Benzo(k)fluoranthene	210	1700	5700	D* R-D
191-24-2	Benzo(g,h,i)perylene	210	1700	3400	D* R-D
50-32-8	Benzo(a)pyrene	210	1000	6600	D* R-D
218-01-9	Chrysene	210	1700	5100	D =
53-70-3	Dibenz(a,h)anthracene	210	1000		UD* R-D
206-44-0	Fluoranthene	210	1700	6600	D =
86-73-7	Fluorene	210	1700		UD R-D
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	3500	D*
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	4400	D =
129-00-0	Pyrene	210	1700	8900	D =

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721104

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180	300	
205-99-2	Benzo(b)fluoranthene	22	180	540	
207-08-9	Benzo(k)fluoranthene	22	180	380	
191-24-2	Benzo(g,h,i)perylene	22	180	180	J
50-32-8	Benzo(a)pyrene	22	110	460	
218-01-9	Chrysene	22	180	420	
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180	290	
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	190	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	65	J
129-00-0	Pyrene	22	180	380	

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:02

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	1800	
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	4000	E R-D
56-55-3	Benzo(a)anthracene	21	180	25000	E
205-99-2	Benzo(b)fluoranthene	21	180	34000	E*
207-08-9	Benzo(k)fluoranthene	21	180	29000	E*
191-24-2	Benzo(g,h,i)perylene	21	180	6800	E*
50-32-8	Benzo(a)pyrene	21	100	36000	E*
218-01-9	Chrysene	21	180	21000	E
53-70-3	Dibenz(a,h)anthracene	21	100	4000	E*
206-44-0	Fluoranthene	21	180	29000	E
86-73-7	Fluorene	21	180	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	8200	E* R-D
91-57-6	2-Methylnaphthalene	21	180	160	J
90-12-0	1-Methylnaphthalene	52	180	140	J
91-20-3	Naphthalene	21	180	110	J
85-01-8	Phenanthrene	21	180	21000	E R-D
129-00-0	Pyrene	21	180	46000	E b

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 721105D1

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 15:03

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000		~~UD~~ R-D
208-96-8	Acenaphthylene	4200	35000		~~UD~~ R-D
120-12-7	Anthracene	4200	35000	4700	~~JD~~ J
56-55-3	Benzo(a)anthracene	4200	35000	28000	~~JD~~ J
205-99-2	Benzo(b)fluoranthene	4200	35000	41000	~~D~~ =
207-08-9	Benzo(k)fluoranthene	4200	35000	29000	~~JD~~ J
191-24-2	Benzo(g,h,i)perylene	4200	35000	15000	~~JD~~ J
50-32-8	Benzo(a)pyrene	4200	21000	37000	~~D~~ =
218-01-9	Chrysene	4200	35000	34000	~~JD~~ J
53-70-3	Dibenz(a,h)anthracene	4200	21000	4900	~~JD~~ J
206-44-0	Fluoranthene	4200	35000	57000	~~D~~ =
86-73-7	Fluorene	4200	35000		~~UD~~ R-D
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	16000	~~JD~~ J
91-57-6	2-Methylnaphthalene	4200	35000		UD R-D
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	34000	~~JD~~ J
129-00-0	Pyrene	4200	35000	63000	~~D~~ =

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721106

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:37

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180		U
56-55-3	Benzo(a)anthracene	21	180	110	J
205-99-2	Benzo(b)fluoranthene	21	180	260	
207-08-9	Benzo(k)fluoranthene	21	180	140	J
191-24-2	Benzo(g,h,i)perylene	21	180	62	J
50-32-8	Benzo(a)pyrene	21	100	180	
218-01-9	Chrysene	21	180	180	
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	180	120	J
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	82	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	33	J
129-00-0	Pyrene	21	180	130	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721107

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	27	J
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	61	J
56-55-3	Benzo(a)anthracene	22	180	600	
205-99-2	Benzo(b)fluoranthene	22	180	1400	
207-08-9	Benzo(k)fluoranthene	22	180	660	
191-24-2	Benzo(g,h,i)perylene	22	180	500	
50-32-8	Benzo(a)pyrene	22	110	1400	
218-01-9	Chrysene	22	180	930	
53-70-3	Dibenz(a,h)anthracene	22	110	180	
206-44-0	Fluoranthene	22	180	830	
86-73-7	Fluorene	22	180	26	J
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	590	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	56	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	340	
129-00-0	Pyrene	22	180	1000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:46

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	38	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	100	J
56-55-3	Benzo(a)anthracene	21	180	1200	
205-99-2	Benzo(b)fluoranthene	21	180	3700	ER-D
207-08-9	Benzo(k)fluoranthene	21	180	1300	
191-24-2	Benzo(g,h,i)perylene	21	180	970	
50-32-8	Benzo(a)pyrene	21	110	2100	
218-01-9	Chrysene	21	180	1900	
53-70-3	Dibenz(a,h)anthracene	21	110	300	
206-44-0	Fluoranthene	21	180	1600	
86-73-7	Fluorene	21	180	36	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	1100	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	780	
129-00-0	Pyrene	21	180	1600	

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:47

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350	110	JD
56-55-3	Benzo(a)anthracene	42	350	1200	D
205-99-2	Benzo(b)fluoranthene	42	350	3900	D
207-08-9	Benzo(k)fluoranthene	42	350	1200	D
191-24-2	Benzo(g,h,i)perylene	42	350	1900	D
50-32-8	Benzo(a)pyrene	42	210	2600	D
218-01-9	Chrysene	42	350	2000	D
53-70-3	Dibenz(a,h)anthracene	42	210	540	D
206-44-0	Fluoranthene	42	350	1800	D
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350	2100	D
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	110	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350	850	D
129-00-0	Pyrene	42	350	2300	D

R-D
R-D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	4400	E R-D
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	3400	
56-55-3	Benzo(a)anthracene	22	180	13000	E R-D
205-99-2	Benzo(b)fluoranthene	22	180	20000	E*
207-08-9	Benzo(k)fluoranthene	22	180	5900	E*
191-24-2	Benzo(g,h,i)perylene	22	180	2300	*
50-32-8	Benzo(a)pyrene	22	110	12000	E*
218-01-9	Chrysene	22	180	14000	E
53-70-3	Dibenz(a,h)anthracene	22	110	950	* R-D
206-44-0	Fluoranthene	22	180	23000	E R-D
86-73-7	Fluorene	22	180	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	2800	
91-57-6	2-Methylnaphthalene	22	180	630	
90-12-0	1-Methylnaphthalene	55	180	680	
91-20-3	Naphthalene	22	180	250	
85-01-8	Phenanthrene	22	180	16000	E R-D
129-00-0	Pyrene	22	180	27000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109D

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:12

Injection Volume: 0.5(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	1100	9200	6000	~~JD~~ J
208-96-8	Acenaphthylene	1100	9200		~~UD~~ R-P
120-12-7	Anthracene	1100	9200	4000	~~JD~~ J
56-55-3	Benzo(a)anthracene	1100	9200	17000	~~D~~ =
205-99-2	Benzo(b)fluoranthene	1100	9200	22000	~~D~~ =
207-08-9	Benzo(k)fluoranthene	1100	9200	10000	~~D~~ =
191-24-2	Benzo(g,h,i)perylene	1100	9200	9300	~~D~~ =
50-32-8	Benzo(a)pyrene	1100	5500	19000	~~D~~ =
218-01-9	Chrysene	1100	9200	20000	~~D~~ =
53-70-3	Dibenz(a,h)anthracene	1100	5500		~~UD~~ U
206-44-0	Fluoranthene	1100	9200	36000	~~D~~ =
86-73-7	Fluorene	1100	9200	4500	~~JD~~ P-P
193-39-5	Indeno(1,2,3-cd)pyrene	1100	9200	8000	JD
91-57-6	2-Methylnaphthalene	1100	9200		UD
90-12-0	1-Methylnaphthalene	2800	9200		UD
91-20-3	Naphthalene	1100	9200		UD
85-01-8	Phenanthrene	1100	9200	26000	~~D~~ =
129-00-0	Pyrene	1100	9200	37000	~~D~~ =

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721110

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	26	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	62	J
56-55-3	Benzo(a)anthracene	21	180	510	
205-99-2	Benzo(b)fluoranthene	21	180	810	
207-08-9	Benzo(k)fluoranthene	21	180	390	
191-24-2	Benzo(g,h,i)perylene	21	180	150	J
50-32-8	Benzo(a)pyrene	21	110	540	
218-01-9	Chrysene	21	180	710	
53-70-3	Dibenz(a,h)anthracene	21	110	46	J
206-44-0	Fluoranthene	21	180	870	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	180	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	550	
129-00-0	Pyrene	21	180	890	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721111

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 21:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180		U
205-99-2	Benzo(b)fluoranthene	22	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	22	180		U
50-32-8	Benzo(a)pyrene	22	110		U
218-01-9	Chrysene	22	180		U
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180		U
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180		U
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180		U
129-00-0	Pyrene	22	180		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 22:04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	310	J-Z
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	730	J-Z
56-55-3	Benzo(a)anthracene	21	170	3200	
205-99-2	Benzo(b)fluoranthene	21	170	5300	E R-D
207-08-9	Benzo(k)fluoranthene	21	170	2200	
191-24-2	Benzo(g,h,i)perylene	21	170	1200	
50-32-8	Benzo(a)pyrene	21	100	4100	E R-D
218-01-9	Chrysene	21	170	4100	E J
53-70-3	Dibenz(a,h)anthracene	21	100	390	J-Z
206-44-0	Fluoranthene	21	170	5500	E R-D
86-73-7	Fluorene	21	170	310	J-Z
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1400	
91-57-6	2-Methylnaphthalene	21	170	32	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	3600	E R-D
129-00-0	Pyrene	21	170	6200	E J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 14:28

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	330	JD
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	620	JD
56-55-3	Benzo(a)anthracene	210	1700	3200	D
205-99-2	Benzo(b)fluoranthene	210	1700	5500	D
207-08-9	Benzo(k)fluoranthene	210	1700	3700	D
191-24-2	Benzo(g,h,i)perylene	210	1700	2900	D
50-32-8	Benzo(a)pyrene	210	1000	5200	D
218-01-9	Chrysene	210	1700	3900	D
53-70-3	Dibenz(a,h)anthracene	210	1000		UD
206-44-0	Fluoranthene	210	1700	5600	D
86-73-7	Fluorene	210	1700	300	JD
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	2900	D
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	3900	D
129-00-0	Pyrene	210	1700	6600	D

Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (Calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060724 25	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber brke	7211-01
2	51EQB4W060724	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724 ✓	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page MH 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Bartz	7-26-06	900

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

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Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060725	Post-Excavation Confirmatory Sampling	W/S	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W/S	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W/S	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	TRIP Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	" Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 I-tact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Barto	7/26/06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

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CH2M HILL WO #0607211
SUMMARY PACKAGE

VOLATILE SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab Sample ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	50
0607211-08	51CFM14S060725	1
0607211-09	51CFM15S060725	500
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1
0607211-13	51TB3W060725	1
0607211-14	51TB4W060725	1

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5035/8260B (Terracore field sampling then purge and trap followed by capillary column GC/MS) for soils or by USEPA SW-846 Methods 5030B/8260B (purge and trap followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met.
- Blank Results: No target analytes were detected in the blanks associated with these samples.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Laboratory control sample results: All recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above. Samples indicating a 50x or 500x were analyzed from the methanol extract.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060724 25	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber broke	7211-01
2	51EQB4W060724	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Cindy Baxter	7-26-06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060724 25	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	TRIP Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
	M 7/27/06 as per Bethany													

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Bert	7/26/06	900

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Form CCI001, Rev 02/00

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 **COC ID(s):** 346570-003

Client CH2M H.11 **Project** NAVSTA Mayport

Sample Custodian Andy Bert. **Today's Date** 7-26-06

Date/Time Samples Received 7-26 900
Airbill Number FX
Cooler Opened: Date 7-26

Chain of custody seals intact?	**Yes**	**No**
Chain of custody provided?	**Yes**	**No**
Sample labels present?	**Yes**	**No**
Bottle labels correspond w/COC	**Yes**	**No**

Number of Custody Seals on Cooler(s): 2 **Seal Date(s):** 7-25

Type of coolant used ICE

Coolant condition: Melted _____ **Partially melted/frozen** ✓
Frozen _____

# of Coolers 1 **Temp. of Coolers** 4.3

Condition of Bottles in Shipment: **Broken** **Leaking** **Intact** **Missing**

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721101

Level: (low/med) LOW Date Sampled: 07/25/06 15:50

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:30

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721102

Level: (low/med) LOW Date Sampled: 07/25/06 17:35

% Moisture: not dec. _____ Date Analyzed: 07/26/06 14:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0721103A

Level: (low/med) LOW Date Sampled: 07/25/06 16:10

% Moisture: not dec. 5 Date Analyzed: 07/26/06 16:20

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.50	5.3		U
100-41-4	Ethylbenzene	0.80	5.3		U
108-88-3	Toluene	0.92	5.3		U
1330-20-7	Xylene(total)	0.75	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 0721104A

Level: (low/med) LOW Date Sampled: 07/25/06 16:20

% Moisture: not dec. 8 Date Analyzed: 07/26/06 16:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.49	5.2		U
100-41-4	Ethylbenzene	0.78	5.2		U
108-88-3	Toluene	0.90	5.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721105B

Level: (low/med) LOW Date Sampled: 07/25/06 16:30

% Moisture: not dec. 5 Date Analyzed: 07/26/06 17:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721106A

Level: (low/med) LOW Date Sampled: 07/25/06 16:40

% Moisture: not dec. 7 Date Analyzed: 07/26/06 18:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.54	5.8		U
100-41-4	Ethylbenzene	0.86	5.8		U
108-88-3	Toluene	0.99	5.8		U
1330-20-7	Xylene(total)	0.80	5.8		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721107M

Level: (low/med) MED Date Sampled: 07/25/06 16:45

% Moisture: not dec. 12 Date Analyzed: 07/26/06 18:47

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	300		U
100-41-4	Ethylbenzene	46	300	670	
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300	5200	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 0721108A

Level: (low/med) LOW Date Sampled: 07/25/06 16:50

% Moisture: not dec. 6 Date Analyzed: 07/26/06 19:23

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.40	4.3		U
100-41-4	Ethylbenzene	0.64	4.3		U
108-88-3	Toluene	0.74	4.3		U
1330-20-7	Xylene(total)	0.60	4.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0721109M

Level: (low/med) MED Date Sampled: 07/25/06 17:05

% Moisture: not dec. 11 Date Analyzed: 07/26/06 19:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	230	2500		UD
100-41-4	Ethylbenzene	370	2500		UD
108-88-3	Toluene	420	2500		UD
1330-20-7	Xylene(total)	340	2500	24000	D

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 0721110A

Level: (low/med) LOW Date Sampled: 07/25/06 17:15

% Moisture: not dec. 8 Date Analyzed: 07/27/06 08:05

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 4.4 (g/mL) G Lab File ID: 0721111A

Level: (low/med) LOW Date Sampled: 07/25/06 17:25

% Moisture: not dec. 9 Date Analyzed: 07/27/06 08:41

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.59	6.3		U
100-41-4	Ethylbenzene	0.94	6.3		U
108-88-3	Toluene	1.1	6.3		U
1330-20-7	Xylene(total)	0.88	6.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721112A

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. 6 Date Analyzed: 07/27/06 09:17

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.46	4.9		U
100-41-4	Ethylbenzene	0.74	4.9		U
108-88-3	Toluene	0.85	4.9		U
1330-20-7	Xylene(total)	0.69	4.9		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-13

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721113

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 12:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721114

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PBLK0726LC	98	98	99	102	0
02	V1PBLK0726	102	92	105	105	0
03	51CFM09S0607	102	102	105	108	0
04	51CFM10S0607	105	100	105	108	0
05	51CFM11S0607	106	104	103	106	0
06	51CFM12S0607	102	98	104	109	0
07	51CFM14S0607	104	94	104	108	0
08	V1PBLK0727LC	97	95	97	102	0
09	V1PBLK0727	101	94	105	105	0
10	51CFM16S0607	106	108	104	108	0
11	51CFM17S0607	103	100	106	108	0
12	51DUP1S06072	104	106	104	109	0
13	51CFM09S0607	101	101	97	98	0
14	51CFM09S0607	99	97	100	102	0
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		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level:(low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PMBLK0726	103	99	103	110	0
02	51CFM13S0607	98	90	104	110	0
03	51CFM15S0607	100	91	105	106	0
04						
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	EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM) = Dibromofluoromethane	(80-125)	1500
SMC2 (DCE) = 1,2-Dichloroethane-d4	(75-140)	1500
SMC3 (TOL) = Toluene-d8	(80-120)	1500
SMC4 (BFB) = Bromofluorobenzene	(80-125)	1500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V3BLK0726LCS	105	100	93	104	0
02	V3BLK0726	106	101	98	101	0
03	51TB3W060725	106	102	97	102	0
04	51TB4W060725	106	103	96	100	0
05	51EQB3W06072	112	104	97	102	0
06	51EQB4W06072	111	102	96	103	0
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		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	47.16	0.0000	55.27	117	70-130
Ethylbenzene	47.16	0.0000	49.14	104	75-125
Toluene	47.16	0.0000	49.04	104	55-140
Xylene(total)	141.5	0.0000	141.8	100	70-120

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	47.85	52.58	110	5	50	70-130
Ethylbenzene	47.85	50.02	104	2	50	75-125
Toluene	47.85	48.57	102	1	50	55-140
Xylene(total)	143.5	142.5	99	0	50	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V1PBLK0726 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	51.34	103	70-130
Ethylbenzene	50.00	0.0000	51.55	103	75-125
Toluene	50.00	0.0000	48.58	97	55-140
Xylene(total)	150.0	0.0000	147.7	98	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V1PBLK0727 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	56.47	113	70-130
Ethylbenzene	50.00	0.0000	56.12	112	75-125
Toluene	50.00	0.0000	53.91	108	55-140
Xylene(total)	150.0	0.0000	162.4	108	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V3BLK0726

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	53.33	107	75-125
Ethylbenzene	50.00	0.0000	53.75	108	75-130
Toluene	50.00	0.0000	46.61	93	75-125
Xylene(total)	150.0	0.0000	162.3	108	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1PBLK01 Lab Sample ID: V1PBLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1506

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0726LC	V1PBLK0726LCS	V1LCS01	1353
02	51CFM09S0607	0607211-03	0721103A	1620
03	51CFM10S0607	0607211-04	0721104A	1657
04	51CFM11S0607	0607211-05	0721105B	1733
05	51CFM12S0607	0607211-06	0721106A	1810
06	51CFM14S0607	0607211-08	0721108A	1923
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1PBLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/26/06 15:06

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0727

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0727

Date Analyzed: 07/27/06 Time Analyzed: 0728

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0727LC	V1PBLK0727LCS	V1LCS01	0652
02	51CFM16S0607	0607211-10	0721110A	0805
03	51CFM17S0607	0607211-11	0721111A	0841
04	51DUP1S06072	0607211-12	0721112A	0917
05	51CFM09S0607	0607211-03	721103BM	1126
06	51CFM09S0607	0607211-03	721103BS	1203
07				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0727

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0727

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/27/06 07:28

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PMBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1MBLK01 Lab Sample ID: V1PMBLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1543

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51CFM13S0607	0607211-07	0721107M	1847
02	51CFM15S0607	0607211-09	0721109M	1959
03				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PMBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PMBLK0726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1MBLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/26/06 15:43

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V3BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BLK01 Lab Sample ID: V3BLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1104

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V3BLK0726LCS	V3BLK0726LCS	V3LCS01	0919
02	51TB3W060725	0607211-13	0721113	1231
03	51TB4W060725	0607211-14	0721114	1300
04	51EQB3W06072	0607211-01	0721101	1330
05	51EQB4W06072	0607211-02	0721102	1400
06				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0726

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/26/06 11:04

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/18/06

Instrument ID: VOA1 BFB Injection Time: 0825

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.6
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	54.2
175	5.0 - 9.0% of mass 174	4.0 (7.4)1
176	95.0 - 101.0% of mass 174	53.9 (99.5)1
177	5.0 - 9.0% of mass 176	4.1 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD200PPB	V1STD200PPB	V1STD07	07/18/06	0959
02	V1STD100PPB	V1STD100PPB	V1STD06	07/18/06	1037
03	V1STD50PPB	V1STD50PPB	V1STD05	07/18/06	1114
04	V1BLK0718ICV	V1BLK0718ICV	V1LCS01ICV	07/18/06	1151
05	V1STD20PPB	V1STD20PPB	V1STD04	07/18/06	1228
06	V1STD10PPB	V1STD10PPB	V1STD03	07/18/06	1306
07	V1STD5PPB	V1STD5PPB	V1STD02	07/18/06	1342
08	V1STD2PPB	V1STD2PPB	V1STD01	07/18/06	1419
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/26/06

Instrument ID: VOA1 BFB Injection Time: 1240

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.7
75	30.0 - 60.0% of mass 95	57.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	61.8
175	5.0 - 9.0% of mass 174	4.8 (7.8)1
176	95.0 - 101.0% of mass 174	59.0 (95.4)1
177	5.0 - 9.0% of mass 176	4.0 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/26/06	1316
02	V1PBLK0726LC	V1PBLK0726LCS	V1LCS01	07/26/06	1353
03	V1PBLK0726	V1PBLK0726	V1PBLK01	07/26/06	1506
04	V1PMBLK0726	V1PMBLK0726	V1MBLK01	07/26/06	1543
05	51CFM09S0607	0607211-03	0721103A	07/26/06	1620
06	51CFM10S0607	0607211-04	0721104A	07/26/06	1657
07	51CFM11S0607	0607211-05	0721105B	07/26/06	1733
08	51CFM12S0607	0607211-06	0721106A	07/26/06	1810
09	51CFM13S0607	0607211-07	0721107M	07/26/06	1847
10	51CFM14S0607	0607211-08	0721108A	07/26/06	1923
11	51CFM15S0607	0607211-09	0721109M	07/26/06	1959
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/27/06

Instrument ID: VOA1 BFB Injection Time: 0556

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	61.4
175	5.0 - 9.0% of mass 174	4.9 (7.9)1
176	95.0 - 101.0% of mass 174	61.1 (99.5)1
177	5.0 - 9.0% of mass 176	3.2 (5.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/27/06	0616
02	V1PBLK0727LC	V1PBLK0727LCS	V1LCS01	07/27/06	0652
03	V1PBLK0727	V1PBLK0727	V1BLK01	07/27/06	0728
04	51CFM16S0607	0607211-10	0721110A	07/27/06	0805
05	51CFM17S0607	0607211-11	0721111A	07/27/06	0841
06	51DUP1S06072	0607211-12	0721112A	07/27/06	0917
07	51CFM09S0607	0607211-03	721103BM	07/27/06	1126
08	51CFM09S0607	0607211-03	721103BS	07/27/06	1203
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BFB01 BFB Injection Date: 07/19/06

Instrument ID: VOA3 BFB Injection Time: 1401

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	75.6
175	5.0 - 9.0% of mass 174	5.6 (7.4)1
176	95.0 - 101.0% of mass 174	72.8 (96.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD200PPB	V3STD200PPB	V3STD08	07/19/06	1506
02	V3STD100PPB	V3STD100PPB	V3STD07	07/19/06	1536
03	V3STD50PPB	V3STD50PPB	V3STD06	07/19/06	1606
04	V3BLK0719ICV	V3BLK0719ICV	V3LCSICV	07/19/06	1636
05	V3STD20PPB	V3STD20PPB	V3STD05	07/19/06	1706
06	V3STD10PPB	V3STD10PPB	V3STD04	07/19/06	1736
07	V3STD2PPB	V3STD2PPB	V3STD03	07/19/06	1806
08	V3STD1PPB	V3STD1PPB	V3STD02	07/19/06	1836
09	V3STD0.5PPB	V3STD0.5PPB	V3STD01	07/19/06	1906
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BFB01 BFB Injection Date: 07/26/06

Instrument ID: VOA3 BFB Injection Time: 0819

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	81.2
175	5.0 - 9.0% of mass 174	6.0 (7.4)1
176	95.0 - 101.0% of mass 174	78.4 (96.6)1
177	5.0 - 9.0% of mass 176	5.7 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD50PPB	V3STD50PPB	V3CCV01	07/26/06	0849
02	V3BLK0726LCS	V3BLK0726LCS	V3LCS01	07/26/06	0919
03	V3BLK0726	V3BLK0726	V3BLK01	07/26/06	1104
04	51TB3W060725	0607211-13	0721113	07/26/06	1231
05	51TB4W060725	0607211-14	0721114	07/26/06	1300
06	51EQB3W06072	0607211-01	0721101	07/26/06	1330
07	51EQB4W06072	0607211-02	0721102	07/26/06	1400
08					
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA1 Time Analyzed: 1316

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	602923		14.85		313384		19.73		205325		23.45	
	UPPER LIMIT	1205846		15.35		626768		20.23		410650		23.95	
	LOWER LIMIT	301462		14.35		156692		19.23		102663		22.95	
	CLIENT SAMPLE NO.												
01	V1PBLK0726LC	570130		14.85		292315		19.74		196574		23.44	
02	V1PBLK0726	566412		14.85		265520		19.74		188708		23.45	
03	V1PMBLK0726	540898		14.85		258175		19.74		196157		23.45	
04	51CFM09S0607	543883		14.87		260073		19.77		193064		23.48	
05	51CFM10S0607	550982		14.85		269417		19.74		195879		23.46	
06	51CFM11S0607	518875		14.85		253136		19.75		184892		23.46	
07	51CFM12S0607	575991		14.85		276671		19.75		214962		23.46	
08	51CFM13S0607	513286		14.85		244997		19.74		186262		23.45	
09	51CFM14S0607	587922		14.85		281393		19.75		204035		23.46	
10	51CFM15S0607	538777		14.85		255970		19.75		192360		23.48	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/27/06

Instrument ID: VOA1 Time Analyzed: 0616

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	632001	14.84	338831	19.73	228274	23.43
	UPPER LIMIT	1264002	15.34	677662	20.23	456548	23.93
	LOWER LIMIT	316001	14.34	169416	19.23	114137	22.93
	CLIENT SAMPLE NO.						
01	V1PBLK0727LC	522021	14.84	268110	19.72	181930	23.43
02	V1PBLK0727	566673	14.84	273660	19.72	196040	23.43
03	51CFM16S0607	516847	14.83	249289	19.74	182472	23.44
04	51CFM17S0607	506198	14.83	241578	19.72	187221	23.44
05	51DUP1S06072	498186	14.83	245177	19.72	180184	23.44
06	51CFM09S0607	549624	14.84	292968	19.73	196665	23.44
07	51CFM09S0607	544888	14.84	279046	19.73	193464	23.44
08							
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18							
19							
20							
21							
22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V3CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA3 Time Analyzed: 0849

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	533063		13.36		324679		16.67		373052		18.50	
	UPPER LIMIT	1066126		13.86		649358		17.17		746104		19.00	
	LOWER LIMIT	266532		12.86		162340		16.17		186526		18.00	
	CLIENT SAMPLE NO.												
01	V3BLK0726LCS	567363		13.36		336907		16.67		392316		18.50	
02	V3BLK0726	573231		13.36		323727		16.67		339577		18.50	
03	51TB3W060725	538079		13.36		304343		16.67		349203		18.50	
04	51TB4W060725	539562		13.36		307013		16.67		355820		18.50	
05	51EQB3W06072	509473		13.36		291072		16.67		351202		18.50	
06	51EQB4W06072	500181		13.36		289587		16.67		344176		18.50	
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20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

PRO SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab Sample ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-05DL	51CFM11S060725DL	5
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	1
0607211-08	51CFM14S060725	1
0607211-09	51CFM15S060725	1
0607211-09DL	51CFM15S060725DL	10
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1

Florida Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, sonication or separatory funnel extraction followed by capillary column GC/FID) for soils or waters upon receipt to the laboratory in satisfactory condition.

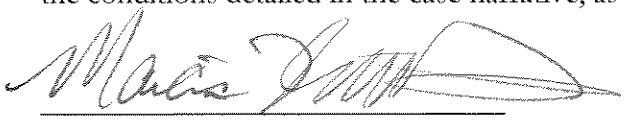
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Samples exceeding a concentration of 460mg/kg were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22 and >C22-C36. The associated QC samples FS1BLK0726/LCS were also speciated in this manner.
- Initial Calibration Criteria: All method calibration criteria were met.
- Continuing Calibration Criteria: The continuing calibration standard associated with analysis of sample 51CFM17S060725 exceeded the limit of 25% for PRO on the high side at +28.7%. No target analytes were detected in this sample. Several of the continuing calibrations exceeded 25% difference on the high side for the range >C16-C22. As reported concentrations for this range were well below the Florida criteria, no further action was taken.
- Blank Results: Method blanks FS1BLK0726 and FW1BLK0726 have reported concentrations of the target analytes. Reported concentrations in the associated samples within 5x the method blank concentration are flagged with a "B". None of the speciated range concentrations reported were within 5x the method blank concentration.
- Surrogate Recoveries: All surrogate recoveries from undiluted analyses were within limits with the exception of nonatriacontane in sample 51CFM12S060725 which exceeded the limit of 150% at 196%.
- FS1BLK0726LCS results: All recoveries were within limits.
- FW1BLK0726LCS results: Recovery exceeded the limit of 118% at 123%. Reported concentrations in the associated samples are less than the quantitation limit and flagged "J" as

estimated.

- 51CFM09S060725MS/MSD: Recoveries of PRO exceeded the limit of 140% at 153%/(127%) with a relative percent difference of 12.
- Dilutions: All samples were analyzed based upon screening/analysis results as indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-003 (1 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060724 25	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber bottle	7211-01
2	51EQB4W060724	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724 ↓	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page MH 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER: **FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908**

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 4.3 Intact

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:		
			Cindy Bachar	7-26-06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-003 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060725	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	TT·P Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 I-tact

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Berto.	7/26/06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 COC ID(s): 346570-003

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Bacto Today's Date 7-26-06

Date/Time Samples Received 7-26 500
Airbill Number Fx
Cooler Opened: Date 7-26

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-25

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 4.3

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 032R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.061	0.17		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 033R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 015R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 23:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	100	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 016R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 00:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	23	B

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	590	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.17	4.2	3.8	J
	>C10-C12	0.17	0.42	2.8	
	>C12-C16	0.34	0.84	11	
	>C16-C22	0.50	1.2	230	E
	>C22-C36	1.2	29	510	E

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	710	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	>C8-C10	0.84	21	1.7	JD
	>C10-C12	0.84	2.1		UD
	>C12-C16	1.7	4.2	9.4	D
	>C16-C22	2.5	6.3	290	D
	>C22-C36	5.9	150	610	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0101

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.2	13	B

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 019R0101

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:53

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	26	B

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 020R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 03:41

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	100	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	850	E

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.18	4.5	19	
	>C10-C12	0.18	0.45	11	
	>C12-C16	0.36	0.89	54	
	>C16-C22	0.54	1.3	360	E
	>C22-C36	1.2	31	520	E

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	27	76	830	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	1.8	45		UD
	>C10-C12	1.8	4.5		UD
	>C12-C16	3.6	8.9	8.0	JD
	>C16-C22	5.4	13	360	D
	>C22-C36	12	310	680	D

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 022R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 05:15

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	27	

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 024R0101

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 06:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.5		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 036R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 16:10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	93	

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0726	89	54					0
02	FW1BLK0726LC	103	70					0
03	51EQB3W06072	103	79					0
04	51EQB4W06072	112	97					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= Ortho-Terphenyl	(30-140)	0.050
S2	= Nonatriacontane	(20-150)	0.30

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0726	123	122					0
02	FS1BLK0726LC	102	75					0
03	51CFM09S0607	76	72					0
04	51CFM10S0607	119	130					0
05	51CFM11S0607	57	104					0
06	51CFM12S0607	112	196*					1
07	51CFM13S0607	83	92					0
08	51CFM14S0607	95	82					0
09	51CFM15S0607	82	75					0
10	51CFM16S0607	92	112					0
11	51CFM17S0607	85	84					0
12	51CFM09S0607	94	80					0
13	51CFM09S0607	107	69					0
14	51CFM11S0607	72D	85D					0
15	51CFM15S0607	73D	55D					0
16	51DUP1S06072	100	74					0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FW1BLK0726

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.0000	3.940	123*	55-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FS1BLK0726

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	128.0	5.345	135.7	102	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FS1BLK0726

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
>C8-C10	6.400	0.0000	3.424	54	50-140
>C10-C12	6.400	0.0000	5.944	93	50-140
>C12-C16	12.80	0.9931	13.95	101	50-140
>C16-C22	38.40	0.0000	50.13	130	50-140
>C22-C36	44.80	4.342	48.49	98	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 3
SOIL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Petroleum Range	132.1	101.1	303.2	153*	50-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	132.1	269.4	127	12	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 1 out of 2 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FW1BLK0726 Lab File ID: 029R0101

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/27/06 Date Analyzed (2):

Time Analyzed (1): 1044 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0726LC	FW1BLK0726LCS	07/27/06	
02	51EQB3W06072	0607211-01	07/27/06	
03	51EQB4W06072	0607211-02	07/27/06	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0726

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 029R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 10:44

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17		U

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FS1BLK0726 Lab File ID: 013R0101

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/26/06 Date Analyzed (2):

Time Analyzed (1): 2212 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0726LC	FS1BLK0726LCS	07/26/06	
02	51CFM09S0607	0607211-03	07/26/06	
03	51CFM10S0607	0607211-04	07/27/06	
04	51CFM11S0607	0607211-05	07/27/06	
05	51CFM12S0607	0607211-06	07/27/06	
06	51CFM13S0607	0607211-07	07/27/06	
07	51CFM14S0607	0607211-08	07/27/06	
08	51CFM15S0607	0607211-09	07/27/06	
09	51CFM16S0607	0607211-10	07/27/06	
10	51CFM17S0607	0607211-11	07/27/06	
11	51CFM09S0607	0607211-03MS	07/27/06	
12	51CFM09S0607	0607211-03MSD	07/27/06	
13	51CFM11S0607	0607211-05DL	07/27/06	
14	51CFM15S0607	0607211-09DL	07/27/06	
15	51DUP1S06072	0607211-12	07/27/06	
16				
17				
18				
19				
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21				
22				
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24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 013R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	5.3	J

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FS1BLK0726 Lab File ID: 013R0101

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/26/06 Date Analyzed (2):

Time Analyzed (1): 2212 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0726LC	FS1BLK0726LCS	07/26/06	
02	51CFM11S0607	0607211-05	07/27/06	
03	51CFM15S0607	0607211-09	07/27/06	
04	51CFM11S0607	0607211-05DL	07/27/06	
05	51CFM15S0607	0607211-09DL	07/27/06	
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 013R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.16	4.0		U
	>C10-C12	0.16	0.40		U
	>C12-C16	0.32	0.80	0.99	
	>C16-C22	0.48	1.2		U
	>C22-C36	1.1	28	4.3	J

PAH SUMMARY PACKAGE

ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-03	51CFM09S060725DL	10
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-05	51CFM11S060725DL	200
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	1
0607211-08	51CFM14S060725	1
0607211-08	51CFM14S060725DL	2
0607211-09	51CFM15S060725	1
0607211-09	51CFM15S060725DL	50
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1
0607211-12	51DUP1S060725DL	10

Semi-Volatile PAHs

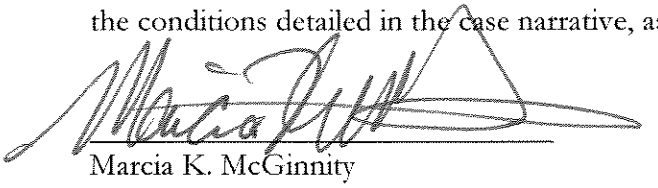
Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (automated soxtherm extraction followed by capillary column GC/MS) for soils and 3510C/8270C (separatory funnel extraction followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: The low concentration water PAH quantitation limits were obtained using 3510C extraction with a 0.5ml final volume and full scan 8270C analysis modified for increased sensitivity with calibration from 0.1ng/µL to 20ng/µL for a nominal water calibration range starting at 0.050µg/L. All instrument enhancements were applied to method QC as well as instrument QC.
- DFTPP Tuning: All method tuning criteria were met.
- Initial Calibration Criteria: All method criteria were met for the target analytes.
- Continuing Calibration Criteria: All method calibration criteria were met for the target analytes.
- Blank Results: No target analytes were detected in the associated method blanks.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: Due to the sample matrix, d12-perylene area counts were below 50% of that found in the associated calibration standard for some of the soil samples. Analytes associated with internal standard area counts below 50% are flagged with an "*" on the form Is.
- LCS Results: All recoveries were within limits. It should be noted that the spike solutions for the soil extractions did not include 1-methylnaphthalene.

- MS/MSD Results: In spike samples 51CFM09S060725MS/MSD, 20 of 34 recoveries and 9 of 17 relative percent differences were outside the control limits. See form 3 for specifics. This is attributed to sample matrix and analyte concentrations which required dilutions.
- Dilutions: The samples were analyzed at the dilutions indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.



Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060725	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber bottle	7211-01
2	51EQB4W060725	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:		
				7-26-06	900

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-003 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060725	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:		
			Andy Bato	7/26/06	900

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CC1001, Rev 02/00

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 COC ID(s): 346570-003

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Bert. Today's Date 7-26-06

Date/Time Samples Received 7-26 900
Airbill Number Fx
Cooler Opened: Date 7-26

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-25

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 4.3

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:22

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721102

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 15:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	220	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	510	
56-55-3	Benzo(a)anthracene	21	170	3400	
205-99-2	Benzo(b)fluoranthene	21	170	4700	E
207-08-9	Benzo(k)fluoranthene	21	170	2000	
191-24-2	Benzo(g,h,i)perylene	21	170	1400	
50-32-8	Benzo(a)pyrene	21	100	3800	E
218-01-9	Chrysene	21	170	3800	E
53-70-3	Dibenz(a,h)anthracene	21	100	550	
206-44-0	Fluoranthene	21	170	5600	E
86-73-7	Fluorene	21	170	210	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1700	
91-57-6	2-Methylnaphthalene	21	170	50	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170	32	J
85-01-8	Phenanthrene	21	170	3500	E
129-00-0	Pyrene	21	170	5200	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM09S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	250	JD
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	570	JD
56-55-3	Benzo(a)anthracene	210	1700	4000	D
205-99-2	Benzo(b)fluoranthene	210	1700	6200	D*
207-08-9	Benzo(k)fluoranthene	210	1700	5700	D*
191-24-2	Benzo(g,h,i)perylene	210	1700	3400	D*
50-32-8	Benzo(a)pyrene	210	1000	6600	D*
218-01-9	Chrysene	210	1700	5100	D
53-70-3	Dibenz(a,h)anthracene	210	1000		UD*
206-44-0	Fluoranthene	210	1700	6600	D
86-73-7	Fluorene	210	1700		UD
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	3500	D*
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	4400	D
129-00-0	Pyrene	210	1700	8900	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721104

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180	300	
205-99-2	Benzo(b)fluoranthene	22	180	540	
207-08-9	Benzo(k)fluoranthene	22	180	380	
191-24-2	Benzo(g,h,i)perylene	22	180	180	J
50-32-8	Benzo(a)pyrene	22	110	460	
218-01-9	Chrysene	22	180	420	
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180	290	
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	190	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	65	J
129-00-0	Pyrene	22	180	380	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:02

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	1800	
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	4000	E
56-55-3	Benzo(a)anthracene	21	180	25000	E
205-99-2	Benzo(b)fluoranthene	21	180	34000	E*
207-08-9	Benzo(k)fluoranthene	21	180	29000	E*
191-24-2	Benzo(g,h,i)perylene	21	180	6800	E*
50-32-8	Benzo(a)pyrene	21	100	36000	E*
218-01-9	Chrysene	21	180	21000	E
53-70-3	Dibenz(a,h)anthracene	21	100	4000	E*
206-44-0	Fluoranthene	21	180	29000	E
86-73-7	Fluorene	21	180	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	8200	E*
91-57-6	2-Methylnaphthalene	21	180	160	J
90-12-0	1-Methylnaphthalene	52	180	140	J
91-20-3	Naphthalene	21	180	110	J
85-01-8	Phenanthrene	21	180	21000	E
129-00-0	Pyrene	21	180	46000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 721105D1

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 15:03

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000		UD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	4700	JD
56-55-3	Benzo(a)anthracene	4200	35000	28000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	41000	D
207-08-9	Benzo(k)fluoranthene	4200	35000	29000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	15000	JD
50-32-8	Benzo(a)pyrene	4200	21000	37000	D
218-01-9	Chrysene	4200	35000	34000	JD
53-70-3	Dibenz(a,h)anthracene	4200	21000	4900	JD
206-44-0	Fluoranthene	4200	35000	57000	D
86-73-7	Fluorene	4200	35000		UD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	16000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	34000	JD
129-00-0	Pyrene	4200	35000	63000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721106

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:37

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180		U
56-55-3	Benzo(a)anthracene	21	180	110	J
205-99-2	Benzo(b)fluoranthene	21	180	260	
207-08-9	Benzo(k)fluoranthene	21	180	140	J
191-24-2	Benzo(g,h,i)perylene	21	180	62	J
50-32-8	Benzo(a)pyrene	21	100	180	
218-01-9	Chrysene	21	180	180	
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	180	120	J
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	82	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	33	J
129-00-0	Pyrene	21	180	130	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721107

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	27	J
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	61	J
56-55-3	Benzo(a)anthracene	22	180	600	
205-99-2	Benzo(b)fluoranthene	22	180	1400	
207-08-9	Benzo(k)fluoranthene	22	180	660	
191-24-2	Benzo(g,h,i)perylene	22	180	500	
50-32-8	Benzo(a)pyrene	22	110	1400	
218-01-9	Chrysene	22	180	930	
53-70-3	Dibenz(a,h)anthracene	22	110	180	
206-44-0	Fluoranthene	22	180	830	
86-73-7	Fluorene	22	180	26	J
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	590	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	56	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	340	
129-00-0	Pyrene	22	180	1000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:46

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	38	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	100	J
56-55-3	Benzo(a)anthracene	21	180	1200	
205-99-2	Benzo(b)fluoranthene	21	180	3700	E
207-08-9	Benzo(k)fluoranthene	21	180	1300	
191-24-2	Benzo(g,h,i)perylene	21	180	970	
50-32-8	Benzo(a)pyrene	21	110	2100	
218-01-9	Chrysene	21	180	1900	
53-70-3	Dibenz(a,h)anthracene	21	110	300	
206-44-0	Fluoranthene	21	180	1600	
86-73-7	Fluorene	21	180	36	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	1100	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	780	
129-00-0	Pyrene	21	180	1600	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM14S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:47

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350	110	JD
56-55-3	Benzo(a)anthracene	42	350	1200	D
205-99-2	Benzo(b)fluoranthene	42	350	3900	D
207-08-9	Benzo(k)fluoranthene	42	350	1200	D
191-24-2	Benzo(g,h,i)perylene	42	350	1900	D
50-32-8	Benzo(a)pyrene	42	210	2600	D
218-01-9	Chrysene	42	350	2000	D
53-70-3	Dibenz(a,h)anthracene	42	210	540	D
206-44-0	Fluoranthene	42	350	1800	D
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350	2100	D
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	110	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350	850	D
129-00-0	Pyrene	42	350	2300	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	4400	E
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	3400	
56-55-3	Benzo(a)anthracene	22	180	13000	E
205-99-2	Benzo(b)fluoranthene	22	180	20000	E*
207-08-9	Benzo(k)fluoranthene	22	180	5900	E*
191-24-2	Benzo(g,h,i)perylene	22	180	2300	*
50-32-8	Benzo(a)pyrene	22	110	12000	E*
218-01-9	Chrysene	22	180	14000	E
53-70-3	Dibenz(a,h)anthracene	22	110	950	*
206-44-0	Fluoranthene	22	180	23000	E
86-73-7	Fluorene	22	180	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	2800	*
91-57-6	2-Methylnaphthalene	22	180	630	
90-12-0	1-Methylnaphthalene	55	180	680	
91-20-3	Naphthalene	22	180	250	
85-01-8	Phenanthrene	22	180	16000	E
129-00-0	Pyrene	22	180	27000	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109D

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:12

Injection Volume: 0.5(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	1100	9200	6000	JD
208-96-8	Acenaphthylene	1100	9200		UD
120-12-7	Anthracene	1100	9200	4000	JD
56-55-3	Benzo(a)anthracene	1100	9200	17000	D
205-99-2	Benzo(b)fluoranthene	1100	9200	22000	D
207-08-9	Benzo(k)fluoranthene	1100	9200	10000	D
191-24-2	Benzo(g,h,i)perylene	1100	9200	9300	D
50-32-8	Benzo(a)pyrene	1100	5500	19000	D
218-01-9	Chrysene	1100	9200	20000	D
53-70-3	Dibenz(a,h)anthracene	1100	5500		UD
206-44-0	Fluoranthene	1100	9200	36000	D
86-73-7	Fluorene	1100	9200	4500	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1100	9200	8000	JD
91-57-6	2-Methylnaphthalene	1100	9200		UD
90-12-0	1-Methylnaphthalene	2800	9200		UD
91-20-3	Naphthalene	1100	9200		UD
85-01-8	Phenanthrene	1100	9200	26000	D
129-00-0	Pyrene	1100	9200	37000	D

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721110

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	26	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	62	J
56-55-3	Benzo(a)anthracene	21	180	510	
205-99-2	Benzo(b)fluoranthene	21	180	810	
207-08-9	Benzo(k)fluoranthene	21	180	390	
191-24-2	Benzo(g,h,i)perylene	21	180	150	J
50-32-8	Benzo(a)pyrene	21	110	540	
218-01-9	Chrysene	21	180	710	
53-70-3	Dibenz(a,h)anthracene	21	110	46	J
206-44-0	Fluoranthene	21	180	870	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	180	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	550	
129-00-0	Pyrene	21	180	890	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721111

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 21:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180		U
205-99-2	Benzo(b)fluoranthene	22	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	22	180		U
50-32-8	Benzo(a)pyrene	22	110		U
218-01-9	Chrysene	22	180		U
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180		U
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180		U
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180		U
129-00-0	Pyrene	22	180		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 22:04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	310	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	730	
56-55-3	Benzo(a)anthracene	21	170	3200	
205-99-2	Benzo(b)fluoranthene	21	170	5300	E
207-08-9	Benzo(k)fluoranthene	21	170	2200	
191-24-2	Benzo(g,h,i)perylene	21	170	1200	
50-32-8	Benzo(a)pyrene	21	100	4100	E
218-01-9	Chrysene	21	170	4100	E
53-70-3	Dibenz(a,h)anthracene	21	100	390	
206-44-0	Fluoranthene	21	170	5500	E
86-73-7	Fluorene	21	170	310	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1400	
91-57-6	2-Methylnaphthalene	21	170	32	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	3600	E
129-00-0	Pyrene	21	170	6200	E

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 14:28

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	330	JD
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	620	JD
56-55-3	Benzo(a)anthracene	210	1700	3200	D
205-99-2	Benzo(b)fluoranthene	210	1700	5500	D
207-08-9	Benzo(k)fluoranthene	210	1700	3700	D
191-24-2	Benzo(g,h,i)perylene	210	1700	2900	D
50-32-8	Benzo(a)pyrene	210	1000	5200	D
218-01-9	Chrysene	210	1700	3900	D
53-70-3	Dibenz(a,h)anthracene	210	1000		UD
206-44-0	Fluoranthene	210	1700	5600	D
86-73-7	Fluorene	210	1700	300	JD
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	2900	D
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	3900	D
129-00-0	Pyrene	210	1700	6600	D

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0726BS1	57	56	85						0
02	SBLK0726BS1L	54	49	83						0
03	51CFM09S0607	53	52	59						0
04	51CFM09S0607	45	46	58						0
05	51CFM09S0607	60	58	78						0
06	51CFM10S0607	57	57	87						0
07	51CFM11S0607	58	57	104						0
08	51CFM12S0607	53	55	80						0
09	51CFM13S0607	59	63	86						0
10	51CFM14S0607	59	60	73						0
11	51CFM15S0607	60	67	100						0
12	51CFM16S0607	62	54	74						0
13	51CFM17S0607	60	64	86						0
14	51DUP1S06072	53	59	87						0
15	51CFM09S0607	59D	66D	94D						0
16	51DUP1S06072	56D	66D	84D						0
17	51CFM11S0607	0D	0D	0D						0
18	51CFM15S0607	0D	0D	0D						0
19	51CFM14S0607	62D	69D	98D						0
20										
21										
22										
23										
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29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	3300
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	3300
S3 (TPH) = Terphenyl-d14	(55-110)	3300

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0726B1	81	62	125						0
02	SBLK0726B1LC	88	67	98						0
03	SBLK0726B1LC	91	69	91						0
04	51EQB3W06072	62	56	115						0
05	51EQB4W06072	72	60	107						0
06										
07										
08										
09										
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	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	1.0
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	1.0
S3 (TPH) = Terphenyl-d14	(55-125)	1.0

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726B1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	1.000	0.0000	0.6932	69	40-110
Acenaphthylene	1.000	0.0000	0.6824	68	45-110
Anthracene	1.000	0.0000	0.7916	79	65-125
Benzo(a)anthracene	1.000	0.0000	0.9448	94	60-130
Benzo(b)fluoranthene	1.000	0.0000	0.8297	83	50-135
Benzo(k)fluoranthene	1.000	0.0000	1.184	118	50-140
Benzo(g,h,i)perylene	1.000	0.0000	0.7205	72	50-150
Benzo(a)pyrene	1.000	0.0000	0.7879	79	55-145
Chrysene	1.000	0.0000	1.057	106	60-130
Dibenz(a,h)anthracene	1.000	0.0000	0.7084	71	55-145
Fluoranthene	1.000	0.0000	1.032	103	65-130
Fluorene	1.000	0.0000	0.7342	73	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.0000	0.8913	89	50-150
2-Methylnaphthalene	1.000	0.0000	0.6483	65	25-110
1-Methylnaphthalene	1.000	0.0000	0.6274	63	25-110
Naphthalene	1.000	0.0000	0.6502	65	25-110
Phenanthrene	1.000	0.0000	0.8083	81	65-120
Pyrene	1.000	0.0000	1.004	100	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726B1

COMPOUND	SPIKE ADDED (UG/L)	LCSD CONCENTRATION (UG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.7624	76	10	40	40-110
Acenaphthylene	1.000	0.7476	75	9	40	45-110
Anthracene	1.000	0.8068	81	2	40	65-125
Benzo(a)anthracene	1.000	0.9479	95	0	40	60-130
Benzo(b)fluoranthene	1.000	0.8459	84	2	40	50-135
Benzo(k)fluoranthene	1.000	1.191	119	0	40	50-140
Benzo(g,h,i)perylene	1.000	0.7255	72	1	40	50-150
Benzo(a)pyrene	1.000	0.8638	86	9	40	55-145
Chrysene	1.000	1.034	103	2	40	60-130
Dibenz(a,h)anthracene	1.000	0.7434	74	5	40	55-145
Fluoranthene	1.000	1.005	100	3	40	65-130
Fluorene	1.000	0.7933	79	8	40	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.9237	92	4	40	50-150
2-Methylnaphthalene	1.000	0.6659	66	3	40	25-110
1-Methylnaphthalene	1.000	0.7311	73	15	40	25-110
Naphthalene	1.000	0.6784	68	4	40	25-110
Phenanthrene	1.000	0.8076	81	0	40	65-120
Pyrene	1.000	0.9525	95	5	40	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 18 outside limits
Spike Recovery: 0 out of 36 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	1795	54	45-110
Acenaphthylene	3333	0.0000	2022	61	50-105
Anthracene	3333	0.0000	2495	75	55-105
Benzo(a)anthracene	3333	0.0000	2553	76	60-110
Benzo(b)fluoranthene	3333	0.0000	2392	72	55-115
Benzo(k)fluoranthene	3333	0.0000	2300	69	55-110
Benzo(g,h,i)perylene	3333	0.0000	2483	74	35-135
Benzo(a)pyrene	3333	0.0000	2653	80	60-120
Chrysene	3333	0.0000	2678	80	55-105
Dibenz(a,h)anthracene	3333	0.0000	2379	71	40-130
Fluoranthene	3333	0.0000	2634	79	55-110
Fluorene	3333	0.0000	2066	62	50-105
Indeno(1,2,3-cd)pyrene	3333	0.0000	2646	79	40-130
2-Methylnaphthalene	3333	0.0000	1604	48	40-110
Naphthalene	3333	0.0000	1564	47	30-110
Phenanthrene	3333	0.0000	2454	74	55-105
Pyrene	3333	0.0000	2634	79	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	1720	220.2	899.6	40*	45-110
Acenaphthylene	1720	0.0000	876.5	51	50-105
Anthracene	1720	512.8	1151	37*	55-105
Benzo(a)anthracene	1720	3428	2963	-27*	60-110
Benzo(b)fluoranthene	1720	4666	3874	-46*	55-115
Benzo(k)fluoranthene	1720	1977	1677	-17*	55-110
Benzo(g,h,i)perylene	1720	1422	1286	-8*	35-135
Benzo(a)pyrene	1720	3827	3272	-32*	60-120
Chrysene	1720	3792	3398	-23*	55-105
Dibenz(a,h)anthracene	1720	553.7	956.3	23*	40-130
Fluoranthene	1720	5603	3375	-130*	55-110
Fluorene	1720	208.5	962.0	44*	50-105
Indeno(1,2,3-cd)pyrene	1720	1681	1549	-8*	40-130
2-Methylnaphthalene	1720	49.92	746.6	40	40-110
Naphthalene	1720	32.54	699.7	39	30-110
Phenanthrene	1720	3514	2004	-88*	55-105
Pyrene	1720	5215	3893	-77*	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1731	1327	64	38	50	45-110
Acenaphthylene	1731	1146	66	27	50	50-105
Anthracene	1731	1902	80	49	50	55-105
Benzo(a)anthracene	1731	5890	142*	66*	50	60-110
Benzo(b)fluoranthene	1731	9238	264*	82*	50	55-115
Benzo(k)fluoranthene	1731	2950	56	55*	50	55-110
Benzo(g,h,i)perylene	1731	2314	52	57*	50	35-135
Benzo(a)pyrene	1731	6088	131*	60*	50	60-120
Chrysene	1731	6337	147*	60*	50	55-105
Dibenz(a,h)anthracene	1731	1557	58	48	50	40-130
Fluoranthene	1731	8106	144*	82*	50	55-110
Fluorene	1731	1432	71	39	50	50-105
Indeno(1,2,3-cd)pyrene	1731	2556	50	49	50	40-130
2-Methylnaphthalene	1731	981.2	54	27	50	40-110
Naphthalene	1731	1002	56	36	50	30-110
Phenanthrene	1731	5250	100	89*	50	55-105
Pyrene	1731	7942	158*	68*	50	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 9 out of 17 outside limits
Spike Recovery: 20 out of 34 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0726B1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: SBLK0726 Lab Sample ID: SBLK0726B1

Instrument ID: BNA3 Date Extracted: 07/26/06

Matrix: (soil/water) WATER Date Analyzed: 07/26/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1624

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0726B1LC	SBLK0726B1LCS	SLCS0726	07/26/06
02	SBLK0726B1LC	SBLK0726B1LCSD	SLCD0726	07/26/06
03	51EQB3W06072	0607211-01	0721101	07/26/06
04	51EQB4W06072	0607211-02	0721102	07/26/06
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726B1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: SBLK0726B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0726

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 16:24

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0726BS1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: SBLK0726 Lab Sample ID: SBLK0726BS1

Instrument ID: BNA1 Date Extracted: 07/26/06

Matrix: (soil/water) SOIL Date Analyzed: 07/26/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1434

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0726BS1L	SBLK0726BS1LCS	SLCS0726	07/26/06
02	51CFM09S0607	0607211-03	0721103	07/26/06
03	51CFM09S0607	0607211-03	0721103M	07/26/06
04	51CFM09S0607	0607211-03	0721103S	07/26/06
05	51CFM10S0607	0607211-04	0721104	07/26/06
06	51CFM11S0607	0607211-05	0721105	07/26/06
07	51CFM12S0607	0607211-06	0721106	07/26/06
08	51CFM13S0607	0607211-07	0721107	07/26/06
09	51CFM14S0607	0607211-08	0721108	07/26/06
10	51CFM15S0607	0607211-09	0721109	07/26/06
11	51CFM16S0607	0607211-10	0721110	07/26/06
12	51CFM17S0607	0607211-11	0721111	07/26/06
13	51DUP1S06072	0607211-12	0721112	07/26/06
14	51CFM09S0607	0607211-03	0721103D	07/27/06
15	51DUP1S06072	0607211-12	0721112D	07/27/06
16	51CFM11S0607	0607211-05	721105D1	07/27/06
17	51CFM15S0607	0607211-09	0721109D	07/27/06
18	51CFM14S0607	0607211-08	0721108D	07/27/06
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726BS1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0726BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0726

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 14:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170		U
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170		U
56-55-3	Benzo(a)anthracene	20	170		U
205-99-2	Benzo(b)fluoranthene	20	170		U
207-08-9	Benzo(k)fluoranthene	20	170		U
191-24-2	Benzo(g,h,i)perylene	20	170		U
50-32-8	Benzo(a)pyrene	20	100		U
218-01-9	Chrysene	20	170		U
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170		U
86-73-7	Fluorene	20	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	20	170		U
91-57-6	2-Methylnaphthalene	20	170		U
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170		U
129-00-0	Pyrene	20	170		U

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0421B1 DFTPP Injection Date: 04/21/06

Instrument ID: BNA3 DFTPP Injection Time: 1524

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.24
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	11.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHCCV0.10PP	PAHCCV0.10PPM	PAH001	04/21/06	1628
02	PAHCCV0.20PP	PAHCCV0.20PPM	PAH002	04/21/06	1708
03	PAHCCV0.40PP	PAHCCV0.40PPM	PAH003	04/21/06	1748
04	PAHCCV0.60PP	PAHCCV0.60PPM	PAH004	04/21/06	1828
05	PAHCCV1.00PP	PAHCCV1.00PPM	PAH006	04/21/06	1908
06	PAHCCV2.50PP	PAHCCV2.50PPM	PAH008	04/21/06	1948
07	PAHCCV5.00PP	PAHCCV5.00PPM	PAH009	04/21/06	2027
08	PAHCCV10.0PP	PAHCCV10.0PPM	PAH011	04/21/06	2107
09	PAHCCV20.0PP	PAHCCV20.0PPM	PAH013	04/21/06	2147
10	PAHICV5.0PPM	PAHICV5.0PPM	PAHICV	04/21/06	2227
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0726B1 DFTPP Injection Date: 07/26/06

Instrument ID: BNA1 DFTPP Injection Time: 1217

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	92.4
70	Less than 2.0% of mass 69	0.3 (0.3)1
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	15.0
365	Greater than 1.0% of mass 198	1.34
441	Present, but less than mass 443	8.6
442	Greater than 40.0% of mass 198	46.0
443	17.0 - 23.0% of mass 442	10.1 (21.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/26/06	1237
02	APP9ACCV050P	APP9ACCV050PPM	APP9A	07/26/06	1312
03	SBLK0726BS1	SBLK0726BS1	SBLK0726	07/26/06	1434
04	SBLK0726BS1L	SBLK0726BS1LCS	SLCS0726	07/26/06	1509
05	51CFM09S0607	0607211-03	0721103	07/26/06	1544
06	51CFM09S0607	0607211-03	0721103M	07/26/06	1618
07	51CFM09S0607	0607211-03	0721103S	07/26/06	1653
08	51CFM10S0607	0607211-04	0721104	07/26/06	1728
09	51CFM11S0607	0607211-05	0721105	07/26/06	1802
10	51CFM12S0607	0607211-06	0721106	07/26/06	1837
11	51CFM13S0607	0607211-07	0721107	07/26/06	1911
12	51CFM14S0607	0607211-08	0721108	07/26/06	1946
13	51CFM15S0607	0607211-09	0721109	07/26/06	2020
14	51CFM16S0607	0607211-10	0721110	07/26/06	2055
15	51CFM17S0607	0607211-11	0721111	07/26/06	2129
16	51DUP1S06072	0607211-12	0721112	07/26/06	2204
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0726B1 DFTPP Injection Date: 07/26/06

Instrument ID: BNA3 DFTPP Injection Time: 1308

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	42.2
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	47.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	2.77
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	51.5
443	17.0 - 23.0% of mass 442	10.1 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SPCC020PPM	SPCC020PPM	SPCC020	07/26/06	1328
02	PAHCCV5.0PPM	PAHCCV5.0PPM	PAHCCV	07/26/06	1545
03	SBLK0726B1	SBLK0726B1	SBLK0726	07/26/06	1624
04	SBLK0726B1LC	SBLK0726B1LCS	SLCS0726	07/26/06	1703
05	SBLK0726B1LC	SBLK0726B1LCSD	SLCD0726	07/26/06	1743
06	51EQB3W06072	0607211-01	0721101	07/26/06	1822
07	51EQB4W06072	0607211-02	0721102	07/26/06	1902
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0727B1 DFTPP Injection Date: 07/27/06

Instrument ID: BNA1 DFTPP Injection Time: 1147

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	78.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	3.13
441	Present, but less than mass 443	16.4
442	Greater than 40.0% of mass 198	94.5
443	17.0 - 23.0% of mass 442	17.0 (18.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	APP9ACCV050P	APP9ACCV050PPM	APP9A	07/27/06	1242
02	CCV050PPM	CCV050PPM	CCV050S	07/27/06	1316
03	51CFM09S0607	0607211-03	0721103D	07/27/06	1353
04	51DUP1S06072	0607211-12	0721112D	07/27/06	1428
05	51CFM11S0607	0607211-05	721105D1	07/27/06	1503
06	51CFM15S0607	0607211-09	0721109D	07/27/06	1612
07	51CFM14S0607	0607211-08	0721108D	07/27/06	1647
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): APP9A Date Analyzed: 07/26/06

Instrument ID: BNA1 Time Analyzed: 1312

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	482731		4.11		1524248		5.08		700869		7.38	
	UPPER LIMIT	965462		4.61		3048496		5.58		1401738		7.88	
	LOWER LIMIT	241366		3.61		762124		4.58		350435		6.88	
	CLIENT SAMPLE NO.												
01	SBLK0726BS1	497295		4.12		1486121		5.08		735929		7.38	
02	SBLK0726BS1L	464069		4.12		1457622		5.09		757886		7.38	
03	51CFM09S0607	515518		4.12		1672070		5.09		842432		7.38	
04	51CFM09S0607	505370		4.12		1554118		5.09		811988		7.38	
05	51CFM09S0607	548317		4.12		1725438		5.09		917232		7.39	
06	51CFM10S0607	516363		4.12		1698673		5.09		886038		7.38	
07	51CFM11S0607	571644		4.12		1829331		5.09		945386		7.39	
08	51CFM12S0607	522957		4.12		1684164		5.09		927959		7.38	
09	51CFM13S0607	544165		4.12		1871631		5.09		901255		7.38	
10	51CFM14S0607	591902		4.12		1910091		5.09		931045		7.38	
11	51CFM15S0607	498672		4.12		1655237		5.09		755154		7.39	
12	51CFM16S0607	559793		4.12		1779952		5.09		948276		7.38	
13	51CFM17S0607	488287		4.12		1782907		5.09		842544		7.39	
14	51DUP1S06072	568274		4.12		1871190		5.09		912770		7.39	
15													
16													
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): APP9A Date Analyzed: 07/26/06

Instrument ID: BNA1 Time Analyzed: 1312

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	809682		10.59		597495		17.92		569860		21.73	
	UPPER LIMIT	1619364		11.09		1194990		18.42		1139720		22.23	
	LOWER LIMIT	404841		10.09		298748		17.42		284930		21.23	
	CLIENT SAMPLE NO.												
01	SBLK0726BS1	974075		10.58		652479		17.92		635276		21.74	
02	SBLK0726BS1L	983102		10.58		695365		17.94		741251		21.76	
03	51CFM09S0607	859665		10.59		639702		17.98		585672		21.80	
04	51CFM09S0607	996285		10.60		663688		17.98		675174		21.80	
05	51CFM09S0607	1025169		10.61		752260		18.05		502519		21.85	
06	51CFM10S0607	1073107		10.59		650332		17.95		407368		21.76	
07	51CFM11S0607	901903		10.68		436477		18.20		240130	*	21.91	
08	51CFM12S0607	1159119		10.59		819096		17.96		565044		21.78	
09	51CFM13S0607	1117533		10.60		715591		17.97		503995		21.80	
10	51CFM14S0607	1157472		10.60		754402		17.99		415015		21.82	
11	51CFM15S0607	922634		10.66		482307		18.13		202049	*	21.87	
12	51CFM16S0607	1224655		10.60		753795		17.97		437645		21.79	
13	51CFM17S0607	1066134		10.60		748911		17.96		487170		21.78	
14	51DUP1S06072	931690		10.62		608528		18.02		325374		21.84	
15													
16													
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): PAHCCV Date Analyzed: 07/26/06

Instrument ID: BNA3 Time Analyzed: 1545

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	92616		5.45		413930		8.06		254076		12.19	
	UPPER LIMIT	185232		5.95		827860		8.56		508152		12.69	
	LOWER LIMIT	46308		4.95		206965		7.56		127038		11.69	
	CLIENT SAMPLE NO.												
01	SBLK0726B1	96876		5.45		369342		8.06		234825		12.19	
02	SBLK0726B1LC	103543		5.45		408228		8.07		276446		12.19	
03	SBLK0726B1LC	101825		5.45		398713		8.07		259037		12.19	
04	51EQB3W06072	127568		5.46		495197		8.06		294964		12.19	
05	51EQB4W06072	111293		5.45		440087		8.07		270999		12.19	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): PAHCCV Date Analyzed: 07/26/06

Instrument ID: BNA3 Time Analyzed: 1545

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	373328		15.72		291632		22.13		226244		25.34	
	UPPER LIMIT	746656		16.22		583264		22.63		452488		25.84	
	LOWER LIMIT	186664		15.22		145816		21.63		113122		24.84	
	CLIENT SAMPLE NO.												
01	SBLK0726B1	312423		15.71		186431		22.13		156453		25.33	
02	SBLK0726B1LC	392391		15.70		312815		22.13		218844		25.34	
03	SBLK0726B1LC	391919		15.70		327389		22.13		248196		25.33	
04	51EQB3W06072	401249		15.71		258883		22.14		189055		25.33	
05	51EQB4W06072	357579		15.72		246153		22.13		202966		25.33	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): CCV050S Date Analyzed: 07/27/06

Instrument ID: BNA1 Time Analyzed: 1316

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	405227		4.09		1357937		5.06		659078		7.32	
	UPPER LIMIT	810454		4.59		2715874		5.56		1318156		7.82	
	LOWER LIMIT	202614		3.59		678969		4.56		329539		6.82	
	CLIENT SAMPLE NO.												
01	51CFM09S0607	371997		4.09		1275860		5.05		597300		7.32	
02	51DUP1S06072	503033		4.09		1596069		5.05		759901		7.32	
03	51CFM11S0607	459373		4.08		1452943		5.05		721294		7.32	
04	51CFM15S0607	433073		4.09		1357876		5.05		633856		7.32	
05	51CFM14S0607	424414		4.09		1397180		5.05		679471		7.32	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): CCV050S Date Analyzed: 07/27/06

Instrument ID: BNA1 Time Analyzed: 1316

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	904552		10.51		560900		17.85		500591		21.66	
	UPPER LIMIT	1809104		11.01		1121800		18.35		1001182		22.16	
	LOWER LIMIT	452276		10.01		280450		17.35		250296		21.16	
	CLIENT SAMPLE NO.												
01	51CFM09S0607	676934		10.50		346628		17.83		192844	*	21.64	
02	51DUP1S06072	865526		10.50		481518		17.84		263471		21.64	
03	51CFM11S0607	814002		10.50		483363		17.84		271869		21.64	
04	51CFM15S0607	744717		10.50		416505		17.83		258138		21.64	
05	51CFM14S0607	743615		10.50		416116		17.84		250985		21.66	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ANALYTICAL REPORT

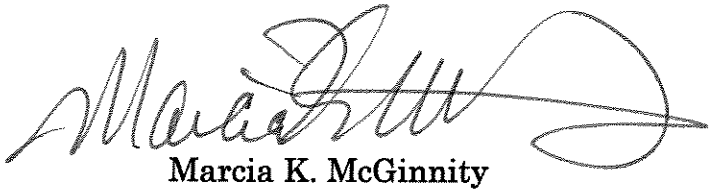
MAIN DATA PACKAGE - ORGANICS

VOLATILES SECTION

CH2M Hill, Inc.

WO #0607211
Part 1 of 3

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

August 8, 2006

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WO #0607211

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab Sample ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	50
0607211-08	51CFM14S060725	1
0607211-09	51CFM15S060725	500
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1
0607211-13	51TB3W060725	1
0607211-14	51TB4W060725	1

Volatiles

Method: The samples were extracted/analyzed for benzene, toluene, ethylbenzene and xylenes by USEPA SW-846 Methods 5035/8260B (Terracore field sampling then purge and trap followed by capillary column GC/MS) for soils or by USEPA SW-846 Methods 5030B/8260B (purge and trap followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- BFB Tuning: All method tuning criteria were met.
- Calibration Criteria: All method calibration criteria were met.
- Blank Results: No target analytes were detected in the blanks associated with these samples.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Laboratory control sample results: All recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- Dilutions: All samples were analyzed based upon screening results as indicated in the table above. Samples indicating a 50x or 500x were analyzed from the methanol extract.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

[redacted]1 Hill Constructors, Inc.
[redacted]eter Center Place, Suite 700
[redacted]A 30346-1278
[redacted]No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060724 25	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amb., brk.	7211-01
2	51EQB4W060724	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724 ↓	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page MH 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:		
			Cindy Bacton	7-26-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

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00003

Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-003 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060724 25	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	TRIP Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Bert	7/26/06	900

Jeff Marks
CH2M HILL Constructors, Inc.

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Form CCI001, Rev 02/00

00004

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 COC ID(s): 346570-003

Client CH2M Hill Project NAVSTA Mayport

Sample Custodian Andy Bates Today's Date 7-26-06

Date/Time Samples Received 7-26 900
Airbill Number Fx
Cooler Opened: Date 7-26

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-25

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 4.3

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

Empirical Laboratories

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PBLK0726LC	98	98	99	102	0
02	V1PBLK0726	102	92	105	105	0
03	51CFM09S0607	102	102	105	108	0
04	51CFM10S0607	105	100	105	108	0
05	51CFM11S0607	106	104	103	106	0
06	51CFM12S0607	102	98	104	109	0
07	51CFM14S0607	104	94	104	108	0
08	V1PBLK0727LC	97	95	97	102	0
09	V1PBLK0727	101	94	105	105	0
10	51CFM16S0607	106	108	104	108	0
11	51CFM17S0607	103	100	106	108	0
12	51DUP1S06072	104	106	104	109	0
13	51CFM09S0607	101	101	97	98	0
14	51CFM09S0607	99	97	100	102	0
15						
16						
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28						
29						
30						

		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PBLK0726LC	98	98	99	102	0
02	V1PBLK0726	102	92	105	105	0
03	0607211-03	102	102	105	108	0
04	0607211-04	105	100	105	108	0
05	0607211-05	106	104	103	106	0
06	0607211-06	102	98	104	109	0
07	0607211-08	104	94	104	108	0
08	V1PBLK0727LC	97	95	97	102	0
09	V1PBLK0727	101	94	105	105	0
10	0607211-10	106	108	104	108	0
11	0607211-11	103	100	106	108	0
12	0607211-12	104	106	104	109	0
13	0607211-03	101	101	97	98	0
14	0607211-03	99	97	100	102	0
15						
16						
17						
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27						
28						
29						
30						

	EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM) = Dibromofluoromethane	(80-125)	30
SMC2 (DCE) = 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL) = Toluene-d8	(80-120)	30
SMC4 (BFB) = Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level: (low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PMBLK0726	103	99	103	110	0
02	51CFM13S0607	98	90	104	110	0
03	51CFM15S0607	100	91	105	106	0
04						
05						
06						
07						
08						
09						
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27						
28						
29						
30						

		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	1500
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	1500
SMC3 (TOL)	= Toluene-d8	(80-120)	1500
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	1500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Level:(low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1PMBLK0726	103	99	103	110	0
02	0607211-07	98	90	104	110	0
03	0607211-09	100	91	105	106	0
04						
05						
06						
07						
08						
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22						
23						
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26						
27						
28						
29						
30						

	EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM) = Dibromofluoromethane	(80-125)	1500
SMC2 (DCE) = 1,2-Dichloroethane-d4	(75-140)	1500
SMC3 (TOL) = Toluene-d8	(80-120)	1500
SMC4 (BFB) = Bromofluorobenzene	(80-125)	1500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V3BLK0726LCS	105	100	93	104	0
02	V3BLK0726	106	101	98	101	0
03	51TB3W060725	106	102	97	102	0
04	51TB4W060725	106	103	96	100	0
05	51EQB3W06072	112	104	97	102	0
06	51EQB4W06072	111	102	96	103	0
07						
08						
09						
10						
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		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V3BLK0726LCS	105	100	93	104	0
02	V3BLK0726	106	101	98	101	0
03	0607211-13	106	102	97	102	0
04	0607211-14	106	103	96	100	0
05	0607211-01	112	104	97	102	0
06	0607211-02	111	102	96	103	0
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	EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM) = Dibromofluoromethane	(85-120)	30
SMC2 (DCE) = 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL) = Toluene-d8	(85-115)	30
SMC4 (BFB) = Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	47.16	0.0000	55.27	117	70-130
Ethylbenzene	47.16	0.0000	49.14	104	75-125
Toluene	47.16	0.0000	49.04	104	55-140
Xylene(total)	141.5	0.0000	141.8	100	70-120

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	47.85	52.58	110	5	50	70-130
Ethylbenzene	47.85	50.02	104	2	50	75-125
Toluene	47.85	48.57	102	1	50	55-140
Xylene(total)	143.5	142.5	99	0	50	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V1PBLK0726 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	51.34	103	70-130
Ethylbenzene	50.00	0.0000	51.55	103	75-125
Toluene	50.00	0.0000	48.58	97	55-140
Xylene(total)	150.0	0.0000	147.7	98	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V1PBLK0727 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	56.47	113	70-130
Ethylbenzene	50.00	0.0000	56.12	112	75-125
Toluene	50.00	0.0000	53.91	108	55-140
Xylene(total)	150.0	0.0000	162.4	108	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix Spike - Client Sample No.: V3BLK0726

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	53.33	107	75-125
Ethylbenzene	50.00	0.0000	53.75	108	75-130
Toluene	50.00	0.0000	46.61	93	75-125
Xylene(total)	150.0	0.0000	162.3	108	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1PBLK01 Lab Sample ID: V1PBLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1506

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0726LC	V1PBLK0726LCS	V1LCS01	1353
02	51CFM09S0607	0607211-03	0721103A	1620
03	51CFM10S0607	0607211-04	0721104A	1657
04	51CFM11S0607	0607211-05	0721105B	1733
05	51CFM12S0607	0607211-06	0721106A	1810
06	51CFM14S0607	0607211-08	0721108A	1923
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PBLK0727

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BLK01 Lab Sample ID: V1PBLK0727

Date Analyzed: 07/27/06 Time Analyzed: 0728

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1PBLK0727LC	V1PBLK0727LCS	V1LCS01	0652
02	51CFM16S0607	0607211-10	0721110A	0805
03	51CFM17S0607	0607211-11	0721111A	0841
04	51DUP1S06072	0607211-12	0721112A	0917
05	51CFM09S0607	0607211-03	721103BM	1126
06	51CFM09S0607	0607211-03	721103BS	1203
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1PMBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1MBLK01 Lab Sample ID: V1PMBLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1543

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	51CFM13S0607	0607211-07	0721107M	1847
02	51CFM15S0607	0607211-09	0721109M	1959
03				
04				
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V3BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BLK01 Lab Sample ID: V3BLK0726

Date Analyzed: 07/26/06 Time Analyzed: 1104

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V3BLK0726LCS	V3BLK0726LCS	V3LCS01	0919
02	51TB3W060725	0607211-13	0721113	1231
03	51TB4W060725	0607211-14	0721114	1300
04	51EQB3W06072	0607211-01	0721101	1330
05	51EQB4W06072	0607211-02	0721102	1400
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/18/06

Instrument ID: VOA1 BFB Injection Time: 0825

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.6
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	54.2
175	5.0 - 9.0% of mass 174	4.0 (7.4)1
176	95.0 - 101.0% of mass 174	53.9 (99.5)1
177	5.0 - 9.0% of mass 176	4.1 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD200PPB	V1STD200PPB	V1STD07	07/18/06	0959
02	V1STD100PPB	V1STD100PPB	V1STD06	07/18/06	1037
03	V1STD50PPB	V1STD50PPB	V1STD05	07/18/06	1114
04	V1BLK0718ICV	V1BLK0718ICV	V1LCS01ICV	07/18/06	1151
05	V1STD20PPB	V1STD20PPB	V1STD04	07/18/06	1228
06	V1STD10PPB	V1STD10PPB	V1STD03	07/18/06	1306
07	V1STD5PPB	V1STD5PPB	V1STD02	07/18/06	1342
08	V1STD2PPB	V1STD2PPB	V1STD01	07/18/06	1419
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/26/06

Instrument ID: VOA1 BFB Injection Time: 1240

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.7
75	30.0 - 60.0% of mass 95	57.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	61.8
175	5.0 - 9.0% of mass 174	4.8 (7.8)1
176	95.0 - 101.0% of mass 174	59.0 (95.4)1
177	5.0 - 9.0% of mass 176	4.0 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/26/06	1316
02	V1PBLK0726LC	V1PBLK0726LCS	V1LCS01	07/26/06	1353
03	V1PBLK0726	V1PBLK0726	V1PBLK01	07/26/06	1506
04	V1PMBLK0726	V1PMBLK0726	V1MBLK01	07/26/06	1543
05	51CFM09S0607	0607211-03	0721103A	07/26/06	1620
06	51CFM10S0607	0607211-04	0721104A	07/26/06	1657
07	51CFM11S0607	0607211-05	0721105B	07/26/06	1733
08	51CFM12S0607	0607211-06	0721106A	07/26/06	1810
09	51CFM13S0607	0607211-07	0721107M	07/26/06	1847
10	51CFM14S0607	0607211-08	0721108A	07/26/06	1923
11	51CFM15S0607	0607211-09	0721109M	07/26/06	1959
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V1BFB01 BFB Injection Date: 07/27/06

Instrument ID: VOA1 BFB Injection Time: 0556

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	61.4
175	5.0 - 9.0% of mass 174	4.9 (7.9)1
176	95.0 - 101.0% of mass 174	61.1 (99.5)1
177	5.0 - 9.0% of mass 176	3.2 (5.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD50PPB	V1STD50PPB	V1CCV01	07/27/06	0616
02	V1PBLK0727LC	V1PBLK0727LCS	V1LCS01	07/27/06	0652
03	V1PBLK0727	V1PBLK0727	V1BLK01	07/27/06	0728
04	51CFM16S0607	0607211-10	0721110A	07/27/06	0805
05	51CFM17S0607	0607211-11	0721111A	07/27/06	0841
06	51DUP1S06072	0607211-12	0721112A	07/27/06	0917
07	51CFM09S0607	0607211-03	721103BM	07/27/06	1126
08	51CFM09S0607	0607211-03	721103BS	07/27/06	1203
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BFB01 BFB Injection Date: 07/19/06

Instrument ID: VOA3 BFB Injection Time: 1401

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	75.6
175	5.0 - 9.0% of mass 174	5.6 (7.4)1
176	95.0 - 101.0% of mass 174	72.8 (96.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD200PPB	V3STD200PPB	V3STD08	07/19/06	1506
02	V3STD100PPB	V3STD100PPB	V3STD07	07/19/06	1536
03	V3STD50PPB	V3STD50PPB	V3STD06	07/19/06	1606
04	V3BLK0719ICV	V3BLK0719ICV	V3LCSICV	07/19/06	1636
05	V3STD20PPB	V3STD20PPB	V3STD05	07/19/06	1706
06	V3STD10PPB	V3STD10PPB	V3STD04	07/19/06	1736
07	V3STD2PPB	V3STD2PPB	V3STD03	07/19/06	1806
08	V3STD1PPB	V3STD1PPB	V3STD02	07/19/06	1836
09	V3STD0.5PPB	V3STD0.5PPB	V3STD01	07/19/06	1906
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID: V3BFB01 BFB Injection Date: 07/26/06

Instrument ID: VOA3 BFB Injection Time: 0819

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	81.2
175	5.0 - 9.0% of mass 174	6.0 (7.4)1
176	95.0 - 101.0% of mass 174	78.4 (96.6)1
177	5.0 - 9.0% of mass 176	5.7 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD50PPB	V3STD50PPB	V3CCV01	07/26/06	0849
02	V3BLK0726LCS	V3BLK0726LCS	V3LCS01	07/26/06	0919
03	V3BLK0726	V3BLK0726	V3BLK01	07/26/06	1104
04	51TB3W060725	0607211-13	0721113	07/26/06	1231
05	51TB4W060725	0607211-14	0721114	07/26/06	1300
06	51EQB3W06072	0607211-01	0721101	07/26/06	1330
07	51EQB4W06072	0607211-02	0721102	07/26/06	1400
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA1 Time Analyzed: 1316

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	602923		14.85		313384		19.73		205325		23.45	
	UPPER LIMIT	1205846		15.35		626768		20.23		410650		23.95	
	LOWER LIMIT	301462		14.35		156692		19.23		102663		22.95	
	CLIENT SAMPLE NO.												
01	V1PBLK0726LC	570130		14.85		292315		19.74		196574		23.44	
02	V1PBLK0726	566412		14.85		265520		19.74		188708		23.45	
03	V1PMBLK0726	540898		14.85		258175		19.74		196157		23.45	
04	51CFM09S0607	543883		14.87		260073		19.77		193064		23.48	
05	51CFM10S0607	550982		14.85		269417		19.74		195879		23.46	
06	51CFM11S0607	518875		14.85		253136		19.75		184892		23.46	
07	51CFM12S0607	575991		14.85		276671		19.75		214962		23.46	
08	51CFM13S0607	513286		14.85		244997		19.74		186262		23.45	
09	51CFM14S0607	587922		14.85		281393		19.75		204035		23.46	
10	51CFM15S0607	538777		14.85		255970		19.75		192360		23.48	
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA1 Time Analyzed: 1316

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	602923	14.85	313384	19.73	205325	23.45
	UPPER LIMIT	1205846	15.35	626768	20.23	410650	23.95
	LOWER LIMIT	301462	14.35	156692	19.23	102663	22.95
	CLIENT SAMPLE NO.						
01	V1PBLK0726LC	570130	14.85	292315	19.74	196574	23.44
02	V1PBLK0726	566412	14.85	265520	19.74	188708	23.45
03	V1PMBLK0726	540898	14.85	258175	19.74	196157	23.45
04	0607211-03	543883	14.87	260073	19.77	193064	23.48
05	0607211-04	550982	14.85	269417	19.74	195879	23.46
06	0607211-05	518875	14.85	253136	19.75	184892	23.46
07	0607211-06	575991	14.85	276671	19.75	214962	23.46
08	0607211-07	513286	14.85	244997	19.74	186262	23.45
09	0607211-08	587922	14.85	281393	19.75	204035	23.46
10	0607211-09	538777	14.85	255970	19.75	192360	23.48
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22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/27/06

Instrument ID: VOA1 Time Analyzed: 0616

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	632001		14.84		338831		19.73		228274		23.43	
	UPPER LIMIT	1264002		15.34		677662		20.23		456548		23.93	
	LOWER LIMIT	316001		14.34		169416		19.23		114137		22.93	
	CLIENT SAMPLE NO.												
01	V1PBLK0727LC	522021		14.84		268110		19.72		181930		23.43	
02	V1PBLK0727	566673		14.84		273660		19.72		196040		23.43	
03	51CFM16S0607	516847		14.83		249289		19.74		182472		23.44	
04	51CFM17S0607	506198		14.83		241578		19.72		187221		23.44	
05	51DUP1S06072	498186		14.83		245177		19.72		180184		23.44	
06	51CFM09S0607	549624		14.84		292968		19.73		196665		23.44	
07	51CFM09S0607	544888		14.84		279046		19.73		193464		23.44	
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V1CCV01 Date Analyzed: 07/27/06

Instrument ID: VOA1 Time Analyzed: 0616

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	632001	14.84	338831	19.73	228274	23.43
	UPPER LIMIT	1264002	15.34	677662	20.23	456548	23.93
	LOWER LIMIT	316001	14.34	169416	19.23	114137	22.93
	CLIENT SAMPLE NO.						
01	V1PBLK0727LC	522021	14.84	268110	19.72	181930	23.43
02	V1PBLK0727	566673	14.84	273660	19.72	196040	23.43
03	0607211-10	516847	14.83	249289	19.74	182472	23.44
04	0607211-11	506198	14.83	241578	19.72	187221	23.44
05	0607211-12	498186	14.83	245177	19.72	180184	23.44
06	0607211-03	549624	14.84	292968	19.73	196665	23.44
07	0607211-03	544888	14.84	279046	19.73	193464	23.44
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V3CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA3 Time Analyzed: 0849

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	533063		13.36		324679		16.67		373052		18.50	
	UPPER LIMIT	1066126		13.86		649358		17.17		746104		19.00	
	LOWER LIMIT	266532		12.86		162340		16.17		186526		18.00	
	CLIENT SAMPLE NO.												
01	V3BLK0726LCS	567363		13.36		336907		16.67		392316		18.50	
02	V3BLK0726	573231		13.36		323727		16.67		339577		18.50	
03	51TB3W060725	538079		13.36		304343		16.67		349203		18.50	
04	51TB4W060725	539562		13.36		307013		16.67		355820		18.50	
05	51EQB3W06072	509473		13.36		291072		16.67		351202		18.50	
06	51EQB4W06072	500181		13.36		289587		16.67		344176		18.50	
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Lab File ID (Standard): V3CCV01 Date Analyzed: 07/26/06

Instrument ID: VOA3 Time Analyzed: 0849

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	533063		13.36		324679		16.67		373052		18.50	
	UPPER LIMIT	1066126		13.86		649358		17.17		746104		19.00	
	LOWER LIMIT	266532		12.86		162340		16.17		186526		18.00	
	CLIENT SAMPLE NO.												
01	V3BLK0726LCS	567363		13.36		336907		16.67		392316		18.50	
02	V3BLK0726	573231		13.36		323727		16.67		339577		18.50	
03	0607211-13	538079		13.36		304343		16.67		349203		18.50	
04	0607211-14	539562		13.36		307013		16.67		355820		18.50	
05	0607211-01	509473		13.36		291072		16.67		351202		18.50	
06	0607211-02	500181		13.36		289587		16.67		344176		18.50	
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721101

Level: (low/med) LOW Date Sampled: 07/25/06 15:50

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:30

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721101.D
Report Date: 27-Jul-2006 08:56

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721101.D
Lab Smp Id: 0607211-01 Client Smp ID: 51EQB3W060725
Inj Date : 26-JUL-2006 13:30 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : 0607211-01;;;;;; eqpbl
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 27-Jul-2006 08:56 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

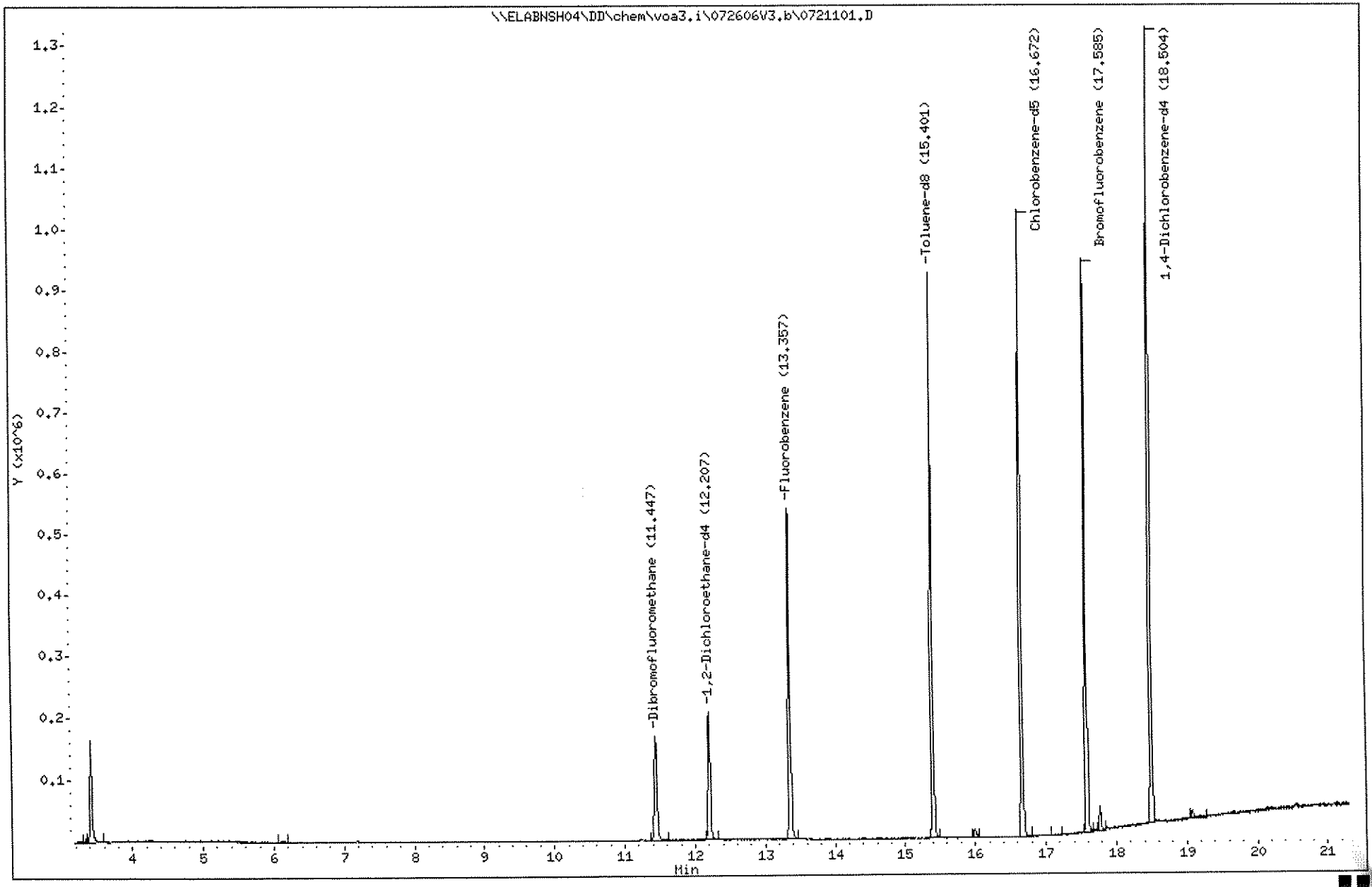
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	509473	30.0000		
$ 49 Dibromofluoromethane	111	11.446	11.446	(0.857)	151297	33.6270	33.63	
$ 52 1,2-Dichloroethane-d4	102	12.207	12.207	(0.914)	30482	31.2060	31.21	
$ 76 Toluene-d8	98	15.400	15.400	(0.924)	586329	28.9972	29.00	
$ 97 Bromofluorobenzene	95	17.584	17.584	(1.055)	291586	30.6895	30.69	
* 86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	291072	30.0000		(Q)
* 110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	351202	30.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721101.D
Date : 26-JUL-2006 13:30
Client ID: 51EQB3W060725
Instrument: voa3.i
Sample Info: 0607211-01;;;;;; eqpbl
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000033



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721102

Level: (low/med) LOW Date Sampled: 07/25/06 17:35

% Moisture: not dec. _____ Date Analyzed: 07/26/06 14:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721102.D
Report Date: 27-Jul-2006 08:56

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721102.D
Lab Smp Id: 0607211-02 Client Smp ID: 51EQB4W060725
Inj Date : 26-JUL-2006 14:00 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : 0607211-02;;;;; eqpbl
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 27-Jul-2006 08:56 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

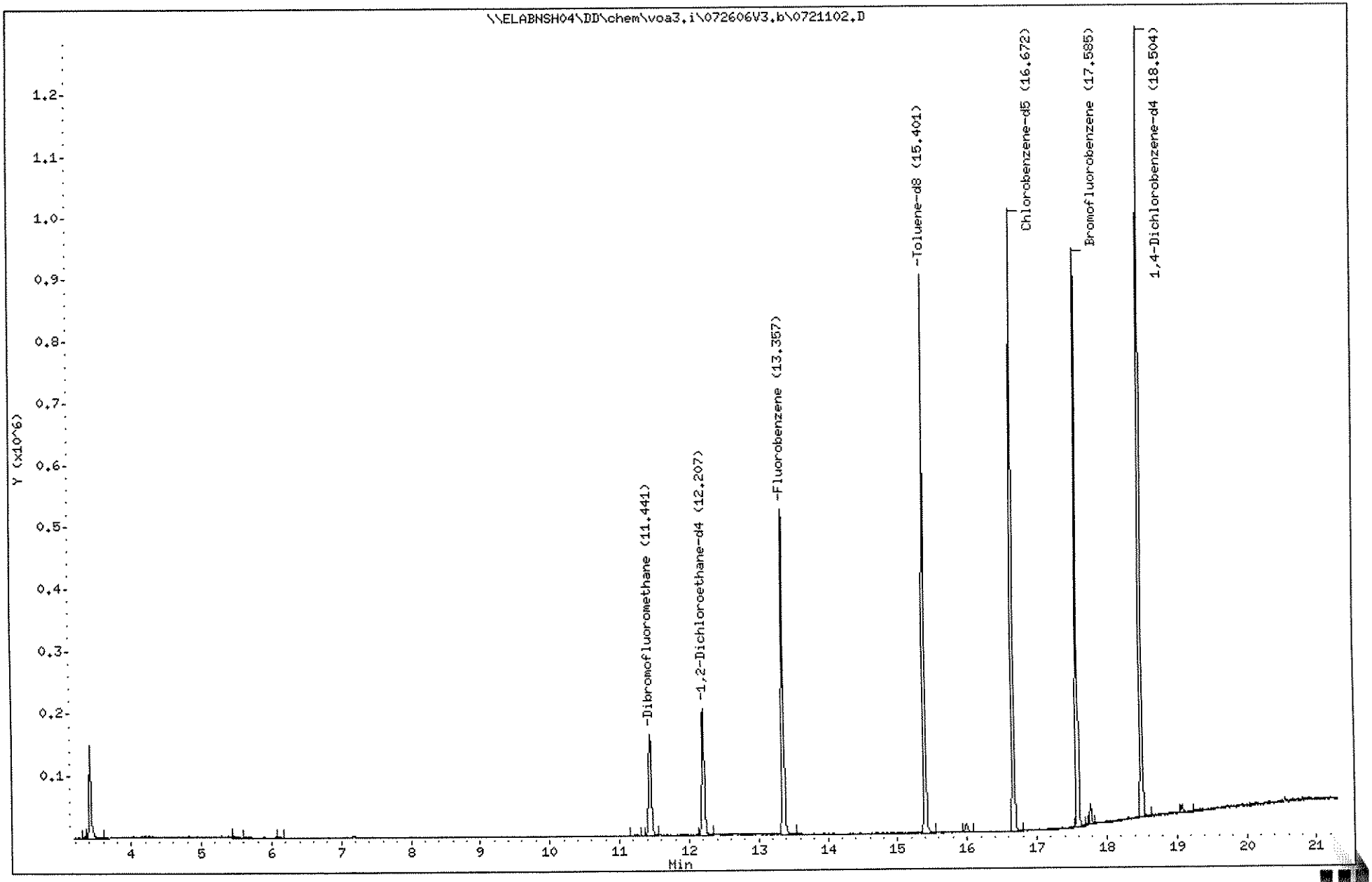
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	500181	30.0000		
$ 49 Dibromofluoromethane	111	11.446	11.446	(0.857)	147194	33.3229	33.32	
$ 52 1,2-Dichloroethane-d4	102	12.207	12.207	(0.914)	29290	30.5428	30.54	
$ 76 Toluene-d8	98	15.400	15.400	(0.924)	577018	28.6830	28.68	
$ 97 Bromofluorobenzene	95	17.584	17.584	(1.055)	292143	30.9058	30.90	
* 86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	289587	30.0000		(Q)
* 110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	344176	30.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721102.D
Date : 26-JUL-2006 14:00
Client ID: 51EQB4W060725
Sample Info: 0607211-02;;;;;; eqpbl
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa3.i
Operator: ADM
Column diameter: 0.25



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0721103A

Level: (low/med) LOW Date Sampled: 07/25/06 16:10

% Moisture: not dec. 5 Date Analyzed: 07/26/06 16:20

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	RL	CONC	UG/KG Q
71-43-2	Benzene	0.50	5.3		U
100-41-4	Ethylbenzene	0.80	5.3		U
108-88-3	Toluene	0.92	5.3		U
1330-20-7	Xylene(total)	0.75	5.3		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721103A.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721103A.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725
Inj Date : 26-JUL-2006 16:20 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-03;;4.93;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.930	Weight of sample extracted (g)
Solids	95.000	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.867	14.847	(1.000)	543883	30.0000		
$ 44 Dibromofluoromethane	111	12.944	12.936	(0.871)	152449	30.7169	32.79	
$ 48 1,2-Dichloroethane-d4	102	13.664	13.641	(0.919)	40999	30.6663	32.74	
$ 73 Toluene-d8	98	17.597	17.582	(0.890)	500618	31.5921	33.73	
$ 95 Bromofluorobenzene	95	21.505	21.483	(1.088)	222063	32.2862	34.47	
* 82 Chlorobenzene-d5	82	19.771	19.730	(1.000)	260073	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.477	23.445	(1.000)	193064	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721103A.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721103A.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725
Inj Date : 26-JUL-2006 16:20 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-03;;4.93;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.930	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MJJ 7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.867	14.847	(1.000)	543883	30.0000		
$ 44 Dibromofluoromethane	111	12.944	12.936	(0.871)	152449	30.7169	31.15	
$ 48 1,2-Dichloroethane-d4	102	13.664	13.641	(0.919)	40999	30.6663	31.10	
$ 73 Toluene-d8	98	17.597	17.582	(0.890)	500618	31.5921	32.04	
$ 95 Bromofluorobenzene	95	21.505	21.483	(1.088)	222063	32.2862	32.74	
* 82 Chlorobenzene-d5	82	19.771	19.730	(1.000)	260073	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.477	23.445	(1.000)	193064	30.0000		(Q)

QC Flag Legend

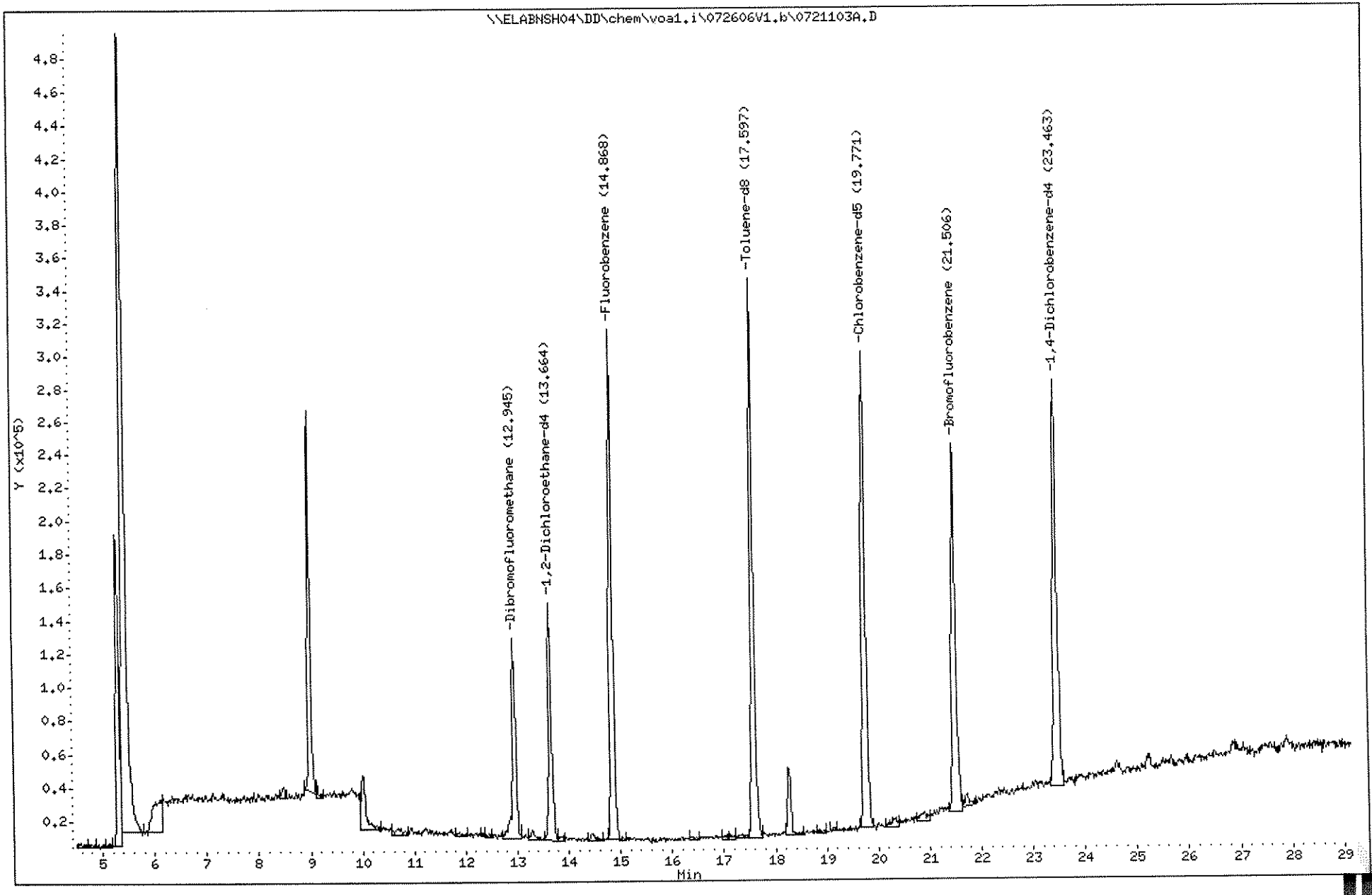
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721103A.D
Date : 26-JUL-2006 16:20
Client ID: 51CFM09S060725
Sample Info: 0607211-03;;4.93;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 0721104A

Level: (low/med) LOW Date Sampled: 07/25/06 16:20

% Moisture: not dec. 8 Date Analyzed: 07/26/06 16:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.49	5.2		U
100-41-4	Ethylbenzene	0.78	5.2		U
108-88-3	Toluene	0.90	5.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721104A.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721104A.D
Lab Smp Id: 0607211-04 Client Smp ID: 51CFM10S060725
Inj Date : 26-JUL-2006 16:57 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-04;;5.19;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

7/27/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.190	Weight of sample extracted (g)
Solids	92.400	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	550982	30.0000	
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	159081	31.6402	32.99
$ 48 1,2-Dichloroethane-d4	102	13.648	13.641	(0.919)	40788	30.1154	31.40(Q)
$ 73 Toluene-d8	98	17.581	17.582	(0.891)	517538	31.5272	32.87
$ 95 Bromofluorobenzene	95	21.488	21.483	(1.089)	231469	32.4866	33.87
* 82 Chlorobenzene-d5	82	19.739	19.730	(1.000)	269417	30.0000	(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.460	23.445	(1.000)	195879	30.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721104A.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721104A.D
Lab Smp Id: 0607211-04 Client Smp ID: 51CFM10S060725
Inj Date : 26-JUL-2006 16:57 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-04;;5.19;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.190	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	550982	30.0000		
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	159081	31.6402	30.48	
$ 48 1,2-Dichloroethane-d4	102	13.648	13.641	(0.919)	40788	30.1154	29.01	(Q)
$ 73 Toluene-d8	98	17.581	17.582	(0.891)	517538	31.5272	30.37	
$ 95 Bromofluorobenzene	95	21.488	21.483	(1.089)	231469	32.4866	31.30	
* 82 Chlorobenzene-d5	82	19.739	19.730	(1.000)	269417	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.460	23.445	(1.000)	195879	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721104A.D
Date : 26-JUL-2006 16:57
Client ID: 51CFM10S060725
Sample Info: 0607211-04;;5.19;;;

Instrument: voa1.i

Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

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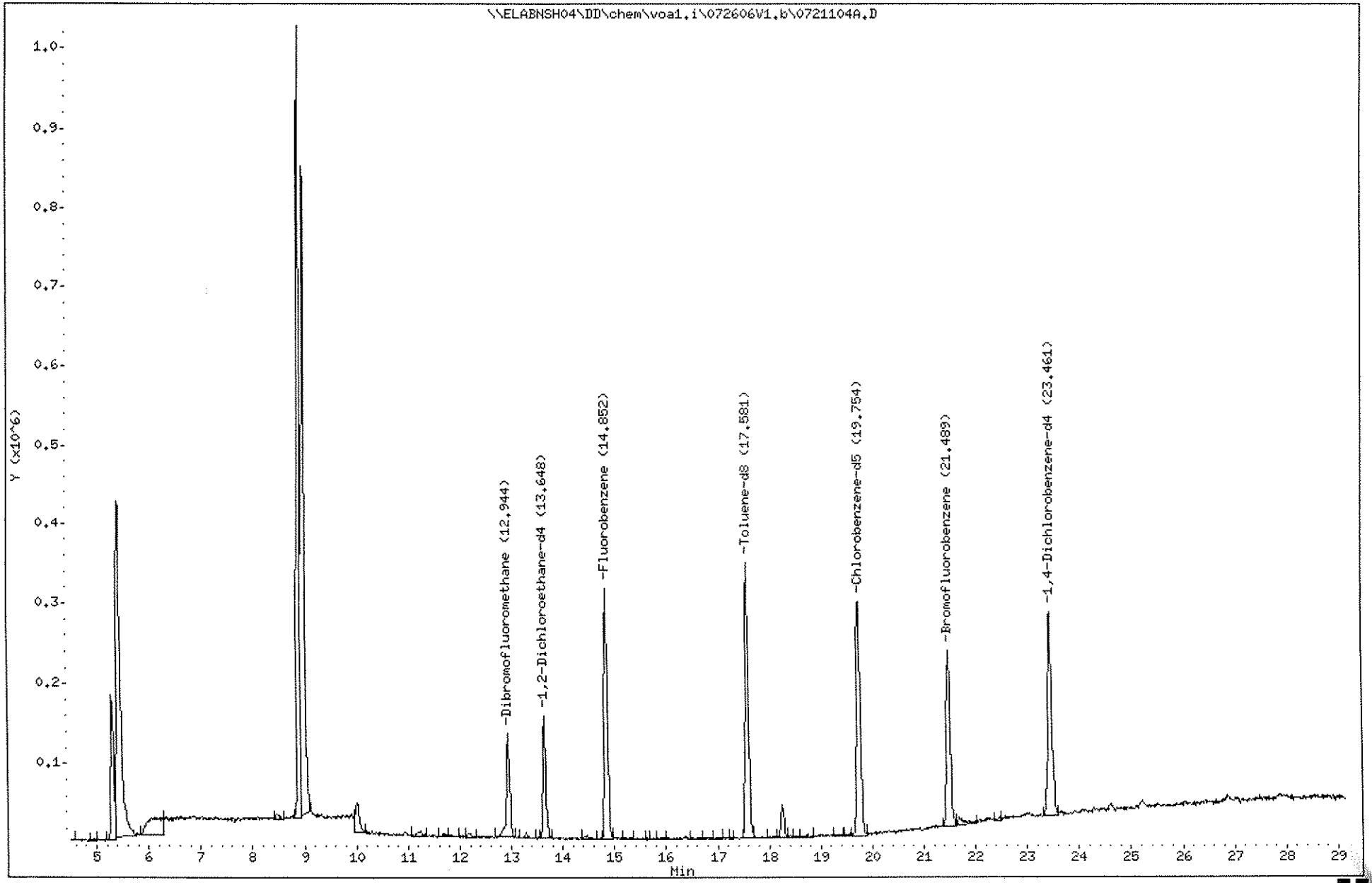


Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721105B

Level: (low/med) LOW Date Sampled: 07/25/06 16:30

% Moisture: not dec. 5 Date Analyzed: 07/26/06 17:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721105B.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721105B.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 26-JUL-2006 17:33 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-05;;5.31;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.310	Weight of sample extracted (g)
Solids	94.600	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	518875	30.0000		
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	150263	31.7356	31.59	
$ 48 1,2-Dichloroethane-d4	102	13.648	13.641	(0.919)	39652	31.0882	30.94	(Q)
$ 73 Toluene-d8	98	17.580	17.582	(0.890)	477017	30.9277	30.78	
$ 95 Bromofluorobenzene	95	21.502	21.483	(1.089)	214025	31.9703	31.82	
* 82 Chlorobenzene-d5	82	19.753	19.730	(1.000)	253136	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.459	23.445	(1.000)	184892	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721105B.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721105B.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 26-JUL-2006 17:33 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-05;;5.31;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.310	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	518875	30.0000		
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	150263	31.7356	29.88	
$ 48 1,2-Dichloroethane-d4	102	13.648	13.641	(0.919)	39652	31.0882	29.27	(Q)
$ 73 Toluene-d8	98	17.580	17.582	(0.890)	477017	30.9277	29.12	
$ 95 Bromofluorobenzene	95	21.502	21.483	(1.089)	214025	31.9703	30.10	
* 82 Chlorobenzene-d5	82	19.753	19.730	(1.000)	253136	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.459	23.445	(1.000)	184892	30.0000		(Q)

QC Flag Legend

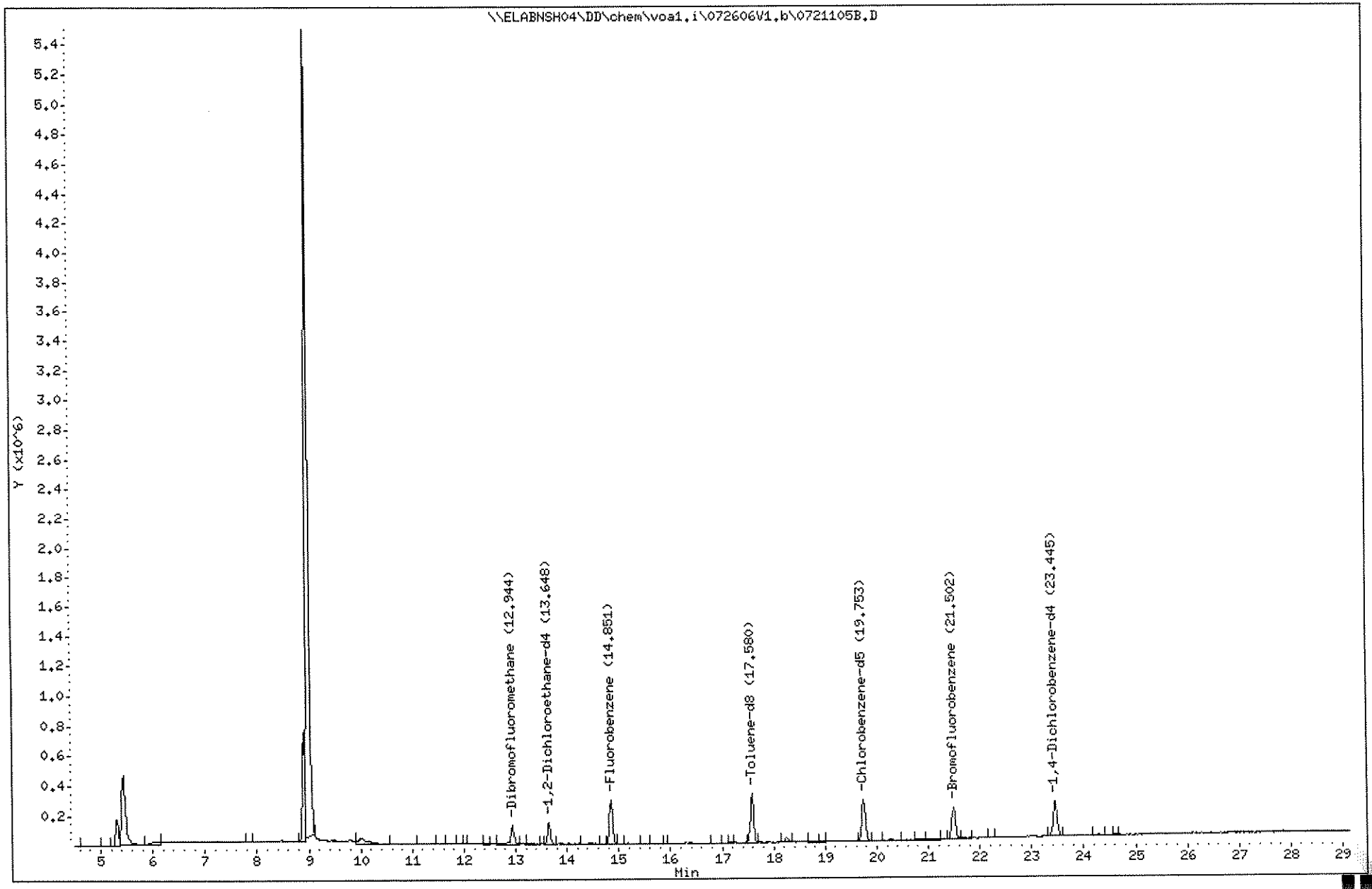
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721105B.D
Date : 26-JUL-2006 17:33
Client ID: 51CFM11S060725
Sample Info: 0607211-05;;5.31;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



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Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721106A

Level: (low/med) LOW Date Sampled: 07/25/06 16:40

% Moisture: not dec. 7 Date Analyzed: 07/26/06 18:10

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.54	5.8		U
100-41-4	Ethylbenzene	0.86	5.8		U
108-88-3	Toluene	0.99	5.8		U
1330-20-7	Xylene(total)	0.80	5.8		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721106A.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721106A.D
Lab Smp Id: 0607211-06 Client Smp ID: 51CFM12S060725
Inj Date : 26-JUL-2006 18:10 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-06;;4.65;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.650	Weight of sample extracted (g)
Solids	93.400	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.850	14.847	(1.000)	575991	30.0000		
$ 44 Dibromofluoromethane	111	12.942	12.936	(0.872)	160905	30.6134	35.24	
$ 48 1,2-Dichloroethane-d4	102	13.661	13.641	(0.920)	41632	29.4039	33.85	(Q)
$ 73 Toluene-d8	98	17.579	17.582	(0.890)	528103	31.3273	36.06	
$ 95 Bromofluorobenzene	95	21.487	21.483	(1.088)	240240	32.8336	37.80	
* 82 Chlorobenzene-d5	82	19.752	19.730	(1.000)	276671	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.459	23.445	(1.000)	214962	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721106A.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721106A.D
Lab Smp Id: 0607211-06 Client Smp ID: 51CFM12S060725
Inj Date : 26-JUL-2006 18:10 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-06;;4.65;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.650	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.850	14.847	(1.000)	575991	30.0000	
$ 44 Dibromofluoromethane	111	12.942	12.936	(0.872)	160905	30.6134	32.92
$ 48 1,2-Dichloroethane-d4	102	13.661	13.641	(0.920)	41632	29.4039	31.62(Q)
$ 73 Toluene-d8	98	17.579	17.582	(0.890)	528103	31.3273	33.68
$ 95 Bromofluorobenzene	95	21.487	21.483	(1.088)	240240	32.8336	35.30
* 82 Chlorobenzene-d5	82	19.752	19.730	(1.000)	276671	30.0000	(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.459	23.445	(1.000)	214962	30.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721106A.D
Date : 26-JUL-2006 18:10
Client ID: 51CFM12S060725
Sample Info: 0607211-06;;4.65;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

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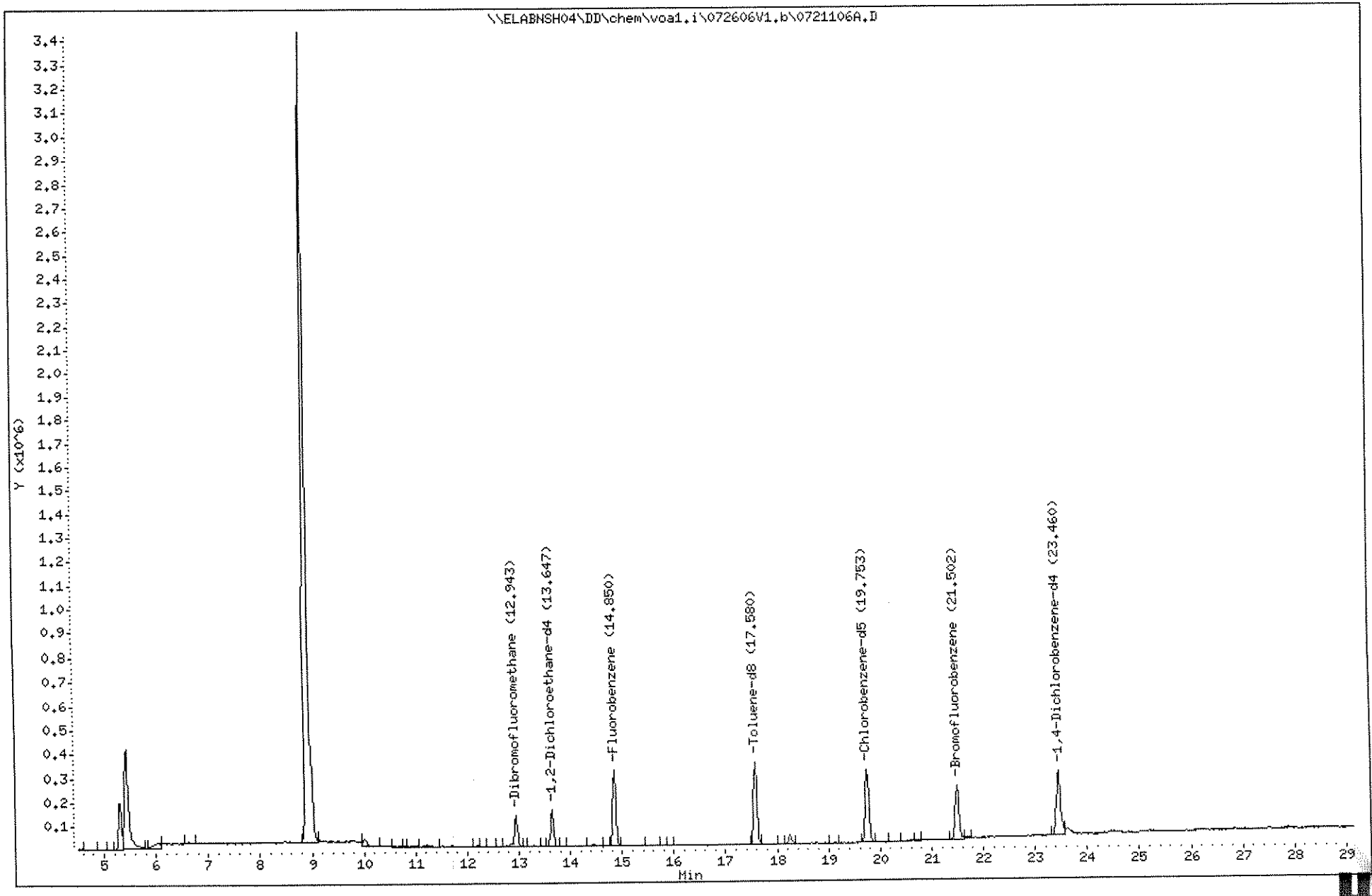


Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0721107M

Level: (low/med) MED Date Sampled: 07/25/06 16:45

% Moisture: not dec. 12 Date Analyzed: 07/26/06 18:47

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	300		U
100-41-4	Ethylbenzene	46	300	670	
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300	5200	

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Lab Smp Id: 0607211-07 Client Smp ID: 51CFM13S060725
Inj Date : 26-JUL-2006 18:47 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-07;;4.68;;;50x-100ul
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.680	Weight of sample extracted (g)
Solids	87.900	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
*	56 Fluorobenzene	96	14.852	14.847	(1.000)	513286	30.0000	
$	44 Dibromofluoromethane	111	12.929	12.936	(0.871)	137563	29.3698	1785
$	48 1,2-Dichloroethane-d4	102	13.634	13.641	(0.918)	34147	27.0637	1645 (Q)
$	73 Toluene-d8	98	17.581	17.582	(0.891)	466047	31.2203	1897
$	95 Bromofluorobenzene	95	21.491	21.483	(1.089)	214201	33.0596	2009
*	82 Chlorobenzene-d5	82	19.740	19.730	(1.000)	244997	30.0000	(Q)
	84 Ethylbenzene	91	20.020	20.025	(1.014)	387153	10.9859	667.6
	85 m,p-Xylene	91	20.284	20.275	(1.028)	1427220	53.6449	3260
M	91 Xylene(total)	91				2380262	86.3981	5251
	89 o-Xylene	91	20.888	20.879	(1.058)	953042	34.5932	2102
*	106 1,4-Dichlorobenzene-d4	152	23.452	23.445	(1.000)	186262	30.0000	(Q)

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Report Date: 27-Jul-2006 09:43

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Lab Smp Id: 0607211-07 Client Smp ID: 51CFM13S060725
Inj Date : 26-JUL-2006 18:47 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-07;;4.68;;;50x-100ul
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.680	Weight of sample extracted (g)
Solids	100.000	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.852	14.847	(1.000)	513286	30.0000	
$ 44 Dibromofluoromethane	111	12.929	12.936	(0.871)	137563	29.3698	1569
$ 48 1,2-Dichloroethane-d4	102	13.634	13.641	(0.918)	34147	27.0637	1446(Q)
$ 73 Toluene-d8	98	17.581	17.582	(0.891)	466047	31.2203	1668
$ 95 Bromofluorobenzene	95	21.491	21.483	(1.089)	214201	33.0596	1766
* 82 Chlorobenzene-d5	82	19.740	19.730	(1.000)	244997	30.0000	(Q)
84 Ethylbenzene	91	20.020	20.025	(1.014)	387153	10.9859	586.8
85 m,p-Xylene	91	20.284	20.275	(1.028)	1427220	53.6449	2866
M 91 Xylene(total)	91				2380262	86.3981	4615
89 o-Xylene	91	20.888	20.879	(1.058)	953042	34.5932	1848
* 106 1,4-Dichlorobenzene-d4	152	23.452	23.445	(1.000)	186262	30.0000	(Q)

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Report Date: 27-Jul-2006 06:14

QC Flag Legend

Q - Qualifier signal failed the ratio test.

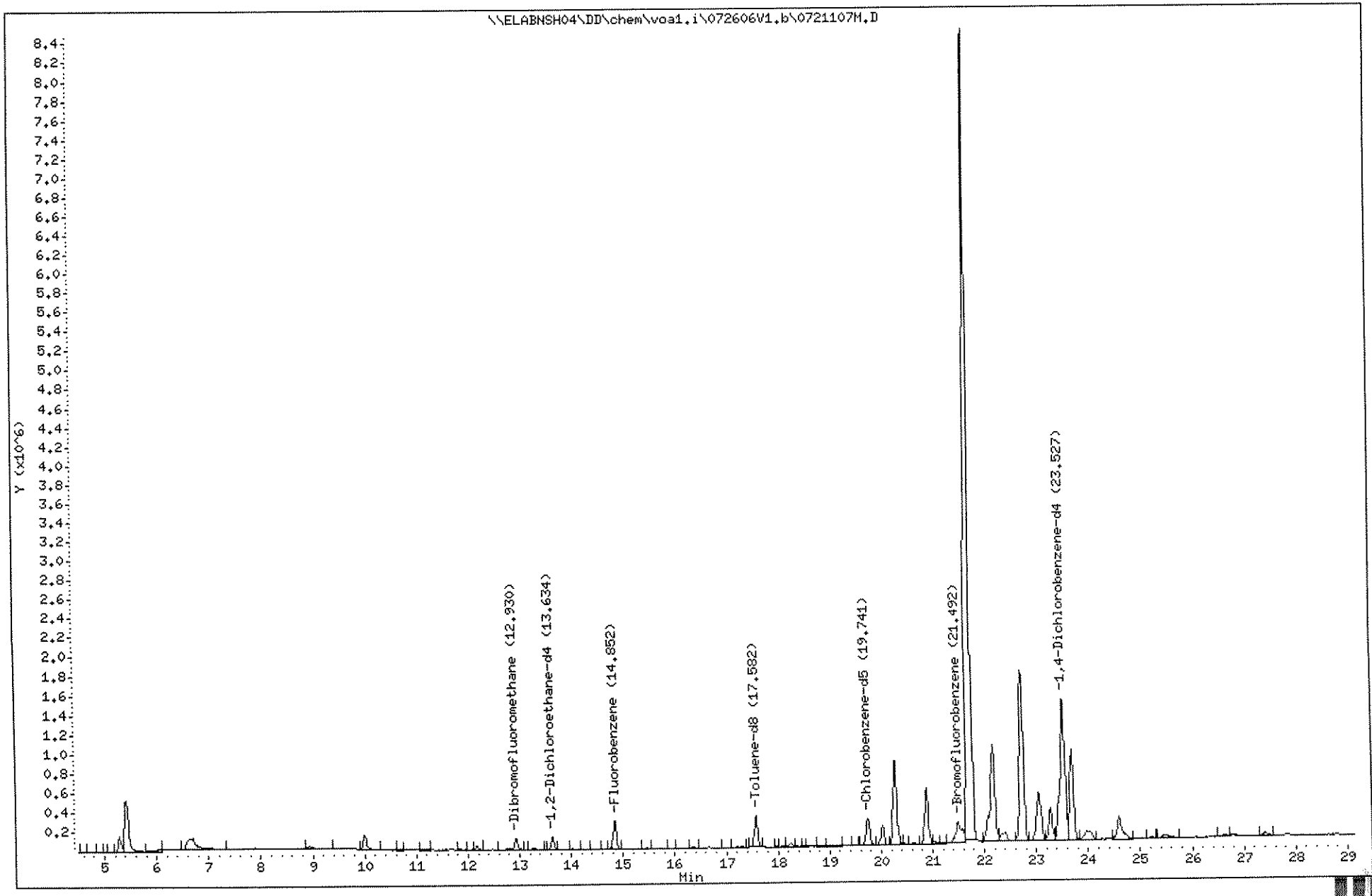
Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D
Date : 26-JUL-2006 18:47
Client ID: 51CFM13S060725
Sample Info: 0607211-07;;4,68;;;50x-100ul

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000058



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D

Date : 26-JUL-2006 18:47

Client ID: 51CFM13S060725

Instrument: voa1.i

Sample Info: 0607211-07;;4.68;;;50x-100ul

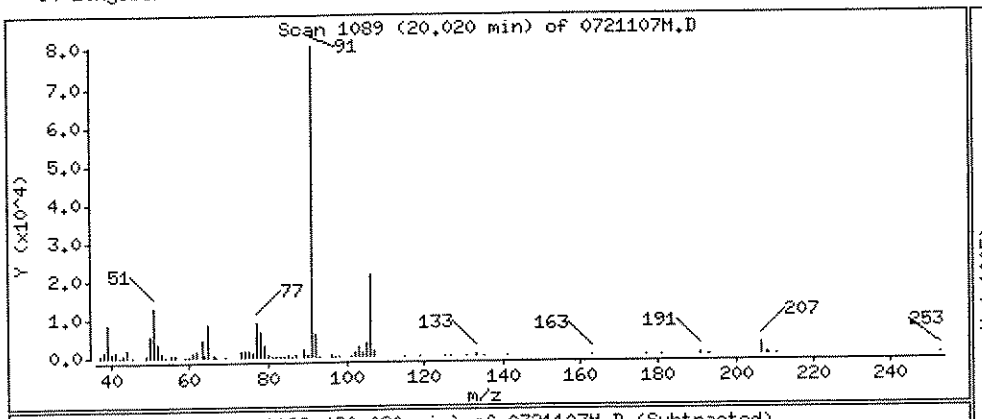
Operator: ADM

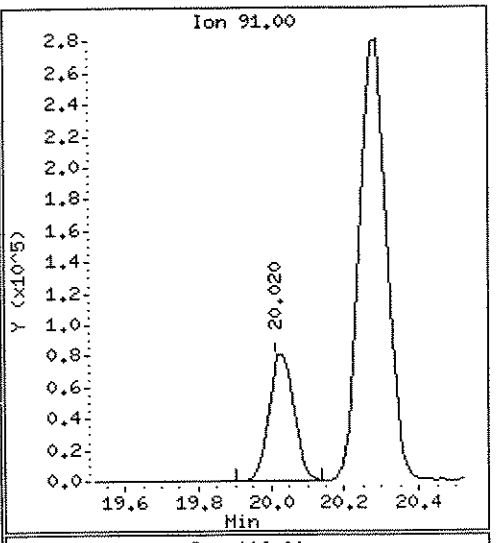
Column phase: DB-VRX

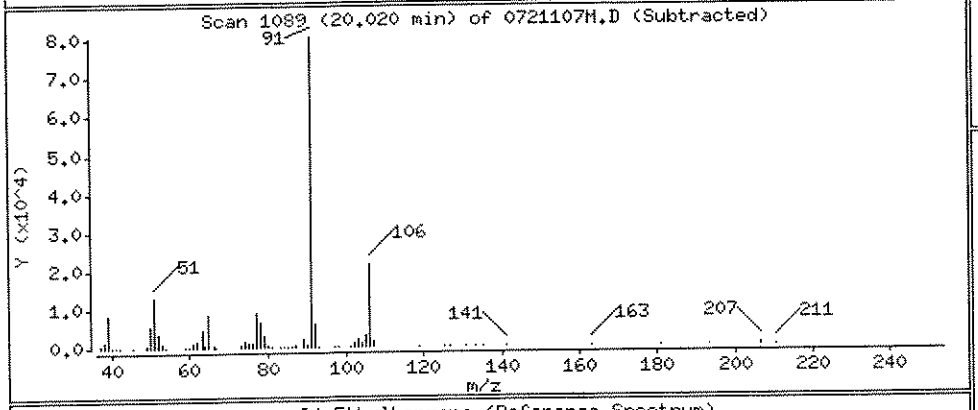
Column diameter: 0.25

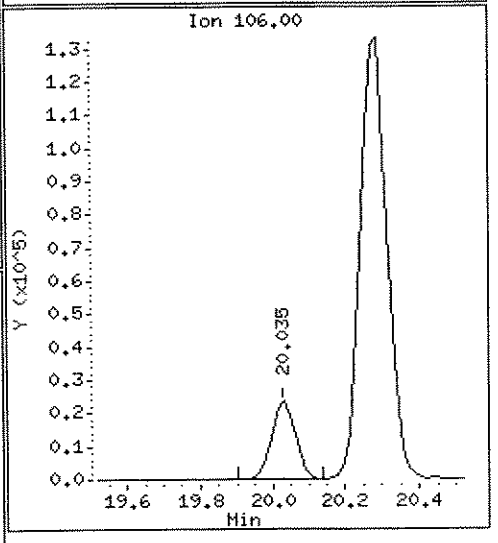
84 Ethylbenzene

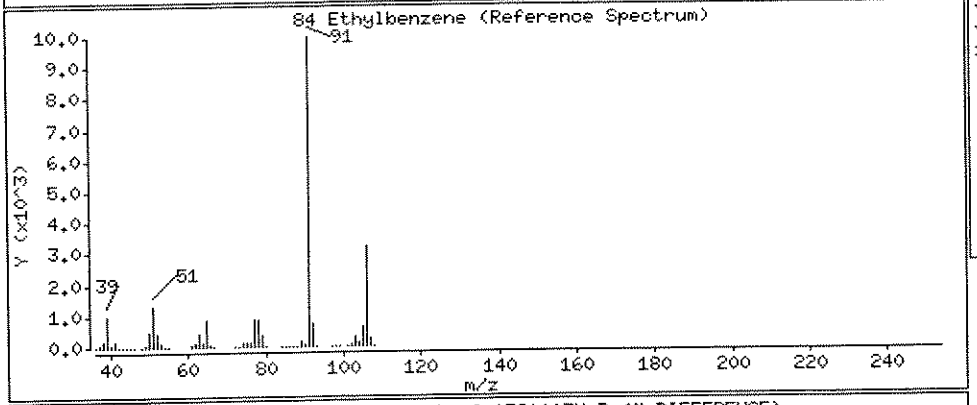
Concentration: 586.8 ug/Kg

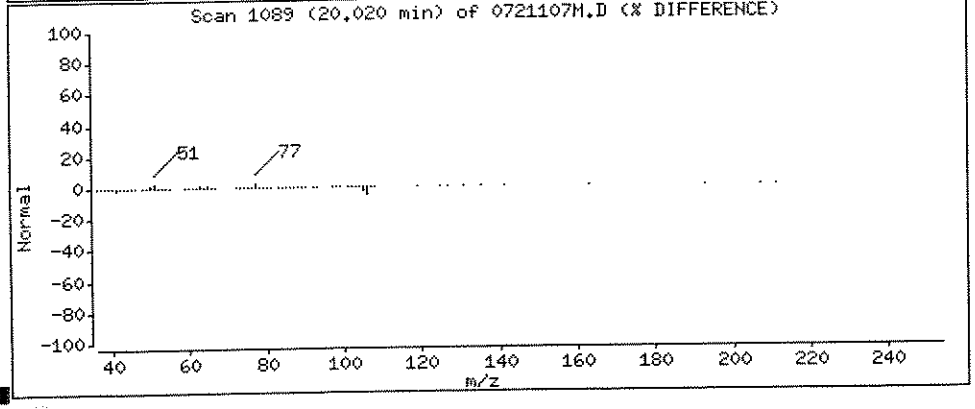












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D

Date : 26-JUL-2006 18:47

Client ID: 51CFM13S060725

Instrument: voa1.i

Sample Info: 0607211-07;;4.68;;;50x-100ul

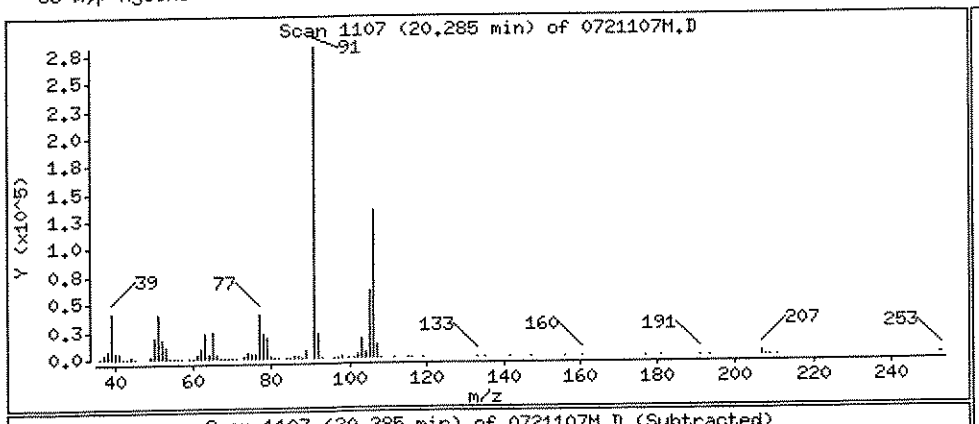
Operator: ADM

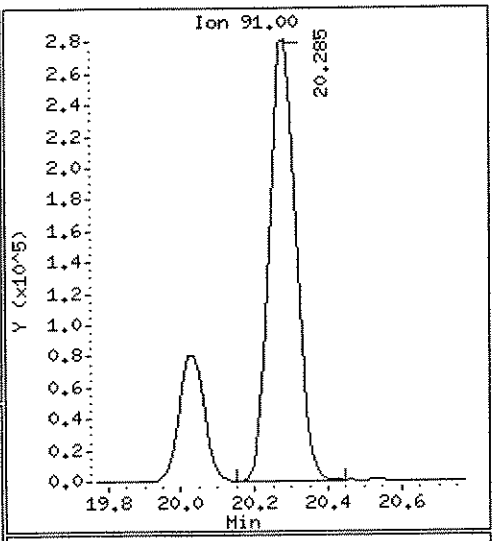
Column phase: DB-VRX

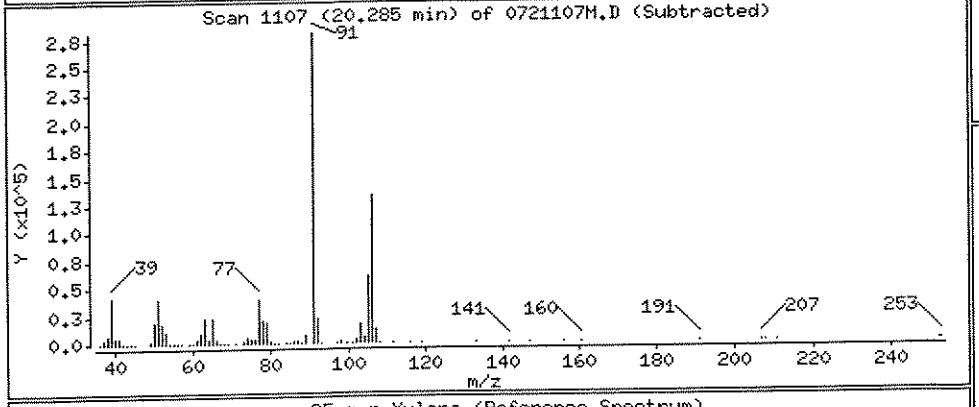
Column diameter: 0.25

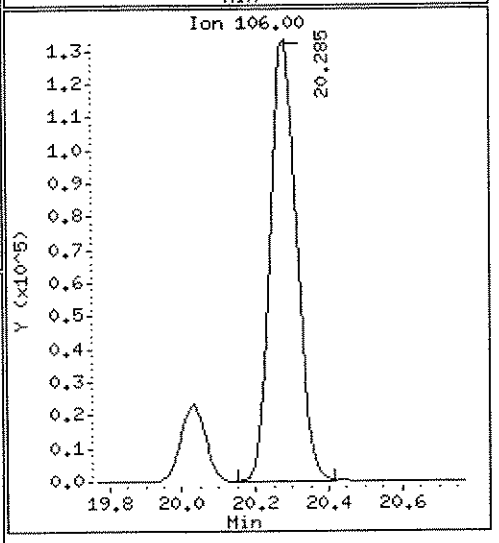
85 m,p-Xylene

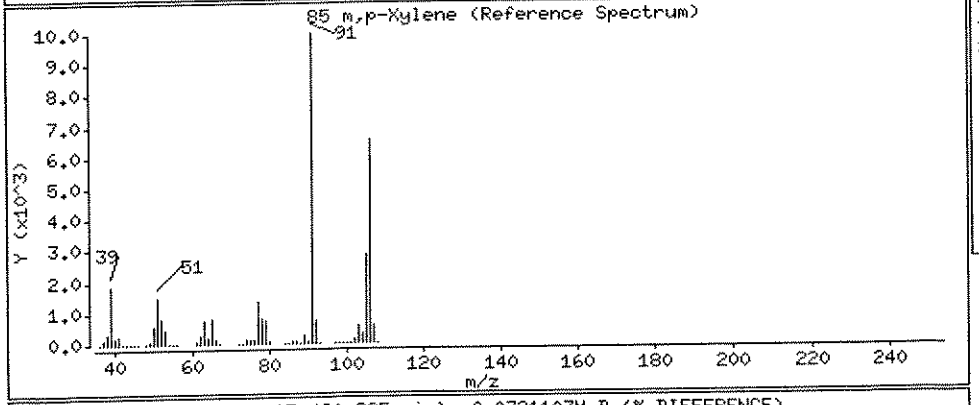
Concentration: 2866 ug/Kg

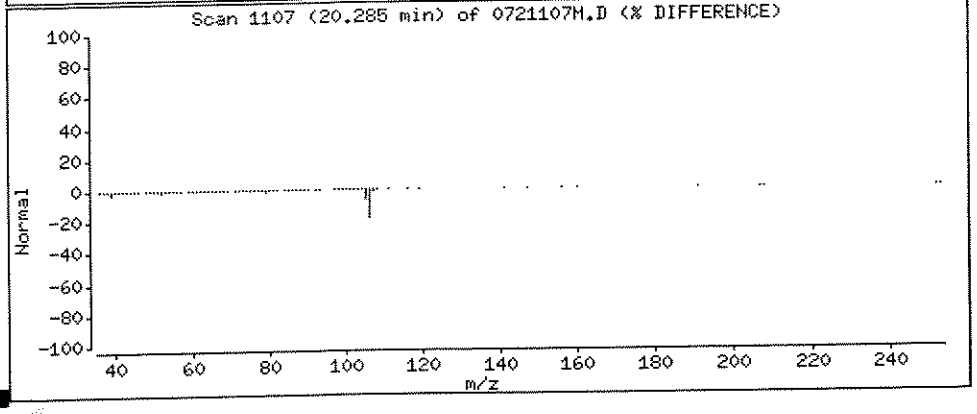












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721107M.D

Date : 26-JUL-2006 18:47

Client ID: 51CFM13S060725

Instrument: voa1.i

Sample Info: 0607211-07;;4.68;;;50x-100ul

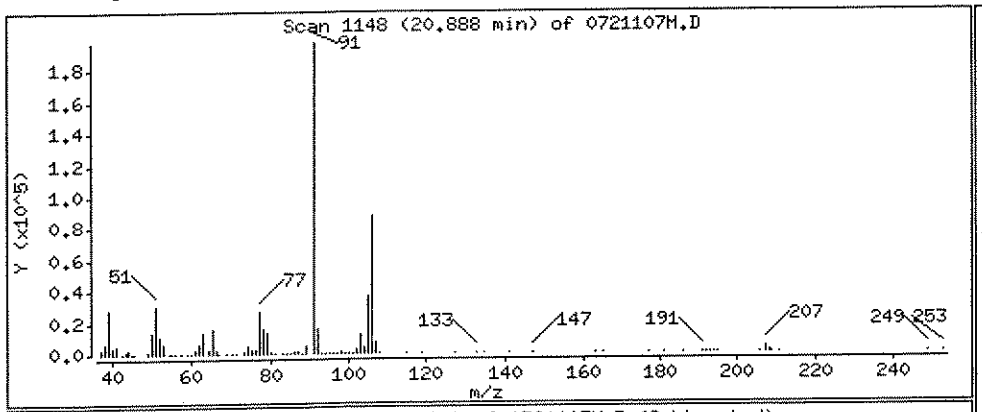
Operator: ADM

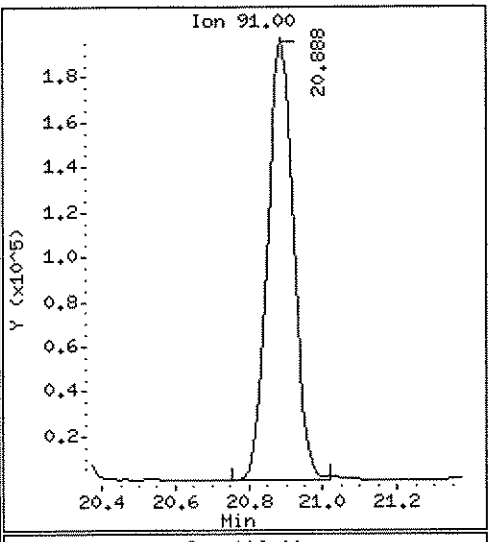
Column phase: DB-VRX

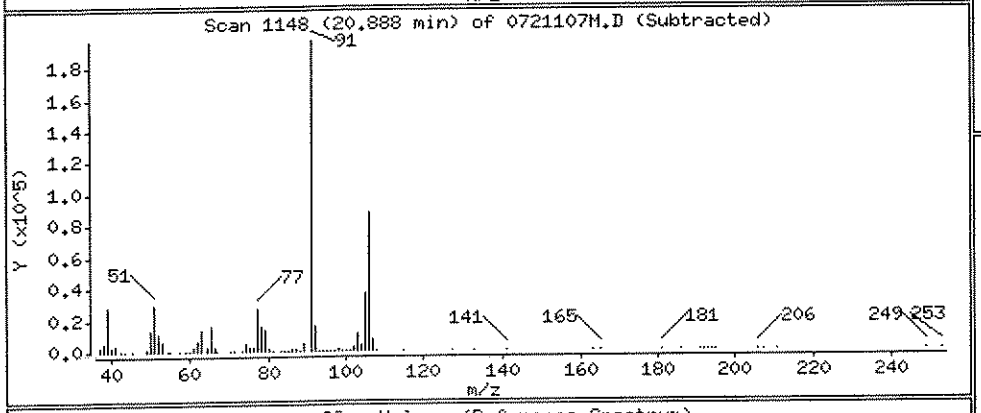
Column diameter: 0.25

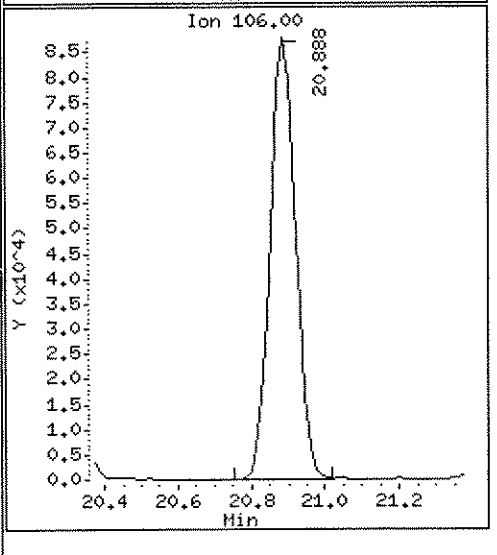
89 o-Xylene

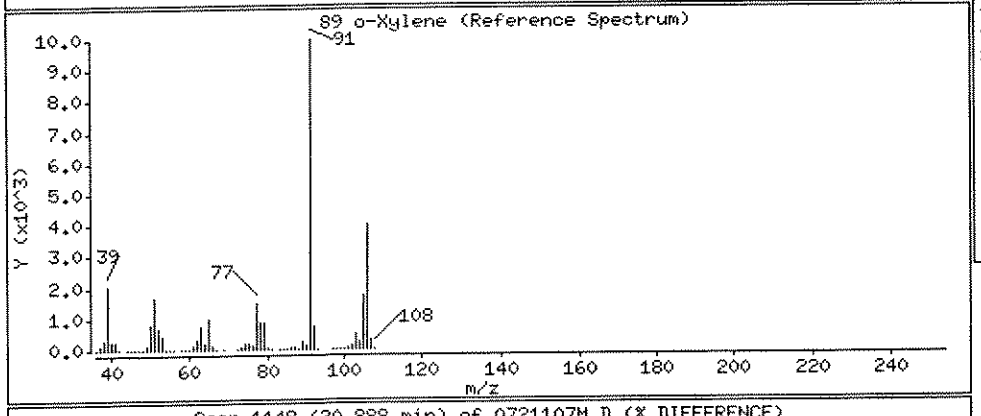
Concentration: 1848 ug/Kg

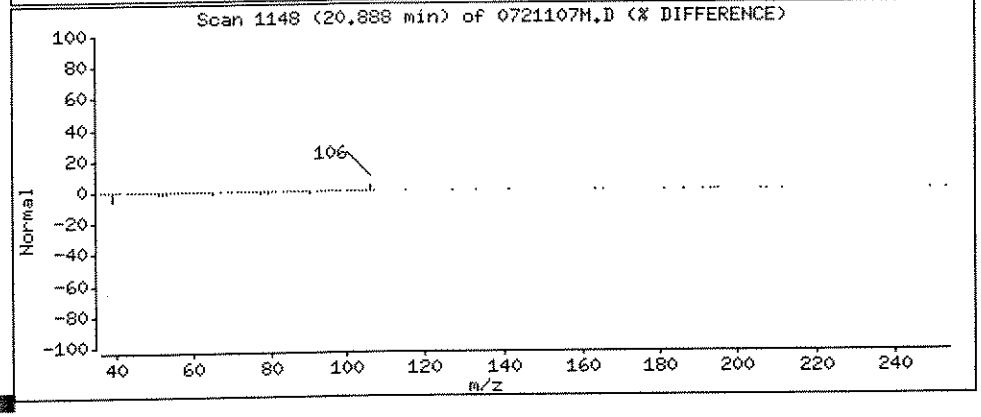












Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 0721108A

Level: (low/med) LOW Date Sampled: 07/25/06 16:50

% Moisture: not dec. 6 Date Analyzed: 07/26/06 19:23

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.40	4.3		U
100-41-4	Ethylbenzene	0.64	4.3		U
108-88-3	Toluene	0.74	4.3		U
1330-20-7	Xylene(total)	0.60	4.3		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721108A.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721108A.D
Lab Smp Id: 0607211-08 Client Smp ID: 51CFM14S060725
Inj Date : 26-JUL-2006 19:23 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-08;;6.24;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	6.240	Weight of sample extracted (g)
Solids	93.700	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	587922	30.0000		
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	166557	31.0457	26.55	
$ 48 1,2-Dichloroethane-d4	102	13.663	13.641	(0.920)	40870	28.2799	24.18	(Q)
$ 73 Toluene-d8	98	17.581	17.582	(0.890)	535515	31.2339	26.71	
$ 95 Bromofluorobenzene	95	21.489	21.483	(1.088)	240196	32.2767	27.60	
* 82 Chlorobenzene-d5	82	19.754	19.730	(1.000)	281393	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.462	23.445	(1.000)	204035	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721108A.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721108A.D
Lab Smp Id: 0607211-08 Client Smp ID: 51CFM14S060725
Inj Date : 26-JUL-2006 19:23 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-08;;6.24;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	6.240	Weight of sample extracted (g)
Solids	100.000	Percent Solids

m 7/27/06

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.851	14.847	(1.000)	587922	30.0000	
$ 44 Dibromofluoromethane	111	12.943	12.936	(0.872)	166557	31.0457	24.88
$ 48 1,2-Dichloroethane-d4	102	13.663	13.641	(0.920)	40870	28.2799	22.66(Q)
$ 73 Toluene-d8	98	17.581	17.582	(0.890)	535515	31.2339	25.03
$ 95 Bromofluorobenzene	95	21.489	21.483	(1.088)	240196	32.2767	25.86
* 82 Chlorobenzene-d5	82	19.754	19.730	(1.000)	281393	30.0000	(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.462	23.445	(1.000)	204035	30.0000	(Q)

QC Flag Legend

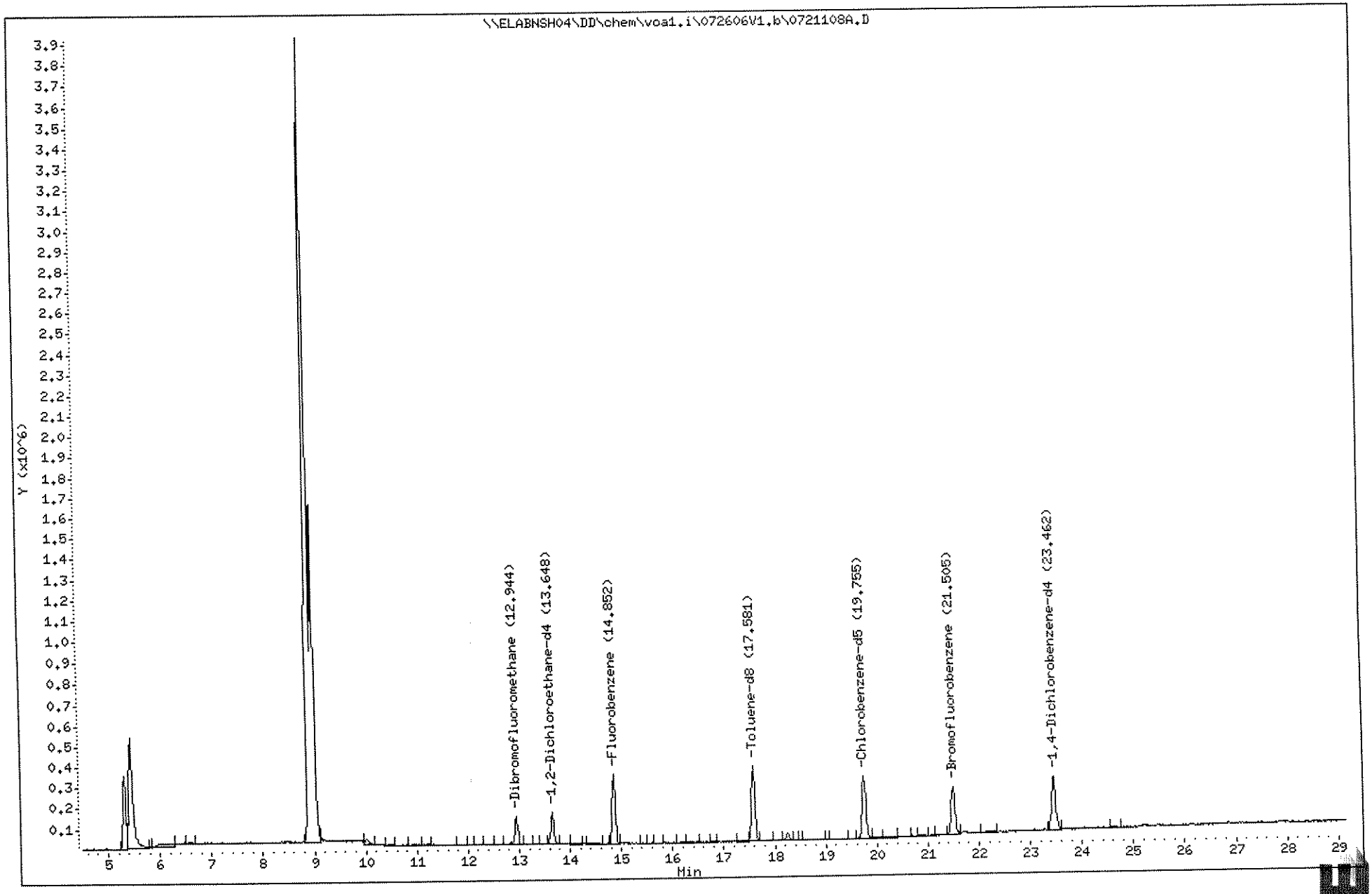
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721108A.D
Date : 26-JUL-2006 19:23
Client ID: 51CFM14S060725
Sample Info: 0607211-08;;6.24;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0721109M

Level: (low/med) MED Date Sampled: 07/25/06 17:05

% Moisture: not dec. 11 Date Analyzed: 07/26/06 19:59

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	230	2500		UD
100-41-4	Ethylbenzene	370	2500		UD
108-88-3	Toluene	420	2500		UD
1330-20-7	Xylene(total)	340	2500	24000	D

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Report Date: 27-Jul-2006 09:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 26-JUL-2006 19:59 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-09;;5.7;;;500x-10ul
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 09:41 arobinson Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 12
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.700	Weight of sample extracted (g)
Solids	89.100	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.850	14.847	(1.000)	538777	30.0000	
$ 44 Dibromofluoromethane	111	12.942	12.936	(0.872)	147955	30.0939	1481
$ 48 1,2-Dichloroethane-d4	102	13.646	13.641	(0.919)	36252	27.3726	1347(Q)
$ 73 Toluene-d8	98	17.578	17.582	(0.890)	492535	31.5802	1554
$ 95 Bromofluorobenzene	95	21.502	21.483	(1.089)	216304	31.9530	1573
* 82 Chlorobenzene-d5	82	19.752	19.730	(1.000)	255970	30.0000	(Q)
85 m,p-Xylene	91	20.310	20.275	(1.028)	141929	5.10599	2513
M 91 Xylene(total)	91				1435919	49.8863	24560
89 o-Xylene	91	20.899	20.879	(1.058)	1293990	44.9554	22130
* 106 1,4-Dichlorobenzene-d4	152	23.476	23.445	(1.000)	192360	30.0000	(Q)

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Report Date: 27-Jul-2006 09:43

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 26-JUL-2006 19:59 ICT.= 0540 7/27 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-09;;5.7;;;500x-10ul
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 12
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.700	Weight of sample extracted (g)
Solids	100.000	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

M 7/27/06 7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
*	56 Fluorobenzene	96	14.850	14.847	(1.000)	538777	30.0000	
$	44 Dibromofluoromethane	111	12.942	12.936	(0.872)	147955	30.0939	1320
$	48 1,2-Dichloroethane-d4	102	13.646	13.641	(0.919)	36252	27.3726	1200(Q)
$	73 Toluene-d8	98	17.578	17.582	(0.890)	492535	31.5802	1385
$	95 Bromofluorobenzene	95	21.502	21.483	(1.089)	216304	31.9530	1401
*	82 Chlorobenzene-d5	82	19.752	19.730	(1.000)	255970	30.0000	(Q)
	85 m,p-Xylene	91	20.310	20.275	(1.028)	141929	5.10599	2239
M	91 Xylene(total)	91				1435919	49.8863	21880
	89 o-Xylene	91	20.899	20.879	(1.058)	1293990	44.9554	19720
*	106 1,4-Dichlorobenzene-d4	152	23.476	23.445	(1.000)	192360	30.0000	(Q)

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Report Date: 27-Jul-2006 06:14

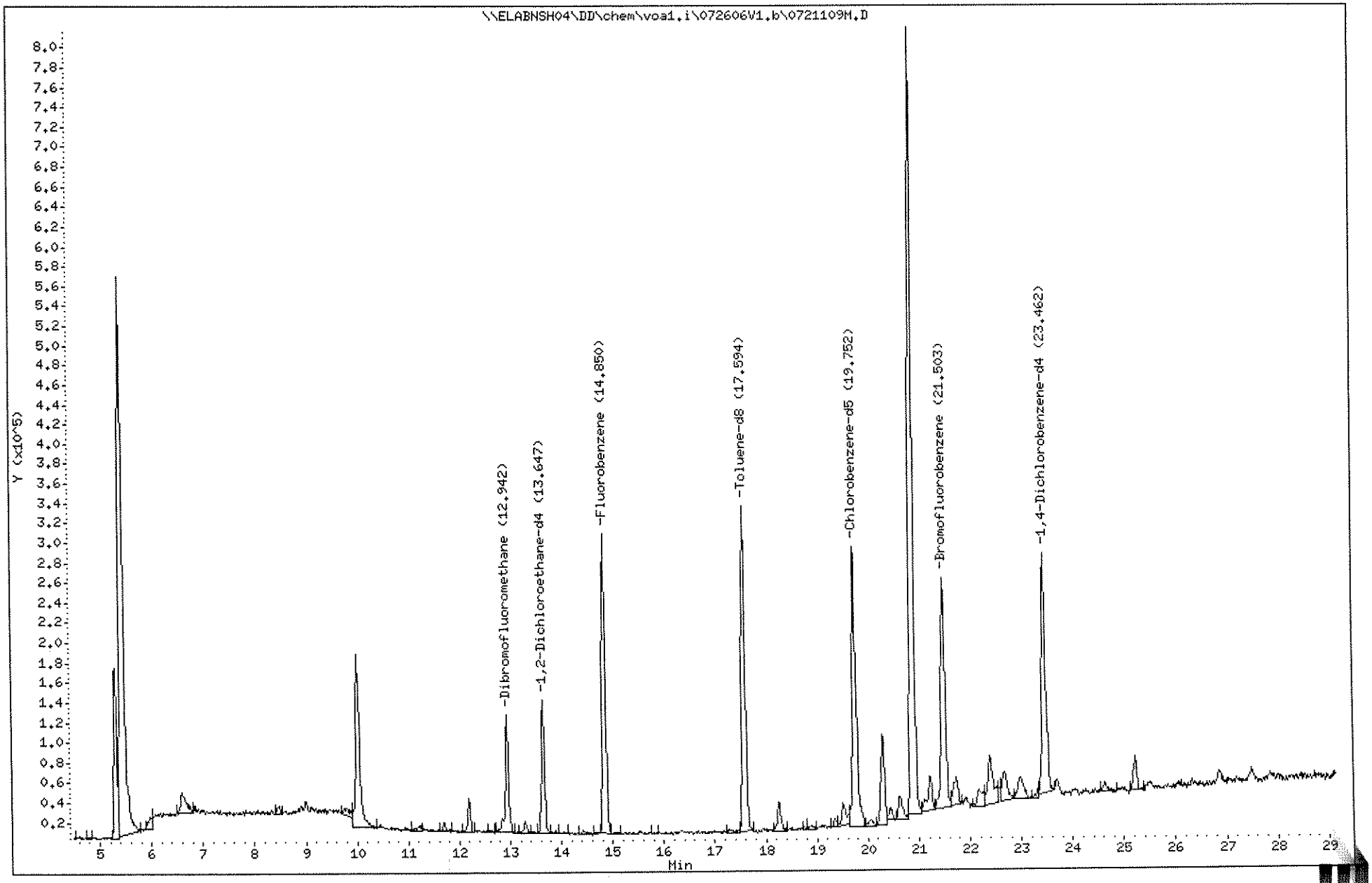
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D
Date : 26-JUL-2006 19:59
Client ID: 51CFM15S060725
Sample Info: 0607211-09;;5.7;;;500x-10ul

Instrument: voa1.i

Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25



000071

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606W1.b\0721109M.D

Date : 26-JUL-2006 19:59

Client ID: 51CFM15S060725

Instrument: voa1.i

Sample Info: 0607211-09;;5.7;;;500x-10ul

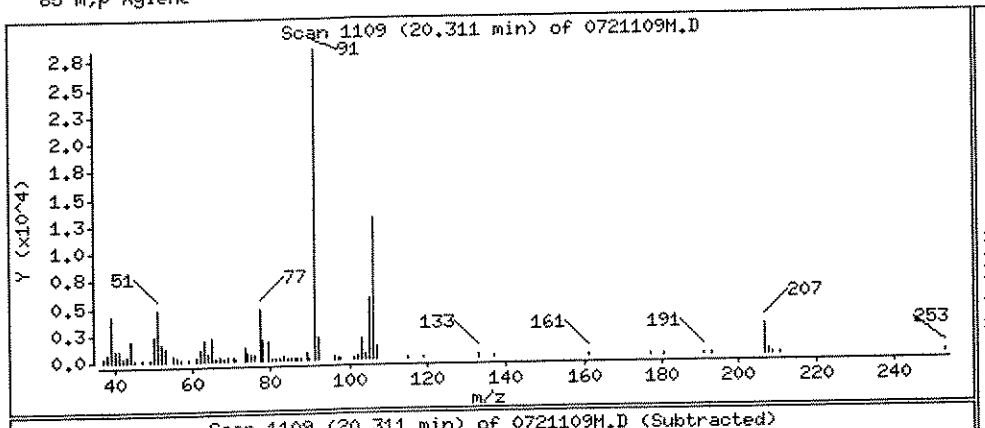
Operator: ADM

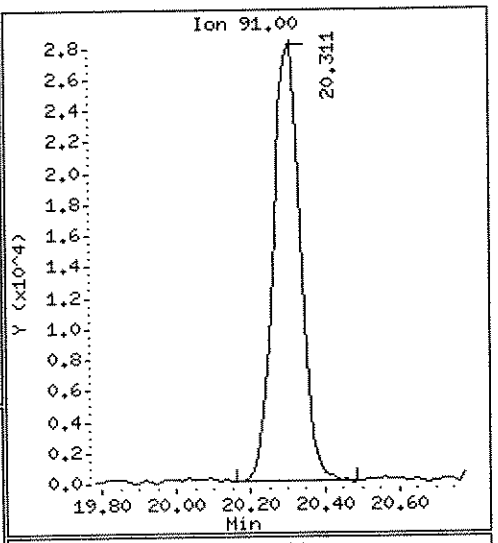
Column phase: DB-VRX

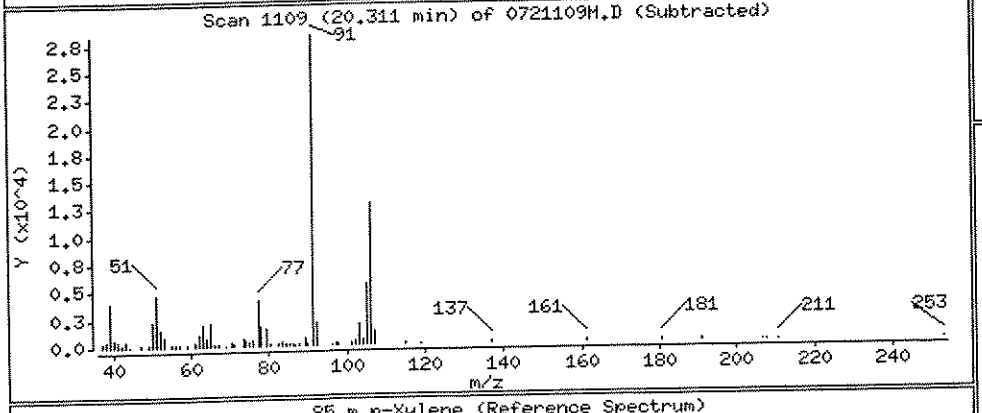
Column diameter: 0.25

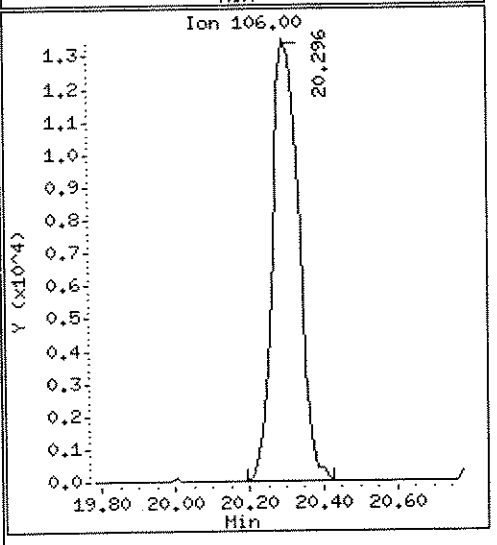
Concentration: 2239 ug/Kg

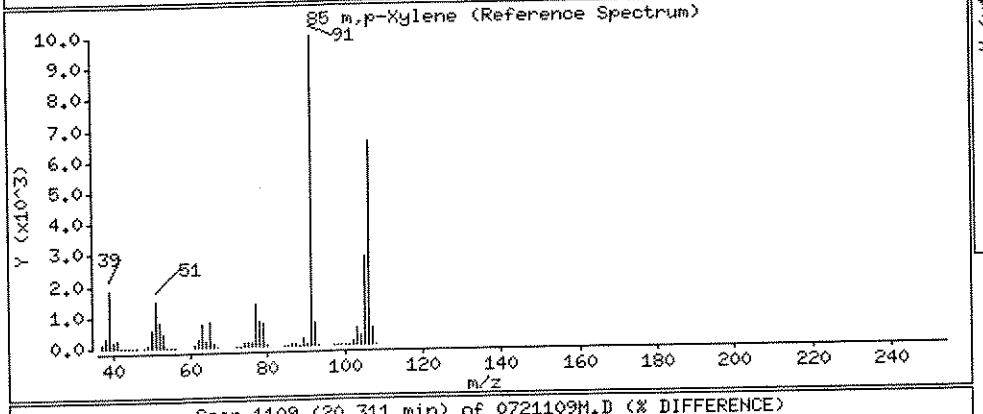
85 m,p-Xylene

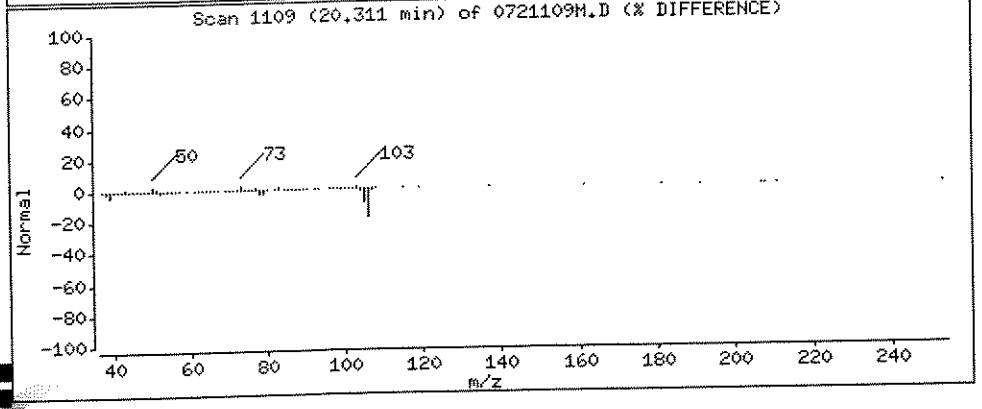












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\0721109M.D

Date : 26-JUL-2006 19:59

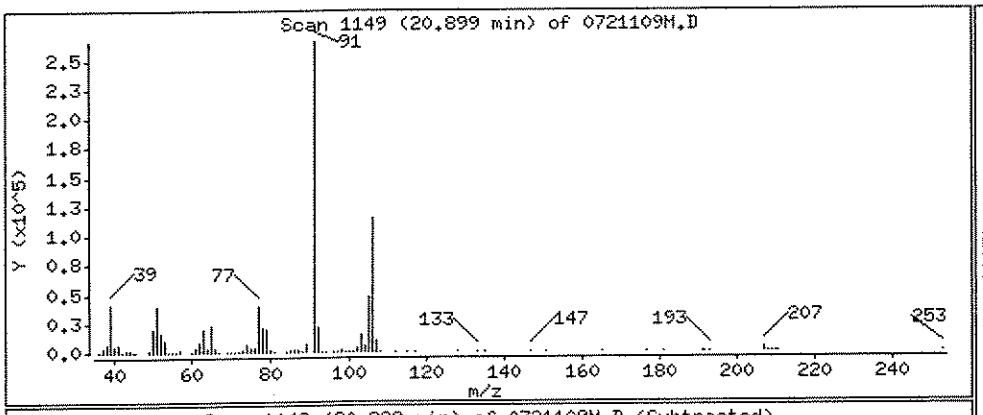
Client ID: 51CFM15S060725 Instrument: voa1.i

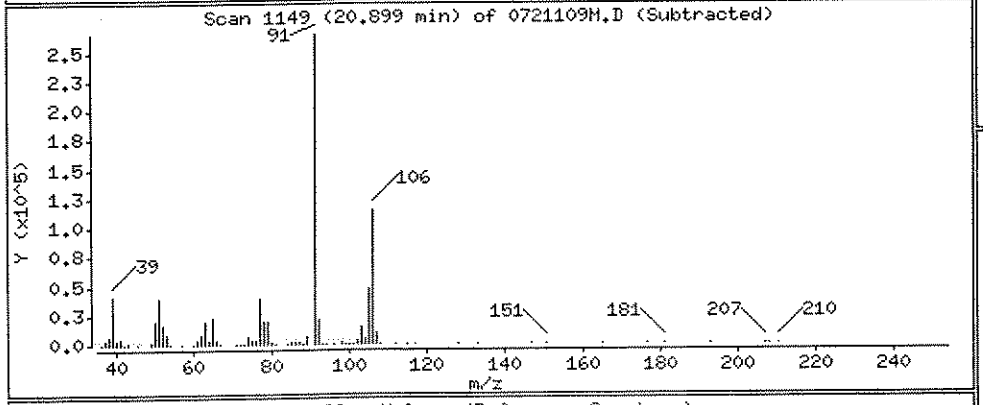
Sample Info: 0607211-09;;5.7;;;500x-10ul

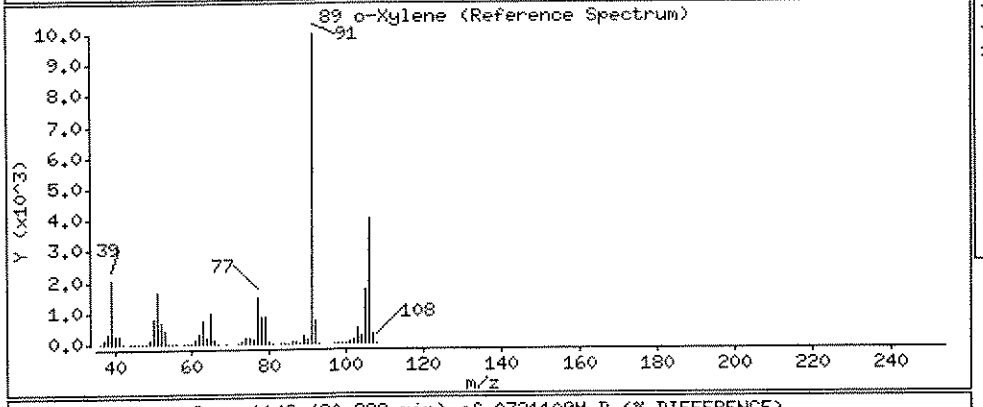
Operator: ADM

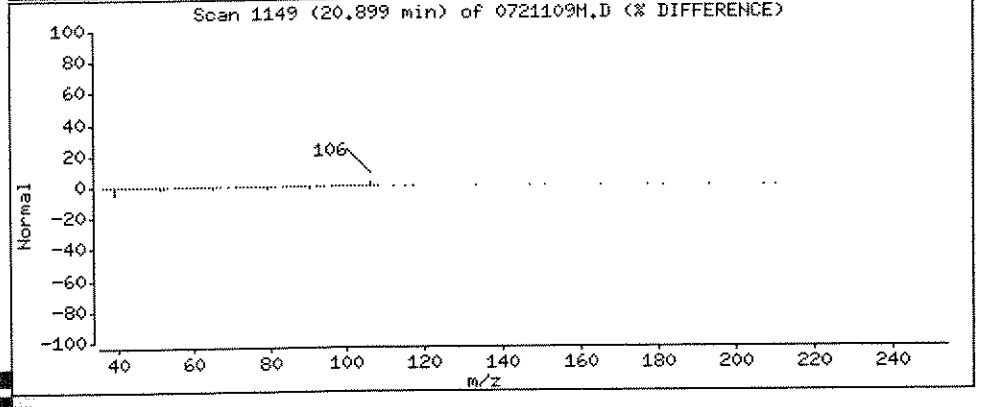
Column phase: DB-VRX Column diameter: 0.25

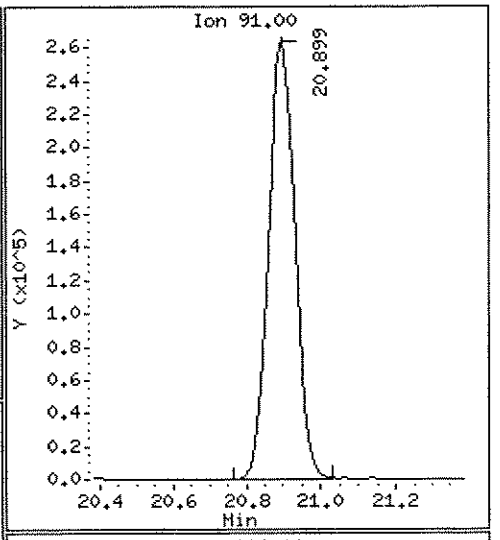
89 o-Xylene Concentration: 19720 ug/Kg

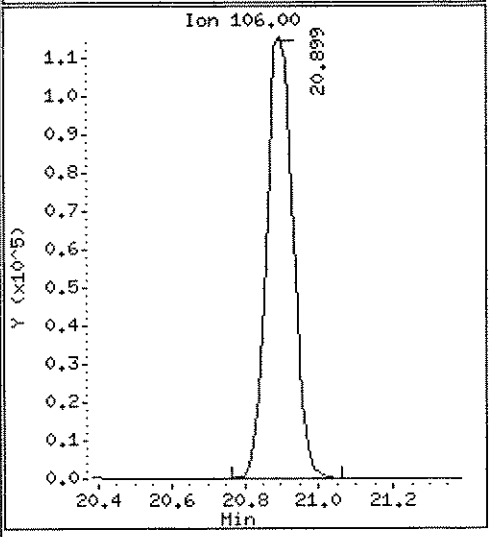












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 0721110A

Level: (low/med) LOW Date Sampled: 07/25/06 17:15

% Moisture: not dec. 8 Date Analyzed: 07/27/06 08:05

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721110A.D
Report Date: 27-Jul-2006 11:30

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721110A.D
Lab Smp Id: 0607211-10 Client Smp ID: 51CFM16S060725
Inj Date : 27-JUL-2006 08:05 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-10;;5.43;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.430	Weight of sample extracted (g)
Solids	92.200	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.834	14.839	(1.000)	516847	30.0000		
$ 44 Dibromofluoromethane	111	12.926	12.930	(0.871)	149513	31.7012	31.66	
$ 48 1,2-Dichloroethane-d4	102	13.631	13.634	(0.919)	41044	32.3059	32.26	
$ 73 Toluene-d8	98	17.563	17.556	(0.890)	474818	31.2602	31.22	
$ 95 Bromofluorobenzene	95	21.469	21.483	(1.088)	213574	32.3953	32.35	
* 82 Chlorobenzene-d5	82	19.735	19.731	(1.000)	249289	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.440	23.429	(1.000)	182472	30.0000		(Q)

QC Flag Legend

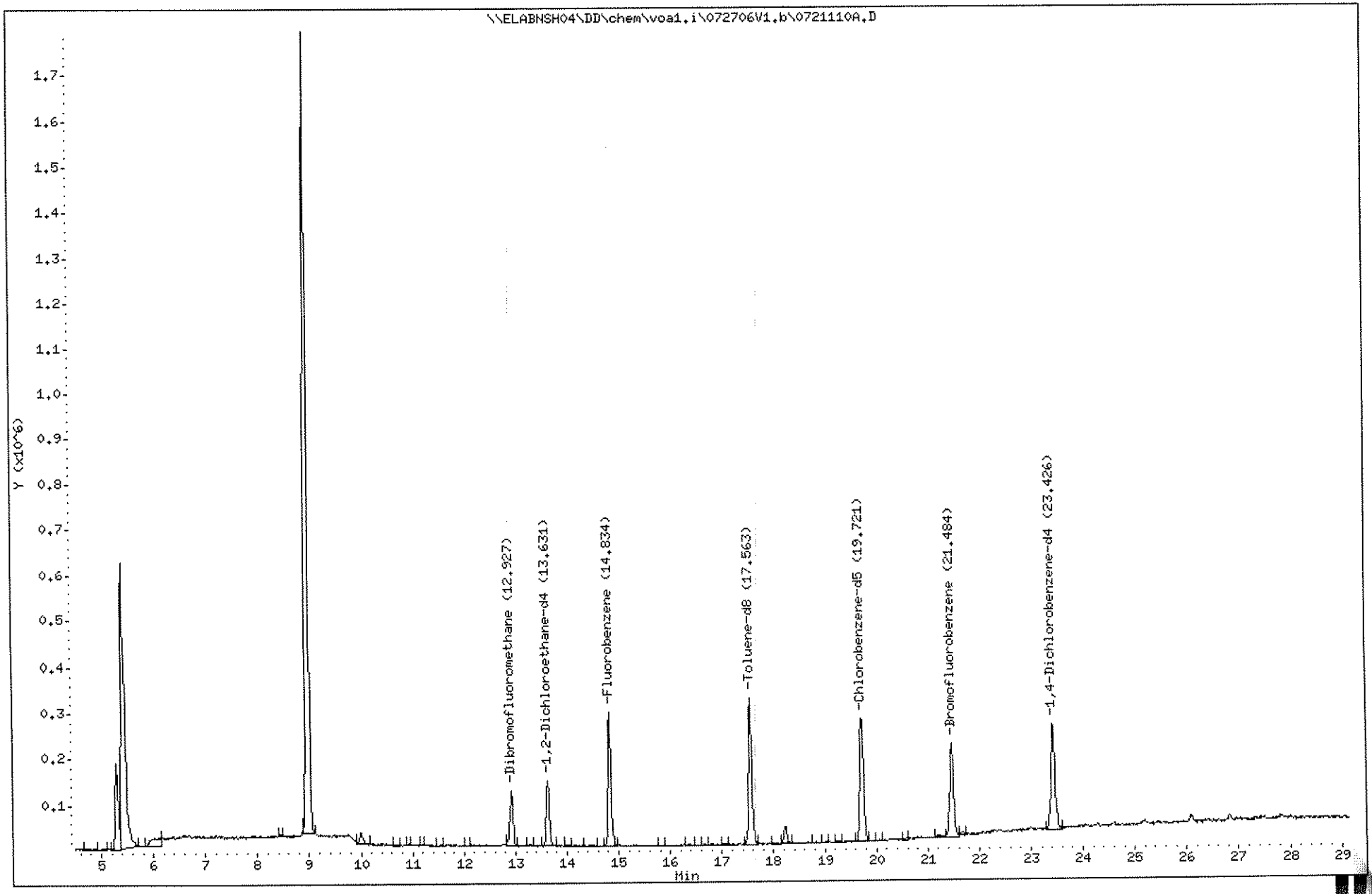
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721110A.D
Date : 27-JUL-2006 08:05
Client ID: 51CFM16S060725
Sample Info: 0607211-10;;5.43;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 4.4 (g/mL) G Lab File ID: 0721111A

Level: (low/med) LOW Date Sampled: 07/25/06 17:25

% Moisture: not dec. 9 Date Analyzed: 07/27/06 08:41

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.59	6.3		U
100-41-4	Ethylbenzene	0.94	6.3		U
108-88-3	Toluene	1.1	6.3		U
1330-20-7	Xylene(total)	0.88	6.3		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721111A.D
Report Date: 27-Jul-2006 11:30

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721111A.D
Lab Smp Id: 0607211-11 Client Smp ID: 51CFM17S060725
Inj Date : 27-JUL-2006 08:41 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-11;;4.37;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	4.370	Weight of sample extracted (g)
Solids	91.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.833	14.839	(1.000)	506198	30.0000		
$ 44 Dibromofluoromethane	111	12.926	12.930	(0.871)	142849	30.9254	38.88	
$ 48 1,2-Dichloroethane-d4	102	13.630	13.634	(0.919)	37290	29.9685	37.68	
$ 73 Toluene-d8	98	17.562	17.556	(0.891)	466888	31.7192	39.88	
$ 95 Bromofluorobenzene	95	21.482	21.483	(1.089)	208128	32.5769	40.96	
* 82 Chlorobenzene-d5	82	19.719	19.731	(1.000)	241578	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.440	23.429	(1.000)	187221	30.0000		(Q)

QC Flag Legend

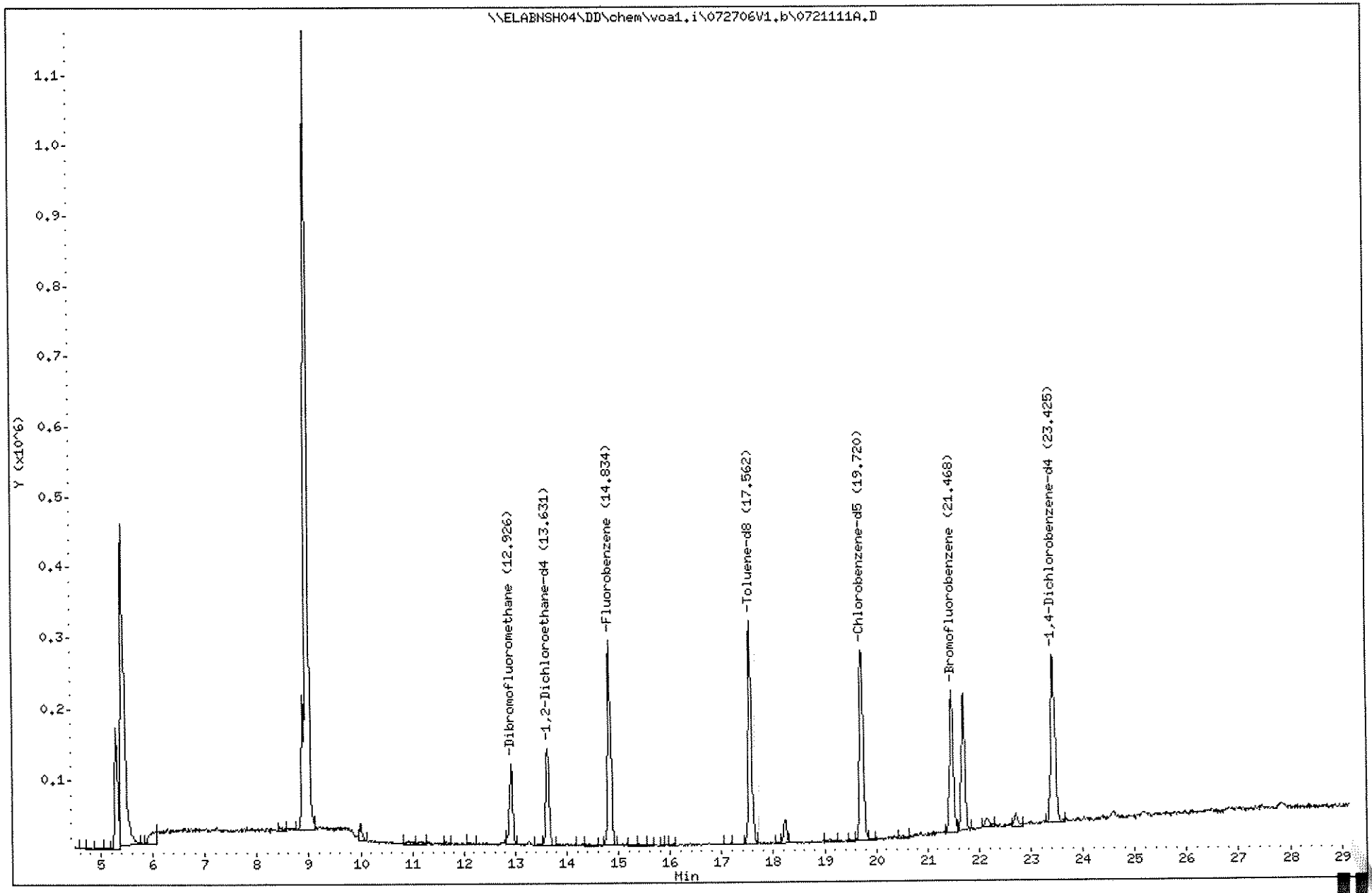
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721111A.D
Date : 27-JUL-2006 08:41
Client ID: 51CFM17S060725
Sample Info: 0607211-11;;4.37;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0721112A

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. 6 Date Analyzed: 07/27/06 09:17

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.46	4.9		U
100-41-4	Ethylbenzene	0.74	4.9		U
108-88-3	Toluene	0.85	4.9		U
1330-20-7	Xylene(total)	0.69	4.9		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721112A.D
Report Date: 27-Jul-2006 11:30

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721112A.D
Lab Smp Id: 0607211-12 Client Smp ID: 51DUP1S060725
Inj Date : 27-JUL-2006 09:17 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-12;;5.35;;;
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.350	Weight of sample extracted (g)
Solids	94.500	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.832	14.839	(1.000)	498186	30.0000		
$ 44 Dibromofluoromethane	111	12.925	12.930	(0.871)	141171	31.0536	30.71	
$ 48 1,2-Dichloroethane-d4	102	13.629	13.634	(0.919)	38947	31.8036	31.45	
$ 73 Toluene-d8	98	17.561	17.556	(0.891)	465063	31.1315	30.79	
$ 95 Bromofluorobenzene	95	21.466	21.483	(1.089)	212380	32.7544	32.39	
* 82 Chlorobenzene-d5	82	19.718	19.731	(1.000)	245177	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.438	23.429	(1.000)	180184	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

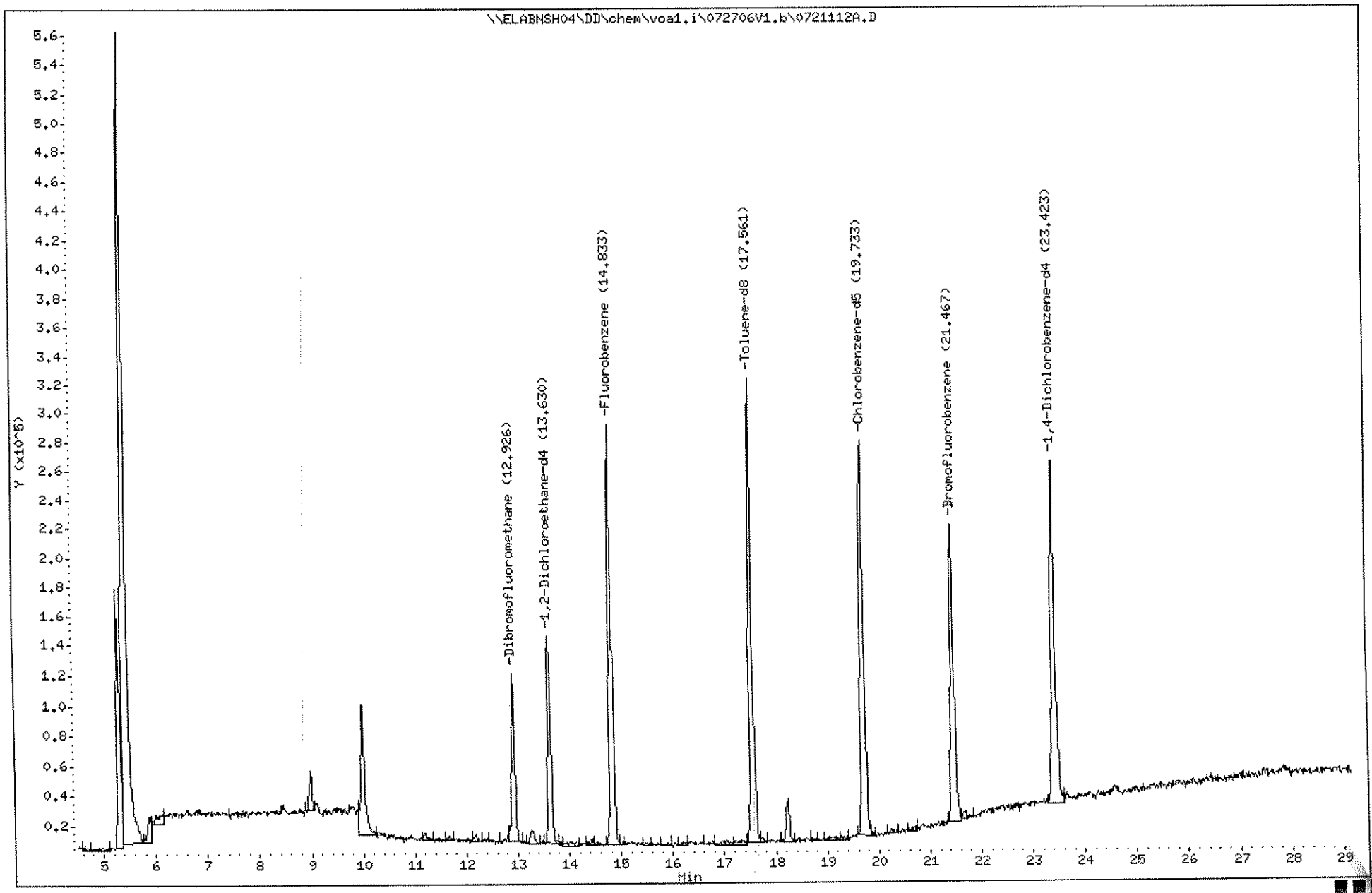
Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\0721112A.D
Date : 27-JUL-2006 09:17
Client ID: 51DUP1S060725
Sample Info: 0607211-12;;5.35;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000082



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-13

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721113

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 12:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721113.D
Report Date: 27-Jul-2006 08:56

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721113.D
Lab Smp Id: 0607211-13 Client Smp ID: 51TB3W060725
Inj Date : 26-JUL-2006 12:31 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : 0607211-13;;;;;; tb
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 27-Jul-2006 08:56 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

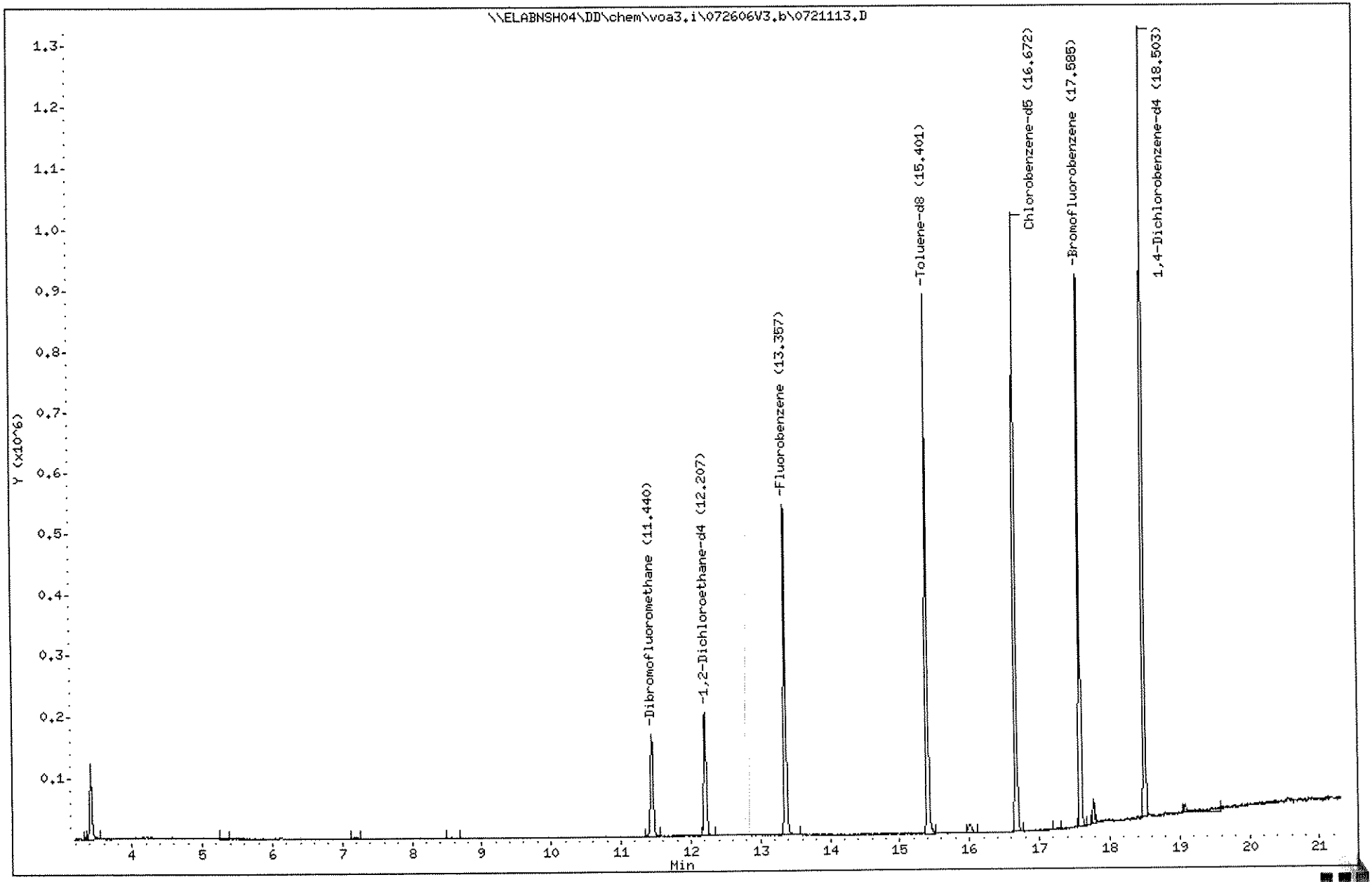
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	538079	30.0000		
$ 49 Dibromofluoromethane	111	11.440	11.446	(0.857)	151505	31.8831	31.88	
$ 52 1,2-Dichloroethane-d4	102	12.206	12.207	(0.914)	31444	30.4795	30.48	
$ 76 Toluene-d8	98	15.400	15.400	(0.924)	617831	29.2228	29.22	
$ 97 Bromofluorobenzene	95	17.584	17.584	(1.055)	305250	30.7267	30.73	
* 86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	304343	30.0000		(Q)
* 110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	349203	30.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721113.D
Date : 26-JUL-2006 12:31
Client ID: 51TB3W060725
Instrument: voa3.i
Sample Info: 0607211-13;;;;;; tb
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000085



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51TB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0721114

Level: (low/med) LOW Date Sampled: 07/25/06 :

% Moisture: not dec. _____ Date Analyzed: 07/26/06 13:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721114.D
Report Date: 27-Jul-2006 08:56

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721114.D
Lab Smp Id: 0607211-14 Client Smp ID: 51TB4W060725
Inj Date : 26-JUL-2006 13:00 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : 0607211-14;;;;;; tb
Misc Info : ch2.v07211;0;;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 27-Jul-2006 08:56 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	539562	30.0000		
$ 49 Dibromofluoromethane	111	11.446	11.446	(0.857)	152049	31.9096	31.91	
$ 52 1,2-Dichloroethane-d4	102	12.206	12.207	(0.914)	31943	30.8781	30.88	
$ 76 Toluene-d8	98	15.400	15.400	(0.924)	614057	28.7917	28.79	
$ 97 Bromofluorobenzene	95	17.584	17.584	(1.055)	299259	29.8617	29.86	
* 86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	307013	30.0000		(Q)
* 110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	355820	30.0000		

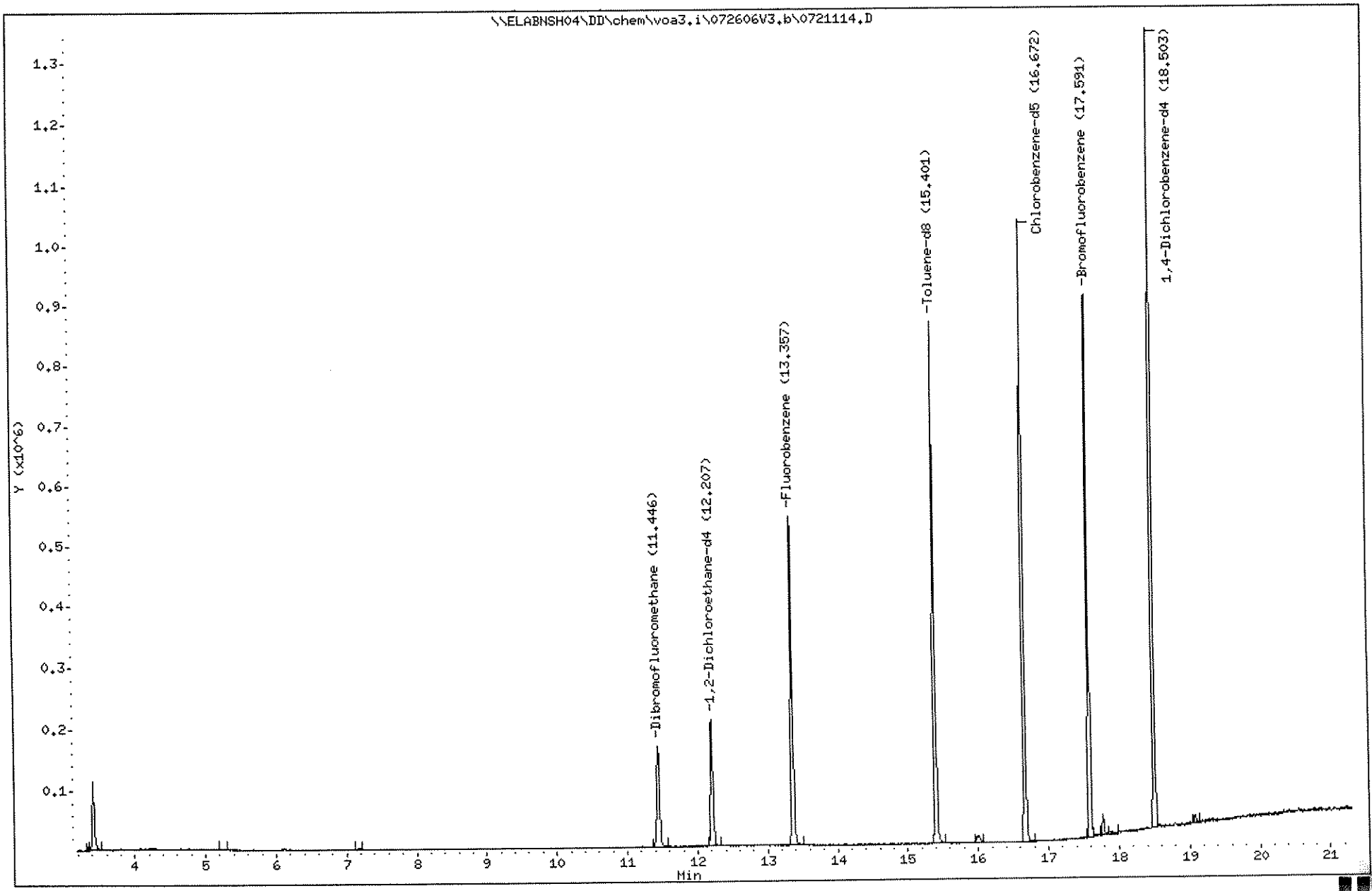
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\0721114.D
Date : 26-JUL-2006 13:00
Client ID: 51TB4W060725
Sample Info: 0607211-14;;;;;; tb
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa3.i
Operator: ADM
Column diameter: 0.25

000088



Empirical Laboratories

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetone	0.599	0.429	0.368	0.376	0.361
Acrolein	0.131	0.120	0.118	0.134	0.126
Acrylonitrile	0.211	0.198	0.186	0.199	0.188
Benzene	2.130	1.917	1.833	2.060	1.934
Bromobenzene	1.414	1.235	1.203	1.440	1.326
Bromochloromethane	0.237	0.234	0.236	0.252	0.246
Bromodichloromethane	0.679	0.659	0.638	0.742	0.689
Bromoform	0.807	0.773	0.764	0.899	0.884
Bromomethane	0.403	0.386	0.309	0.364	0.368
2-Butanone	0.630	0.463	0.433	0.470	0.440
n-Butylbenzene	5.653	5.193	4.923	5.671	5.291
sec-Butylbenzene	6.870	6.419	6.249	7.240	6.687
tert-Butylbenzene	4.384	3.930	3.740	4.472	4.111
Carbon disulfide	1.884	1.763	1.714	1.916	1.884
Carbon tetrachloride	0.385	0.437	0.447	0.563	0.561
Chlorobenzene	2.527	2.349	2.313	2.615	2.327
Chloroethane	0.423	0.379	0.380	0.441	0.436
2-Chloroethyl vinyl ether					
Chloroform	1.055	0.922	0.917	0.990	0.936
Chloromethane	0.794	0.691	0.724	0.840	0.850
2-Chlorotoluene	4.782	4.928	4.340	5.398	4.881
4-Chlorotoluene	5.954	4.920	4.882	5.851	5.718
Cyclohexane	1.194	1.052	1.019	1.117	1.060
Dibromochloromethane	0.920	0.877	0.862	1.006	0.894
1,2-Dibromo-3-chloropropane	0.296	0.308	0.286	0.339	0.309
1,2-Dibromoethane	0.973	0.905	0.941	1.000	0.910
Dibromomethane	0.330	0.314	0.302	0.356	0.328
1,2-Dichlorobenzene	2.458	2.203	2.147	2.445	2.254
1,3-Dichlorobenzene	2.475	2.788	2.791	2.643	2.376
1,4-Dichlorobenzene	3.157	2.270	2.376	2.866	2.452
Dichlorodifluoromethane	0.613	0.579	0.556	0.702	0.672
1,1-Dichloroethane	1.139	1.059	0.994	1.113	1.062
1,2-Dichloroethane	0.880	0.845	0.810	0.873	0.839
1,1-Dichloroethene	0.452	0.454	0.392	0.450	0.438
cis-1,2-Dichloroethene	0.583	0.509	0.509	0.576	0.532
trans-1,2-Dichloroethene	0.496	0.483	0.468	0.539	0.516
1,2-Dichloroethene(total)	0.540	0.496	0.488	0.558	0.524

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
1,2-Dichloropropane	0.630	0.599	0.547	0.613	0.584
1,3-Dichloropropane	2.068	1.788	1.811	1.931	1.734
2,2-Dichloropropane	0.898	0.782	0.784	0.870	0.844
1,1-Dichloropropene	0.790	0.769	0.723	0.810	0.766
cis-1,3-Dichloropropene	0.937	0.864	0.860	0.953	0.908
trans-1,3-Dichloropropene	1.728	1.619	1.708	1.875	1.669
Ethylbenzene	4.664	4.573	4.452	4.889	4.403
Ethyl methacrylate	1.777	1.588	1.561	1.645	1.499
Hexachlorobutadiene	0.849	0.757	0.752	0.844	0.792
2-Hexanone	1.417	1.192	1.232	1.351	1.185
Iodomethane	0.458	0.474	0.433	0.537	0.571
Isopropylbenzene	4.604	4.135	4.043	4.446	4.045
p-Isopropyltoluene	5.345	4.841	4.605	5.331	4.986
Methyl acetate	0.715	0.573	0.482	0.508	0.460
Methyl cyclohexane	0.944	0.869	0.856	0.956	0.896
Methylene chloride	2.106	1.056	0.797	0.694	0.580
Methyl methacrylate	0.710	0.638	0.612	0.699	0.668
4-Methyl-2-pentanone	0.883	0.769	0.722	0.814	0.747
MTBE	1.710	1.547	1.485	1.641	1.541
Naphthalene	5.392	4.360	4.009	4.459	3.991
n-Propylbenzene	7.960	7.454	7.074	8.356	7.737
Styrene	2.943	2.737	2.725	3.003	2.745
1,1,1,2-Tetrachloroethane	0.894	0.816	0.798	0.922	0.836
1,1,2,2-Tetrachloroethane	2.032	1.772	1.716	1.964	1.772
Tetrachloroethene	0.964	0.891	0.869	0.986	0.890
Tetrahydrofuran	0.248	0.259	0.225	0.220	0.222
Toluene	2.862	2.492	2.366	2.564	2.289
1,2,3-Trichlorobenzene	1.658	1.376	1.322	1.480	1.407
1,2,4-Trichlorobenzene	1.679	1.477	1.396	1.540	1.526
1,1,1-Trichloroethane	0.735	0.728	0.700	0.801	0.762
1,1,2-Trichloroethane	0.926	0.801	0.760	0.863	0.748
Trichloroethene	0.554	0.496	0.481	0.539	0.506
Trichlorofluoromethane	0.777	0.748	0.677	0.799	0.739
Trichlorotrifluoroethane	0.461	0.482	0.450	0.511	0.495
1,2,3-Trichloropropane	0.445	0.358	0.358	0.412	0.352
1,2,4-Trimethylbenzene	4.879	4.607	4.278	5.238	4.736
1,3,5-Trimethylbenzene	4.785	4.591	4.389	5.098	4.716

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
Vinyl acetate	1.520	1.496	1.454	1.672	1.593
Vinyl chloride	0.565	0.597	0.588	0.736	0.717
Xylene(total)	3.949	3.468	3.454	3.774	3.391
Dibromofluoromethane	0.275	0.272	0.276	0.280	0.275
1,2-Dichloroethane-d4	0.074	0.074	0.072	0.074	0.071
Toluene-d8	1.939	1.924	1.936	1.916	1.822
Bromofluorobenzene	0.853	0.846	0.858	0.811	0.786

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
Acetone	0.363	0.356
Acrolein	0.130	0.123
Acrylonitrile	0.179	0.177
Benzene	1.819	1.738
Bromobenzene	1.310	1.243
Bromochloromethane	0.236	0.229
Bromodichloromethane	0.667	0.668
Bromoform	0.911	0.883
Bromomethane	0.371	0.376
2-Butanone	0.443	0.433
n-Butylbenzene	5.144	4.792
sec-Butylbenzene	6.543	6.172
tert-Butylbenzene	4.032	3.816
Carbon disulfide	1.773	1.697
Carbon tetrachloride	0.561	0.558
Chlorobenzene	2.139	1.820
Chloroethane	0.421	0.402
2-Chloroethyl vinyl ether		
Chloroform	0.879	0.845
Chloromethane	0.791	0.771
2-Chlorotoluene	4.894	4.658
4-Chlorotoluene	5.470	5.104
Cyclohexane	1.000	0.951
Dibromochloromethane	0.830	0.744
1,2-Dibromo-3-chloropropane	0.334	0.331
1,2-Dibromoethane	0.846	0.735
Dibromomethane	0.323	0.316
1,2-Dichlorobenzene	2.248	2.144
1,3-Dichlorobenzene	2.414	2.324
1,4-Dichlorobenzene	2.726	2.588
Dichlorodifluoromethane	0.627	0.614
1,1-Dichloroethane	1.001	0.952
1,2-Dichloroethane	0.794	0.780
1,1-Dichloroethene	0.412	0.389
cis-1,2-Dichloroethene	0.501	0.489
trans-1,2-Dichloroethene	0.486	0.466
1,2-Dichloroethene(total)	0.494	0.477

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
1,2-Dichloropropane	0.554	0.530
1,3-Dichloropropane	1.578	1.349
2,2-Dichloropropane	0.802	0.787
1,1-Dichloropropene	0.730	0.702
cis-1,3-Dichloropropene	0.872	0.853
trans-1,3-Dichloropropene	1.560	1.344
Ethylbenzene	3.920	3.305
Ethyl methacrylate	1.381	1.200
Hexachlorobutadiene	0.831	0.776
2-Hexanone	1.142	0.985
Iodomethane	0.580	0.555
Isopropylbenzene	3.589	3.068
p-Isopropyltoluene	4.871	4.659
Methyl acetate	0.483	0.455
Methyl cyclohexane	0.849	0.833
Methylene chloride	0.534	0.498
Methyl methacrylate	0.652	0.644
4-Methyl-2-pentanone	0.728	0.709
MTBE	1.476	1.414
Naphthalene	4.285	4.015
n-Propylbenzene	7.475	6.988
Styrene	2.495	2.162
1,1,1,2-Tetrachloroethane	0.772	0.663
1,1,2,2-Tetrachloroethane	1.790	1.685
Tetrachloroethene	0.808	0.706
Tetrahydrofuran	0.218	0.209
Toluene	2.088	1.802
1,2,3-Trichlorobenzene	1.491	1.404
1,2,4-Trichlorobenzene	1.633	1.552
1,1,1-Trichloroethane	0.713	0.698
1,1,2-Trichloroethane	0.693	0.591
Trichloroethene	0.484	0.462
Trichlorofluoromethane	0.707	0.683
Trichlorotrifluoroethane	0.463	0.448
1,2,3-Trichloropropane	0.330	0.292
1,2,4-Trimethylbenzene	4.610	4.423
1,3,5-Trimethylbenzene	4.605	4.356

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
Vinyl acetate	1.515	1.410
Vinyl chloride	0.675	0.646
Xylene(total)	3.030	2.548
Dibromofluoromethane	0.270	0.268
1,2-Dichloroethane-d4	0.074	0.077
Toluene-d8	1.709	1.549
Bromofluorobenzene	0.745	0.654

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetone	LINR	-7.16e-002	0.35525608	1.000
Acrolein	AVRG		0.12584225	4.7
Acrylonitrile	AVRG		0.19121381	6.4
Benzene	AVRG		1.91887886	7.2
Bromobenzene	AVRG		1.31004881	6.9
Bromochloromethane	AVRG		0.23857975	3.3
Bromodichloromethane	AVRG		0.67762477	4.8
Bromoform	AVRG		0.84587977	7.4
Bromomethane	AVRG		0.36806442	7.9
2-Butanone	AVRG		0.47308525	15.0
n-Butylbenzene	AVRG		5.23811565	6.4
sec-Butylbenzene	AVRG		6.59721698	5.6
tert-Butylbenzene	AVRG		4.06936783	6.8
Carbon disulfide	AVRG		1.80450551	4.9
Carbon tetrachloride	LINR	0.00000000	0.55875540	1.000
Chlorobenzene	AVRG		2.29859176	11.4
Chloroethane	AVRG		0.41178821	6.1
2-Chloroethyl vinyl ether	AVRG			
Chloroform	AVRG		0.93505012	7.4
Chloromethane	AVRG		0.78011217	7.4
2-Chlorotoluene	AVRG		4.84012230	6.6
4-Chlorotoluene	AVRG		5.41433265	8.3
Cyclohexane	AVRG		1.05619759	7.6
Dibromochloromethane	AVRG		0.87632063	9.2
1,2-Dibromo-3-chloropropane	AVRG		0.31483363	6.5
1,2-Dibromoethane	AVRG		0.90148039	9.8
Dibromomethane	AVRG		0.32434356	5.3
1,2-Dichlorobenzene	AVRG		2.27147721	5.7
1,3-Dichlorobenzene	AVRG		2.54458740	7.7
1,4-Dichlorobenzene	AVRG		2.63371522	11.7
Dichlorodifluoromethane	AVRG		0.62335861	8.1
1,1-Dichloroethane	AVRG		1.04582178	6.4
1,2-Dichloroethane	AVRG		0.83164728	4.6
1,1-Dichloroethene	AVRG		0.42680904	6.7
cis-1,2-Dichloroethene	AVRG		0.52843748	7.1
trans-1,2-Dichloroethene	AVRG		0.49341897	5.3
1,2-Dichloroethene(total)	AVRG		0.51092823	5.8

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
1,2-Dichloropropane	AVRG		0.57955371	6.3
1,3-Dichloropropane	AVRG		1.75122412	13.4
2,2-Dichloropropane	AVRG		0.82380758	5.7
1,1-Dichloropropene	AVRG		0.75578438	5.1
cis-1,3-Dichloropropene	AVRG		0.89247704	4.5
trans-1,3-Dichloropropene	AVRG		1.64337137	10.0
Ethylbenzene	AVRG		4.31526476	12.4
Ethyl methacrylate	AVRG		1.52163331	12.3
Hexachlorobutadiene	AVRG		0.80035788	5.1
2-Hexanone	AVRG		1.21482738	11.6
Iodomethane	AVRG		0.51533512	11.5
Isopropylbenzene	AVRG		3.99001564	13.0
p-Isopropyltoluene	AVRG		4.94820716	6.0
Methyl acetate	LINR	0.00000000	0.46118620	0.999
Methyl cyclohexane	AVRG		0.88600086	5.4
Methylene chloride	LINR	-0.2555442	0.48398828	0.999
Methyl methacrylate	AVRG		0.66050114	5.2
4-Methyl-2-pentanone	AVRG		0.76728726	8.1
MTBE	AVRG		1.54489752	6.6
Naphthalene	AVRG		4.35881461	11.3
n-Propylbenzene	AVRG		7.57779764	6.4
Styrene	AVRG		2.68708048	10.6
1,1,1,2-Tetrachloroethane	AVRG		0.81428126	10.4
1,1,2,2-Tetrachloroethane	AVRG		1.81894984	7.1
Tetrachloroethene	AVRG		0.87349450	10.8
Tetrahydrofuran	AVRG		0.22865594	7.8
Toluene	AVRG		2.35181333	14.5
1,2,3-Trichlorobenzene	AVRG		1.44836119	7.6
1,2,4-Trichlorobenzene	AVRG		1.54348205	6.1
1,1,1-Trichloroethane	AVRG		0.73390692	5.0
1,1,2-Trichloroethane	AVRG		0.76901110	14.3
Trichloroethene	AVRG		0.50325291	6.5
Trichlorofluoromethane	AVRG		0.73305793	6.3
Trichlorotrifluoroethane	AVRG		0.47291910	5.1
1,2,3-Trichloropropane	AVRG		0.36384677	13.9
1,2,4-Trimethylbenzene	AVRG		4.68139202	6.7
1,3,5-Trimethylbenzene	AVRG		4.64846984	5.4

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date(s): 07/18/06 07/18/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0959 1419

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Vinyl acetate	AVRG		1.52283017	5.7
Vinyl chloride	AVRG		0.64623086	10.3
Xylene(total)	AVRG		3.37350357	13.8
Dibromofluoromethane	AVRG		0.27375570	1.5
1,2-Dichloroethane-d4	AVRG		7.374e-002	2.6
Toluene-d8	AVRG		1.82790549	8.2
Bromofluorobenzene	AVRG		0.79338693	9.3

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD07.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD07.D
Lab Smp Id: V1STD200ppb Client Smp ID: V1STD200ppb
Inj Date : 18-JUL-2006 09:59 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD200ppb;;;;;
Misc Info : ;1;;;7;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\VSOIL1.m
Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.831	14.831	(1.000)	633513	30.0000	
1 Dichlorodifluoromethane	85	6.004	6.004	(0.405)	2593342	200.000	197.0(M)
4 Chloromethane	50	6.431	6.431	(0.434)	3255699	200.000	197.6
5 Vinyl chloride	62	6.740	6.740	(0.454)	2727189	200.000	199.8(M)
6 Bromomethane	94	7.535	7.535	(0.508)	1585924	200.000	204.0(A)
7 Chloroethane	64	7.800	7.800	(0.526)	1699583	200.000	195.4
9 Trichlorofluoromethane	101	8.831	8.831	(0.595)	2885046	200.000	186.4(M)
21 Trichlorotrifluoroethane	101	10.083	10.083	(0.680)	1890386	200.000	189.3
8 Acrolein	56	8.758	8.758	(0.591)	2601506	1000.00	979.0
12 Acetone	43	8.979	8.979	(0.605)	3009974	400.000	399.1(M)
15 1,1-Dichloroethene	96	9.759	9.759	(0.658)	1641397	200.000	182.1
16 Iodomethane	142	9.833	9.833	(0.663)	2345615	200.000	215.5
17 Acrylonitrile	53	9.789	9.789	(0.660)	3734221	1000.00	924.8
20 Methylene chloride	84	9.995	9.995	(0.674)	2102475	200.000	198.0(M)
25 Carbon disulfide	76	10.436	10.436	(0.704)	7168571	200.000	188.1(M)

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD07.D
Report Date: 18-Jul-2006 15:04

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27	trans-1,2-Dichloroethene	96	11.098	11.098	(0.748)	1968263	200.000	188.9
	29	MTBE	73	11.289	11.289	(0.761)	5971877	200.000	183.0
	30	1,1-Dichloroethane	63	11.509	11.509	(0.776)	4021594	200.000	182.1
	32	Vinyl acetate	43	11.627	11.627	(0.784)	11907018	400.000	370.3
	35	2-Butanone	43	12.141	12.141	(0.819)	3655002	400.000	365.8
	38	cis-1,2-Dichloroethene	96	12.435	12.435	(0.838)	2063977	200.000	185.0
M	18	1,2-Dichloroethene(total)	96				4032240	400.000	373.7
	41	Bromochloromethane	128	12.685	12.685	(0.855)	966644	200.000	191.9
	42	Chloroform	83	12.744	12.744	(0.859)	3570871	200.000	180.8
	43	2,2-Dichloropropane	77	12.891	12.891	(0.869)	3325193	200.000	191.1
$	44	Dibromofluoromethane	111	12.935	12.935	(0.872)	169697	30.0000	29.35
	22	Methyl acetate	43	10.010	10.010	(0.675)	1920455	200.000	197.2
	47	Tetrahydrofuran	42	13.273	13.273	(0.895)	881022	200.000	182.5
	52	Cyclohexane	56	14.420	14.420	(0.972)	4018484	200.000	180.2
$	48	1,2-Dichloroethane-d4	102	13.626	13.626	(0.919)	48845	30.0000	31.36
	49	1,2-Dichloroethane	62	13.758	13.758	(0.928)	3293997	200.000	187.6
	50	1,1,1-Trichloroethane	97	13.934	13.934	(0.940)	2948113	200.000	190.2
	51	1,1-Dichloropropene	75	14.214	14.214	(0.958)	2965266	200.000	185.8
	53	Carbon tetrachloride	117	14.508	14.508	(0.978)	2358228	200.000	199.9
	54	Benzene	78	14.523	14.523	(0.979)	7341766	200.000	181.2
	58	Dibromomethane	93	15.404	15.404	(1.039)	1336729	200.000	195.2
	59	1,2-Dichloropropane	63	15.434	15.434	(1.041)	2240193	200.000	183.0
	60	Trichloroethene	95	15.522	15.522	(1.047)	1952601	200.000	183.7
	61	Bromodichloromethane	83	15.581	15.581	(1.051)	2823631	200.000	197.3
	62	Methyl methacrylate	41	15.699	15.699	(1.058)	2719830	200.000	195.0
	68	cis-1,3-Dichloropropene	75	16.523	16.523	(1.114)	3603173	200.000	191.2
	70	4-Methyl-2-pentanone	43	16.626	16.626	(1.121)	5986028	400.000	369.4
	71	trans-1,3-Dichloropropene	75	17.140	17.140	(0.869)	3396293	200.000	163.6
	72	1,1,2-Trichloroethane	83	17.405	17.405	(0.882)	1493565	200.000	153.8
$	73	Toluene-d8	98	17.567	17.567	(0.890)	586959	30.0000	25.42
	74	Toluene	92	17.670	17.670	(0.896)	4552967	200.000	153.2
	76	1,3-Dichloropropane	76	17.758	17.758	(0.900)	3409197	200.000	154.1
	75	Ethyl methacrylate	69	17.670	17.670	(0.896)	3031883	200.000	157.7
	77	2-Hexanone	43	17.890	17.890	(0.907)	4976497	400.000	324.3
	78	Dibromochloromethane	129	18.200	18.200	(0.922)	1880176	200.000	169.8
	79	1,2-Dibromoethane	107	18.567	18.567	(0.941)	1856284	200.000	163.0
	65	Methyl cyclohexane	83	16.346	16.346	(1.102)	3516836	200.000	188.0
	80	Tetrachloroethene	166	18.803	18.803	(0.953)	1783614	200.000	161.6
	81	1,1,1,2-Tetrachloroethane	131	19.670	19.670	(0.997)	1675294	200.000	162.9
*	82	Chlorobenzene-d5	82	19.729	19.729	(1.000)	378955	30.0000	
	83	Chlorobenzene	112	19.788	19.788	(1.003)	4597269	200.000	158.3
	87	Bromoform	173	20.554	20.554	(0.877)	1256763	200.000	208.7(A)
	84	Ethylbenzene	91	20.009	20.009	(1.014)	8350311	200.000	153.2
	85	m,p-Xylene	91	20.259	20.259	(1.027)	12137428	400.000	294.9
M	91	Xylene(total)	91				18575251	200.000	435.9
	89	o-Xylene	91	20.863	20.863	(1.057)	6437823	200.000	151.1
	88	Styrene	104	20.745	20.745	(1.051)	5463063	200.000	160.9

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD07.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.893	20.893	(0.892)	2398879	200.000	185.3
	92 1,2,3-Trichloropropane	110	21.085	21.085	(1.069)	736808	200.000	160.3
	94 Isopropylbenzene	105	21.394	21.394	(1.084)	7751124	200.000	153.8
$	95 Bromofluorobenzene	95	21.468	21.468	(1.088)	247926	30.0000	24.74
	96 Bromobenzene	156	21.836	21.836	(0.932)	1769127	200.000	189.7
	97 n-Propylbenzene	91	22.028	22.028	(0.940)	9948122	200.000	184.4
	98 2-Chlorotoluene	91	22.220	22.220	(0.948)	6630877	200.000	192.5
	99 4-Chlorotoluene	91	22.323	22.323	(0.953)	7265435	200.000	188.5
	100 1,3,5-Trimethylbenzene	105	22.382	22.382	(0.955)	6200885	200.000	187.4
	102 tert-Butylbenzene	119	22.869	22.869	(0.976)	5432751	200.000	187.6
	103 1,2,4-Trimethylbenzene	105	23.002	23.002	(0.982)	6295799	200.000	188.9
	104 sec-Butylbenzene	105	23.193	23.193	(0.990)	8785617	200.000	187.1
	105 1,3-Dichlorobenzene	146	23.385	23.385	(0.998)	3307703	200.000	182.6
*	106 1,4-Dichlorobenzene-d4	152	23.430	23.430	(1.000)	213531	30.0000	
	108 1,4-Dichlorobenzene	146	23.474	23.474	(1.002)	3684085	200.000	196.5(M)
	107 p-Isopropyltoluene	119	23.430	23.430	(1.000)	6632377	200.000	188.3
	109 1,2-Dichlorobenzene	146	24.064	24.064	(1.027)	3052259	200.000	188.8
	110 n-Butylbenzene	91	24.050	24.050	(1.026)	6821677	200.000	183.0
	111 1,2-Dibromo-3-chloropropane	157	24.772	24.772	(1.057)	471466	200.000	210.4(A)
	112 1,2,4-Trichlorobenzene	180	27.000	27.000	(1.152)	2209499	200.000	201.1(A)
	113 Naphthalene	128	27.443	27.443	(1.171)	5715496	200.000	184.2
	114 Hexachlorobutadiene	225	27.487	27.487	(1.173)	1104903	200.000	194.0
	115 1,2,3-Trichlorobenzene	180	27.857	27.857	(1.189)	1999027	200.000	193.9

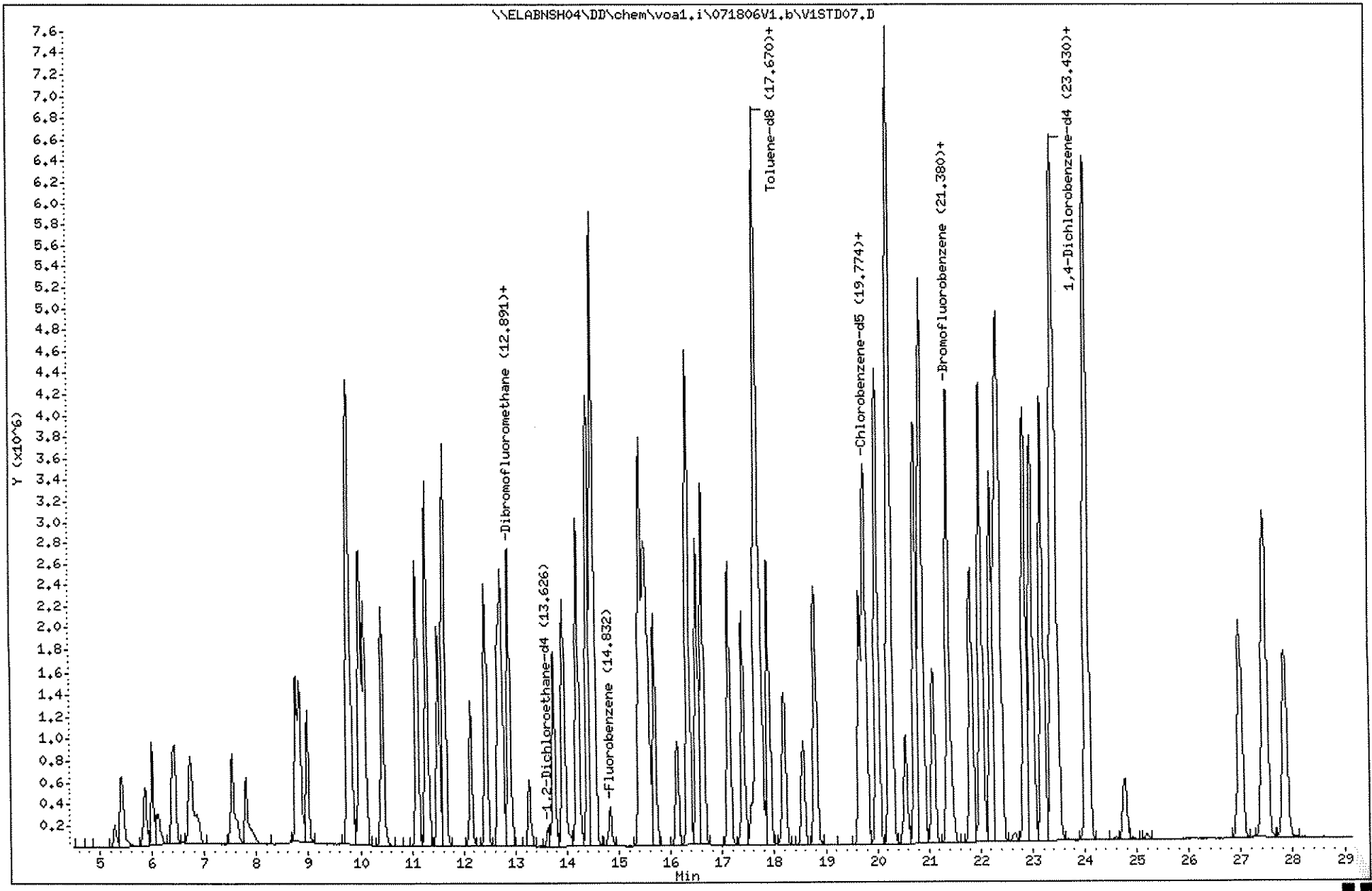
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD07.D
Date : 18-JUL-2006 09:59
Client ID: V1STD200ppb
Sample Info: V1STD200ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD06.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD06.D
Lab Smp Id: V1STD100ppb Client Smp ID: V1STD100ppb
Inj Date : 18-JUL-2006 10:37 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD100ppb;;;;;
Misc Info : ;1;;;6;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\VSOIL1.m
Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.830	14.830	(1.000)	628037	30.0000	
1 Dichlorodifluoromethane	85	6.004	6.004	(0.405)	1313107	100.000	100.6(M)
4 Chloromethane	50	6.431	6.431	(0.434)	1655970	100.000	101.4
5 Vinyl chloride	62	6.755	6.755	(0.455)	1413037	100.000	104.4(M)
6 Bromomethane	94	7.535	7.535	(0.508)	777000	100.000	100.8
7 Chloroethane	64	7.800	7.800	(0.526)	881263	100.000	102.2(M)
9 Trichlorofluoromethane	101	8.831	8.831	(0.595)	1480944	100.000	96.50(M)
21 Trichlorotrifluoroethane	101	10.098	10.098	(0.681)	969463	100.000	97.92
8 Acrolein	56	8.772	8.772	(0.592)	1355623	500.000	514.6
12 Acetone	43	8.978	8.978	(0.605)	1519522	200.000	202.2
15 1,1-Dichloroethene	96	9.774	9.774	(0.659)	863650	100.000	96.66
16 Iodomethane	142	9.833	9.833	(0.663)	1213441	100.000	112.5
17 Acrylonitrile	53	9.788	9.788	(0.660)	1871094	500.000	467.4
20 Methylene chloride	84	9.995	9.995	(0.674)	1116860	100.000	102.6
25 Carbon disulfide	76	10.436	10.436	(0.704)	3711645	100.000	98.25

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD06.D
Report Date: 18-Jul-2006 15:04

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27	trans-1,2-Dichloroethene	96	11.097	11.097	(0.748)	1017338	100.000	98.49
	29	MTBE	73	11.288	11.288	(0.761)	3090255	100.000	95.55
	30	1,1-Dichloroethane	63	11.509	11.509	(0.776)	2095793	100.000	95.72
	32	Vinyl acetate	43	11.641	11.641	(0.785)	6342825	200.000	199.0
	35	2-Butanone	43	12.140	12.140	(0.819)	1853739	200.000	187.2
	38	cis-1,2-Dichloroethene	96	12.434	12.434	(0.838)	1049564	100.000	94.87
M	18	1,2-Dichloroethene(total)	96				2066902	200.000	193.2
	41	Bromochloromethane	128	12.684	12.684	(0.855)	494500	100.000	99.01
	42	Chloroform	83	12.743	12.743	(0.859)	1840196	100.000	94.01
	43	2,2-Dichloropropane	77	12.890	12.890	(0.869)	1679218	100.000	97.37
$	44	Dibromofluoromethane	111	12.919	12.919	(0.871)	169723	30.0000	29.62
	22	Methyl acetate	43	10.009	10.009	(0.675)	1011347	100.000	104.8
	47	Tetrahydrofuran	42	13.272	13.272	(0.895)	456753	100.000	95.42
	52	Cyclohexane	56	14.419	14.419	(0.972)	2093221	100.000	94.67
$	48	1,2-Dichloroethane-d4	102	13.639	13.639	(0.920)	46367	30.0000	30.03
	49	1,2-Dichloroethane	62	13.757	13.757	(0.928)	1662325	100.000	95.48
	50	1,1,1-Trichloroethane	97	13.933	13.933	(0.940)	1491862	100.000	97.10
	51	1,1-Dichloropropene	75	14.213	14.213	(0.958)	1527697	100.000	96.56
	53	Carbon tetrachloride	117	14.507	14.507	(0.978)	1173911	100.000	100.4
	54	Benzene	78	14.522	14.522	(0.979)	3807668	100.000	94.79
	58	Dibromomethane	93	15.403	15.403	(1.039)	675647	100.000	99.51
	59	1,2-Dichloropropane	63	15.447	15.447	(1.042)	1160860	100.000	95.68
	60	Trichloroethene	95	15.521	15.521	(1.047)	1012804	100.000	96.13
	61	Bromodichloromethane	83	15.580	15.580	(1.051)	1396897	100.000	98.47
	62	Methyl methacrylate	41	15.698	15.698	(1.058)	1365989	100.000	98.79
	68	cis-1,3-Dichloropropene	75	16.521	16.521	(1.114)	1824623	100.000	97.66
	70	4-Methyl-2-pentanone	43	16.624	16.624	(1.121)	3047218	200.000	189.7
	71	trans-1,3-Dichloropropene	75	17.138	17.138	(0.869)	1720922	100.000	94.91
	72	1,1,2-Trichloroethane	83	17.403	17.403	(0.882)	764856	100.000	90.15
$	73	Toluene-d8	98	17.565	17.565	(0.890)	565544	30.0000	28.04
	74	Toluene	92	17.668	17.668	(0.896)	2303202	100.000	88.76
	76	1,3-Dichloropropane	76	17.756	17.756	(0.900)	1740469	100.000	90.08
	75	Ethyl methacrylate	69	17.668	17.668	(0.896)	1523599	100.000	90.75
	77	2-Hexanone	43	17.888	17.888	(0.907)	2520583	200.000	188.0
	78	Dibromochloromethane	129	18.197	18.197	(0.922)	916333	100.000	94.78
	79	1,2-Dibromoethane	107	18.565	18.565	(0.941)	933815	100.000	93.89
	65	Methyl cyclohexane	83	16.344	16.344	(1.102)	1777745	100.000	95.84
	80	Tetrachloroethene	166	18.800	18.800	(0.953)	891144	100.000	92.47
	81	1,1,1,2-Tetrachloroethane	131	19.668	19.668	(0.997)	851833	100.000	94.82
*	82	Chlorobenzene-d5	82	19.727	19.727	(1.000)	330988	30.0000	
	83	Chlorobenzene	112	19.786	19.786	(1.003)	2359982	100.000	93.06
	87	Bromoform	173	20.551	20.551	(0.877)	622513	100.000	107.7
	84	Ethylbenzene	91	20.007	20.007	(1.014)	4325509	100.000	90.85
	85	m,p-Xylene	91	20.257	20.257	(1.027)	6384431	200.000	177.6
M	91	Xylene(total)	91				9727618	100.000	261.4
	89	o-Xylene	91	20.861	20.861	(1.057)	3343187	100.000	89.82
	88	Styrene	104	20.757	20.757	(1.052)	2752386	100.000	92.84

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD06.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.890	20.890	(0.891)	1223452	100.000	98.40
	92 1,2,3-Trichloropropane	110	21.096	21.096	(1.069)	364570	100.000	90.82
	94 Isopropylbenzene	105	21.391	21.391	(1.084)	3959535	100.000	89.94
$	95 Bromofluorobenzene	95	21.480	21.480	(1.089)	246700	30.0000	28.18
	96 Bromobenzene	156	21.833	21.833	(0.931)	895202	100.000	99.97
	97 n-Propylbenzene	91	22.025	22.025	(0.940)	5109342	100.000	98.64
	98 2-Chlorotoluene	91	22.217	22.217	(0.948)	3345411	100.000	101.1
	99 4-Chlorotoluene	91	22.320	22.320	(0.952)	3739190	100.000	101.0
	100 1,3,5-Trimethylbenzene	105	22.379	22.379	(0.955)	3147897	100.000	99.07
	102 tert-Butylbenzene	119	22.866	22.866	(0.975)	2756281	100.000	99.09
	103 1,2,4-Trimethylbenzene	105	22.998	22.998	(0.981)	3150911	100.000	98.47
	104 sec-Butylbenzene	105	23.205	23.205	(0.990)	4472740	100.000	99.18
	105 1,3-Dichlorobenzene	146	23.397	23.397	(0.998)	1650435	100.000	94.89
*	106 1,4-Dichlorobenzene-d4	152	23.441	23.441	(1.000)	205066	30.0000	
	108 1,4-Dichlorobenzene	146	23.471	23.471	(1.001)	1863652	100.000	103.5(M)
	107 p-Isopropyltoluene	119	23.426	23.426	(0.999)	3329829	100.000	98.45
	109 1,2-Dichlorobenzene	146	24.061	24.061	(1.026)	1536618	100.000	98.96
	110 n-Butylbenzene	91	24.046	24.046	(1.026)	3516252	100.000	98.20
	111 1,2-Dibromo-3-chloropropane	157	24.769	24.769	(1.057)	228478	100.000	106.2
	112 1,2,4-Trichlorobenzene	180	26.995	26.995	(1.152)	1116552	100.000	105.8
	113 Naphthalene	128	27.454	27.454	(1.171)	2929157	100.000	98.31
	114 Hexachlorobutadiene	225	27.498	27.498	(1.173)	568095	100.000	103.8
	115 1,2,3-Trichlorobenzene	180	27.853	27.853	(1.188)	1019280	100.000	103.0(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD06.D
Date : 18-JUL-2006 10:37
Client ID: V1STD100ppb
Sample Info: V1STD100ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

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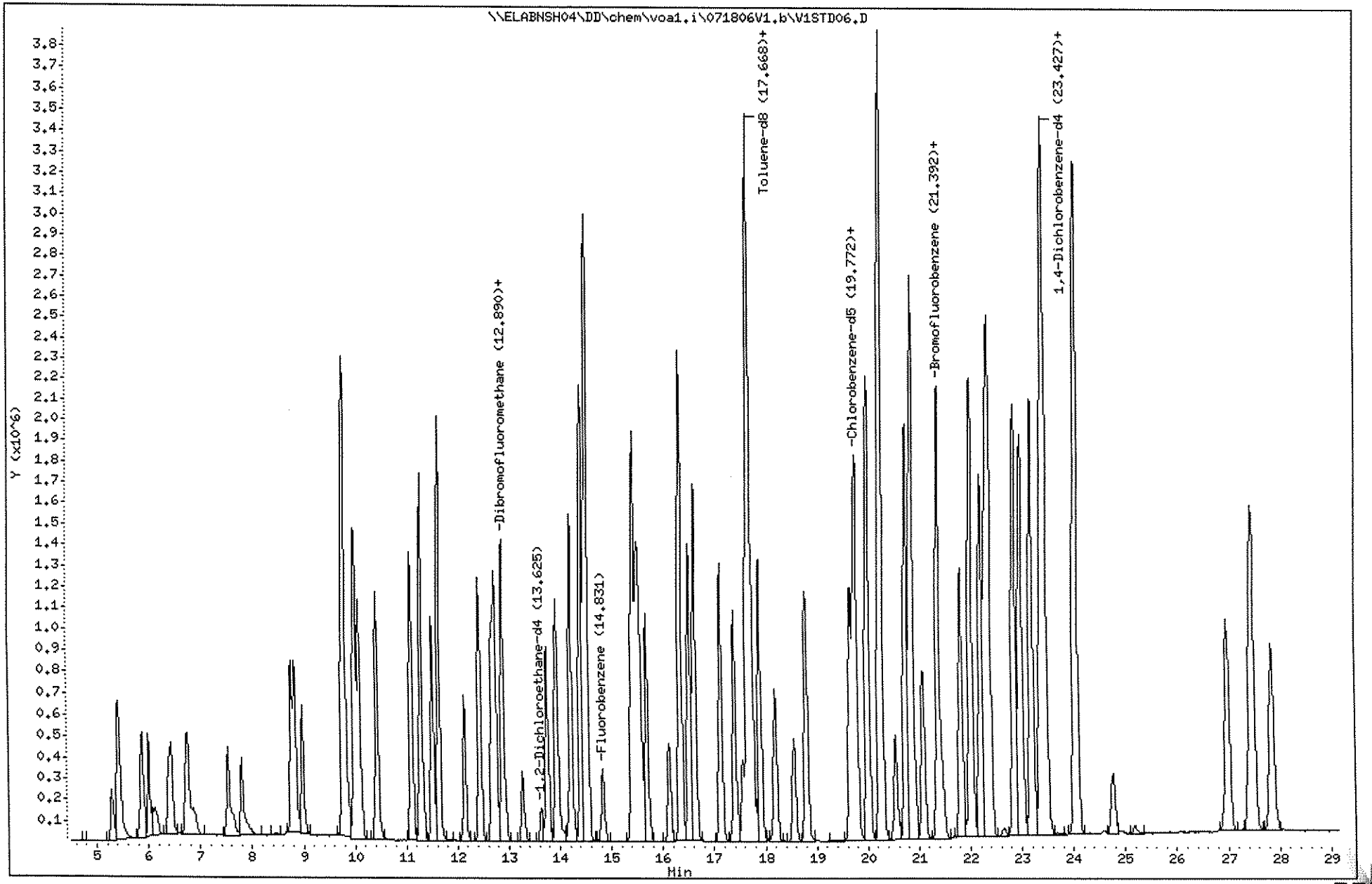

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD05.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD05.D
Lab Smp Id: V1STD50ppb Client Smp ID: V1STD50ppb
Inj Date : 18-JUL-2006 11:14 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
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Comment :
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Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.829	14.829	(1.000)	596221	30.0000	
1 Dichlorodifluoromethane	85	6.004	6.004	(0.405)	668188	50.0000	53.94(M)
4 Chloromethane	50	6.431	6.431	(0.434)	844817	50.0000	54.49
5 Vinyl chloride	62	6.755	6.755	(0.456)	712959	50.0000	55.51(M)
6 Bromomethane	94	7.535	7.535	(0.508)	365385	50.0000	49.95
7 Chloroethane	64	7.800	7.800	(0.526)	433502	50.0000	52.97(M)
9 Trichlorofluoromethane	101	8.831	8.831	(0.596)	733958	50.0000	50.38
21 Trichlorotrifluoroethane	101	10.083	10.083	(0.680)	492368	50.0000	52.39
8 Acrolein	56	8.772	8.772	(0.592)	625734	250.000	250.2
12 Acetone	43	8.979	8.979	(0.605)	717588	100.000	99.49
15 1,1-Dichloroethene	96	9.774	9.774	(0.659)	434992	50.0000	51.28
16 Iodomethane	142	9.833	9.833	(0.663)	567662	50.0000	55.43
17 Acrylonitrile	53	9.788	9.788	(0.660)	934163	250.000	245.8
20 Methylene chloride	84	9.995	9.995	(0.674)	576715	50.0000	52.29
25 Carbon disulfide	76	10.436	10.436	(0.704)	1872360	50.0000	52.21

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD05.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.097	11.097	(0.748)	512367	50.0000	52.25
	29 MTBE	73	11.288	11.288	(0.761)	1531700	50.0000	49.89
	30 1,1-Dichloroethane	63	11.509	11.509	(0.776)	1055462	50.0000	50.78
	32 Vinyl acetate	43	11.641	11.641	(0.785)	3165354	100.000	104.6
	35 2-Butanone	43	12.140	12.140	(0.819)	873863	100.000	92.94
	38 cis-1,2-Dichloroethene	96	12.434	12.434	(0.838)	528220	50.0000	50.30
M	18 1,2-Dichloroethene(total)	96				1040587	100.000	102.5
	41 Bromochloromethane	128	12.684	12.684	(0.855)	244296	50.0000	51.52
	42 Chloroform	83	12.743	12.743	(0.859)	930284	50.0000	50.06
	43 2,2-Dichloropropane	77	12.890	12.890	(0.869)	838558	50.0000	51.22
$	44 Dibromofluoromethane	111	12.919	12.919	(0.871)	163731	30.0000	30.09
	22 Methyl acetate	43	10.009	10.009	(0.675)	457313	50.0000	49.89
	47 Tetrahydrofuran	42	13.272	13.272	(0.895)	220175	50.0000	48.45
	52 Cyclohexane	56	14.418	14.418	(0.972)	1053315	50.0000	50.18
$	48 1,2-Dichloroethane-d4	102	13.639	13.639	(0.920)	42618	30.0000	29.08
	49 1,2-Dichloroethane	62	13.756	13.756	(0.928)	834005	50.0000	50.46
	50 1,1,1-Trichloroethane	97	13.948	13.948	(0.941)	756932	50.0000	51.90
	51 1,1-Dichloropropene	75	14.212	14.212	(0.958)	760842	50.0000	50.65
	53 Carbon tetrachloride	117	14.506	14.506	(0.978)	557347	50.0000	50.19
	54 Benzene	78	14.521	14.521	(0.979)	1922056	50.0000	50.40
	58 Dibromomethane	93	15.402	15.402	(1.039)	326472	50.0000	50.65
	59 1,2-Dichloropropane	63	15.446	15.446	(1.042)	580119	50.0000	50.36
	60 Trichloroethene	95	15.520	15.520	(1.047)	502407	50.0000	50.23
	61 Bromodichloromethane	83	15.579	15.579	(1.051)	684705	50.0000	50.84
	62 Methyl methacrylate	41	15.697	15.697	(1.058)	663326	50.0000	50.53
	68 cis-1,3-Dichloropropene	75	16.520	16.520	(1.114)	902339	50.0000	50.87
	70 4-Methyl-2-pentanone	43	16.622	16.622	(1.121)	1483966	100.000	97.32
	71 trans-1,3-Dichloropropene	75	17.137	17.137	(0.869)	829941	50.0000	50.79
	72 1,1,2-Trichloroethane	83	17.401	17.401	(0.882)	371968	50.0000	48.65
$	73 Toluene-d8	98	17.563	17.563	(0.890)	543481	30.0000	29.90
	74 Toluene	92	17.666	17.666	(0.896)	1137833	50.0000	48.66
	76 1,3-Dichloropropane	76	17.754	17.754	(0.900)	862337	50.0000	49.52
	75 Ethyl methacrylate	69	17.666	17.666	(0.896)	745291	50.0000	49.26
	77 2-Hexanone	43	17.902	17.902	(0.908)	1178682	100.000	97.58
	78 Dibromochloromethane	129	18.196	18.196	(0.922)	444326	50.0000	50.99
	79 1,2-Dibromoethane	107	18.563	18.563	(0.941)	452456	50.0000	50.48
	65 Methyl cyclohexane	83	16.343	16.343	(1.102)	890057	50.0000	50.55
	80 Tetrachloroethene	166	18.813	18.813	(0.954)	442456	50.0000	50.94
	81 1,1,1,2-Tetrachloroethane	131	19.666	19.666	(0.997)	415466	50.0000	51.32
*	82 Chlorobenzene-d5	82	19.725	19.725	(1.000)	298288	30.0000	
	83 Chlorobenzene	112	19.784	19.784	(1.003)	1157005	50.0000	50.62
	87 Bromoform	173	20.549	20.549	(0.877)	295737	50.0000	52.23
	84 Ethylbenzene	91	20.004	20.004	(1.014)	2188995	50.0000	51.02
	85 m,p-Xylene	91	20.269	20.269	(1.028)	3256984	100.000	100.5
M	91 Xylene(total)	91				4942729	50.0000	147.4
	89 o-Xylene	91	20.873	20.873	(1.058)	1685745	50.0000	50.26
	88 Styrene	104	20.755	20.755	(1.052)	1364615	50.0000	51.08

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD05.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	==========	====	==	======	======	========	=======	=======
90	1,1,2,2-Tetrachloroethane	83	20.888	20.888	(0.891)	593217	50.0000	48.72
92	1,2,3-Trichloropropane	110	21.094	21.094	(1.069)	174820	50.0000	48.32
94	Isopropylbenzene	105	21.388	21.388	(1.084)	2010977	50.0000	50.69
$ 95	Bromofluorobenzene	95	21.477	21.477	(1.089)	234544	30.0000	29.73
96	Bromobenzene	156	21.830	21.830	(0.931)	443898	50.0000	50.62
97	n-Propylbenzene	91	22.022	22.022	(0.940)	2589449	50.0000	51.05
98	2-Chlorotoluene	91	22.214	22.214	(0.948)	1633504	50.0000	50.42
99	4-Chlorotoluene	91	22.317	22.317	(0.952)	1913817	50.0000	52.81
100	1,3,5-Trimethylbenzene	105	22.376	22.376	(0.955)	1578324	50.0000	50.73
102	tert-Butylbenzene	119	22.862	22.862	(0.975)	1375799	50.0000	50.51
103	1,2,4-Trimethylbenzene	105	22.995	22.995	(0.981)	1584993	50.0000	50.58
104	sec-Butylbenzene	105	23.202	23.202	(0.990)	2238095	50.0000	50.68
105	1,3-Dichlorobenzene	146	23.393	23.393	(0.998)	795325	50.0000	46.70
* 106	1,4-Dichlorobenzene-d4	152	23.438	23.438	(1.000)	200803	30.0000	
108	1,4-Dichlorobenzene	146	23.467	23.467	(1.001)	820546	50.0000	46.55(M)
107	p-Isopropyltoluene	119	23.423	23.423	(0.999)	1668620	50.0000	50.38
109	1,2-Dichlorobenzene	146	24.057	24.057	(1.026)	754537	50.0000	49.63
110	n-Butylbenzene	91	24.057	24.057	(1.026)	1770669	50.0000	50.50
111	1,2-Dibromo-3-chloropropane	157	24.765	24.765	(1.057)	103472	50.0000	49.10
112	1,2,4-Trichlorobenzene	180	26.991	26.991	(1.152)	510849	50.0000	49.45
113	Naphthalene	128	27.449	27.449	(1.171)	1335622	50.0000	45.78(M)
114	Hexachlorobutadiene	225	27.493	27.493	(1.173)	265141	50.0000	49.49
115	1,2,3-Trichlorobenzene	180	27.862	27.862	(1.189)	470800	50.0000	48.56

QC Flag Legend

M - Compound response manually integrated.

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Date : 18-JUL-2006 11:14
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Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

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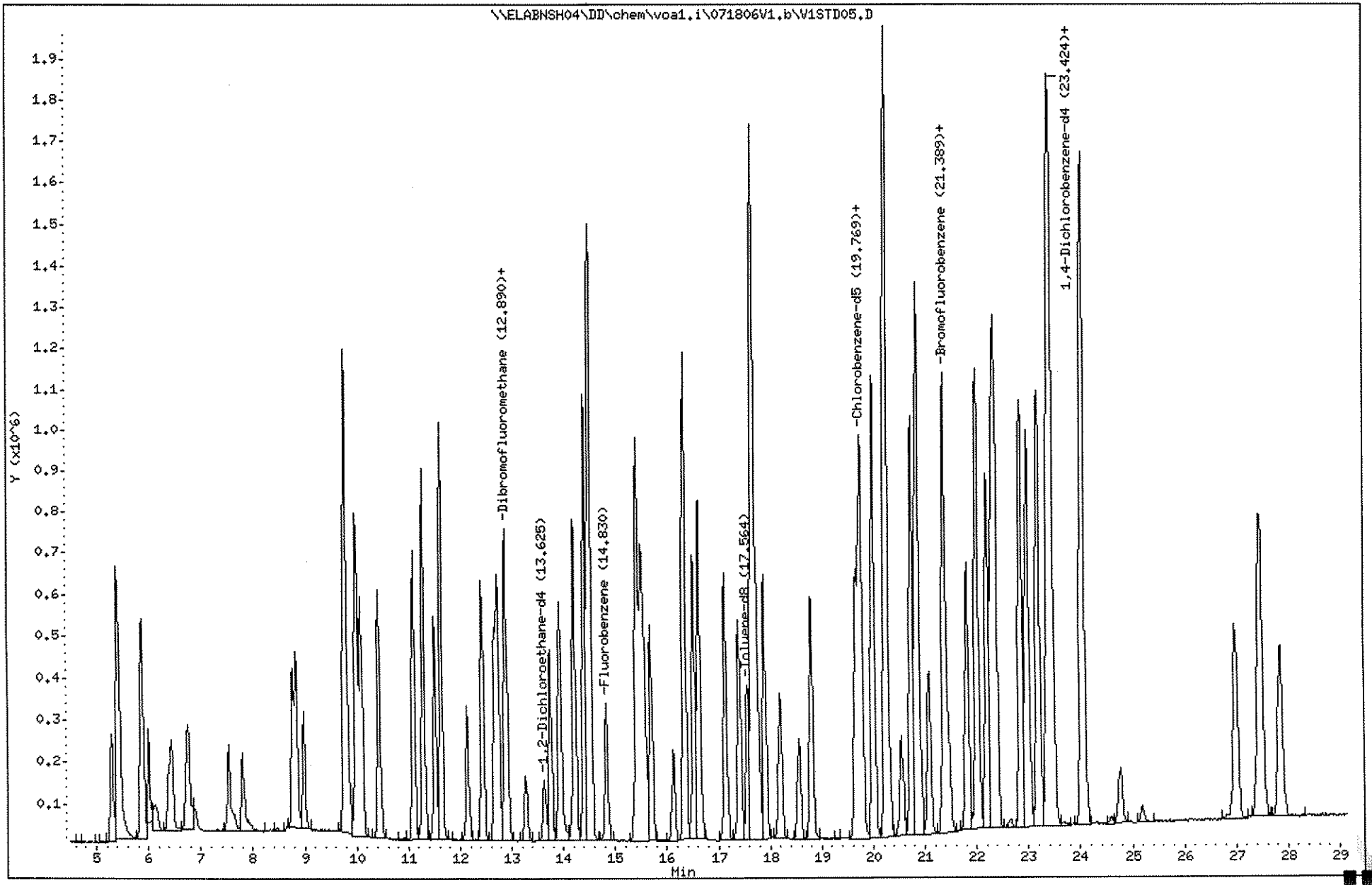

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD04.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD04.D
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Inj Date : 18-JUL-2006 12:28 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
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Comment :
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Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.842	14.842	(1.000)	599297	30.0000	
1 Dichlorodifluoromethane	85	6.019	6.019	(0.406)	280486	20.0000	22.52(M)
4 Chloromethane	50	6.446	6.446	(0.434)	335460	20.0000	21.52
5 Vinyl chloride	62	6.769	6.769	(0.456)	294239	20.0000	22.79
6 Bromomethane	94	7.535	7.535	(0.508)	145360	20.0000	19.77
7 Chloroethane	64	7.800	7.800	(0.526)	176136	20.0000	21.41
9 Trichlorofluoromethane	101	8.845	8.845	(0.596)	319226	20.0000	21.80
21 Trichlorotrifluoroethane	101	10.097	10.097	(0.680)	204308	20.0000	21.63
8 Acrolein	56	8.772	8.772	(0.591)	266808	100.000	106.1
12 Acetone	43	8.978	8.978	(0.605)	300099	40.0000	40.14(a)
15 1,1-Dichloroethene	96	9.773	9.773	(0.658)	179958	20.0000	21.11
16 Iodomethane	142	9.832	9.832	(0.662)	214525	20.0000	20.84(a)
17 Acrylonitrile	53	9.788	9.788	(0.659)	398136	100.000	104.2
20 Methylene chloride	84	9.994	9.994	(0.673)	277339	20.0000	21.02
25 Carbon disulfide	76	10.435	10.435	(0.703)	765327	20.0000	21.23

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD04.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.111	11.111	(0.749)	215454	20.0000	21.86
	29 MTBE	73	11.302	11.302	(0.761)	655480	20.0000	21.24
	30 1,1-Dichloroethane	63	11.508	11.508	(0.775)	444608	20.0000	21.28
	32 Vinyl acetate	43	11.640	11.640	(0.784)	1336282	40.0000	43.93
	35 2-Butanone	43	12.139	12.139	(0.818)	375719	40.0000	39.76(a)
	38 cis-1,2-Dichloroethene	96	12.433	12.433	(0.838)	230243	20.0000	21.81
M	18 1,2-Dichloroethene(total)	96				445697	40.0000	43.67
	41 Bromochloromethane	128	12.683	12.683	(0.854)	100774	20.0000	21.14
	42 Chloroform	83	12.756	12.756	(0.859)	395553	20.0000	21.18
	43 2,2-Dichloropropane	77	12.888	12.888	(0.868)	347525	20.0000	21.12
$	44 Dibromofluoromethane	111	12.933	12.933	(0.871)	168051	30.0000	30.73
	22 Methyl acetate	43	10.023	10.023	(0.675)	203199	20.0000	22.06
	47 Tetrahydrofuran	42	13.270	13.270	(0.894)	88113	20.0000	19.29
	52 Cyclohexane	56	14.431	14.431	(0.972)	446362	20.0000	21.16
$	48 1,2-Dichloroethane-d4	102	13.637	13.637	(0.919)	44272	30.0000	30.05
	49 1,2-Dichloroethane	62	13.755	13.755	(0.927)	348679	20.0000	20.99
	50 1,1,1-Trichloroethane	97	13.946	13.946	(0.940)	319955	20.0000	21.82
	51 1,1-Dichloropropene	75	14.225	14.225	(0.958)	323569	20.0000	21.43
	53 Carbon tetrachloride	117	14.519	14.519	(0.978)	225098	20.0000	20.17
	54 Benzene	78	14.534	14.534	(0.979)	823174	20.0000	21.47
	58 Dibromomethane	93	15.415	15.415	(1.039)	142467	20.0000	21.99
	59 1,2-Dichloropropane	63	15.444	15.444	(1.041)	244800	20.0000	21.14
	60 Trichloroethene	95	15.518	15.518	(1.046)	215345	20.0000	21.42
	61 Bromodichloromethane	83	15.591	15.591	(1.050)	296437	20.0000	21.90
	62 Methyl methacrylate	41	15.694	15.694	(1.057)	279380	20.0000	21.17
	68 cis-1,3-Dichloropropene	75	16.532	16.532	(1.114)	380949	20.0000	21.37
	70 4-Methyl-2-pentanone	43	16.635	16.635	(1.121)	650204	40.0000	42.42
	71 trans-1,3-Dichloropropene	75	17.134	17.134	(0.868)	354437	20.0000	22.82
	72 1,1,2-Trichloroethane	83	17.398	17.398	(0.882)	163152	20.0000	22.45
$	73 Toluene-d8	98	17.575	17.575	(0.891)	543196	30.0000	31.44
	74 Toluene	92	17.678	17.678	(0.896)	484612	20.0000	21.80
	76 1,3-Dichloropropane	76	17.751	17.751	(0.899)	364919	20.0000	22.05
	75 Ethyl methacrylate	69	17.678	17.678	(0.896)	310997	20.0000	21.62
	77 2-Hexanone	43	17.898	17.898	(0.907)	510619	40.0000	44.47
	78 Dibromochloromethane	129	18.192	18.192	(0.922)	190106	20.0000	22.95
	79 1,2-Dibromoethane	107	18.560	18.560	(0.940)	188972	20.0000	22.18
	65 Methyl cyclohexane	83	16.355	16.355	(1.102)	381766	20.0000	21.57
	80 Tetrachloroethene	166	18.810	18.810	(0.953)	186377	20.0000	22.58
	81 1,1,1,2-Tetrachloroethane	131	19.676	19.676	(0.997)	174277	20.0000	22.65
*	82 Chlorobenzene-d5	82	19.735	19.735	(1.000)	283525	30.0000	
	83 Chlorobenzene	112	19.780	19.780	(1.002)	494263	20.0000	22.75
	87 Bromoform	173	20.545	20.545	(0.876)	116925	20.0000	21.26
	84 Ethylbenzene	91	20.015	20.015	(1.014)	924037	20.0000	22.66
	85 m,p-Xylene	91	20.265	20.265	(1.027)	1386555	40.0000	45.03
M	91 Xylene(total)	91				2099882	20.0000	65.86
	89 o-Xylene	91	20.869	20.869	(1.057)	713327	20.0000	22.37
	88 Styrene	104	20.751	20.751	(1.051)	567641	20.0000	22.35

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD04.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.898	20.898	(0.891)	255364	20.0000	21.60
	92 1,2,3-Trichloropropane	110	21.089	21.089	(1.069)	77792	20.0000	22.62
	94 Isopropylbenzene	105	21.384	21.384	(1.084)	840275	20.0000	22.28
$	95 Bromofluorobenzene	95	21.472	21.472	(1.088)	229946	30.0000	30.67
	96 Bromobenzene	156	21.841	21.841	(0.931)	187175	20.0000	21.98
	97 n-Propylbenzene	91	22.017	22.017	(0.939)	1086367	20.0000	22.05
	98 2-Chlorotoluene	91	22.224	22.224	(0.948)	701805	20.0000	22.30
	99 4-Chlorotoluene	91	22.327	22.327	(0.952)	760747	20.0000	21.61
	100 1,3,5-Trimethylbenzene	105	22.386	22.386	(0.955)	662747	20.0000	21.93
	102 tert-Butylbenzene	119	22.872	22.872	(0.975)	581488	20.0000	21.98
	103 1,2,4-Trimethylbenzene	105	22.990	22.990	(0.981)	680955	20.0000	22.38
	104 sec-Butylbenzene	105	23.196	23.196	(0.989)	941280	20.0000	21.95
	105 1,3-Dichlorobenzene	146	23.388	23.388	(0.997)	343666	20.0000	20.78
*	106 1,4-Dichlorobenzene-d4	152	23.447	23.447	(1.000)	195018	30.0000	
	108 1,4-Dichlorobenzene	146	23.477	23.477	(1.001)	372681	20.0000	21.77(M)
	107 p-Isopropyltoluene	119	23.432	23.432	(0.999)	693074	20.0000	21.55
	109 1,2-Dichlorobenzene	146	24.052	24.052	(1.026)	317877	20.0000	21.53
	110 n-Butylbenzene	91	24.066	24.066	(1.026)	737301	20.0000	21.65
	111 1,2-Dibromo-3-chloropropane	157	24.774	24.774	(1.057)	44136	20.0000	21.56
	112 1,2,4-Trichlorobenzene	180	26.999	26.999	(1.151)	200248	20.0000	19.96
	113 Naphthalene	128	27.457	27.457	(1.171)	579785	20.0000	20.46
	114 Hexachlorobutadiene	225	27.516	27.516	(1.174)	109774	20.0000	21.10
	115 1,2,3-Trichlorobenzene	180	27.870	27.870	(1.189)	192382	20.0000	20.43

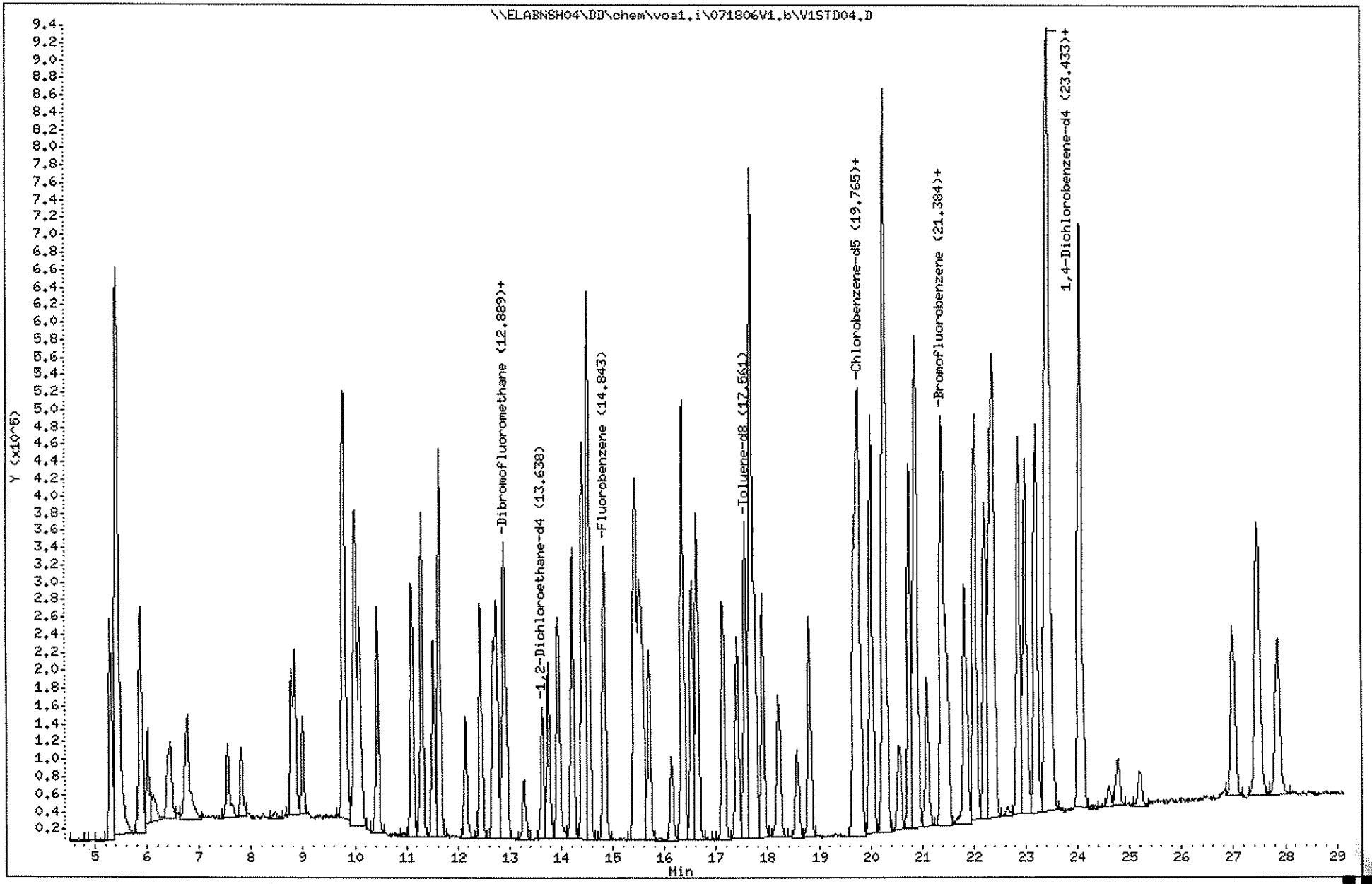
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD04.D
Date : 18-JUL-2006 12:28
Client ID: V1STD20ppb
Sample Info: V1STD20ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25



000113

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD03.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD03.D
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Inj Date : 18-JUL-2006 13:06 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
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Comment :
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Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

7/19/06
M 7/18/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.841	14.841	(1.000)	587815	30.0000	
1 Dichlorodifluoromethane	85	6.018	6.018	(0.406)	108871	10.0000	8.914(aM)
4 Chloromethane	50	6.431	6.431	(0.433)	141948	10.0000	9.286(a)
5 Vinyl chloride	62	6.755	6.755	(0.455)	115125	10.0000	9.092(aM)
6 Bromomethane	94	7.535	7.535	(0.508)	60542	10.0000	8.395(a)
7 Chloroethane	64	7.815	7.815	(0.527)	74524	10.0000	9.236(a)
9 Trichlorofluoromethane	101	8.830	8.830	(0.595)	132713	10.0000	9.240(a)
21 Trichlorotrifluoroethane	101	10.097	10.097	(0.680)	88097	10.0000	9.507
8 Acrolein	56	8.772	8.772	(0.591)	115478	50.0000	46.83
12 Acetone	43	8.992	8.992	(0.606)	144428	20.0000	18.60(a)
15 1,1-Dichloroethene	96	9.773	9.773	(0.658)	76871	10.0000	9.192
16 Iodomethane	142	9.832	9.832	(0.662)	84848	10.0000	8.403(a)
17 Acrylonitrile	53	9.787	9.787	(0.659)	182385	50.0000	48.68
20 Methylene chloride	84	10.008	10.008	(0.674)	156104	10.0000	8.795(a)
25 Carbon disulfide	76	10.435	10.435	(0.703)	335913	10.0000	9.500

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD03.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.111	11.111	(0.749)	91632	10.0000	9.478
	29 MTBE	73	11.302	11.302	(0.762)	290959	10.0000	9.612
	30 1,1-Dichloroethane	63	11.522	11.522	(0.776)	194742	10.0000	9.503
	32 Vinyl acetate	43	11.639	11.639	(0.784)	569780	20.0000	19.10(a)
	35 2-Butanone	43	12.153	12.153	(0.819)	169621	20.0000	18.30(a)
	38 cis-1,2-Dichloroethene	96	12.447	12.447	(0.839)	99775	10.0000	9.636
M	18 1,2-Dichloroethene(total)	96				191407	20.0000	19.12
	41 Bromochloromethane	128	12.697	12.697	(0.856)	46357	10.0000	9.916(a)
	42 Chloroform	83	12.755	12.755	(0.859)	179641	10.0000	9.805
	43 2,2-Dichloropropane	77	12.888	12.888	(0.868)	153614	10.0000	9.517
$	44 Dibromofluoromethane	111	12.932	12.932	(0.871)	162404	30.0000	30.28
	22 Methyl acetate	43	10.023	10.023	(0.675)	94354	10.0000	10.44
	47 Tetrahydrofuran	42	13.270	13.270	(0.894)	44042	10.0000	9.830(a)
	52 Cyclohexane	56	14.430	14.430	(0.972)	199623	10.0000	9.646(a)
$	48 1,2-Dichloroethane-d4	102	13.637	13.637	(0.919)	42067	30.0000	29.11
	49 1,2-Dichloroethane	62	13.754	13.754	(0.927)	158782	10.0000	9.744
	50 1,1,1-Trichloroethane	97	13.945	13.945	(0.940)	137203	10.0000	9.541
	51 1,1-Dichloropropene	75	14.224	14.224	(0.958)	141733	10.0000	9.571
	53 Carbon tetrachloride	117	14.518	14.518	(0.978)	87543	10.0000	7.996
	54 Benzene	78	14.533	14.533	(0.979)	359237	10.0000	9.555
	58 Dibromomethane	93	15.414	15.414	(1.039)	59209	10.0000	9.317
	59 1,2-Dichloropropane	63	15.443	15.443	(1.041)	107174	10.0000	9.438
	60 Trichloroethene	95	15.517	15.517	(1.046)	94322	10.0000	9.565
	61 Bromodichloromethane	83	15.590	15.590	(1.050)	125051	10.0000	9.418
	62 Methyl methacrylate	41	15.708	15.708	(1.058)	120019	10.0000	9.274
	68 cis-1,3-Dichloropropene	75	16.530	16.530	(1.114)	168596	10.0000	9.641
	70 4-Methyl-2-pentanone	43	16.633	16.633	(1.121)	282901	20.0000	18.82(a)
	71 trans-1,3-Dichloropropene	75	17.147	17.147	(0.869)	154629	10.0000	10.39
	72 1,1,2-Trichloroethane	83	17.411	17.411	(0.882)	68771	10.0000	9.876
$	73 Toluene-d8	98	17.573	17.573	(0.891)	525890	30.0000	31.77
	74 Toluene	92	17.676	17.676	(0.896)	214289	10.0000	10.06
	76 1,3-Dichloropropane	76	17.764	17.764	(0.900)	163953	10.0000	10.34
	75 Ethyl methacrylate	69	17.676	17.676	(0.896)	141333	10.0000	10.26
	77 2-Hexanone	43	17.897	17.897	(0.907)	223034	20.0000	20.28(a)
	78 Dibromochloromethane	129	18.205	18.205	(0.923)	78105	10.0000	9.843
	79 1,2-Dibromoethane	107	18.573	18.573	(0.941)	85215	10.0000	10.44
	65 Methyl cyclohexane	83	16.354	16.354	(1.102)	167764	10.0000	9.664
	80 Tetrachloroethene	166	18.822	18.822	(0.954)	78684	10.0000	9.948
	81 1,1,1,2-Tetrachloroethane	131	19.689	19.689	(0.998)	72216	10.0000	9.794
*	82 Chlorobenzene-d5	82	19.733	19.733	(1.000)	271642	30.0000	
	83 Chlorobenzene	112	19.792	19.792	(1.003)	209400	10.0000	10.06
	87 Bromoform	173	20.557	20.557	(0.877)	50853	10.0000	9.032
	84 Ethylbenzene	91	20.013	20.013	(1.014)	403092	10.0000	10.32
	85 m,p-Xylene	91	20.277	20.277	(1.028)	596070	20.0000	20.21
M	91 Xylene(total)	91				908866	10.0000	29.75
	89 o-Xylene	91	20.881	20.881	(1.058)	312796	10.0000	10.24
	88 Styrene	104	20.763	20.763	(1.052)	246711	10.0000	10.14

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD03.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.895	20.895	(0.891)	114207	10.0000	9.433
	92 1,2,3-Trichloropropane	110	21.101	21.101	(1.069)	32450	10.0000	9.850
	94 Isopropylbenzene	105	21.396	21.396	(1.084)	366100	10.0000	10.13
$	95 Bromofluorobenzene	95	21.484	21.484	(1.089)	233027	30.0000	32.44
	96 Bromobenzene	156	21.852	21.852	(0.932)	80056	10.0000	9.181
	97 n-Propylbenzene	91	22.029	22.029	(0.940)	470822	10.0000	9.335
	98 2-Chlorotoluene	91	22.221	22.221	(0.948)	288837	10.0000	8.966
	99 4-Chlorotoluene	91	22.338	22.338	(0.953)	324969	10.0000	9.017
	100 1,3,5-Trimethylbenzene	105	22.383	22.383	(0.955)	292122	10.0000	9.442
	102 tert-Butylbenzene	119	22.869	22.869	(0.975)	248909	10.0000	9.190
	103 1,2,4-Trimethylbenzene	105	23.001	23.001	(0.981)	284765	10.0000	9.139
	104 sec-Butylbenzene	105	23.208	23.208	(0.990)	415918	10.0000	9.472
	105 1,3-Dichlorobenzene	146	23.399	23.399	(0.998)	185746	10.0000	10.97
*	106 1,4-Dichlorobenzene-d4	152	23.444	23.444	(1.000)	199679	30.0000	
	108 1,4-Dichlorobenzene	146	23.488	23.488	(1.002)	158159	10.0000	9.022(M)
	107 p-Isopropyltoluene	119	23.429	23.429	(0.999)	306484	10.0000	9.306
	109 1,2-Dichlorobenzene	146	24.063	24.063	(1.026)	142914	10.0000	9.453
	110 n-Butylbenzene	91	24.063	24.063	(1.026)	327652	10.0000	9.398
	111 1,2-Dibromo-3-chloropropane	157	24.785	24.785	(1.057)	19007	10.0000	9.070(a)
	112 1,2,4-Trichlorobenzene	180	26.995	26.995	(1.151)	92943	10.0000	9.047
	113 Naphthalene	128	27.467	27.467	(1.172)	266855	10.0000	9.198
	114 Hexachlorobutadiene	225	27.511	27.511	(1.174)	50041	10.0000	9.394
	115 1,2,3-Trichlorobenzene	180	27.866	27.866	(1.189)	87997	10.0000	9.128

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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Sample Info: V1STD10ppb;;;;;

Instrument: voa1.i

Operator: ADM
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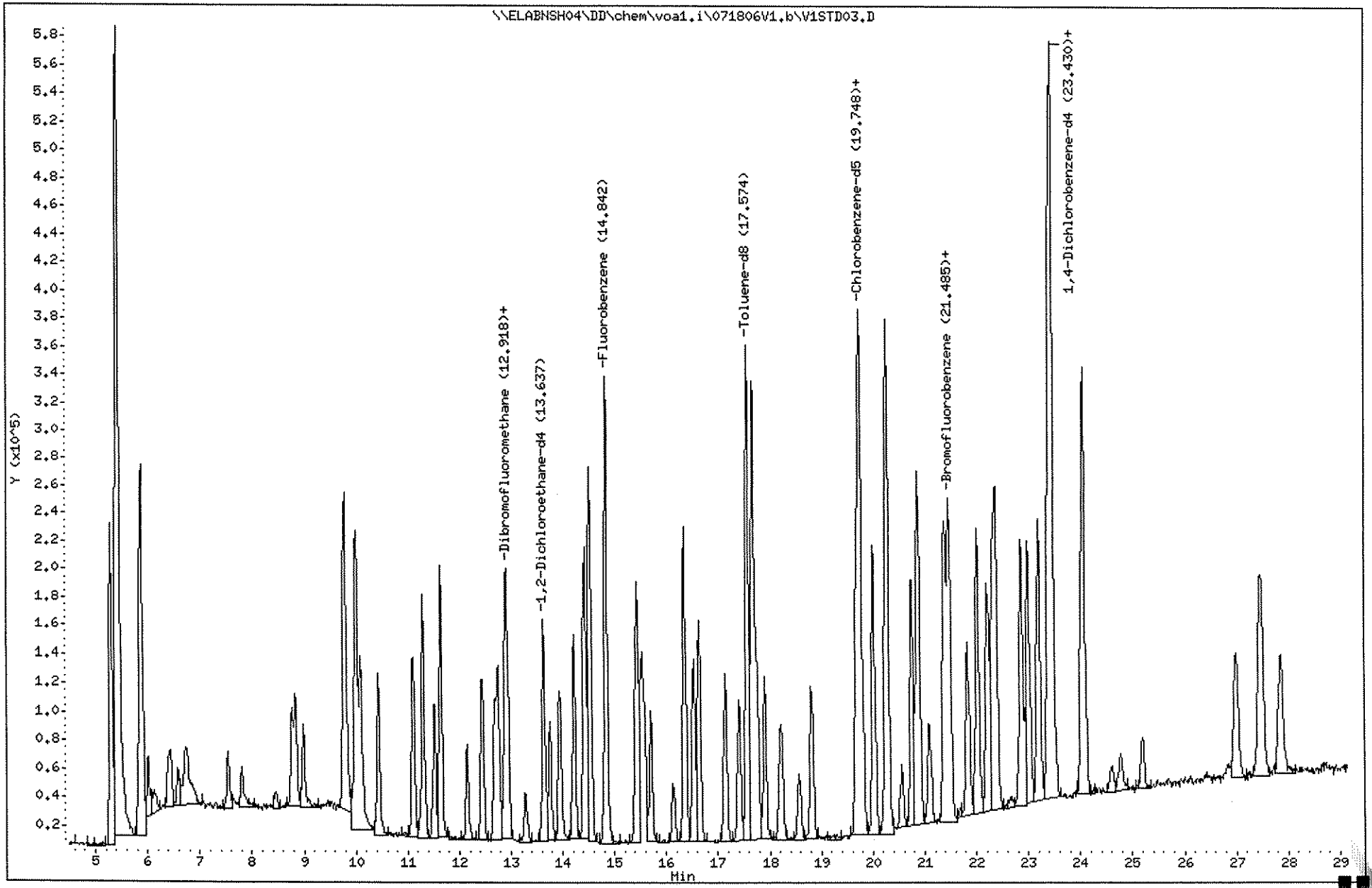

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD02.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD02.D
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Inj Date : 18-JUL-2006 13:42 MS Autotune Date: 08-JUN-2006 15:19
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Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 09:59 Cal File: V1STD07.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

7/19/06
7/18/c

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.840	14.840	(1.000)	587446	30.0000	
1 Dichlorodifluoromethane	85	6.018	6.018	(0.406)	56736	5.00000	4.648(aM)
4 Chloromethane	50	6.445	6.445	(0.434)	67622	5.00000	4.427(a)
5 Vinyl chloride	62	6.754	6.754	(0.455)	58420	5.00000	4.617(a)
6 Bromomethane	94	7.535	7.535	(0.508)	37786	5.00000	5.243(a)
7 Chloroethane	64	7.800	7.800	(0.526)	37100	5.00000	4.601(a)
9 Trichlorofluoromethane	101	8.845	8.845	(0.596)	73288	5.00000	5.106(a)
21 Trichlorotrifluoroethane	101	10.097	10.097	(0.680)	47200	5.00000	5.097
8 Acrolein	56	8.772	8.772	(0.591)	58566	25.0000	23.77(a)
12 Acetone	43	8.992	8.992	(0.606)	84076	10.0000	9.938(a)
15 1,1-Dichloroethene	96	9.773	9.773	(0.659)	44425	5.00000	5.316
16 Iodomethane	142	9.846	9.846	(0.664)	46361	5.00000	4.594(a)
17 Acrylonitrile	53	9.788	9.788	(0.660)	96981	25.0000	25.90
20 Methylene chloride	84	10.008	10.008	(0.674)	103448	5.00000	3.249(a)
25 Carbon disulfide	76	10.435	10.435	(0.703)	172610	5.00000	4.885(a)

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD02.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.110	11.110	(0.749)	47293	5.00000	4.895(a)
	29 MTBE	73	11.301	11.301	(0.762)	151472	5.00000	5.007
	30 1,1-Dichloroethane	63	11.521	11.521	(0.776)	103721	5.00000	5.065
	32 Vinyl acetate	43	11.639	11.639	(0.784)	293019	10.0000	9.826(a)
	35 2-Butanone	43	12.152	12.152	(0.819)	90635	10.0000	9.784(a)
	38 cis-1,2-Dichloroethene	96	12.431	12.431	(0.838)	49808	5.00000	4.813(a)
M	18 1,2-Dichloroethene(total)	96				97101	10.0000	9.705
	41 Bromochloromethane	128	12.696	12.696	(0.856)	22875	5.00000	4.896(a)
	42 Chloroform	83	12.754	12.754	(0.859)	90320	5.00000	4.933(a)
	43 2,2-Dichloropropane	77	12.887	12.887	(0.868)	76551	5.00000	4.745(a)
$	44 Dibromofluoromethane	111	12.931	12.931	(0.871)	159591	30.0000	29.77
	22 Methyl acetate	43	10.023	10.023	(0.675)	56089	5.00000	6.211
	47 Tetrahydrofuran	42	13.283	13.283	(0.895)	25349	5.00000	5.662(a)
	52 Cyclohexane	56	14.429	14.429	(0.972)	102979	5.00000	4.979(a)
$	48 1,2-Dichloroethane-d4	102	13.650	13.650	(0.920)	43454	30.0000	30.09
	49 1,2-Dichloroethane	62	13.768	13.768	(0.928)	82778	5.00000	5.083
	50 1,1,1-Trichloroethane	97	13.944	13.944	(0.940)	71322	5.00000	4.963(a)
	51 1,1-Dichloropropene	75	14.223	14.223	(0.958)	75317	5.00000	5.089
	53 Carbon tetrachloride	117	14.517	14.517	(0.978)	42777	5.00000	3.910(a)
	54 Benzene	78	14.531	14.531	(0.979)	187678	5.00000	4.995(a)
	58 Dibromomethane	93	15.412	15.412	(1.039)	30706	5.00000	4.835(a)
	59 1,2-Dichloropropane	63	15.456	15.456	(1.042)	58615	5.00000	5.165
	60 Trichloroethene	95	15.530	15.530	(1.047)	48578	5.00000	4.930(a)
	61 Bromodichloromethane	83	15.589	15.589	(1.050)	64570	5.00000	4.866(a)
	62 Methyl methacrylate	41	15.706	15.706	(1.058)	62462	5.00000	4.829(a)
	68 cis-1,3-Dichloropropene	75	16.528	16.528	(1.114)	84555	5.00000	4.838(a)
	70 4-Methyl-2-pentanone	43	16.646	16.646	(1.122)	150653	10.0000	10.03(a)
	71 trans-1,3-Dichloropropene	75	17.145	17.145	(0.868)	74213	5.00000	4.926(a)
	72 1,1,2-Trichloroethane	83	17.409	17.409	(0.882)	36728	5.00000	5.210
$	73 Toluene-d8	98	17.571	17.571	(0.890)	529271	30.0000	31.59
	74 Toluene	92	17.689	17.689	(0.896)	114223	5.00000	5.298
	76 1,3-Dichloropropane	76	17.762	17.762	(0.900)	81941	5.00000	5.104
	75 Ethyl methacrylate	69	17.689	17.689	(0.896)	72799	5.00000	5.219
	77 2-Hexanone	43	17.909	17.909	(0.907)	109289	10.0000	9.814(a)
	78 Dibromochloromethane	129	18.218	18.218	(0.923)	40196	5.00000	5.004
	79 1,2-Dibromoethane	107	18.570	18.570	(0.940)	41487	5.00000	5.020
	65 Methyl cyclohexane	83	16.352	16.352	(1.102)	85072	5.00000	4.903(a)
	80 Tetrachloroethene	166	18.820	18.820	(0.953)	40857	5.00000	5.102
	81 1,1,1,2-Tetrachloroethane	131	19.686	19.686	(0.997)	37401	5.00000	5.010
*	82 Chlorobenzene-d5	82	19.745	19.745	(1.000)	275011	30.0000	
	83 Chlorobenzene	112	19.790	19.790	(1.002)	107676	5.00000	5.110
	87 Bromoform	173	20.569	20.569	(0.877)	25392	5.00000	4.571(a)
	84 Ethylbenzene	91	20.025	20.025	(1.014)	209615	5.00000	5.299
	85 m,p-Xylene	91	20.275	20.275	(1.027)	317979	10.0000	10.65
M	91 Xylene(total)	91				476947	5.00000	15.42
	89 o-Xylene	91	20.878	20.878	(1.057)	158968	5.00000	5.140
	88 Styrene	104	20.775	20.775	(1.052)	125458	5.00000	5.093

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD02.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.907	20.907	(0.891)	58208	5.00000	4.872(a)
	92 1,2,3-Trichloropropane	110	21.099	21.099	(1.069)	16424	5.00000	4.924(a)
	94 Isopropylbenzene	105	21.393	21.393	(1.083)	189549	5.00000	5.182
$	95 Bromofluorobenzene	95	21.481	21.481	(1.088)	232540	30.0000	31.97
	96 Bromobenzene	156	21.849	21.849	(0.932)	40556	5.00000	4.714(a)
	97 n-Propylbenzene	91	22.026	22.026	(0.939)	244795	5.00000	4.919(a)
	98 2-Chlorotoluene	91	22.232	22.232	(0.948)	161837	5.00000	5.091
	99 4-Chlorotoluene	91	22.320	22.320	(0.952)	161563	5.00000	4.543(a)
	100 1,3,5-Trimethylbenzene	105	22.394	22.394	(0.955)	150760	5.00000	4.938(a)
	102 tert-Butylbenzene	119	22.880	22.880	(0.975)	129045	5.00000	4.828(a)
	103 1,2,4-Trimethylbenzene	105	23.013	23.013	(0.981)	151282	5.00000	4.920(a)
	104 sec-Butylbenzene	105	23.219	23.219	(0.990)	210805	5.00000	4.865(a)
	105 1,3-Dichlorobenzene	146	23.396	23.396	(0.997)	91569	5.00000	5.479
*	106 1,4-Dichlorobenzene-d4	152	23.455	23.455	(1.000)	197030	30.0000	
	108 1,4-Dichlorobenzene	146	23.484	23.484	(1.001)	74547	5.00000	4.310(aM)
	107 p-Isopropyltoluene	119	23.440	23.440	(0.999)	158968	5.00000	4.892(a)
	109 1,2-Dichlorobenzene	146	24.059	24.059	(1.026)	72351	5.00000	4.850(a)
	110 n-Butylbenzene	91	24.074	24.074	(1.026)	170545	5.00000	4.957(a)
	111 1,2-Dibromo-3-chloropropane	157	24.796	24.796	(1.057)	10125	5.00000	4.897(a)
	112 1,2,4-Trichlorobenzene	180	26.991	26.991	(1.151)	48493	5.00000	4.784(a)
	113 Naphthalene	128	27.477	27.477	(1.172)	143177	5.00000	5.001
	114 Hexachlorobutadiene	225	27.492	27.492	(1.172)	24874	5.00000	4.732(a)
	115 1,2,3-Trichlorobenzene	180	27.846	27.846	(1.187)	45190	5.00000	4.751(a)

QC Flag Legend

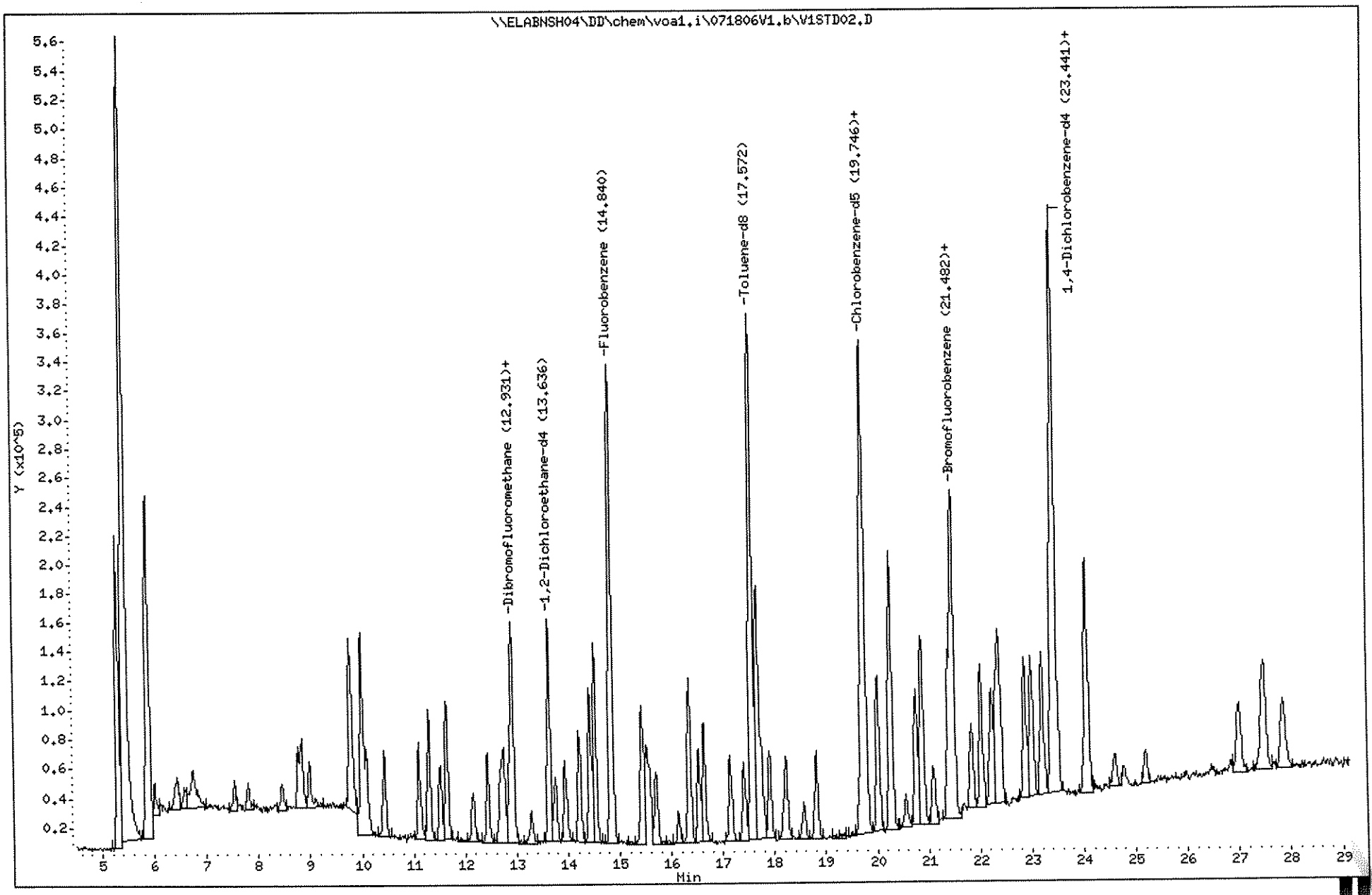
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD02.D
Date : 18-JUL-2006 13:42
Client ID: V1STD5ppb
Sample Info: V1STD5ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD01.D
Report Date: 18-Jul-2006 15:04

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD01.D
Lab Smp Id: V1STD2ppb Client Smp ID: V1STD2ppb
Inj Date : 18-JUL-2006 14:19 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD2ppb;;;;;
Misc Info : ;1;;;1;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\VSOIL1.m
Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.853	14.853	(1.000)	581643	30.0000	
1 Dichlorodifluoromethane	85	6.018	6.018	(0.405)	23756	2.00000	1.966(aM)
4 Chloromethane	50	6.445	6.445	(0.434)	30787	2.00000	2.036(a)
5 Vinyl chloride	62	6.769	6.769	(0.456)	21898	2.00000	1.748(a)
6 Bromomethane	94	7.549	7.549	(0.508)	15640	2.00000	2.192(a)
7 Chloroethane	64	7.814	7.814	(0.526)	16393	2.00000	2.053(a)
9 Trichlorofluoromethane	101	8.844	8.844	(0.595)	30145	2.00000	2.121(a)
21 Trichlorotrifluoroethane	101	10.096	10.096	(0.680)	17883	2.00000	1.950(a)
8 Acrolein	56	8.786	8.786	(0.592)	25434	10.0000	10.42(a)
12 Acetone	43	8.992	8.992	(0.605)	46429	4.00000	4.592(a)
15 1,1-Dichloroethene	96	9.772	9.772	(0.658)	17536	2.00000	2.119(a)
16 Iodomethane	142	9.846	9.846	(0.663)	17743	2.00000	1.776(a)
17 Acrylonitrile	53	9.787	9.787	(0.659)	40970	10.0000	11.05(a)
20 Methylene chloride	84	10.007	10.007	(0.674)	81662	2.00000	1.036(a)
25 Carbon disulfide	76	10.434	10.434	(0.702)	73057	2.00000	2.088(a)

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD01.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.109	11.109	(0.748)	19247	2.00000	2.012(a)
	29 MTBE	73	11.300	11.300	(0.761)	66310	2.00000	2.214(a)
	30 1,1-Dichloroethane	63	11.520	11.520	(0.776)	44173	2.00000	2.178(a)
	32 Vinyl acetate	43	11.652	11.652	(0.785)	117868	4.00000	3.992(a)
	35 2-Butanone	43	12.166	12.166	(0.819)	48900	4.00000	5.331(a)
	38 cis-1,2-Dichloroethene	96	12.459	12.459	(0.839)	22615	2.00000	2.207(a)
M	18 1,2-Dichloroethene(total)	96				41862	4.00000	4.226(a)
	41 Bromochloromethane	128	12.694	12.694	(0.855)	9177	2.00000	1.984(a)
	42 Chloroform	83	12.753	12.753	(0.859)	40920	2.00000	2.257(a)
	43 2,2-Dichloropropane	77	12.900	12.900	(0.869)	34807	2.00000	2.179(a)
$	44 Dibromofluoromethane	111	12.930	12.930	(0.871)	160067	30.0000	30.16
	22 Methyl acetate	43	10.022	10.022	(0.675)	27734	2.00000	3.102(a)
	47 Tetrahydrofuran	42	13.297	13.297	(0.895)	9617	2.00000	2.169(a)
	52 Cyclohexane	56	14.427	14.427	(0.971)	46307	2.00000	2.261(a)
$	48 1,2-Dichloroethane-d4	102	13.649	13.649	(0.919)	43268	30.0000	30.26
	49 1,2-Dichloroethane	62	13.766	13.766	(0.927)	34111	2.00000	2.116(a)
	50 1,1,1-Trichloroethane	97	13.957	13.957	(0.940)	28517	2.00000	2.004(a)
	51 1,1-Dichloropropene	75	14.236	14.236	(0.958)	30652	2.00000	2.092(a)
	53 Carbon tetrachloride	117	14.530	14.530	(0.978)	14915	2.00000	1.377(a)
	54 Benzene	78	14.530	14.530	(0.978)	82596	2.00000	2.220(a)
	58 Dibromomethane	93	15.425	15.425	(1.039)	12805	2.00000	2.036(a)
	59 1,2-Dichloropropane	63	15.455	15.455	(1.041)	24420	2.00000	2.173(a)
	60 Trichloroethene	95	15.528	15.528	(1.045)	21502	2.00000	2.204(a)
	61 Bromodichloromethane	83	15.587	15.587	(1.049)	26322	2.00000	2.004(a)
	62 Methyl methacrylate	41	15.719	15.719	(1.058)	27520	2.00000	2.149(a)
	68 cis-1,3-Dichloropropene	75	16.541	16.541	(1.114)	36333	2.00000	2.100(a)
	70 4-Methyl-2-pentanone	43	16.644	16.644	(1.121)	68469	4.00000	4.602(a)
	71 trans-1,3-Dichloropropene	75	17.157	17.157	(0.869)	30830	2.00000	2.103(a)
	72 1,1,2-Trichloroethane	83	17.422	17.422	(0.882)	16529	2.00000	2.409(a)
$	73 Toluene-d8	98	17.583	17.583	(0.891)	519017	30.0000	31.83
	74 Toluene	92	17.686	17.686	(0.896)	51056	2.00000	2.434(a)
	76 1,3-Dichloropropane	76	17.775	17.775	(0.900)	36895	2.00000	2.362(a)
	75 Ethyl methacrylate	69	17.686	17.686	(0.896)	31699	2.00000	2.335(a)
	77 2-Hexanone	43	17.907	17.907	(0.907)	50548	4.00000	4.664(a)
	78 Dibromochloromethane	129	18.200	18.200	(0.922)	16421	2.00000	2.101(a)
	79 1,2-Dibromoethane	107	18.568	18.568	(0.940)	17361	2.00000	2.159(a)
	65 Methyl cyclohexane	83	16.365	16.365	(1.102)	36596	2.00000	2.130(a)
	80 Tetrachloroethene	166	18.817	18.817	(0.953)	17205	2.00000	2.208(a)
	81 1,1,1,2-Tetrachloroethane	131	19.684	19.684	(0.997)	15941	2.00000	2.194(aM)
*	82 Chlorobenzene-d5	82	19.743	19.743	(1.000)	267615	30.0000	
	83 Chlorobenzene	112	19.787	19.787	(1.002)	45091	2.00000	2.199(a)
	87 Bromoform	173	20.595	20.595	(0.878)	10449	2.00000	1.909(a)
	84 Ethylbenzene	91	20.022	20.022	(1.014)	83216	2.00000	2.162(a)
	85 m,p-Xylene	91	20.286	20.286	(1.028)	135782	4.00000	4.672(a)
M	91 Xylene(total)	91				206229	2.00000	6.853
	89 o-Xylene	91	20.875	20.875	(1.057)	70447	2.00000	2.341(a)
	88 Styrene	104	20.757	20.757	(1.051)	52499	2.00000	2.190(a)

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD01.D
Report Date: 18-Jul-2006 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.904	20.904	(0.891)	26306	2.00000	2.235(a)
	92 1,2,3-Trichloropropane	110	21.095	21.095	(1.069)	7938	2.00000	2.446(a)
	94 Isopropylbenzene	105	21.389	21.389	(1.083)	82140	2.00000	2.308(a)
$	95 Bromofluorobenzene	95	21.493	21.493	(1.089)	228380	30.0000	32.27
	96 Bromobenzene	156	21.846	21.846	(0.932)	18302	2.00000	2.159(a)
	97 n-Propylbenzene	91	22.037	22.037	(0.940)	103024	2.00000	2.101(a)
	98 2-Chlorotoluene	91	22.243	22.243	(0.949)	61890	2.00000	1.976(a)
	99 4-Chlorotoluene	91	22.332	22.332	(0.952)	77061	2.00000	2.199(a)
	100 1,3,5-Trimethylbenzene	105	22.391	22.391	(0.955)	61925	2.00000	2.058(a)
	102 tert-Butylbenzene	119	22.876	22.876	(0.975)	56741	2.00000	2.155(a)
	103 1,2,4-Trimethylbenzene	105	23.009	23.009	(0.981)	63142	2.00000	2.084(a)
	104 sec-Butylbenzene	105	23.215	23.215	(0.990)	88912	2.00000	2.083(a)
	105 1,3-Dichlorobenzene	146	23.392	23.392	(0.997)	32034	2.00000	1.945(aM)
*	106 1,4-Dichlorobenzene-d4	152	23.451	23.451	(1.000)	194136	30.0000	
	108 1,4-Dichlorobenzene	146	23.495	23.495	(1.002)	40859	2.00000	2.397(aM)
	107 p-Isopropyltoluene	119	23.436	23.436	(0.999)	69174	2.00000	2.160(a)
	109 1,2-Dichlorobenzene	146	24.070	24.070	(1.026)	31816	2.00000	2.164(a)
	110 n-Butylbenzene	91	24.070	24.070	(1.026)	73160	2.00000	2.158(a)
	111 1,2-Dibromo-3-chloropropane	157	24.777	24.777	(1.057)	3829	2.00000	1.879(a)
	112 1,2,4-Trichlorobenzene	180	27.016	27.016	(1.152)	21731	2.00000	2.176(a)
	113 Naphthalene	128	27.458	27.458	(1.171)	69784	2.00000	2.474(a)
	114 Hexachlorobutadiene	225	27.502	27.502	(1.173)	10993	2.00000	2.122(a)
	115 1,2,3-Trichlorobenzene	180	27.871	27.871	(1.188)	21464	2.00000	2.290(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

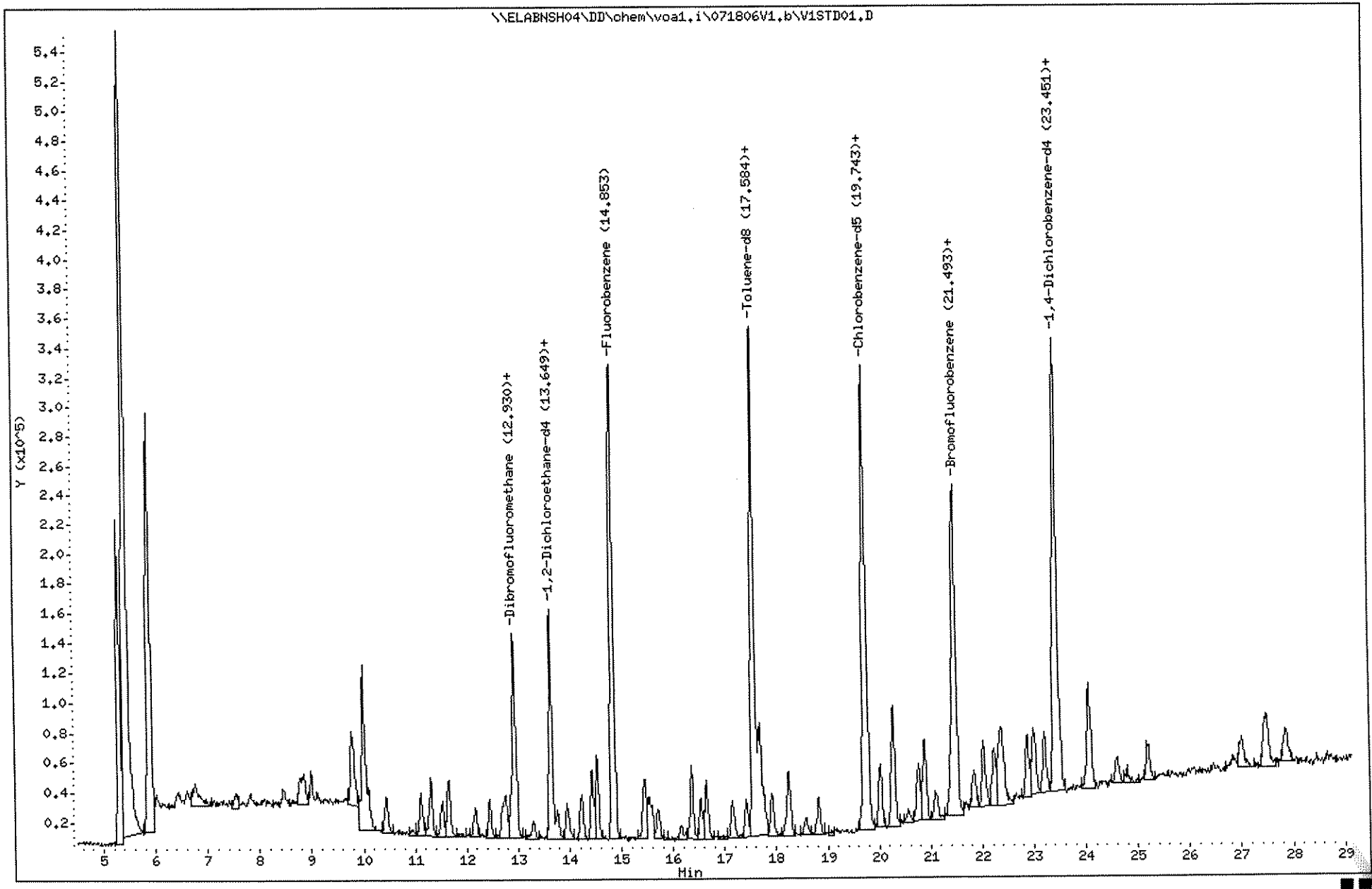
Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1STD01.D
Date : 18-JUL-2006 14:19
Client ID: V1STD2ppb
Sample Info: V1STD2ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000125



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FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF0.5: V3STD01 RF1: V3STD02 RF2: V3STD03
RF10: V3STD04 RF20: V3STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetone		0.167	0.111	0.090	0.087
Acrolein		0.005	0.006	0.005	0.004
Acrylonitrile	0.058	0.063	0.063	0.072	0.071
Benzene	0.792	0.762	0.734	0.830	0.837
Bromobenzene	0.617	0.596	0.533	0.620	0.636
Bromochloromethane	0.106	0.111	0.105	0.126	0.121
Bromodichloromethane	0.316	0.306	0.285	0.308	0.319
Bromoform	0.290	0.306	0.316	0.369	0.370
Bromomethane	0.152	0.100	0.092	0.108	0.116
2-Butanone		0.141	0.119	0.092	0.090
n-Butylbenzene	1.294	1.089	1.008	1.176	0.979
sec-Butylbenzene	1.974	1.761	1.736	1.992	1.765
tert-Butylbenzene	1.516	1.360	1.272	1.503	1.389
Carbon disulfide	0.654	0.613	0.582	0.632	0.639
Carbon tetrachloride	0.393	0.337	0.329	0.350	0.352
Chlorobenzene	1.462	1.415	1.378	1.533	1.519
Chloroethane	0.120	0.110	0.093	0.120	0.118
2-Chloroethyl vinyl ether	0.098	0.109	0.110	0.129	0.131
Chloroform	0.476	0.417	0.392	0.402	0.394
Chloromethane	0.188	0.246	0.213	0.230	0.229
2-Chlorotoluene	1.482	1.354	1.350	1.509	1.571
4-Chlorotoluene	1.510	1.409	1.438	1.643	1.684
Cyclohexane	0.351	0.306	0.310	0.327	0.332
Dibromochloromethane	0.462	0.460	0.464	0.532	0.531
1,2-Dibromo-3-chloropropane	0.136	0.120	0.119	0.122	0.130
1,2-Dibromoethane	0.453	0.441	0.420	0.496	0.476
Dibromomethane	0.148	0.144	0.131	0.149	0.146
1,2-Dichlorobenzene	1.092	0.981	0.989	1.091	1.123
1,3-Dichlorobenzene	1.253	1.097	1.061	1.126	1.197
1,4-Dichlorobenzene	1.145	1.246	1.149	1.192	1.140
Dichlorodifluoromethane	0.244	0.226	0.238	0.252	0.254
1,1-Dichloroethane	0.371	0.360	0.321	0.359	0.366
1,2-Dichloroethane	0.331	0.316	0.302	0.328	0.317
1,1-Dichloroethene	0.176	0.186	0.158	0.175	0.175
cis-1,2-Dichloroethene	0.225	0.197	0.193	0.215	0.217
1,2-Dichloroethene(total)	0.226	0.202	0.191	0.209	0.210
trans-1,2-Dichloroethene	0.228	0.207	0.190	0.203	0.202

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF0.5: V3STD01 RF1: V3STD02 RF2: V3STD03
RF10: V3STD04 RF20: V3STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
1,2-Dichloropropane	0.212	0.209	0.188	0.215	0.217
1,3-Dichloropropane	0.698	0.680	0.665	0.734	0.701
2,2-Dichloropropane	0.274	0.276	0.277	0.300	0.310
1,1-Dichloropropene	0.294	0.278	0.260	0.286	0.293
cis-1,3-Dichloropropene	0.316	0.302	0.314	0.368	0.382
trans-1,3-Dichloropropene	0.585	0.556	0.572	0.704	0.702
Ethylbenzene	2.201	2.161	2.097	2.476	2.427
Ethyl methacrylate	0.258	0.334	0.373	0.498	0.522
Hexachlorobutadiene	0.316	0.254	0.253	0.222	0.197
2-Hexanone	0.202	0.229	0.213	0.306	0.309
Iodomethane	0.192	0.219	0.229	0.305	0.314
Isopropylbenzene	2.308	2.192	2.102	2.430	2.412
p-Isopropyltoluene	1.645	1.499	1.429	1.671	1.376
Methyl acetate		0.151	0.148	0.158	0.152
Methyl cyclohexane	0.310	0.323	0.301	0.328	0.334
Methylene chloride		0.297	0.255	0.223	0.220
Methyl methacrylate	0.148	0.141	0.146	0.179	0.191
MTBE	0.665	0.575	0.528	0.565	0.562
4-Methyl-2-pentanone	0.191	0.183	0.180	0.207	0.214
Naphthalene	1.367	1.079	1.035	1.133	1.114
n-Propylbenzene	2.190	2.068	2.026	2.367	2.343
Styrene	1.078	1.131	1.133	1.493	1.539
1,1,1,2-Tetrachloroethane	0.512	0.515	0.482	0.560	0.550
1,1,2,2-Tetrachloroethane	0.529	0.494	0.461	0.500	0.518
Tetrachloroethene	0.648	0.589	0.532	0.593	0.579
Tetrahydrofuran	0.172	0.111	0.080	0.057	0.054
Toluene	1.388	1.204	1.126	1.226	1.187
1,2,3-Trichlorobenzene	0.649	0.493	0.490	0.514	0.477
1,2,4-Trichlorobenzene	0.676	0.559	0.500	0.554	0.510
1,1,1-Trichloroethane	0.395	0.384	0.362	0.380	0.377
1,1,2-Trichloroethane	0.307	0.349	0.305	0.359	0.342
Trichloroethene	0.253	0.232	0.219	0.244	0.250
Trichlorofluoromethane	0.437	0.377	0.344	0.371	0.373
Trichlorotrifluoroethane	0.244	0.227	0.206	0.207	0.202
1,2,3-Trichloropropane	0.217	0.208	0.191	0.201	0.197
1,2,4-Trimethylbenzene	1.334	1.270	1.262	1.597	1.443
1,3,5-Trimethylbenzene	1.501	1.385	1.407	1.675	1.600

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF0.5: V3STD01 RF1: V3STD02 RF2: V3STD03
RF10: V3STD04 RF20: V3STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Vinyl acetate	0.282	0.284	0.294	0.376	0.397
Vinyl chloride	0.221	0.209	0.194	0.211	0.211
Xylene(total)	1.688	1.707	1.756	2.007	1.996
Dibromofluoromethane	0.272	0.268	0.268	0.266	0.266
1,2-Dichloroethane-d4	0.060	0.058	0.056	0.058	0.058
Toluene-d8	2.106	2.163	2.137	2.181	2.136
Bromofluorobenzene	0.986	1.015	1.007	1.023	0.990

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF50: V3STD06 RF100: V3STD07 RF200: V3STD08

COMPOUND	RF50	RF100	RF200
Acetone	0.082	0.084	0.084
Acrolein	0.004	0.004	0.004
Acrylonitrile	0.067	0.067	0.063
Benzene	0.791	0.793	0.725
Bromobenzene	0.598	0.613	0.597
Bromochloromethane	0.116	0.116	0.109
Bromodichloromethane	0.300	0.307	0.298
Bromoform	0.372	0.371	0.349
Bromomethane	0.121	0.131	0.130
2-Butanone	0.090	0.094	0.093
n-Butylbenzene	1.282	1.158	1.386
sec-Butylbenzene	2.105	2.021	1.842
tert-Butylbenzene	1.559	1.556	1.478
Carbon disulfide	0.608	0.603	0.569
Carbon tetrachloride	0.336	0.346	0.344
Chlorobenzene	1.426	1.344	1.142
Chloroethane	0.110	0.111	0.102
2-Chloroethyl vinyl ether	0.128	0.130	0.125
Chloroform	0.372	0.368	0.351
Chloromethane	0.205	0.210	0.195
2-Chlorotoluene	1.524	1.557	1.406
4-Chlorotoluene	1.641	1.670	1.517
Cyclohexane	0.322	0.324	0.315
Dibromochloromethane	0.521	0.510	0.476
1,2-Dibromo-3-chloropropane	0.126	0.134	0.142
1,2-Dibromoethane	0.448	0.438	0.403
Dibromomethane	0.138	0.140	0.133
1,2-Dichlorobenzene	1.088	1.103	1.054
1,3-Dichlorobenzene	1.177	1.199	1.156
1,4-Dichlorobenzene	1.233	1.254	1.142
Dichlorodifluoromethane	0.237	0.238	0.242
1,1-Dichloroethane	0.341	0.342	0.316
1,2-Dichloroethane	0.298	0.303	0.295
1,1-Dichloroethene	0.164	0.161	0.154
cis-1,2-Dichloroethene	0.202	0.201	0.187
1,2-Dichloroethene(total)	0.196	0.194	0.180
trans-1,2-Dichloroethene	0.191	0.188	0.172

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF50: V3STD06 RF100: V3STD07 RF200: V3STD08

COMPOUND	RF50	RF100	RF200
1,2-Dichloropropane	0.212	0.209	0.195
1,3-Dichloropropane	0.675	0.644	0.577
2,2-Dichloropropane	0.308	0.314	0.313
1,1-Dichloropropene	0.282	0.286	0.277
cis-1,3-Dichloropropene	0.370	0.377	0.360
trans-1,3-Dichloropropene	0.685	0.673	0.625
Ethylbenzene	2.254	2.119	1.679
Ethyl methacrylate	0.522	0.537	0.477
Hexachlorobutadiene	0.230	0.226	0.250
2-Hexanone	0.300	0.312	0.282
Iodomethane	0.313	0.309	0.277
Isopropylbenzene	2.292	2.169	1.669
p-Isopropyltoluene	1.756	1.568	1.603
Methyl acetate	0.140	0.142	0.138
Methyl cyclohexane	0.333	0.328	0.322
Methylene chloride	0.191	0.201	0.184
Methyl methacrylate	0.190	0.198	0.198
MTBE	0.534	0.546	0.528
4-Methyl-2-pentanone	0.204	0.210	0.201
Naphthalene	1.185	1.240	1.320
n-Propylbenzene	2.408	2.363	1.942
Styrene	1.495	1.453	1.222
1,1,1,2-Tetrachloroethane	0.520	0.499	0.459
1,1,2,2-Tetrachloroethane	0.471	0.471	0.450
Tetrachloroethene	0.542	0.515	0.466
Tetrahydrofuran	0.052	0.053	0.051
Toluene	1.123	1.054	0.926
1,2,3-Trichlorobenzene	0.520	0.538	0.582
1,2,4-Trichlorobenzene	0.571	0.599	0.660
1,1,1-Trichloroethane	0.359	0.356	0.355
1,1,2-Trichloroethane	0.316	0.304	0.276
Trichloroethene	0.237	0.239	0.229
Trichlorofluoromethane	0.350	0.352	0.356
Trichlorotrifluoroethane	0.193	0.190	0.186
1,2,3-Trichloropropane	0.180	0.178	0.161
1,2,4-Trimethylbenzene	1.662	1.566	1.598
1,3,5-Trimethylbenzene	1.721	1.677	1.600

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

LAB FILE ID: RF50: V3STD06 RF100: V3STD07 RF200: V3STD08

COMPOUND	RF50	RF100	RF200
Vinyl acetate	0.407	0.416	0.403
Vinyl chloride	0.192	0.185	0.174
Xylene(total)	1.882	1.777	1.433
Dibromofluoromethane	0.261	0.257	0.261
1,2-Dichloroethane-d4	0.057	0.058	0.055
Toluene-d8	2.095	1.991	1.862
Bromofluorobenzene	0.976	0.948	0.889

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetone	LINR	-3.77e-002	8.339e-002	1.000
Acrolein	LINR	0.00000000	4.098e-003	0.994
Acrylonitrile	AVRG		6.561e-002	6.7
Benzene	AVRG		0.78306763	5.2
Bromobenzene	AVRG		0.60127227	5.1
Bromochloromethane	AVRG		0.11379277	6.6
Bromodichloromethane	AVRG		0.30500880	3.4
Bromoform	AVRG		0.34288715	9.8
Bromomethane	LINR	0.00000000	0.12940902	0.999
2-Butanone	LINR	0.00000000	9.309e-002	1.000
n-Butylbenzene	AVRG		1.17160851	12.2
sec-Butylbenzene	AVRG		1.89956750	7.4
tert-Butylbenzene	AVRG		1.45409356	7.1
Carbon disulfide	AVRG		0.61252416	4.6
Carbon tetrachloride	AVRG		0.34858321	5.6
Chlorobenzene	AVRG		1.40234279	8.8
Chloroethane	AVRG		0.11055798	8.5
2-Chloroethyl vinyl ether	AVRG		0.11990020	10.5
Chloroform	AVRG		0.39643437	9.7
Chloromethane	AVRG		0.21441205	9.0
2-Chlorotoluene	AVRG		1.46916979	6.0
4-Chlorotoluene	AVRG		1.56421611	6.9
Cyclohexane	AVRG		0.32345114	4.4
Dibromochloromethane	AVRG		0.49449026	6.5
1,2-Dibromo-3-chloropropane	AVRG		0.12845128	6.4
1,2-Dibromoethane	AVRG		0.44710457	6.6
Dibromomethane	AVRG		0.14116102	4.7
1,2-Dichlorobenzene	AVRG		1.06506007	5.0
1,3-Dichlorobenzene	AVRG		1.15809722	5.3
1,4-Dichlorobenzene	AVRG		1.18754319	4.2
Dichlorodifluoromethane	AVRG		0.24150882	3.7
1,1-Dichloroethane	AVRG		0.34694568	5.9
1,2-Dichloroethane	AVRG		0.31132190	4.4
1,1-Dichloroethene	AVRG		0.16875442	6.5
cis-1,2-Dichloroethene	AVRG		0.20459532	6.4
1,2-Dichloroethene(total)	AVRG		0.20119217	7.0
trans-1,2-Dichloroethene	AVRG		0.19778902	8.3

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
1,2-Dichloropropane	AVRG		0.20723153	4.8
1,3-Dichloropropane	AVRG		0.67176862	6.9
2,2-Dichloropropane	AVRG		0.29658931	6.1
1,1-Dichloropropene	AVRG		0.28204702	3.8
cis-1,3-Dichloropropene	AVRG		0.34881379	9.2
trans-1,3-Dichloropropene	AVRG		0.63788602	9.6
Ethylbenzene	AVRG		2.17680890	11.2
Ethyl methacrylate	LINR	0.00000000	0.49232147	0.996
Hexachlorobutadiene	AVRG		0.24364444	14.4
2-Hexanone	LINR	0.00000000	0.28931368	0.997
Iodomethane	LINR	0.00000000	0.28592401	0.996
Isopropylbenzene	AVRG		2.19663058	11.0
p-Isopropyltoluene	AVRG		1.56836429	8.1
Methyl acetate	AVRG		0.14712881	4.8
Methyl cyclohexane	AVRG		0.32227052	3.5
Methylene chloride	LINR	-7.59e-002	0.18540458	0.998
Methyl methacrylate	AVRG		0.17387169	14.2
MTBE	AVRG		0.56299016	7.9
4-Methyl-2-pentanone	AVRG		0.19867384	6.3
Naphthalene	AVRG		1.18422056	9.9
n-Propylbenzene	AVRG		2.21335015	8.2
Styrene	AVRG		1.31788865	14.8
1,1,1,2-Tetrachloroethane	AVRG		0.51222893	6.5
1,1,2,2-Tetrachloroethane	AVRG		0.48685525	5.7
Tetrachloroethene	AVRG		0.55809545	10.0
Tetrahydrofuran	LINR	0.00000000	5.122e-002	0.999
Toluene	AVRG		1.15430262	11.7
1,2,3-Trichlorobenzene	AVRG		0.53300364	10.8
1,2,4-Trichlorobenzene	AVRG		0.57876907	11.0
1,1,1-Trichloroethane	AVRG		0.37107114	4.0
1,1,2-Trichloroethane	AVRG		0.31972303	8.7
Trichloroethene	AVRG		0.23774599	4.7
Trichlorofluoromethane	AVRG		0.37010146	8.0
Trichlorotrifluoroethane	AVRG		0.20682426	9.5
1,2,3-Trichloropropane	AVRG		0.19169382	9.5
1,2,4-Trimethylbenzene	AVRG		1.46661590	11.0
1,3,5-Trimethylbenzene	AVRG		1.57081369	8.1

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date(s): 07/19/06 07/19/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1506 1906

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Vinyl acetate	LINR	0.00000000	0.40601750	1.000
Vinyl chloride	AVRG		0.19965433	8.0
Xylene(total)	AVRG		1.78072807	10.5
Dibromofluoromethane	AVRG		0.26493663	1.8
1,2-Dichloroethane-d4	AVRG		5.752e-002	2.4
Toluene-d8	AVRG		2.08404151	5.1
Bromofluorobenzene	AVRG		0.97925804	4.4

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD08.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD08.D
Lab Smp Id: V3STD200PPB Client Smp ID: V3STD200PPB
Inj Date : 19-JUL-2006 15:06 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3STD200PPB;;;;;;
Misc Info : ;1;;;8;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\VWATER3.m
Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	792453	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	1278228	200.000	200.4
2 Chloromethane	50	4.054	4.054	(0.303)	1031239	200.000	182.1
4 Vinyl chloride	62	4.304	4.304	(0.322)	920146	200.000	174.5
7 Bromomethane	94	4.864	4.864	(0.364)	685371	200.000	200.5
8 Chloroethane	64	5.070	5.070	(0.379)	538034	200.000	184.2
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	1883478	200.000	192.6
25 Trichlorotrifluoroethane	101	7.334	7.334	(0.549)	985554	200.000	180.4(A)
10 Acrolein	56	5.898	5.898	(0.441)	110695	1000.00	1022(A)
21 1,1-Dichloroethene	96	6.902	6.902	(0.517)	812848	200.000	182.3
14 Acetone	43	6.105	6.105	(0.457)	884894	400.000	400.6
22 Iodomethane	142	6.932	6.932	(0.519)	1464420	200.000	193.9
28 Carbon disulfide	76	7.589	7.589	(0.568)	3006015	200.000	185.8
24 Methylene chloride	84	7.181	7.181	(0.537)	975123	200.000	196.8
23 Acrylonitrile	53	6.950	6.950	(0.520)	1672347	1000.00	964.9
31 trans-1,2-Dichloroethene	96	8.648	8.648	(0.647)	910427	200.000	174.2

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD08.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	9.019	9.019	(0.675)	2791415	200.000	187.7
	33 1,1-Dichloroethane	63	9.292	9.292	(0.695)	1670729	200.000	182.3
	36 Vinyl acetate	43	9.712	9.712	(0.727)	4262536	400.000	397.4
	44 cis-1,2-Dichloroethene	96	10.825	10.825	(0.810)	988743	200.000	183.0
M	29 1,2-Dichloroethene(total)	96				1899170	400.000	357.4
	42 2-Butanone	43	10.485	10.485	(0.785)	981947	400.000	399.3
	46 Bromochloromethane	128	11.118	11.118	(0.832)	574552	200.000	191.1
	51 Tetrahydrofuran	42	11.829	11.829	(0.885)	267761	200.000	197.9
	47 Chloroform	83	11.233	11.233	(0.841)	1853938	200.000	177.0
	26 Methyl acetate	43	7.254	7.254	(0.543)	729804	200.000	187.8
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	206819	30.0000	29.55
	54 1,1,1-Trichloroethane	97	12.505	12.505	(0.936)	1876712	200.000	191.5
	56 Cyclohexane	56	12.936	12.936	(0.968)	1663100	200.000	194.6
	57 Carbon tetrachloride	117	13.022	13.022	(0.975)	1817420	200.000	197.4
$	52 1,2-Dichloroethane-d4	102	12.206	12.206	(0.914)	43803	30.0000	28.83
	58 Benzene	78	13.052	13.052	(0.977)	3832779	200.000	185.3
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	1560467	200.000	189.8
	48 2,2-Dichloropropane	77	11.385	11.385	(0.852)	1655701	200.000	211.3
	55 1,1-Dichloropropene	75	12.797	12.797	(0.958)	1465475	200.000	196.7
	63 Trichloroethene	95	13.916	13.916	(1.041)	1207892	200.000	192.3
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	1032541	200.000	188.6
	61 Dibromomethane	93	13.782	13.782	(1.031)	703403	200.000	188.6
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	1045223	200.000	227.6
	64 Bromodichloromethane	83	13.946	13.946	(1.044)	1576986	200.000	195.7
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	1317402	400.000	416.0
	71 cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	1899871	200.000	206.2
	72 4-Methyl-2-pentanone	43	14.828	14.828	(1.110)	2127153	400.000	405.3
$	76 Toluene-d8	98	15.400	15.400	(0.924)	861124	30.0000	26.81
	78 Toluene	92	15.467	15.467	(0.928)	2855694	200.000	160.5
	73 trans-1,3-Dichloropropene	75	15.151	15.151	(0.909)	1926714	200.000	196.0
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	1471829	200.000	194.0
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	850571	200.000	172.6
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	1437021	200.000	167.0
	81 2-Hexanone	43	15.680	15.680	(0.941)	1739016	400.000	390.0
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	1467866	200.000	192.6
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	1242840	200.000	180.3
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	1703049	200.000	200.0
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	462397	30.0000	
	87 Chlorobenzene	112	16.696	16.696	(1.001)	3519631	200.000	162.8
	85 1,1,1,2-Tetrachloroethane	131	16.641	16.641	(0.998)	1413904	200.000	179.1
	88 Ethylbenzene	91	16.848	16.848	(1.011)	5174742	200.000	154.2
	89 m,p-Xylene	91	16.994	16.994	(1.019)	7224772	400.000	279.2
M	100 Xylene(total)	91				11643575	200.000	424.2
	93 o-Xylene	91	17.292	17.292	(1.037)	4418803	200.000	161.0
	91 Styrene	104	17.238	17.238	(1.034)	3766251	200.000	185.4
	90 Bromoform	173	17.085	17.085	(1.025)	1074891	200.000	203.4
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	5145336	200.000	152.0

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD08.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.584	17.584	(1.055)	411118	30.0000	27.24
	92 1,1,2,2-Tetrachloroethane	83	17.305	17.305	(0.935)	1300527	200.000	185.0
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	1779443	200.000	171.8
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	495643	200.000	167.8
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	5608597	200.000	175.5
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	4619455	200.000	203.7
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	4613576	200.000	217.9
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	5317851	200.000	193.9
	105 tert-Butylbenzene	119	18.254	18.254	(0.987)	4267861	200.000	203.3
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	3338236	200.000	199.7
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	433107	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	3297301	200.000	192.3
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	4001276	200.000	236.6
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	3042897	200.000	197.9
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	409217	200.000	220.7
	98 Bromobenzene	156	17.749	17.749	(0.959)	1725077	200.000	198.7
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	4059406	200.000	191.4
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	4381326	200.000	194.0
	116 1,2,4-Trichlorobenzene	180	20.139	20.139	(1.088)	1906163	200.000	228.1
	117 Naphthalene	128	20.352	20.352	(1.100)	3812095	200.000	223.0
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	4629385	200.000	204.4
	118 Hexachlorobutadiene	225	20.377	20.377	(1.101)	722321	200.000	205.4
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	1682119	200.000	218.6

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD08.D
Date : 19-JUL-2006 15:06
Client ID: V3STD200PPB
Instrument: voa3.i
Sample Info: V3STD200PPB;;;;;;
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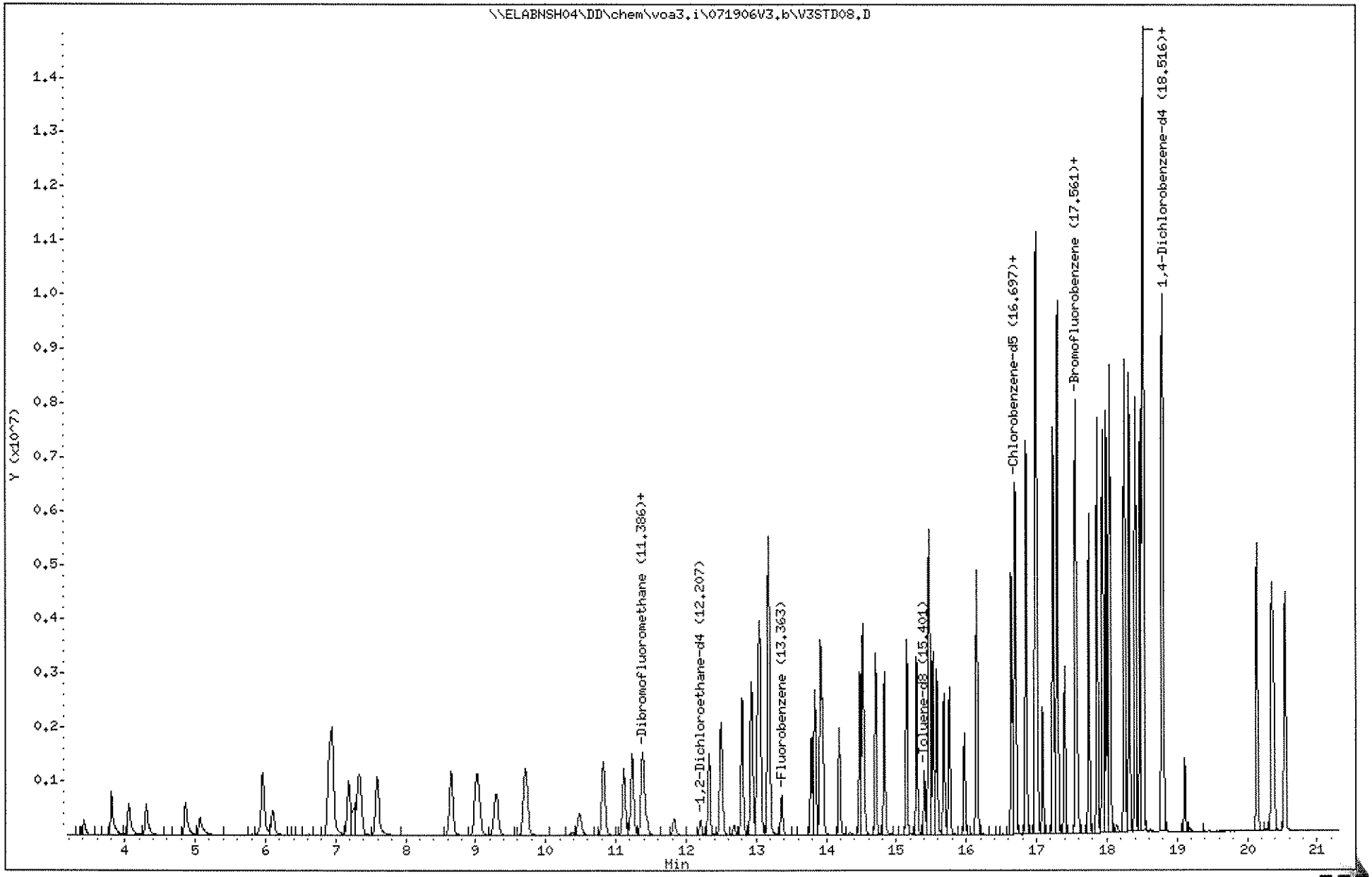
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000138



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD07.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD07.D
Lab Smp Id: V3STD100PPB Client Smp ID: V3STD100PPB
Inj Date : 19-JUL-2006 15:36 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3STD100PPB;;;;;;
Misc Info : ;1;;;7;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\VWATER3.m
Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	803929	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	636816	100.000	98.40
2 Chloromethane	50	4.061	4.061	(0.304)	561801	100.000	97.78
4 Vinyl chloride	62	4.304	4.304	(0.322)	494957	100.000	92.51
7 Bromomethane	94	4.864	4.864	(0.364)	350316	100.000	101.0
8 Chloroethane	64	5.070	5.070	(0.379)	296751	100.000	100.2
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	943444	100.000	95.12
25 Trichlorotrifluoroethane	101	7.333	7.333	(0.549)	508763	100.000	91.79(A)
10 Acrolein	56	5.898	5.898	(0.441)	48075	500.000	437.7
21 1,1-Dichloroethene	96	6.902	6.902	(0.517)	431890	100.000	95.50
14 Acetone	43	6.105	6.105	(0.457)	449138	200.000	199.8
22 Iodomethane	142	6.932	6.932	(0.519)	828062	100.000	108.1
28 Carbon disulfide	76	7.589	7.589	(0.568)	1615768	100.000	98.44
24 Methylene chloride	84	7.181	7.181	(0.537)	537952	100.000	106.0
23 Acrylonitrile	53	6.950	6.950	(0.520)	898462	500.000	511.0
31 trans-1,2-Dichloroethene	96	8.654	8.654	(0.648)	503797	100.000	95.05

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD07.D
Report Date: 20-Jul-2006 07:33

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	32 MTBE	73	9.019	9.019	(0.675)	1463700	100.000	97.02
	33 1,1-Dichloroethane	63	9.292	9.292	(0.695)	916335	100.000	98.56
	36 Vinyl acetate	43	9.706	9.706	(0.726)	2232539	200.000	205.2
	44 cis-1,2-Dichloroethene	96	10.825	10.825	(0.810)	538765	100.000	98.27
M	29 1,2-Dichloroethene(total)	96				1042562	200.000	193.4
	42 2-Butanone	43	10.491	10.491	(0.785)	506604	200.000	203.1
	46 Bromochloromethane	128	11.117	11.117	(0.832)	311428	100.000	102.1
	51 Tetrahydrofuran	42	11.835	11.835	(0.886)	141851	100.000	103.3
	47 Chloroform	83	11.233	11.233	(0.841)	986966	100.000	92.90
	26 Methyl acetate	43	7.254	7.254	(0.543)	381468	100.000	96.75
$	49 Dibromofluoromethane	111	11.440	11.440	(0.856)	206769	30.0000	29.12
	54 1,1,1-Trichloroethane	97	12.498	12.498	(0.935)	954957	100.000	96.04
	56 Cyclohexane	56	12.930	12.930	(0.968)	867874	100.000	100.1
	57 Carbon tetrachloride	117	13.016	13.016	(0.974)	928125	100.000	99.36
$	52 1,2-Dichloroethane-d4	102	12.206	12.206	(0.913)	46724	30.0000	30.31
	58 Benzene	78	13.046	13.046	(0.976)	2125926	100.000	101.3
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	811461	100.000	97.27
	48 2,2-Dichloropropane	77	11.385	11.385	(0.852)	842682	100.000	106.0
	55 1,1-Dichloropropene	75	12.797	12.797	(0.958)	767121	100.000	101.5
	63 Trichloroethene	95	13.916	13.916	(1.041)	639417	100.000	100.4
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	560804	100.000	101.0
	61 Dibromomethane	93	13.782	13.782	(1.031)	375867	100.000	99.36
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	530627	100.000	113.9
	64 Bromodichloromethane	83	13.946	13.946	(1.044)	822230	100.000	100.6
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	699537	200.000	217.7
	71 cis-1,3-Dichloropropene	75	14.701	14.701	(1.100)	1011137	100.000	108.2
	72 4-Methyl-2-pentanone	43	14.828	14.828	(1.110)	1125226	200.000	211.4
$	76 Toluene-d8	98	15.400	15.400	(0.924)	883907	30.0000	28.67
	78 Toluene	92	15.467	15.467	(0.928)	1559594	100.000	91.32
	73 trans-1,3-Dichloropropene	75	15.145	15.145	(0.908)	996198	100.000	105.6
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	794338	100.000	109.0
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	449953	100.000	95.12
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	762332	100.000	92.32
	81 2-Hexanone	43	15.680	15.680	(0.941)	922880	200.000	215.6
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	754753	100.000	103.2
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	648451	100.000	98.03
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	877923	100.000	101.6
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	443850	30.0000	
	87 Chlorobenzene	112	16.696	16.696	(1.001)	1988056	100.000	95.82
	85 1,1,1,2-Tetrachloroethane	131	16.641	16.641	(0.998)	738756	100.000	97.48
	88 Ethylbenzene	91	16.848	16.848	(1.011)	3135797	100.000	97.37
	89 m,p-Xylene	91	16.994	16.994	(1.019)	4823619	200.000	194.2
M	100 Xylene(total)	91				7452930	100.000	282.9
	93 o-Xylene	91	17.298	17.298	(1.038)	2629311	100.000	99.80
	91 Styrene	104	17.238	17.238	(1.034)	2149306	100.000	110.2
	90 Bromoform	173	17.085	17.085	(1.025)	548685	100.000	108.2
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	3208738	100.000	98.73

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD07.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.590	17.590	(1.055)	420612	30.0000	29.03
	92 1,1,2,2-Tetrachloroethane	83	17.298	17.298	(0.935)	729429	100.000	96.72
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	952667	100.000	95.85
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	263157	100.000	92.79
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	3659849	100.000	106.7
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	2597863	100.000	106.8
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	2426123	100.000	106.8
	107 sec-Butylbenzene	105	18.412	18.412	(0.995)	3130696	100.000	106.4
	105 tert-Butylbenzene	119	18.254	18.254	(0.987)	2410166	100.000	107.0
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	1856890	100.000	103.5
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	464695	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	1942175	100.000	105.6
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	1793621	100.000	98.83
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	1708021	100.000	103.5
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	207297	100.000	104.2
	98 Bromobenzene	156	17.749	17.749	(0.959)	949417	100.000	101.9
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	2411401	100.000	106.0
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	2586577	100.000	106.8
	116 1,2,4-Trichlorobenzene	180	20.139	20.139	(1.088)	928183	100.000	103.5
	117 Naphthalene	128	20.352	20.352	(1.100)	1920334	100.000	104.7
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	2428090	100.000	99.95
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	350474	100.000	92.86
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	833252	100.000	100.9

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD07.D
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Column diameter: 0.25

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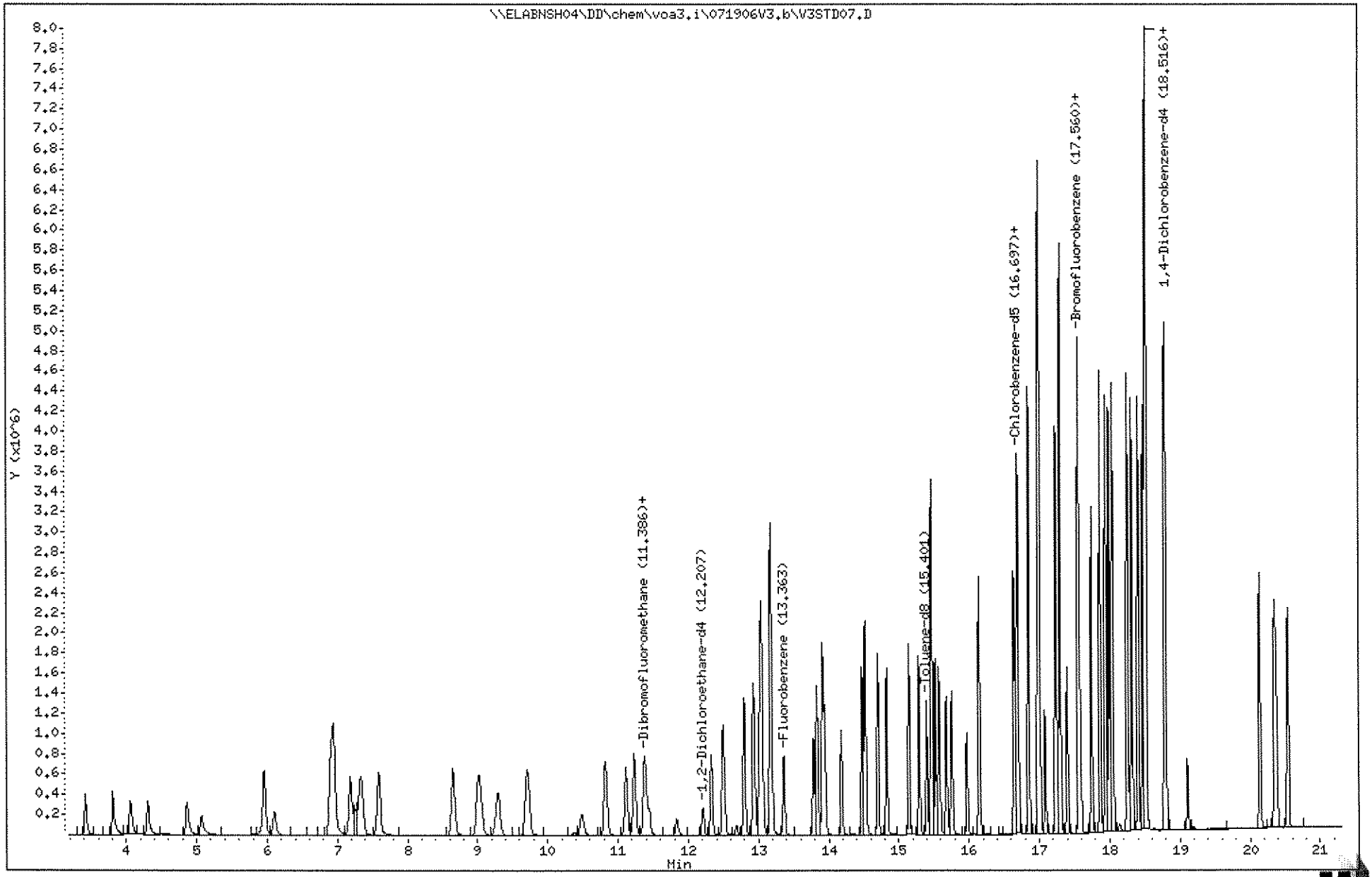

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD06.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD06.D
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Inj Date : 19-JUL-2006 16:06 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
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Comment :
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Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.363	13.363	(1.000)	808608	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	319089	50.0000	49.02
2 Chloromethane	50	4.055	4.055	(0.303)	276742	50.0000	47.89
4 Vinyl chloride	62	4.304	4.304	(0.322)	258361	50.0000	48.01
7 Bromomethane	94	4.864	4.864	(0.364)	163203	50.0000	46.79
8 Chloroethane	64	5.071	5.071	(0.379)	148775	50.0000	49.92
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	471656	50.0000	47.28
25 Trichlorotrifluoroethane	101	7.334	7.334	(0.549)	259741	50.0000	46.59
10 Acrolein	56	5.904	5.904	(0.442)	29308	250.000	265.3
21 1,1-Dichloroethene	96	6.908	6.908	(0.517)	221074	50.0000	48.60
14 Acetone	43	6.105	6.105	(0.457)	221690	100.000	97.50
22 Iodomethane	142	6.932	6.932	(0.519)	422096	50.0000	54.77
28 Carbon disulfide	76	7.589	7.589	(0.568)	820163	50.0000	49.68
24 Methylene chloride	84	7.182	7.182	(0.537)	257178	50.0000	49.18
23 Acrylonitrile	53	6.950	6.950	(0.520)	454055	250.000	256.7
31 trans-1,2-Dichloroethene	96	8.654	8.654	(0.648)	257605	50.0000	48.32

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD06.D
Report Date: 20-Jul-2006 07:33

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32	MTBE	73	9.025	9.025	(0.675)	720425	50.0000	47.48
	33	1,1-Dichloroethane	63	9.293	9.293	(0.695)	459194	50.0000	49.10
	36	Vinyl acetate	43	9.712	9.712	(0.727)	1096493	100.000	100.2
	44	cis-1,2-Dichloroethene	96	10.826	10.826	(0.810)	271623	50.0000	49.26
M	29	1,2-Dichloroethene(total)	96				529228	100.000	97.59
	42	2-Butanone	43	10.491	10.491	(0.785)	242541	100.000	96.67
	46	Bromochloromethane	128	11.118	11.118	(0.832)	156002	50.0000	50.86
	51	Tetrahydrofuran	42	11.836	11.836	(0.886)	69751	50.0000	50.52
	47	Chloroform	83	11.233	11.233	(0.841)	501182	50.0000	46.90
	26	Methyl acetate	43	7.261	7.261	(0.543)	189227	50.0000	47.72
$	49	Dibromofluoromethane	111	11.440	11.440	(0.856)	210926	30.0000	29.54
	54	1,1,1-Trichloroethane	97	12.505	12.505	(0.936)	483962	50.0000	48.39
	56	Cyclohexane	56	12.931	12.931	(0.968)	433985	50.0000	49.78
	57	Carbon tetrachloride	117	13.022	13.022	(0.975)	452777	50.0000	48.19
$	52	1,2-Dichloroethane-d4	102	12.207	12.207	(0.914)	46064	30.0000	29.71
	58	Benzene	78	13.046	13.046	(0.976)	1065731	50.0000	50.49
	53	1,2-Dichloroethane	62	12.328	12.328	(0.923)	401433	50.0000	47.84
	48	2,2-Dichloropropane	77	11.385	11.385	(0.852)	414690	50.0000	51.87
	55	1,1-Dichloropropene	75	12.797	12.797	(0.958)	379533	50.0000	49.92
	63	Trichloroethene	95	13.916	13.916	(1.041)	319250	50.0000	49.82
	62	1,2-Dichloropropane	63	13.837	13.837	(1.036)	285796	50.0000	51.17
	61	Dibromomethane	93	13.788	13.788	(1.032)	186740	50.0000	49.08
	66	Methyl methacrylate	41	14.184	14.184	(1.061)	255528	50.0000	54.52
	64	Bromodichloromethane	83	13.947	13.947	(1.044)	404782	50.0000	49.24
	67	2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	344914	100.000	106.7
	71	cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	498218	50.0000	52.99
	72	4-Methyl-2-pentanone	43	14.829	14.829	(1.110)	549352	100.000	102.6
$	76	Toluene-d8	98	15.401	15.401	(0.924)	893537	30.0000	30.16
	78	Toluene	92	15.467	15.467	(0.928)	798015	50.0000	48.63
	73	trans-1,3-Dichloropropene	75	15.145	15.145	(0.908)	486962	50.0000	53.70
	80	Ethyl methacrylate	69	15.577	15.577	(0.934)	370836	50.0000	52.99
	75	1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	224344	50.0000	49.36
	84	Tetrachloroethene	166	16.149	16.149	(0.969)	385069	50.0000	48.54
	81	2-Hexanone	43	15.680	15.680	(0.941)	427245	100.000	103.9
	82	Dibromochloromethane	129	15.759	15.759	(0.945)	370174	50.0000	52.66
	83	1,2-Dibromoethane	107	15.972	15.972	(0.958)	318809	50.0000	50.16
	69	Methyl cyclohexane	83	14.524	14.524	(1.087)	448656	50.0000	51.65
*	86	Chlorobenzene-d5	82	16.672	16.672	(1.000)	426471	30.0000	
	87	Chlorobenzene	112	16.696	16.696	(1.001)	1013713	50.0000	50.85
	85	1,1,1,2-Tetrachloroethane	131	16.642	16.642	(0.998)	369329	50.0000	50.72
	88	Ethylbenzene	91	16.848	16.848	(1.011)	1602231	50.0000	51.78
	89	m,p-Xylene	91	16.994	16.994	(1.019)	2524981	100.000	105.8
M	100	Xylene(total)	91				3862375	50.0000	152.6
	93	o-Xylene	91	17.292	17.292	(1.037)	1337394	50.0000	52.83
	91	Styrene	104	17.238	17.238	(1.034)	1062683	50.0000	56.72
	90	Bromoform	173	17.086	17.086	(1.025)	264459	50.0000	54.25
	96	Isopropylbenzene	105	17.560	17.560	(1.053)	1628852	50.0000	52.16

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD06.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.585	17.585	(1.055)	416166	30.0000	29.90
	92 1,1,2,2-Tetrachloroethane	83	17.299	17.299	(0.935)	370680	50.0000	48.36
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	480058	50.0000	50.27
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	128132	50.0000	47.02
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	1895871	50.0000	54.41
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	1354437	50.0000	54.77
	104 1,2,4-Trimethylbenzene	105	18.321	18.321	(0.990)	1308707	50.0000	56.68
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	1656724	50.0000	55.40
	105 tert-Butylbenzene	119	18.254	18.254	(0.987)	1227110	50.0000	53.60
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	926208	50.0000	50.80
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	472309	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	970649	50.0000	51.92
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	1009337	50.0000	54.72
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	856071	50.0000	51.05
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	99061	50.0000	48.98
	98 Bromobenzene	156	17.749	17.749	(0.959)	470411	50.0000	49.69
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	1199999	50.0000	51.88
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	1292110	50.0000	52.47
	116 1,2,4-Trichlorobenzene	180	20.140	20.140	(1.088)	449314	50.0000	49.31
	117 Naphthalene	128	20.353	20.353	(1.100)	932951	50.0000	50.04
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	1382705	50.0000	56.00
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	181034	50.0000	47.20
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	409077	50.0000	48.75

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD06.D
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Instrument: voa3.i
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Column diameter: 0.25

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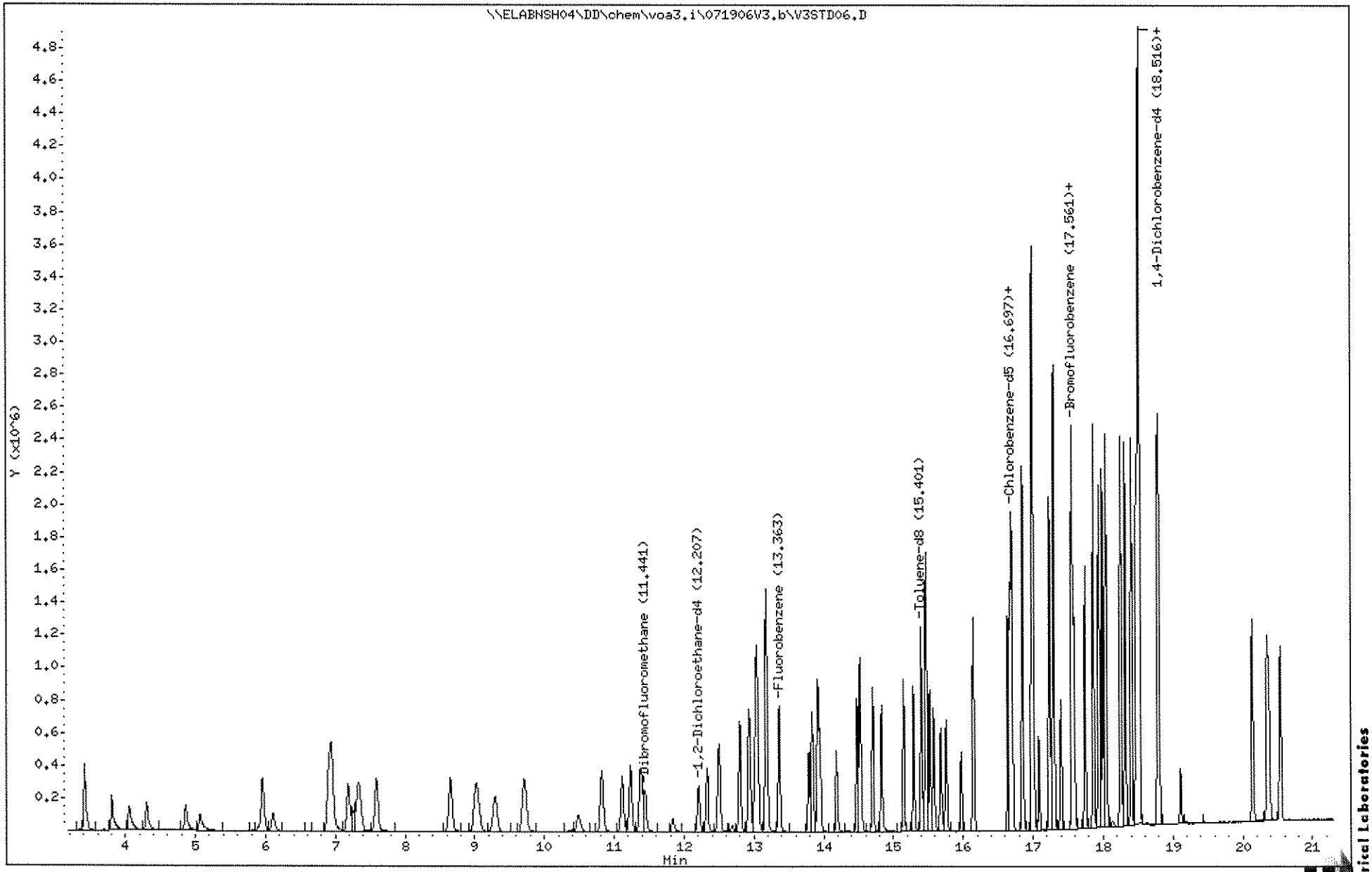

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Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD05.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD05.D
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Inj Date : 19-JUL-2006 17:06 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
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Comment :
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Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	774384	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	131322	20.0000	21.06
2 Chloromethane	50	4.060	4.060	(0.304)	118166	20.0000	21.35
4 Vinyl chloride	62	4.310	4.310	(0.323)	108752	20.0000	21.10
7 Bromomethane	94	4.863	4.863	(0.364)	59728	20.0000	17.88
8 Chloroethane	64	5.070	5.070	(0.379)	60963	20.0000	21.36
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	192510	20.0000	20.15
25 Trichlorotrifluoroethane	101	7.339	7.339	(0.549)	104209	20.0000	19.52
10 Acrolein	56	5.910	5.910	(0.442)	10194	100.000	96.36
21 1,1-Dichloroethene	96	6.908	6.908	(0.517)	90494	20.0000	20.77
14 Acetone	43	6.111	6.111	(0.457)	89883	40.0000	40.63
22 Iodomethane	142	6.938	6.938	(0.519)	162378	20.0000	22.00
28 Carbon disulfide	76	7.589	7.589	(0.568)	329849	20.0000	20.86
24 Methylene chloride	84	7.187	7.187	(0.538)	113359	20.0000	21.41
23 Acrylonitrile	53	6.956	6.956	(0.521)	182376	100.000	107.7
31 trans-1,2-Dichloroethene	96	8.654	8.654	(0.648)	104531	20.0000	20.47

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD05.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	9.031	9.031	(0.676)	289925	20.0000	19.95
	33 1,1-Dichloroethane	63	9.292	9.292	(0.695)	188905	20.0000	21.09
	36 Vinyl acetate	43	9.718	9.718	(0.727)	409613	40.0000	39.08
	44 cis-1,2-Dichloroethene	96	10.831	10.831	(0.811)	112272	20.0000	21.26
M	29 1,2-Dichloroethene(total)	96				216803	40.0000	41.75
	42 2-Butanone	43	10.497	10.497	(0.786)	93352	40.0000	38.85
	46 Bromochloromethane	128	11.117	11.117	(0.832)	62567	20.0000	21.30
	51 Tetrahydrofuran	42	11.841	11.841	(0.886)	27806	20.0000	21.03
	47 Chloroform	83	11.233	11.233	(0.841)	203251	20.0000	19.86
	26 Methyl acetate	43	7.266	7.266	(0.544)	78530	20.0000	20.68
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	205955	30.0000	30.12
	54 1,1,1-Trichloroethane	97	12.504	12.504	(0.936)	194830	20.0000	20.34
	56 Cyclohexane	56	12.936	12.936	(0.968)	171402	20.0000	20.53
	57 Carbon tetrachloride	117	13.022	13.022	(0.975)	181996	20.0000	20.23
$	52 1,2-Dichloroethane-d4	102	12.206	12.206	(0.913)	44833	30.0000	30.20
	58 Benzene	78	13.046	13.046	(0.976)	431900	20.0000	21.37
	53 1,2-Dichloroethane	62	12.334	12.334	(0.923)	163615	20.0000	20.36
	48 2,2-Dichloropropane	77	11.385	11.385	(0.852)	160207	20.0000	20.93
	55 1,1-Dichloropropene	75	12.796	12.796	(0.958)	151059	20.0000	20.75
	63 Trichloroethene	95	13.916	13.916	(1.041)	128969	20.0000	21.02
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	112161	20.0000	20.97
	61 Dibromomethane	93	13.788	13.788	(1.032)	75117	20.0000	20.62
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	98646	20.0000	21.98
	64 Bromodichloromethane	83	13.946	13.946	(1.044)	164564	20.0000	20.90
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	134847	40.0000	43.57
	71 cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	197473	20.0000	21.93
	72 4-Methyl-2-pentanone	43	14.828	14.828	(1.110)	220567	40.0000	43.01
$	76 Toluene-d8	98	15.400	15.400	(0.924)	867878	30.0000	30.75
	78 Toluene	92	15.467	15.467	(0.928)	321462	20.0000	20.56
	73 trans-1,3-Dichloropropene	75	15.151	15.151	(0.909)	190194	20.0000	22.02
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	141374	20.0000	21.20
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	92525	20.0000	21.37
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	156865	20.0000	20.76
	81 2-Hexanone	43	15.680	15.680	(0.941)	167599	40.0000	42.78
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	143720	20.0000	21.46
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	129032	20.0000	21.31
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	172375	20.0000	20.72
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	406253	30.0000	
	87 Chlorobenzene	112	16.702	16.702	(1.002)	411338	20.0000	21.66
	85 1,1,1,2-Tetrachloroethane	131	16.641	16.641	(0.998)	148999	20.0000	21.48
	88 Ethylbenzene	91	16.854	16.854	(1.011)	657346	20.0000	22.30
	89 m,p-Xylene	91	17.000	17.000	(1.020)	1033150	40.0000	45.44
M	100 Xylene(total)	91				1573649	20.0000	65.26
	93 o-Xylene	91	17.298	17.298	(1.038)	540499	20.0000	22.41
	91 Styrene	104	17.244	17.244	(1.034)	416714	20.0000	23.35
	90 Bromoform	173	17.085	17.085	(1.025)	100174	20.0000	21.57
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	653140	20.0000	21.96

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD05.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.590	17.590	(1.055)	402153	30.0000	30.33
	92 1,1,2,2-Tetrachloroethane	83	17.298	17.298	(0.935)	155451	20.0000	21.27
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	189859	20.0000	20.87
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	53416	20.0000	20.58
	101 n-Propylbenzene	91	17.870	17.870	(0.966)	703363	20.0000	21.17
	106 1,3,5-Trimethylbenzene	105	18.047	18.047	(0.975)	480421	20.0000	20.38
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	433209	20.0000	19.68
	107 sec-Butylbenzene	105	18.412	18.412	(0.995)	529897	20.0000	18.58
	105 tert-Butylbenzene	119	18.260	18.260	(0.987)	417005	20.0000	19.11
	108 1,3-Dichlorobenzene	146	18.485	18.485	(0.999)	359296	20.0000	20.67
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	450275	30.0000	
	111 1,4-Dichlorobenzene	146	18.527	18.527	(1.001)	342194	20.0000	19.20
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	293957	20.0000	16.72
	113 1,2-Dichlorobenzene	146	18.789	18.789	(1.015)	337106	20.0000	21.09
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	38988	20.0000	20.22
	98 Bromobenzene	156	17.748	17.748	(0.959)	190823	20.0000	21.14
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	471607	20.0000	21.39
	103 4-Chlorotoluene	91	17.998	17.998	(0.973)	505560	20.0000	21.53
	116 1,2,4-Trichlorobenzene	180	20.145	20.145	(1.089)	153003	20.0000	17.61
	117 Naphthalene	128	20.352	20.352	(1.100)	334445	20.0000	18.82
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	412916	20.0000	17.54
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	59281	20.0000	16.21
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	143188	20.0000	17.90

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD05.D
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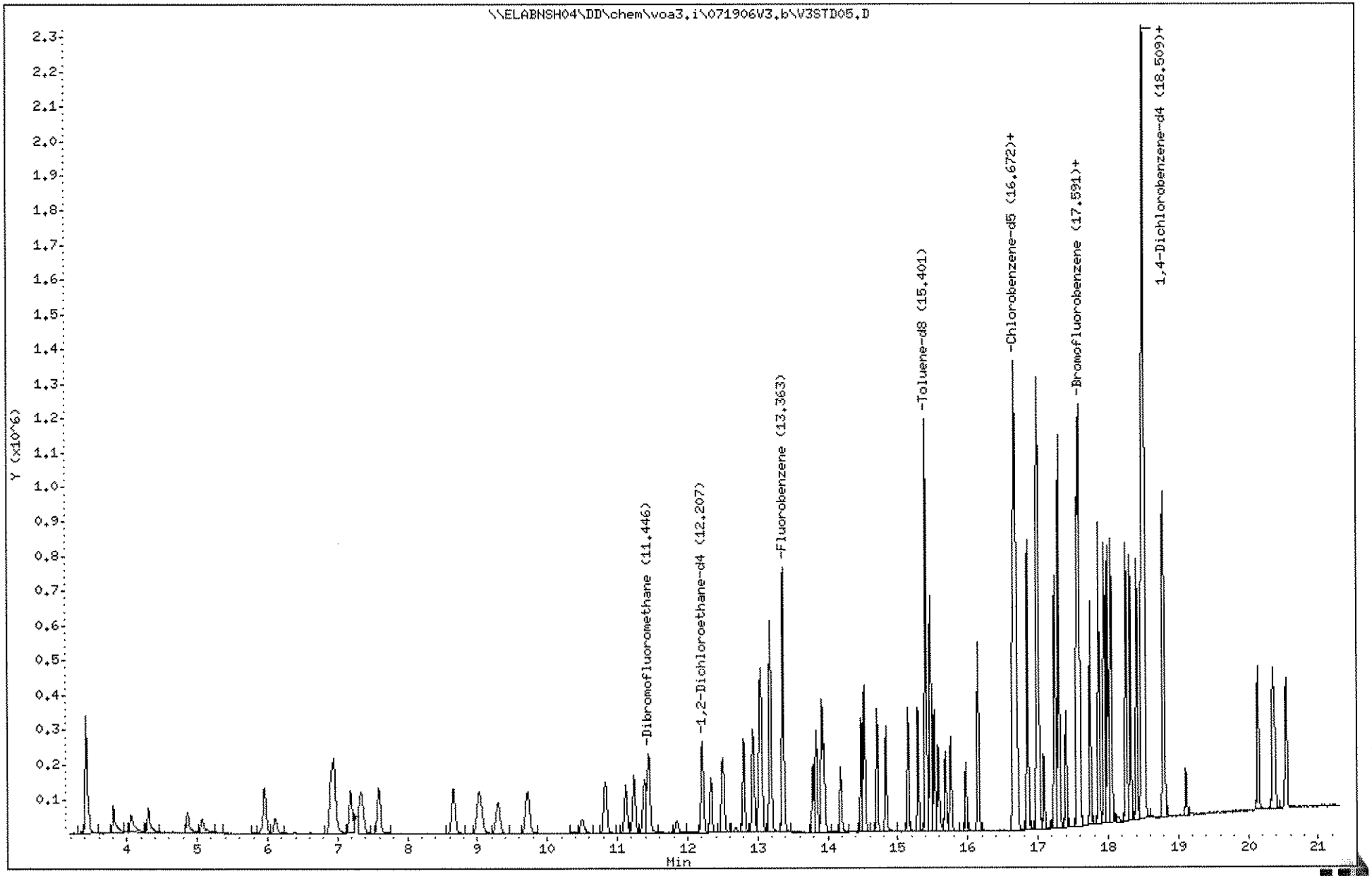

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD04.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD04.D
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Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	755266	30.0000	
1 Dichlorodifluoromethane	85	3.811	3.811	(0.285)	63527	10.0000	10.45
2 Chloromethane	50	4.060	4.060	(0.304)	57801	10.0000	10.71
4 Vinyl chloride	62	4.310	4.310	(0.323)	53202	10.0000	10.58
7 Bromomethane	94	4.864	4.864	(0.364)	27330	10.0000	8.389
8 Chloroethane	64	5.070	5.070	(0.379)	30324	10.0000	10.89
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	93485	10.0000	10.03
25 Trichlorotrifluoroethane	101	7.340	7.340	(0.549)	52117	10.0000	10.01
10 Acrolein	56	5.904	5.904	(0.442)	5965	50.0000	57.81
21 1,1-Dichloroethene	96	6.908	6.908	(0.517)	44025	10.0000	10.36
14 Acetone	43	6.111	6.111	(0.457)	45100	20.0000	20.35
22 Iodomethane	142	6.932	6.932	(0.519)	76842	10.0000	10.68
28 Carbon disulfide	76	7.583	7.583	(0.568)	159020	10.0000	10.31
24 Methylene chloride	84	7.187	7.187	(0.538)	56265	10.0000	9.777
23 Acrylonitrile	53	6.956	6.956	(0.521)	90117	50.0000	54.55
31 trans-1,2-Dichloroethene	96	8.654	8.654	(0.648)	51148	10.0000	10.27

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD04.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	9.031	9.031	(0.676)	142347	10.0000	10.04
	33 1,1-Dichloroethane	63	9.292	9.292	(0.695)	90455	10.0000	10.36
	36 Vinyl acetate	43	9.718	9.718	(0.727)	189609	20.0000	18.55
	44 cis-1,2-Dichloroethene	96	10.825	10.825	(0.810)	54185	10.0000	10.52
M	29 1,2-Dichloroethene(total)	96				105333	20.0000	20.80
	42 2-Butanone	43	10.503	10.503	(0.786)	46197	20.0000	19.71
	46 Bromochloromethane	128	11.117	11.117	(0.832)	31856	10.0000	11.12
	51 Tetrahydrofuran	42	11.847	11.847	(0.887)	14287	10.0000	11.08
	47 Chloroform	83	11.233	11.233	(0.841)	101155	10.0000	10.14
	26 Methyl acetate	43	7.267	7.267	(0.544)	39711	10.0000	10.72
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	201144	30.0000	30.16
	54 1,1,1-Trichloroethane	97	12.498	12.498	(0.935)	95621	10.0000	10.24
	56 Cyclohexane	56	12.936	12.936	(0.968)	82328	10.0000	10.11
	57 Carbon tetrachloride	117	13.022	13.022	(0.975)	88080	10.0000	10.04
$	52 1,2-Dichloroethane-d4	102	12.212	12.212	(0.914)	43647	30.0000	30.14
	58 Benzene	78	13.046	13.046	(0.976)	208941	10.0000	10.60
	53 1,2-Dichloroethane	62	12.334	12.334	(0.923)	82676	10.0000	10.55
	48 2,2-Dichloropropane	77	11.379	11.379	(0.852)	75618	10.0000	10.13
	55 1,1-Dichloropropene	75	12.797	12.797	(0.958)	71924	10.0000	10.13
	63 Trichloroethene	95	13.916	13.916	(1.041)	61483	10.0000	10.27
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	54051	10.0000	10.36
	61 Dibromomethane	93	13.788	13.788	(1.032)	37419	10.0000	10.53
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	45142	10.0000	10.31
	64 Bromodichloromethane	83	13.946	13.946	(1.044)	77555	10.0000	10.10
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	64915	20.0000	21.50
	71 cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	92764	10.0000	10.56
	72 4-Methyl-2-pentanone	43	14.828	14.828	(1.110)	104147	20.0000	20.82
$	76 Toluene-d8	98	15.400	15.400	(0.924)	832377	30.0000	31.40
	78 Toluene	92	15.467	15.467	(0.928)	156045	10.0000	10.63
	73 trans-1,3-Dichloropropene	75	15.145	15.145	(0.908)	89618	10.0000	11.04
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	63336	10.0000	10.11
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	45733	10.0000	11.24
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	75490	10.0000	10.63
	81 2-Hexanone	43	15.680	15.680	(0.941)	77983	20.0000	21.19
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	67722	10.0000	10.76
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	63143	10.0000	11.10
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	82453	10.0000	10.16
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	381656	30.0000	
	87 Chlorobenzene	112	16.696	16.696	(1.001)	195068	10.0000	10.93
	85 1,1,1,2-Tetrachloroethane	131	16.647	16.647	(0.999)	71289	10.0000	10.94
	88 Ethylbenzene	91	16.848	16.848	(1.011)	314944	10.0000	11.37
	89 m,p-Xylene	91	16.994	16.994	(1.019)	489953	20.0000	22.94
M	100 Xylene(total)	91				745328	10.0000	32.90
	93 o-Xylene	91	17.292	17.292	(1.037)	255375	10.0000	11.27
	91 Styrene	104	17.238	17.238	(1.034)	189892	10.0000	11.33
	90 Bromoform	173	17.085	17.085	(1.025)	46986	10.0000	10.77
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	309080	10.0000	11.06

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD04.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.584	17.584	(1.055)	390492	30.0000	31.34
	92 1,1,2,2-Tetrachloroethane	83	17.298	17.298	(0.935)	75567	10.0000	10.28
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	93333	10.0000	10.92
	94 1,2,3-Trichloropropane	110	17.396	17.396	(1.043)	25595	10.0000	10.50
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	357433	10.0000	10.69
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	252970	10.0000	10.66
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	241119	10.0000	10.89
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	300890	10.0000	10.49
	105 tert-Butylbenzene	119	18.253	18.253	(0.987)	227000	10.0000	10.34
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	170020	10.0000	9.721
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	453050	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	179973	10.0000	10.04
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	177621	10.0000	10.04
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	164823	10.0000	10.25
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	18398	10.0000	9.484
	98 Bromobenzene	156	17.749	17.749	(0.959)	93700	10.0000	10.32
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	227869	10.0000	10.27
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	248135	10.0000	10.50
	116 1,2,4-Trichlorobenzene	180	20.139	20.139	(1.088)	83651	10.0000	9.571
	117 Naphthalene	128	20.352	20.352	(1.100)	171128	10.0000	9.569
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	252328	10.0000	10.65
	118 Hexachlorobutadiene	225	20.377	20.377	(1.101)	33564	10.0000	9.122
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	77655	10.0000	9.647

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD04.D
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Instrument: voa3.i
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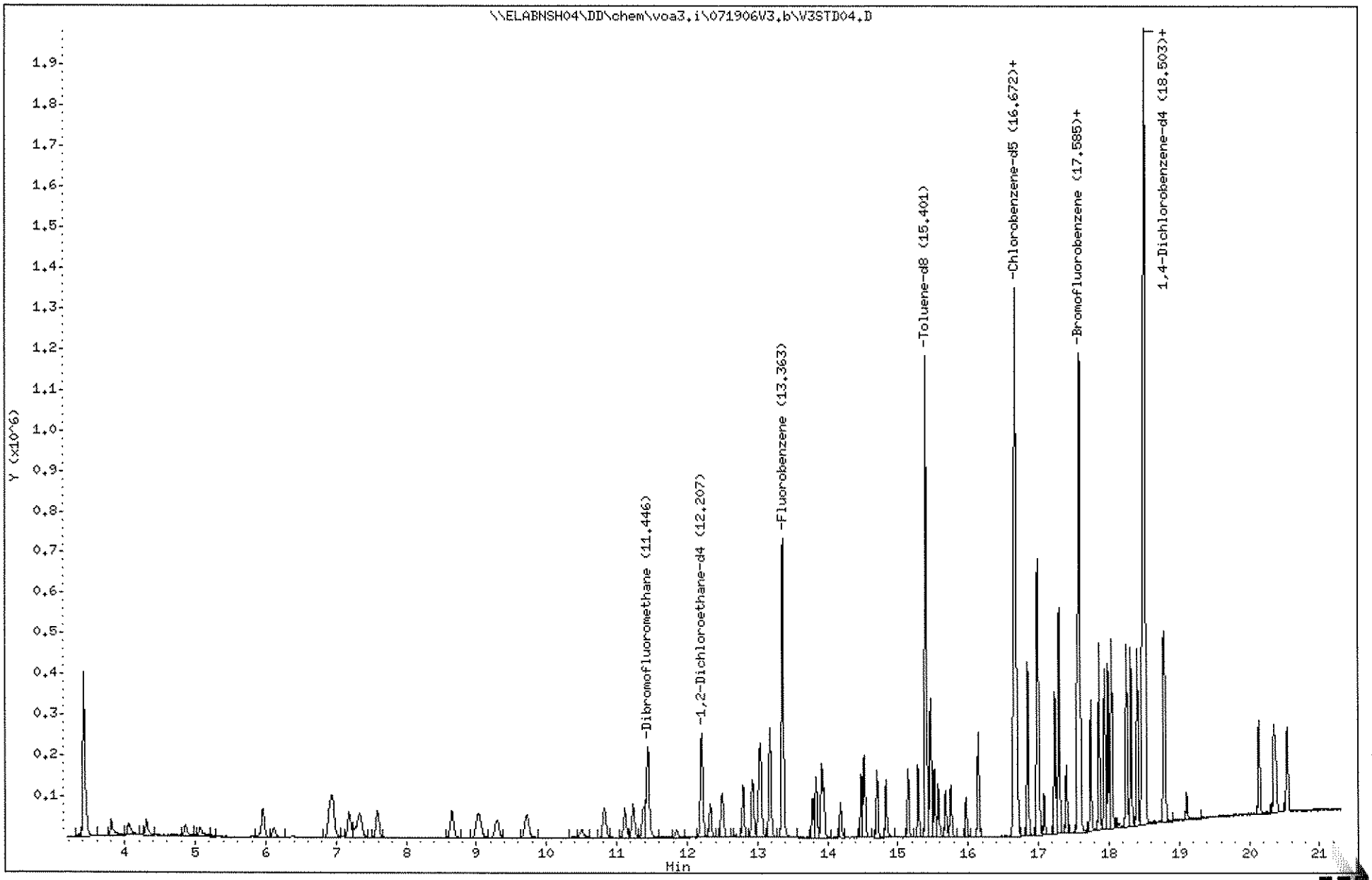
Column diameter: 0.25

000154



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Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD03.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD03.D
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Operator : ADM Inst ID: voa3.i
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Comment :
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Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	732440	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	11631	2.00000	1.972(a)
2 Chloromethane	50	4.054	4.054	(0.303)	10407	2.00000	1.988(a)
4 Vinyl chloride	62	4.310	4.310	(0.323)	9490	2.00000	1.947(a)
7 Bromomethane	94	4.864	4.864	(0.364)	4500	2.00000	1.424(a)
8 Chloroethane	64	5.070	5.070	(0.379)	4553	2.00000	1.687(a)
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	16793	2.00000	1.858(a)
25 Trichlorotrifluoroethane	101	7.334	7.334	(0.549)	10059	2.00000	1.992
10 Acrolein	56	5.904	5.904	(0.442)	1532	10.0000	15.31
21 1,1-Dichloroethene	96	6.914	6.914	(0.517)	7729	2.00000	1.876
14 Acetone	43	6.111	6.111	(0.457)	10854	4.00000	4.201(a)
22 Iodomethane	142	6.938	6.938	(0.519)	11196	2.00000	1.604(a)
28 Carbon disulfide	76	7.595	7.595	(0.568)	28422	2.00000	1.900
24 Methylene chloride	84	7.181	7.181	(0.537)	12469	2.00000	0.4772(a)
23 Acrylonitrile	53	6.962	6.962	(0.521)	15476	10.0000	9.661
31 trans-1,2-Dichloroethene	96	8.660	8.660	(0.648)	9272	2.00000	1.920

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD03.D
Report Date: 20-Jul-2006 07:33

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	32	MTBE	73	9.043	9.043	(0.677)	25789	2.00000	1.876
	33	1,1-Dichloroethane	63	9.286	9.286	(0.695)	15676	2.00000	1.851
	36	Vinyl acetate	43	9.724	9.724	(0.728)	28768	4.00000	2.902(a)
	44	cis-1,2-Dichloroethene	96	10.832	10.832	(0.811)	9419	2.00000	1.886
M	29	1,2-Dichloroethene(total)	96				18691	4.00000	3.805
	42	2-Butanone	43	10.509	10.509	(0.786)	11653	4.00000	5.127(a)
	46	Bromochloromethane	128	11.124	11.124	(0.832)	5150	2.00000	1.854(a)
	51	Tetrahydrofuran	42	11.854	11.854	(0.887)	3905	2.00000	3.123
	47	Chloroform	83	11.239	11.239	(0.841)	19137	2.00000	1.977
	26	Methyl acetate	43	7.273	7.273	(0.544)	7248	2.00000	2.018
$	49	Dibromofluoromethane	111	11.446	11.446	(0.857)	196619	30.0000	30.40
	54	1,1,1-Trichloroethane	97	12.498	12.498	(0.935)	17663	2.00000	1.950
	56	Cyclohexane	56	12.936	12.936	(0.968)	15144	2.00000	1.918(a)
	57	Carbon tetrachloride	117	13.022	13.022	(0.975)	16078	2.00000	1.889
$	52	1,2-Dichloroethane-d4	102	12.206	12.206	(0.914)	41188	30.0000	29.33
	58	Benzene	78	13.052	13.052	(0.977)	35859	2.00000	1.876
	53	1,2-Dichloroethane	62	12.328	12.328	(0.923)	14763	2.00000	1.942
	48	2,2-Dichloropropane	77	11.391	11.391	(0.852)	13521	2.00000	1.867
	55	1,1-Dichloropropene	75	12.803	12.803	(0.958)	12719	2.00000	1.847
	63	Trichloroethene	95	13.916	13.916	(1.041)	10678	2.00000	1.840
	62	1,2-Dichloropropane	63	13.843	13.843	(1.036)	9198	2.00000	1.818
	61	Dibromomethane	93	13.788	13.788	(1.032)	6392	2.00000	1.855
	66	Methyl methacrylate	41	14.190	14.190	(1.062)	7126	2.00000	1.679
	64	Bromodichloromethane	83	13.952	13.952	(1.044)	13931	2.00000	1.871
	67	2-Chloroethyl vinyl ether	63	14.482	14.482	(1.084)	10743	4.00000	3.670(a)
	71	cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	15360	2.00000	1.804
	72	4-Methyl-2-pentanone	43	14.835	14.835	(1.110)	17619	4.00000	3.632(a)
$	76	Toluene-d8	98	15.400	15.400	(0.924)	800969	30.0000	30.76
	78	Toluene	92	15.473	15.473	(0.928)	28121	2.00000	1.950
	73	trans-1,3-Dichloropropene	75	15.151	15.151	(0.909)	14283	2.00000	1.792
	80	Ethyl methacrylate	69	15.577	15.577	(0.934)	9310	2.00000	1.514
	75	1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	7631	2.00000	1.910
	84	Tetrachloroethene	166	16.149	16.149	(0.969)	13292	2.00000	1.906
	81	2-Hexanone	43	15.686	15.686	(0.941)	10640	4.00000	2.944(a)
	82	Dibromochloromethane	129	15.765	15.765	(0.946)	11583	2.00000	1.875
	83	1,2-Dibromoethane	107	15.972	15.972	(0.958)	10493	2.00000	1.879
	69	Methyl cyclohexane	83	14.524	14.524	(1.087)	14686	2.00000	1.866
*	86	Chlorobenzene-d5	82	16.672	16.672	(1.000)	374769	30.0000	
	87	Chlorobenzene	112	16.696	16.696	(1.001)	34436	2.00000	1.966
	85	1,1,1,2-Tetrachloroethane	131	16.647	16.647	(0.999)	12042	2.00000	1.882
	88	Ethylbenzene	91	16.854	16.854	(1.011)	52401	2.00000	1.927
	89	m,p-Xylene	91	16.994	16.994	(1.019)	83099	4.00000	3.962
M	100	Xylene(total)	91				126975	2.00000	5.708
	93	o-Xylene	91	17.298	17.298	(1.038)	43876	2.00000	1.972
	91	Styrene	104	17.244	17.244	(1.034)	28306	2.00000	1.719
	90	Bromoform	173	17.085	17.085	(1.025)	7889	2.00000	1.842
	96	Isopropylbenzene	105	17.560	17.560	(1.053)	52525	2.00000	1.914

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD03.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.590	17.590	(1.055)	377442	30.0000	30.85
	92 1,1,2,2-Tetrachloroethane	83	17.305	17.305	(0.935)	13397	2.00000	1.895
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	16625	2.00000	1.981
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	4769	2.00000	1.991
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	58840	2.00000	1.831
	106 1,3,5-Trimethylbenzene	105	18.047	18.047	(0.975)	40868	2.00000	1.792
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	36662	2.00000	1.721
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	50429	2.00000	1.828
	105 tert-Butylbenzene	119	18.260	18.260	(0.987)	36930	2.00000	1.749
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	30816	2.00000	1.832
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	435631	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	33359	2.00000	1.934
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	29288	2.00000	1.722
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	28722	2.00000	1.857
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	3455	2.00000	1.852(a)
	98 Bromobenzene	156	17.749	17.749	(0.959)	15487	2.00000	1.774
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	39219	2.00000	1.838
	103 4-Chlorotoluene	91	17.998	17.998	(0.973)	41765	2.00000	1.839
	116 1,2,4-Trichlorobenzene	180	20.146	20.146	(1.089)	14533	2.00000	1.729
	117 Naphthalene	128	20.352	20.352	(1.100)	30069	2.00000	1.748
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	41515	2.00000	1.823
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	7342	2.00000	2.075
	119 1,2,3-Trichlorobenzene	180	20.547	20.547	(1.110)	14235	2.00000	1.839

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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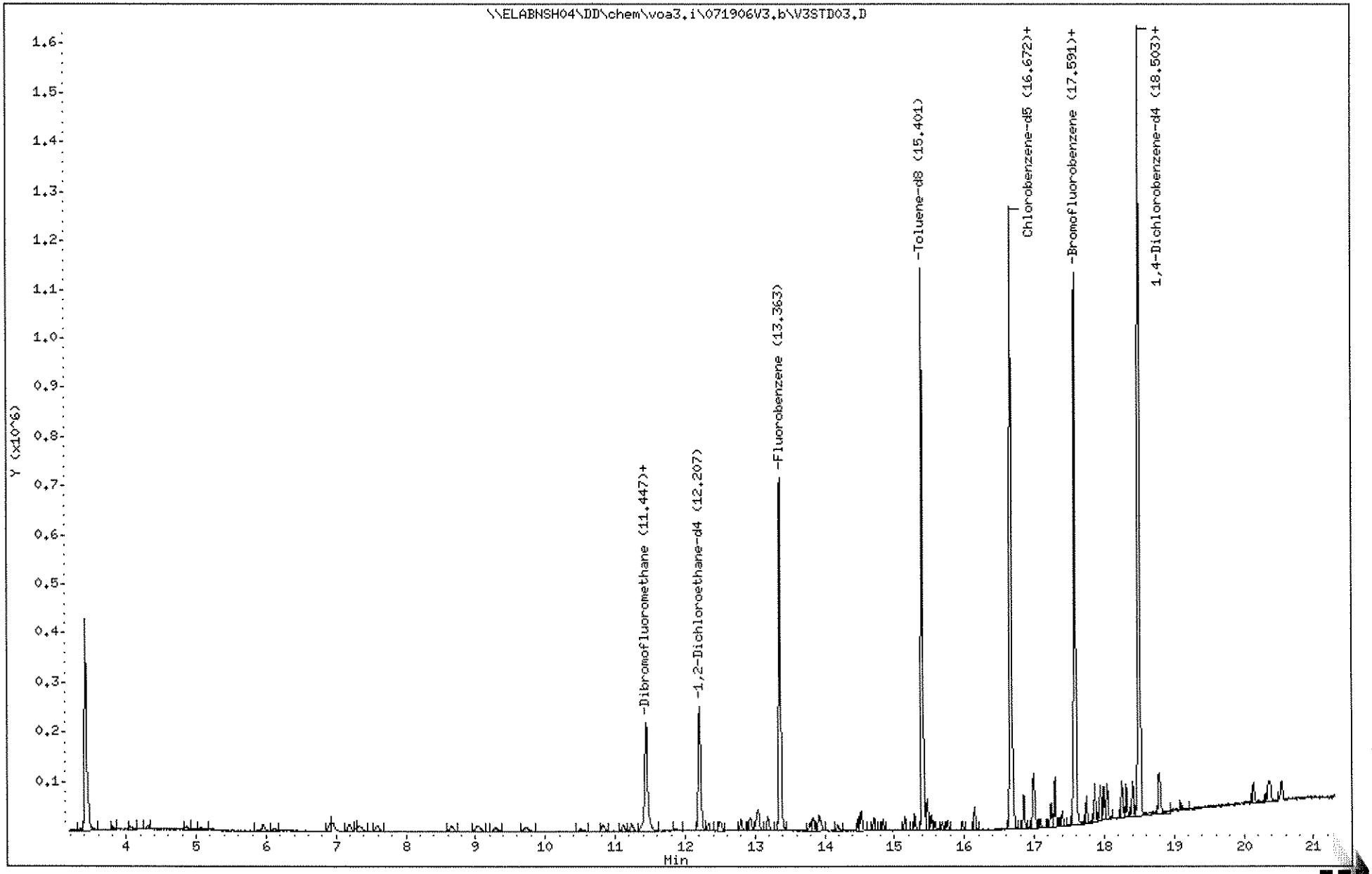

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
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Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 15:06 Cal File: V3STD08.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	704650	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	5322	1.00000	0.9382(a)
2 Chloromethane	50	4.061	4.061	(0.304)	5777	1.00000	1.147(a)
4 Vinyl chloride	62	4.310	4.310	(0.323)	4912	1.00000	1.047(a)
7 Bromomethane	94	4.851	4.851	(0.363)	2348	1.00000	0.7725(a)
8 Chloroethane	64	5.077	5.077	(0.380)	2582	1.00000	0.9943(a)
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	8859	1.00000	1.019(a)
25 Trichlorotrifluoroethane	101	7.334	7.334	(0.549)	5323	1.00000	1.096
10 Acrolein	56	5.892	5.892	(0.441)	604	5.00000	6.274
21 1,1-Dichloroethene	96	6.902	6.902	(0.517)	4368	1.00000	1.102
14 Acetone	43	6.111	6.111	(0.457)	7837	2.00000	2.871(a)
22 Iodomethane	142	6.938	6.938	(0.519)	5137	1.00000	0.7649(a)
28 Carbon disulfide	76	7.589	7.589	(0.568)	14409	1.00000	1.002
24 Methylene chloride	84	7.181	7.181	(0.537)	6976	1.00000	(a)
23 Acrylonitrile	53	6.956	6.956	(0.521)	7407	5.00000	4.806(a)
31 trans-1,2-Dichloroethene	96	8.666	8.666	(0.649)	4870	1.00000	1.048

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	9.037	9.037	(0.676)	13505	1.00000	1.021
	33 1,1-Dichloroethane	63	9.299	9.299	(0.696)	8449	1.00000	1.037
	36 Vinyl acetate	43	9.730	9.730	(0.728)	13337	2.00000	1.398(a)
	44 cis-1,2-Dichloroethene	96	10.832	10.832	(0.811)	4618	1.00000	0.9610(a)
M	29 1,2-Dichloroethene(total)	96				9488	2.00000	2.008
	42 2-Butanone	43	10.515	10.515	(0.787)	6621	2.00000	3.028(a)
	46 Bromochloromethane	128	11.111	11.111	(0.832)	2598	1.00000	0.9720(a)
	51 Tetrahydrofuran	42	11.860	11.860	(0.888)	2604	1.00000	2.164
	47 Chloroform	83	11.233	11.233	(0.841)	9792	1.00000	1.052
	26 Methyl acetate	43	7.273	7.273	(0.544)	3540	1.00000	1.024(M)
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	188788	30.0000	30.34
	54 1,1,1-Trichloroethane	97	12.499	12.499	(0.935)	9011	1.00000	1.034
	56 Cyclohexane	56	12.930	12.930	(0.968)	7201	1.00000	0.9478(a)
	57 Carbon tetrachloride	117	13.016	13.016	(0.974)	7923	1.00000	0.9677(a)
$	52 1,2-Dichloroethane-d4	102	12.206	12.206	(0.914)	40969	30.0000	30.32
	58 Benzene	78	13.046	13.046	(0.976)	17905	1.00000	0.9735(a)
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	7426	1.00000	1.016
	48 2,2-Dichloropropane	77	11.385	11.385	(0.852)	6474	1.00000	0.9293(a)
	55 1,1-Dichloropropene	75	12.803	12.803	(0.958)	6532	1.00000	0.9860(a)
	63 Trichloroethene	95	13.910	13.910	(1.041)	5458	1.00000	0.9774(a)
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	4914	1.00000	1.010
	61 Dibromomethane	93	13.782	13.782	(1.031)	3389	1.00000	1.022
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	3306	1.00000	0.8095(a)
	64 Bromodichloromethane	83	13.946	13.946	(1.044)	7191	1.00000	1.004
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	5114	2.00000	1.816(a)
	71 cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	7105	1.00000	0.8672(a)
	72 4-Methyl-2-pentanone	43	14.835	14.835	(1.110)	8588	2.00000	1.840(a)
$	76 Toluene-d8	98	15.400	15.400	(0.924)	785486	30.0000	31.14
	78 Toluene	92	15.473	15.473	(0.928)	14580	1.00000	1.043
	73 trans-1,3-Dichloropropene	75	15.151	15.151	(0.909)	6735	1.00000	0.8722(a)
	80 Ethyl methacrylate	69	15.583	15.583	(0.935)	4047	1.00000	0.6791(a)
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	4224	1.00000	1.091
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	7125	1.00000	1.055
	81 2-Hexanone	43	15.686	15.686	(0.941)	5545	2.00000	1.583(a)
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	5575	1.00000	0.9314(a)
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	5343	1.00000	0.9872(a)
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	7582	1.00000	1.002
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	363148	30.0000	
	87 Chlorobenzene	112	16.702	16.702	(1.002)	17127	1.00000	1.009
	85 1,1,1,2-Tetrachloroethane	131	16.648	16.648	(0.999)	6240	1.00000	1.006
	88 Ethylbenzene	91	16.848	16.848	(1.011)	26155	1.00000	0.9926(a)
	89 m,p-Xylene	91	17.000	17.000	(1.020)	40725	2.00000	2.004
M	100 Xylene(total)	91				61384	1.00000	2.848
	93 o-Xylene	91	17.298	17.298	(1.038)	20659	1.00000	0.9584(a)
	91 Styrene	104	17.244	17.244	(1.034)	13692	1.00000	0.8583(a)
	90 Bromoform	173	17.086	17.086	(1.025)	3708	1.00000	0.8934(a)
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	26541	1.00000	0.9982(a)

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
Report Date: 20-Jul-2006 07:33

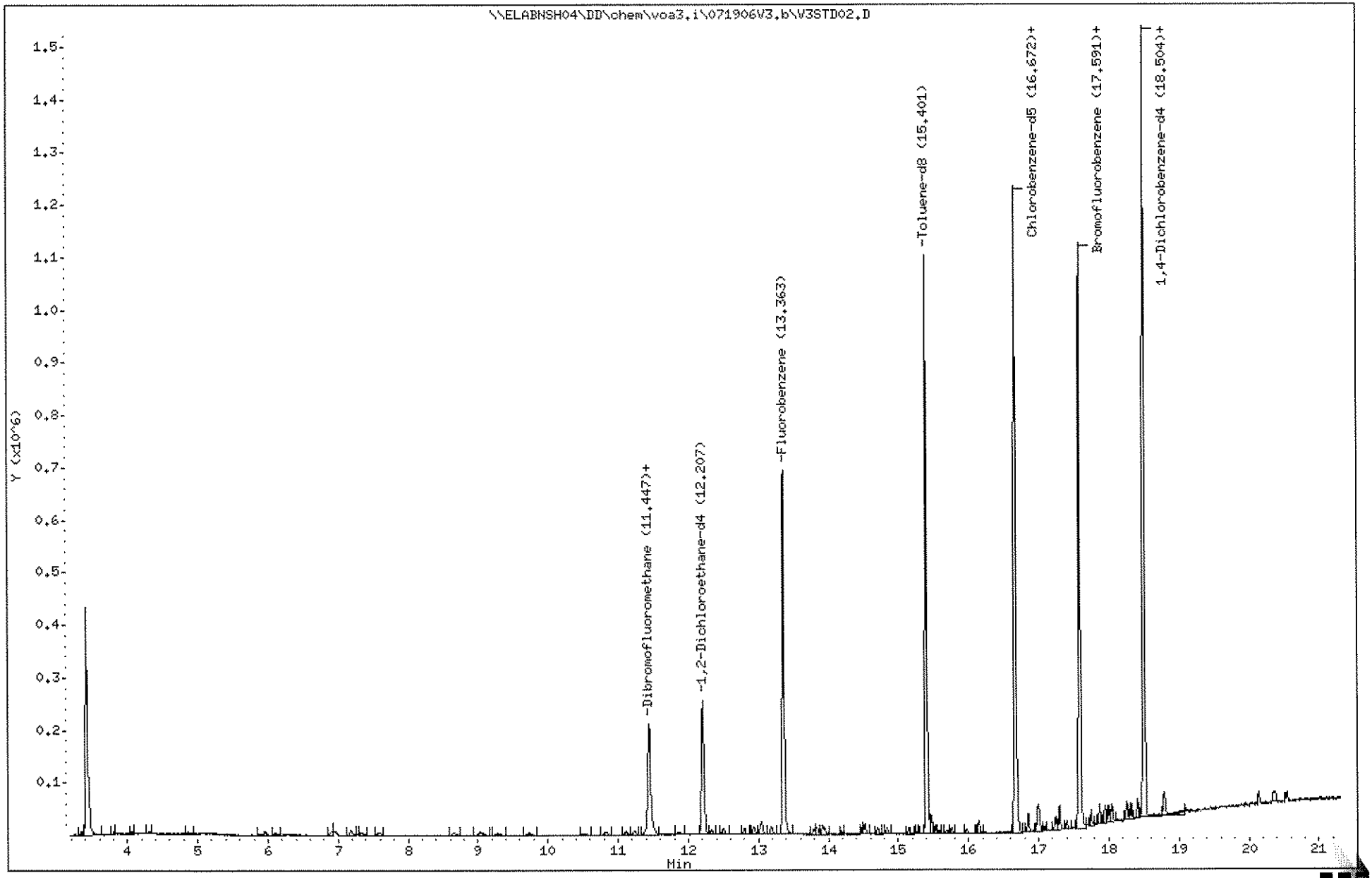
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.590	17.590	(1.055)	368713	30.0000	31.10
	92 1,1,2,2-Tetrachloroethane	83	17.305	17.305	(0.935)	6883	1.00000	1.014
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	8228	1.00000	1.012
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	2517	1.00000	1.085
	101 n-Propylbenzene	91	17.870	17.870	(0.966)	28819	1.00000	0.9342(a)
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	19303	1.00000	0.8816(a)
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	17699	1.00000	0.8658(a)
	107 sec-Butylbenzene	105	18.412	18.412	(0.995)	24551	1.00000	0.9273(a)
	105 tert-Butylbenzene	119	18.260	18.260	(0.987)	18952	1.00000	0.9351(a)
	108 1,3-Dichlorobenzene	146	18.485	18.485	(0.999)	15286	1.00000	0.9470(a)
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	418150	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	17368	1.00000	1.049
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	15184	1.00000	0.9298(a)
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	13679	1.00000	0.9214(a)
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	1673	1.00000	0.9344(a)
	98 Bromobenzene	156	17.749	17.749	(0.959)	8306	1.00000	0.9911(a)
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	18875	1.00000	0.9217(a)
	103 4-Chlorotoluene	91	17.998	17.998	(0.973)	19646	1.00000	0.9011(a)
	116 1,2,4-Trichlorobenzene	180	20.139	20.139	(1.088)	7798	1.00000	0.9666(a)
	117 Naphthalene	128	20.352	20.352	(1.100)	15043	1.00000	0.9114(a)
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	20894	1.00000	0.9558(a)
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	3537	1.00000	1.042
	119 1,2,3-Trichlorobenzene	180	20.547	20.547	(1.110)	6873	1.00000	0.9251(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
Date : 19-JUL-2006 18:36
Client ID: V3STD1PPB
Instrument: voa3.i
Sample Info: V3STD1PPB;;;;;;
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000162



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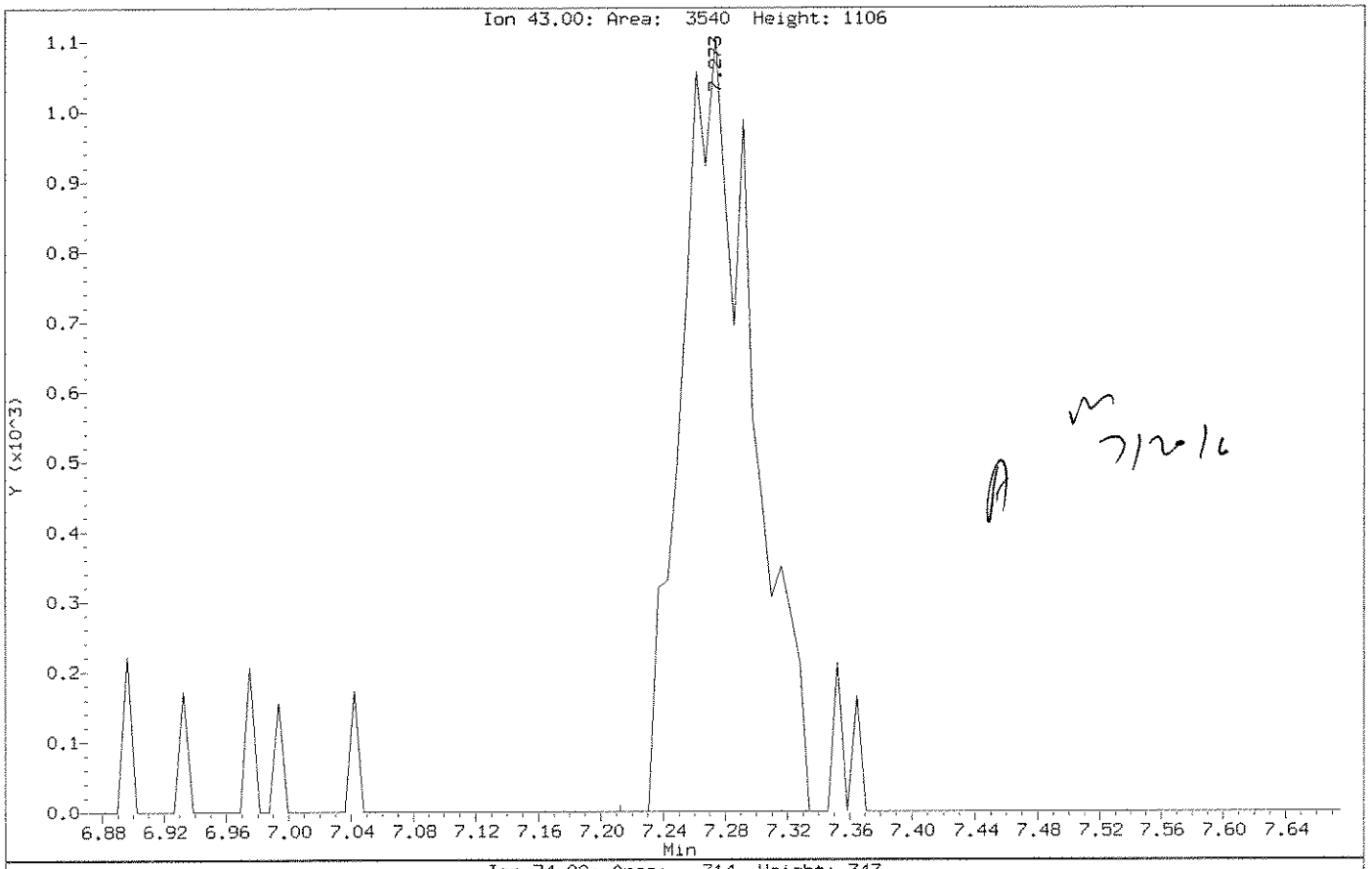
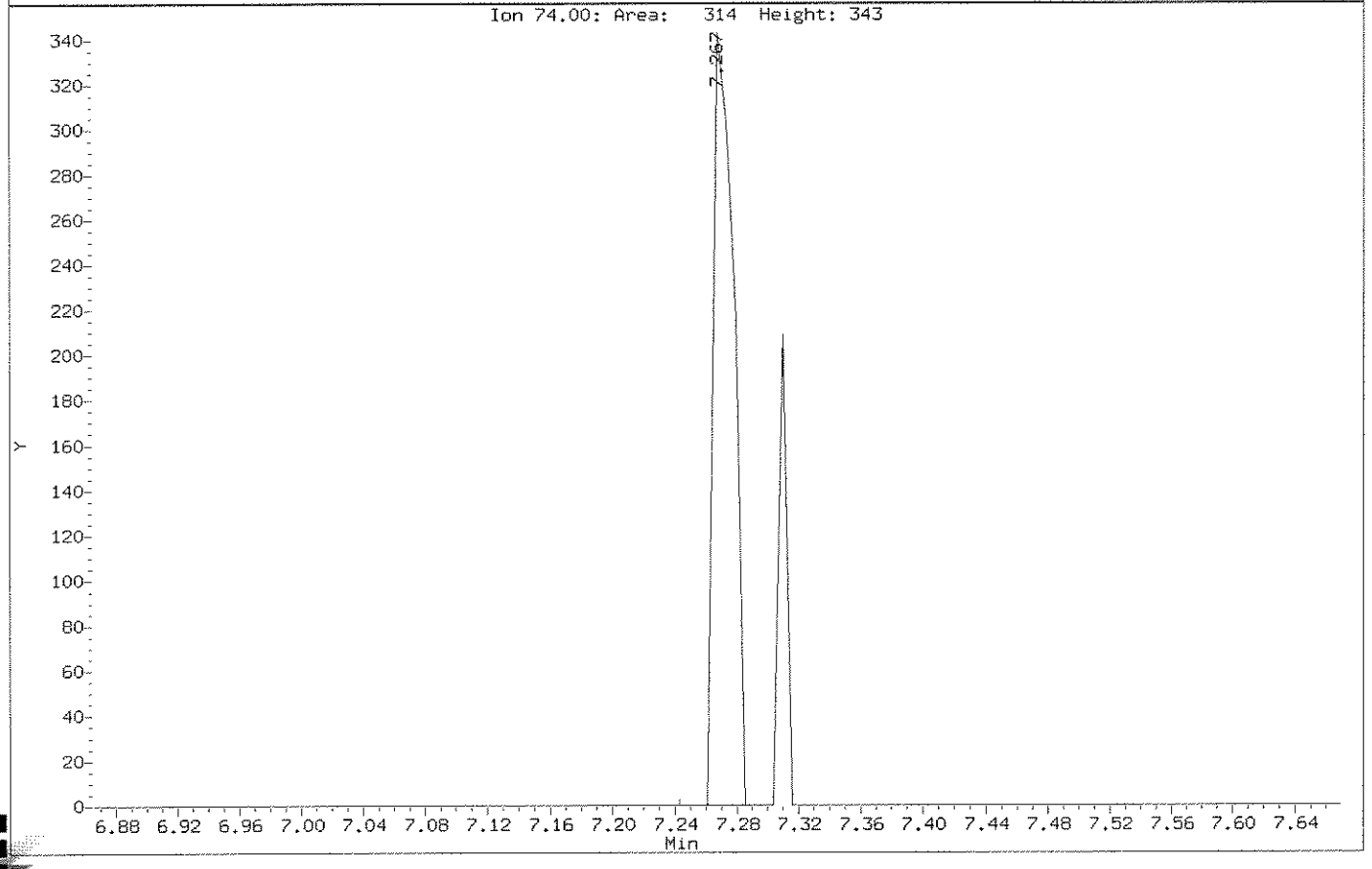
Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD02.D
Injection Date: 19-JUL-2006 18:36
Instrument: voa3.i
Client Sample ID: V3STD1PPB

Compound: Methyl acetate
CAS Number: 79-20-9





Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD01.D
Report Date: 20-Jul-2006 07:33

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD01.D
Lab Smp Id: V3STD0.5PPB Client Smp ID: V3STD0.5PPB
Inj Date : 19-JUL-2006 19:06 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3STD0.5PPB;;;;;;
Misc Info : ;1;;;1;gm-all.sub;#4928,4961
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\VWATER3.m
Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	682732	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.805	(0.285)	2779	0.50000	0.5056(a)
2 Chloromethane	50	4.060	4.060	(0.304)	2134	0.50000	0.4373(a)
4 Vinyl chloride	62	4.310	4.310	(0.323)	2517	0.50000	0.5540(a)
7 Bromomethane	94	4.864	4.864	(0.364)	1731	0.50000	0.5878(a)
8 Chloroethane	64	5.064	5.064	(0.379)	1363	0.50000	0.5417(a)
11 Trichlorofluoromethane	101	5.965	5.965	(0.446)	4972	0.50000	0.5903(a)
25 Trichlorotrifluoroethane	101	7.340	7.340	(0.549)	2776	0.50000	0.5898(a)
21 1,1-Dichloroethene	96	6.902	6.902	(0.517)	2009	0.50000	0.5231(a)
14 Acetone	43	6.117	6.117	(0.458)	5399	1.00000	1.715(a)
22 Iodomethane	142	6.932	6.932	(0.519)	2184	0.50000	0.3356(Ta)
28 Carbon disulfide	76	7.589	7.589	(0.568)	7437	0.50000	0.5335(a)
24 Methylene chloride	84	7.187	7.187	(0.538)	4267	0.50000	(a)
23 Acrylonitrile	53	6.962	6.962	(0.521)	3326	2.50000	2.227(a)
31 trans-1,2-Dichloroethene	96	8.660	8.660	(0.648)	2594	0.50000	0.5763(a)
32 MTBE	73	9.055	9.055	(0.678)	7563	0.50000	0.5903(a)

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD01.D
Report Date: 20-Jul-2006 07:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	33 1,1-Dichloroethane	63	9.292	9.292	(0.695)	4218	0.50000	0.5342(Ta)
	36 Vinyl acetate	43	9.736	9.736	(0.729)	6420	1.00000	0.6948(aM)
	44 cis-1,2-Dichloroethene	96	10.832	10.832	(0.811)	2558	0.50000	0.5494(a)
M	29 1,2-Dichloroethene(total)	96				5152	1.00000	1.125
	42 2-Butanone	43	10.515	10.515	(0.787)	5212	1.00000	2.460(a)
	46 Bromochloromethane	128	11.130	11.130	(0.833)	1204	0.50000	0.4649(a)
	51 Tetrahydrofuran	42	11.860	11.860	(0.888)	1955	0.50000	1.677(a)
	47 Chloroform	83	11.239	11.239	(0.841)	5417	0.50000	0.6004(a)
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	185577	30.0000	30.78
	54 1,1,1-Trichloroethane	97	12.498	12.498	(0.935)	4498	0.50000	0.5326(a)
	56 Cyclohexane	56	12.930	12.930	(0.968)	3996	0.50000	0.5428(a)
	57 Carbon tetrachloride	117	13.028	13.028	(0.975)	4476	0.50000	0.5642(a)
$	52 1,2-Dichloroethane-d4	102	12.212	12.212	(0.914)	40775	30.0000	31.15
	58 Benzene	78	13.052	13.052	(0.977)	9009	0.50000	0.5055(a)
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	3763	0.50000	0.5311(Ta)
	48 2,2-Dichloropropane	77	11.379	11.379	(0.852)	3117	0.50000	0.4618(a)
	55 1,1-Dichloropropene	75	12.790	12.790	(0.957)	3348	0.50000	0.5216(a)
	63 Trichloroethene	95	13.916	13.916	(1.041)	2876	0.50000	0.5316(a)
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	2407	0.50000	0.5104(a)
	61 Dibromomethane	93	13.788	13.788	(1.032)	1684	0.50000	0.5242(a)
	66 Methyl methacrylate	41	14.190	14.190	(1.062)	1689	0.50000	0.4268(a)
	64 Bromodichloromethane	83	13.952	13.952	(1.044)	3597	0.50000	0.5182(a)
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	2222	1.00000	0.8143(a)
	71 cis-1,3-Dichloropropene	75	14.707	14.707	(1.101)	3594	0.50000	0.4527(a)
	72 4-Methyl-2-pentanone	43	14.835	14.835	(1.110)	4338	1.00000	0.9594(a)
$	76 Toluene-d8	98	15.406	15.406	(0.924)	761948	30.0000	30.31
	78 Toluene	92	15.473	15.473	(0.928)	8368	0.50000	0.6011(a)
	73 trans-1,3-Dichloropropene	75	15.151	15.151	(0.909)	3527	0.50000	0.4584(a)
	80 Ethyl methacrylate	69	15.583	15.583	(0.935)	1555	0.50000	0.2619(a)
	75 1,1,2-Trichloroethane	83	15.303	15.303	(0.918)	1849	0.50000	0.4795(a)
	84 Tetrachloroethene	166	16.155	16.155	(0.969)	3910	0.50000	0.5809(a)
	81 2-Hexanone	43	15.692	15.692	(0.941)	2443	1.00000	0.7001(a)
	82 Dibromochloromethane	129	15.765	15.765	(0.946)	2784	0.50000	0.4668(a)
	83 1,2-Dibromoethane	107	15.978	15.978	(0.958)	2730	0.50000	0.5063(a)
	69 Methyl cyclohexane	83	14.530	14.530	(1.087)	3531	0.50000	0.4814(a)
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	361816	30.0000	
	87 Chlorobenzene	112	16.702	16.702	(1.002)	8815	0.50000	0.5212(a)
	85 1,1,1,2-Tetrachloroethane	131	16.647	16.647	(0.999)	3089	0.50000	0.5000(a)
	88 Ethylbenzene	91	16.860	16.860	(1.011)	13275	0.50000	0.5056(a)
	89 m,p-Xylene	91	17.000	17.000	(1.020)	20216	1.00000	0.9983(a)
M	100 Xylene(total)	91				30394	0.50000	1.415
	93 o-Xylene	91	17.304	17.304	(1.038)	10178	0.50000	0.4739(a)
	91 Styrene	104	17.244	17.244	(1.034)	6502	0.50000	0.4091(a)
	90 Bromoform	173	17.092	17.092	(1.025)	1750	0.50000	0.4232(a)
	96 Isopropylbenzene	105	17.572	17.572	(1.054)	13915	0.50000	0.5252(a)
$	97 Bromofluorobenzene	95	17.590	17.590	(1.055)	356738	30.0000	30.20
	92 1,1,2,2-Tetrachloroethane	83	17.304	17.304	(0.935)	3437	0.50000	0.5436(a)

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD01.D
Report Date: 20-Jul-2006 07:33

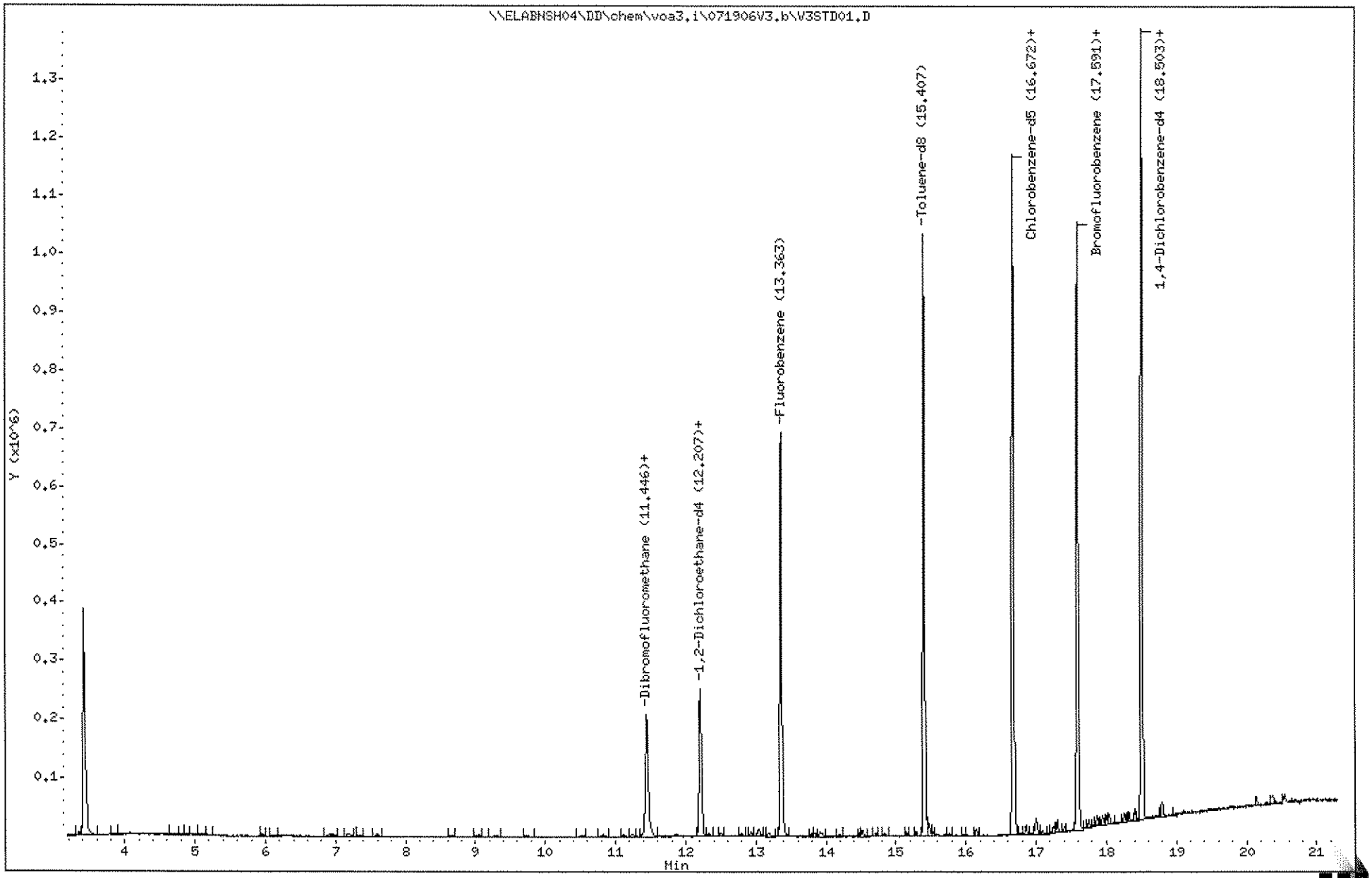
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
79	1,3-Dichloropropane	76	15.528	15.528	(0.931)	4208	0.50000	0.5194(a)
94	1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	1311	0.50000	0.5670(a)
101	n-Propylbenzene	91	17.870	17.870	(0.965)	14219	0.50000	0.4946(a)
106	1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	9749	0.50000	0.4778(a)
104	1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	8665	0.50000	0.4549(a)
107	sec-Butylbenzene	105	18.412	18.412	(0.995)	12816	0.50000	0.5195(a)
105	tert-Butylbenzene	119	18.260	18.260	(0.987)	9846	0.50000	0.5214(a)
108	1,3-Dichlorobenzene	146	18.485	18.485	(0.999)	8135	0.50000	0.5408(a)
* 110	1,4-Dichlorobenzene-d4	152	18.509	18.509	(1.000)	389635	30.0000	
111	1,4-Dichlorobenzene	146	18.527	18.527	(1.001)	7436	0.50000	0.4821(a)
114	n-Butylbenzene	91	18.801	18.801	(1.016)	8401	0.50000	0.5521(a)
113	1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	7089	0.50000	0.5125(a)
115	1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	880	0.50000	0.5275(a)
98	Bromobenzene	156	17.755	17.755	(0.959)	4006	0.50000	0.5130(a)
102	2-Chlorotoluene	91	17.943	17.943	(0.969)	9622	0.50000	0.5043(a)
103	4-Chlorotoluene	91	17.998	17.998	(0.972)	9807	0.50000	0.4827(a)
116	1,2,4-Trichlorobenzene	180	20.139	20.139	(1.088)	4393	0.50000	0.5844(a)
117	Naphthalene	128	20.358	20.358	(1.100)	8875	0.50000	0.5770(a)
112	p-Isopropyltoluene	119	18.515	18.515	(1.000)	10680	0.50000	0.5243(a)
118	Hexachlorobutadiene	225	20.377	20.377	(1.101)	2055	0.50000	0.6494(a)
119	1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	4217	0.50000	0.6092(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3STD01.D
Date : 19-JUL-2006 19:06
Client ID: V3STD0.5PPB
Instrument: voa3.i
Sample Info: V3STD0.5PPB;;;;;;
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000167



Empirical Laboratories

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/18/06 Time: 1151

Lab File ID: V1LCS01ICV Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.407	0.344	100.0	94.74		LINR	-5.3	25.0
Acrolein	0.126	0.123	250.0	245.2		AVRG	-1.9	25.0
Acrylonitrile	0.191	0.187	250.0	244.2		AVRG	-2.3	25.0
Benzene	1.919	1.937	50.00	50.46		AVRG	0.9	25.0
Bromobenzene	1.310	1.352	50.00	51.62		AVRG	3.2	25.0
Bromochloromethane	0.238	0.250	50.00	52.46		AVRG	4.9	25.0
Bromodichloromethane	0.677	0.739	50.00	54.56		AVRG	9.1	25.0
Bromoform	0.846	0.918	50.00	54.24	0.100	AVRG	8.5	25.0
Bromomethane	0.368	0.351	50.00	47.66		AVRG	-4.7	25.0
2-Butanone	0.473	0.445	100.0	94.14		AVRG	-5.9	25.0
n-Butylbenzene	5.238	5.349	50.00	51.06		AVRG	2.1	25.0
sec-Butylbenzene	6.597	6.808	50.00	51.60		AVRG	3.2	25.0
tert-Butylbenzene	4.069	4.296	50.00	52.78		AVRG	5.6	25.0
Carbon disulfide	1.804	1.728	50.00	47.89		AVRG	-4.2	25.0
Carbon tetrachloride	0.502	0.576	50.00	51.58		LINR	3.2	25.0
Chlorobenzene	2.298	2.396	50.00	52.13	0.300	AVRG	4.2	25.0
Chloroethane	0.412	0.413	50.00	50.14		AVRG	0.3	25.0
2-Chloroethyl vinyl ether		0.148	100.0	0.0000		AVRG		25.0
Chloroform	0.935	0.948	50.00	50.68		AVRG	1.4	25.0
Chloromethane	0.780	0.787	50.00	50.44	0.100	AVRG	0.9	25.0
2-Chlorotoluene	4.840	4.492	50.00	46.40		AVRG	-7.2	25.0
4-Chlorotoluene	5.414	5.367	50.00	49.56		AVRG	-0.9	25.0
Cyclohexane	1.056	1.021	50.00	48.35		AVRG	-3.3	25.0
Dibromochloromethane	0.876	0.973	50.00	55.52		AVRG	11.0	25.0
1,2-Dibromo-3-chloropropane	0.315	0.336	50.00	53.41		AVRG	6.8	25.0
1,2-Dibromoethane	0.901	0.967	50.00	53.62		AVRG	7.2	25.0
Dibromomethane	0.324	0.339	50.00	52.32		AVRG	4.6	25.0
1,2-Dichlorobenzene	2.271	2.329	50.00	51.27		AVRG	2.5	25.0
1,3-Dichlorobenzene	2.544	3.132	50.00	61.54		AVRG	23.1	25.0
1,4-Dichlorobenzene	2.634	2.624	50.00	49.82		AVRG	-0.4	25.0
Dichlorodifluoromethane	0.623	0.668	50.00	53.56		AVRG	7.1	25.0
1,1-Dichloroethane	1.046	1.058	50.00	50.61	0.100	AVRG	1.2	25.0
1,2-Dichloroethane	0.832	0.876	50.00	52.68		AVRG	5.4	25.0
1,1-Dichloroethene	0.427	0.446	50.00	52.27		AVRG	4.5	25.0
cis-1,2-Dichloroethene	0.528	0.544	50.00	51.43		AVRG	2.9	25.0
trans-1,2-Dichloroethene	0.493	0.514	50.00	52.09		AVRG	4.2	25.0
1,2-Dichloroethene(total)	0.511	0.529	100.0	103.5		AVRG	3.5	25.0

ICV VOA

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/18/06 Time: 1151

Lab File ID: V1LCS01ICV Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.580	0.602	50.00	51.93		AVRG	3.8	25.0
1,3-Dichloropropane	1.751	1.794	50.00	51.23		AVRG	2.5	25.0
2,2-Dichloropropane	0.824	0.843	50.00	51.15		AVRG	2.3	25.0
1,1-Dichloropropene	0.756	0.788	50.00	52.13		AVRG	4.2	25.0
cis-1,3-Dichloropropene	0.892	0.931	50.00	52.18		AVRG	4.4	25.0
trans-1,3-Dichloropropene	1.643	1.685	50.00	51.27		AVRG	2.5	25.0
Ethylbenzene	4.315	4.484	50.00	51.95		AVRG	3.9	25.0
Ethyl methacrylate	1.522	1.538	50.00	50.55		AVRG	1.1	25.0
Hexachlorobutadiene	0.800	0.832	50.00	51.96		AVRG	3.9	25.0
2-Hexanone	1.215	1.220	100.0	100.4		AVRG	0.4	25.0
Iodomethane	0.515	0.552	50.00	53.60		AVRG	7.2	25.0
Isopropylbenzene	3.990	3.937	50.00	49.34		AVRG	-1.3	25.0
p-Isopropyltoluene	4.948	4.917	50.00	49.68		AVRG	-0.6	25.0
Methyl acetate	0.525	0.449	50.00	48.69		LINR	-2.6	25.0
Methyl cyclohexane	0.886	0.878	50.00	49.53		AVRG	-0.9	25.0
Methylene chloride	0.895	0.589	50.00	53.18		LINR	6.4	25.0
Methyl methacrylate	0.660	0.664	50.00	50.31		AVRG	0.6	25.0
4-Methyl-2-pentanone	0.767	0.766	100.0	99.79		AVRG	-0.2	25.0
MTBE	1.545	1.528	50.00	49.45		AVRG	-1.1	25.0
Naphthalene	4.359	4.226	50.00	48.48		AVRG	-3.0	25.0
n-Propylbenzene	7.578	7.862	50.00	51.88		AVRG	3.8	25.0
Styrene	2.687	2.796	50.00	52.04		AVRG	4.1	25.0
1,1,1,2-Tetrachloroethane	0.814	0.873	50.00	53.58		AVRG	7.2	25.0
1,1,2,2-Tetrachloroethane	1.819	1.885	50.00	51.82	0.300	AVRG	3.6	25.0
Tetrachloroethene	0.873	0.906	50.00	51.84		AVRG	3.7	25.0
Tetrahydrofuran	0.229	0.222	50.00	48.48		AVRG	-3.0	25.0
Toluene	2.352	2.354	50.00	50.04		AVRG	0.1	25.0
1,2,3-Trichlorobenzene	1.448	1.437	50.00	49.62		AVRG	-0.8	25.0
1,2,4-Trichlorobenzene	1.543	1.522	50.00	49.32		AVRG	-1.4	25.0
1,1,1-Trichloroethane	0.734	0.768	50.00	52.30		AVRG	4.6	25.0
1,1,2-Trichloroethane	0.769	0.786	50.00	51.12		AVRG	2.2	25.0
Trichloroethene	0.503	0.518	50.00	51.51		AVRG	3.0	25.0
Trichlorofluoromethane	0.733	0.763	50.00	52.05		AVRG	4.1	25.0
Trichlorotrifluoroethane	0.473	0.462	50.00	48.83		AVRG	-2.3	25.0
1,2,3-Trichloropropane	0.364	0.386	50.00	53.07		AVRG	6.1	25.0
1,2,4-Trimethylbenzene	4.682	4.949	50.00	52.86		AVRG	5.7	25.0
1,3,5-Trimethylbenzene	4.648	4.751	50.00	51.10		AVRG	2.2	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/18/06 Time: 1151

Lab File ID: V1LCS01ICV Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	1.523	1.533	100.0	100.7		AVRG	0.7	25.0
Vinyl chloride	0.646	0.696	50.00	53.89		AVRG	7.8	25.0
Xylene(total)	3.373	3.471	150.0	150.7		AVRG	2.9	25.0
Dibromofluoromethane	0.274	0.280	30.00	30.68		AVRG	2.3	25.0
1,2-Dichloroethane-d4	0.074	0.075	30.00	30.36		AVRG	1.2	25.0
Toluene-d8	1.828	1.801	30.00	29.55		AVRG	-1.5	25.0
Bromofluorobenzene	0.793	0.791	30.00	29.92		AVRG	-0.3	25.0

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1LCS01.D
Report Date: 18-Jul-2006 15:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1LCS01.D
Lab Smp Id: V1BLK0718LCS Client Smp ID: V1BLK0718LCS
Inj Date : 18-JUL-2006 11:51 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0718LCS;;;;;
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4962
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\071806V1.b\VSOIL1.m
Meth Date : 18-Jul-2006 15:04 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.844	14.853	(1.000)	602054	30.0000	
1 Dichlorodifluoromethane	85	6.004	6.018	(0.405)	670063	53.5628	53.56(M)
4 Chloromethane	50	6.431	6.445	(0.433)	789752	50.4452	50.44
5 Vinyl chloride	62	6.755	6.769	(0.455)	698898	53.8905	53.89
6 Bromomethane	94	7.535	7.549	(0.508)	352006	47.6554	47.66
7 Chloroethane	64	7.800	7.814	(0.526)	414349	50.1393	50.14(M)
9 Trichlorofluoromethane	101	8.831	8.844	(0.595)	765766	52.0527	52.05
21 Trichlorotrifluoroethane	101	10.097	10.096	(0.680)	463451	48.8318	48.83
8 Acrolein	56	8.772	8.786	(0.591)	619305	245.225	245.2
12 Acetone	43	8.978	8.992	(0.605)	690758	94.7398	94.74
15 1,1-Dichloroethene	96	9.773	9.772	(0.658)	447745	52.2737	52.27
16 Iodomethane	142	9.832	9.846	(0.662)	554381	53.6049	53.60
17 Acrylonitrile	53	9.788	9.787	(0.659)	937004	244.179	244.2
20 Methylene chloride	84	9.994	10.007	(0.673)	590983	53.1788	53.18
25 Carbon disulfide	76	10.436	10.434	(0.703)	1734173	47.8873	47.89

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1LCS01.D
Report Date: 18-Jul-2006 15:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.097	11.109	(0.748)	515841	52.0938	52.09
	29 MTBE	73	11.288	11.300	(0.760)	1533050	49.4473	49.45
	30 1,1-Dichloroethane	63	11.508	11.520	(0.775)	1062217	50.6106	50.61
	32 Vinyl acetate	43	11.640	11.652	(0.784)	3077125	100.688	100.7
	35 2-Butanone	43	12.140	12.166	(0.818)	893766	94.1391	94.14
	38 cis-1,2-Dichloroethene	96	12.433	12.459	(0.838)	545453	51.4339	51.43
M	18 1,2-Dichloroethene(total)	96				1061294	103.505	103.5
	41 Bromochloromethane	128	12.683	12.694	(0.854)	251167	52.4584	52.46
	42 Chloroform	83	12.757	12.753	(0.859)	951018	50.6804	50.68
	43 2,2-Dichloropropane	77	12.889	12.900	(0.868)	845678	51.1523	51.15
$	44 Dibromofluoromethane	111	12.933	12.930	(0.871)	168546	30.6790	30.68
	22 Methyl acetate	43	10.024	10.022	(0.675)	450619	48.6877	48.69
	47 Tetrahydrofuran	42	13.271	13.297	(0.894)	222453	48.4777	48.48
	52 Cyclohexane	56	14.417	14.427	(0.971)	1024808	48.3485	48.35
$	48 1,2-Dichloroethane-d4	102	13.638	13.649	(0.919)	44938	30.3649	30.36
	49 1,2-Dichloroethane	62	13.756	13.766	(0.927)	879186	52.6778	52.68
	50 1,1,1-Trichloroethane	97	13.947	13.957	(0.940)	770260	52.2976	52.30
	51 1,1-Dichloropropene	75	14.226	14.236	(0.958)	790654	52.1284	52.13
	53 Carbon tetrachloride	117	14.506	14.530	(0.977)	578427	51.5837	51.58
	54 Benzene	78	14.535	14.530	(0.979)	1943382	50.4657	50.46
	58 Dibromomethane	93	15.402	15.425	(1.038)	340559	52.3206	52.32
	59 1,2-Dichloropropane	63	15.446	15.455	(1.041)	603949	51.9269	51.93
	60 Trichloroethene	95	15.519	15.528	(1.046)	520270	51.5144	51.51
	61 Bromodichloromethane	83	15.578	15.587	(1.049)	742020	54.5647	54.56
	62 Methyl methacrylate	41	15.696	15.719	(1.057)	666864	50.3094	50.31
	68 cis-1,3-Dichloropropene	75	16.534	16.541	(1.114)	934612	52.1819	52.18
	70 4-Methyl-2-pentanone	43	16.637	16.644	(1.121)	1536544	99.7867	99.79
	71 trans-1,3-Dichloropropene	75	17.136	17.157	(0.869)	843750	51.2719	51.27
	72 1,1,2-Trichloroethane	83	17.401	17.422	(0.882)	393695	51.1244	51.12
$	73 Toluene-d8	98	17.577	17.583	(0.891)	540980	29.5548	29.55
	74 Toluene	92	17.680	17.686	(0.896)	1178416	50.0376	50.04
	76 1,3-Dichloropropane	76	17.754	17.775	(0.900)	898458	51.2339	51.23
	75 Ethyl methacrylate	69	17.680	17.686	(0.896)	770262	50.5510	50.55(Q)
	77 2-Hexanone	43	17.901	17.907	(0.908)	1221473	100.408	100.4
	78 Dibromochloromethane	129	18.195	18.200	(0.922)	487252	55.5254	55.52
	79 1,2-Dibromoethane	107	18.563	18.568	(0.941)	484010	53.6166	53.62
	65 Methyl cyclohexane	83	16.357	16.365	(1.102)	880618	49.5267	49.53
	80 Tetrachloroethene	166	18.813	18.817	(0.954)	453449	51.8405	51.84
	81 1,1,1,2-Tetrachloroethane	131	19.680	19.684	(0.998)	436939	53.5855	53.58(Q)
*	82 Chlorobenzene-d5	82	19.724	19.743	(1.000)	300414	30.0000	(Q)
	83 Chlorobenzene	112	19.783	19.787	(1.003)	1199829	52.1265	52.13
	87 Bromoform	173	20.548	20.595	(0.877)	309160	54.2441	54.24
	84 Ethylbenzene	91	20.019	20.022	(1.015)	2244974	51.9523	51.95
	85 m,p-Xylene	91	20.269	20.286	(1.028)	3352187	102.756	102.8
M	91 Xylene(total)	91				5090291	150.682	150.7
	89 o-Xylene	91	20.872	20.875	(1.058)	1738104	51.4512	51.45
	88 Styrene	104	20.755	20.757	(1.052)	1400183	52.0362	52.04

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1LCS01.D
Report Date: 18-Jul-2006 15:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
	90 1,1,2,2-Tetrachloroethane	83	20.887	20.904	(0.891)	635040	51.8153	51.82	
	92 1,2,3-Trichloropropane	110	21.093	21.095	(1.069)	193349	53.0670	53.07	
	94 Isopropylbenzene	105	21.388	21.389	(1.084)	1971462	49.3418	49.34	
$	95 Bromofluorobenzene	95	21.476	21.493	(1.089)	237712	29.9204	29.92	
	96 Bromobenzene	156	21.830	21.846	(0.931)	455648	51.6202	51.62	
	97 n-Propylbenzene	91	22.021	22.037	(0.940)	2648701	51.8761	51.88	
	98 2-Chlorotoluene	91	22.213	22.243	(0.948)	1513285	46.4026	46.40	
	99 4-Chlorotoluene	91	22.316	22.332	(0.952)	1808068	49.5618	49.56	
	100 1,3,5-Trimethylbenzene	105	22.375	22.391	(0.955)	1600551	51.1019	51.10	
	102 tert-Butylbenzene	119	22.862	22.876	(0.975)	1447253	52.7831	52.78	
	103 1,2,4-Trimethylbenzene	105	22.995	23.009	(0.981)	1667439	52.8631	52.86	
	104 sec-Butylbenzene	105	23.201	23.215	(0.990)	2293688	51.6002	51.60	
	105 1,3-Dichlorobenzene	146	23.393	23.392	(0.998)	1055122	61.5408	61.54	
*	106 1,4-Dichlorobenzene-d4	152	23.437	23.451	(1.000)	202136	30.0000		(Q)
	108 1,4-Dichlorobenzene	146	23.481	23.495	(1.002)	884068	49.8189	49.82	(M)
	107 p-Isopropyltoluene	119	23.422	23.436	(0.999)	1656411	49.6819	49.68	
	109 1,2-Dichlorobenzene	146	24.057	24.070	(1.026)	784746	51.2741	51.27	
	110 n-Butylbenzene	91	24.057	24.070	(1.026)	1802132	51.0610	51.06	
	111 1,2-Dibromo-3-chloropropane	157	24.779	24.777	(1.057)	113307	53.4138	53.41	
	112 1,2,4-Trichlorobenzene	180	26.990	27.016	(1.152)	512938	49.3220	49.32	
	113 Naphthalene	128	27.448	27.458	(1.171)	1423845	48.4810	48.48	
	114 Hexachlorobutadiene	225	27.507	27.502	(1.174)	280180	51.9554	51.96	
	115 1,2,3-Trichlorobenzene	180	27.861	27.871	(1.189)	484236	49.6201	49.62	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

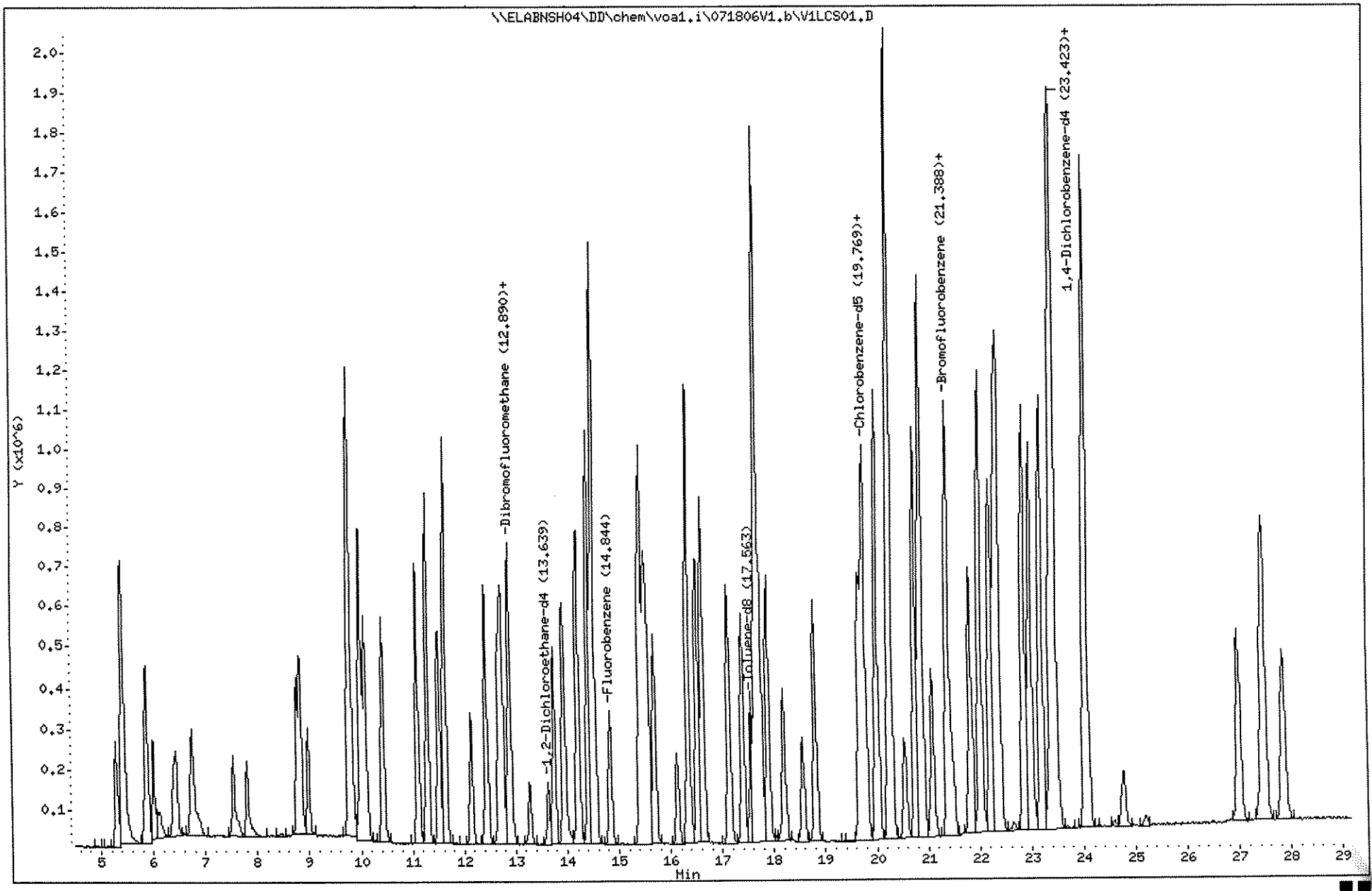
Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1LCS01.D
Date : 18-JUL-2006 11:51
Client ID: V1BLK0718LCS
Sample Info: V1BLK0718LCS;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000174



Empirical Laboratories

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/19/06 Time: 1636

Lab File ID: V3LCSICV Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.101	0.092	100.0	109.0		LINR	9.0	25.0
Acrolein	0.004	0.007	250.0	442.8		LINR	77.1	25.0
Acrylonitrile	0.066	0.071	250.0	270.7		AVRG	8.3	25.0
Benzene	0.783	0.826	50.00	52.74		AVRG	5.5	25.0
Bromobenzene	0.601	0.623	50.00	51.79		AVRG	3.6	25.0
Bromochloromethane	0.114	0.124	50.00	54.34		AVRG	8.7	25.0
Bromodichloromethane	0.305	0.339	50.00	55.52		AVRG	11.0	25.0
Bromoform	0.343	0.394	50.00	57.46	0.100	AVRG	14.9	25.0
Bromomethane	0.119	0.117	50.00	45.08		LINR	-9.8	25.0
2-Butanone	0.103	0.098	100.0	105.1		LINR	5.1	25.0
n-Butylbenzene	1.172	1.391	50.00	59.37		AVRG	18.7	25.0
sec-Butylbenzene	1.900	2.239	50.00	58.94		AVRG	17.9	25.0
tert-Butylbenzene	1.454	1.654	50.00	56.88		AVRG	13.8	25.0
Carbon disulfide	0.612	0.564	50.00	46.08		AVRG	-7.8	25.0
Carbon tetrachloride	0.348	0.361	50.00	51.83		AVRG	3.7	25.0
Chlorobenzene	1.402	1.507	50.00	53.73	0.300	AVRG	7.5	25.0
Chloroethane	0.110	0.117	50.00	52.81		AVRG	5.6	25.0
2-Chloroethyl vinyl ether	0.120	0.147	100.0	122.4		AVRG	22.4	25.0
Chloroform	0.396	0.390	50.00	49.15		AVRG	-1.7	25.0
Chloromethane	0.214	0.213	50.00	49.64	0.100	AVRG	-0.7	25.0
2-Chlorotoluene	1.469	1.616	50.00	54.99		AVRG	10.0	25.0
4-Chlorotoluene	1.564	1.736	50.00	55.49		AVRG	11.0	25.0
Cyclohexane	0.323	0.316	50.00	48.78		AVRG	-2.4	25.0
Dibromochloromethane	0.494	0.578	50.00	58.44		AVRG	16.9	25.0
1,2-Dibromo-3-chloropropane	0.129	0.135	50.00	52.53		AVRG	5.0	25.0
1,2-Dibromoethane	0.447	0.488	50.00	54.59		AVRG	9.2	25.0
Dibromomethane	0.141	0.149	50.00	52.69		AVRG	5.4	25.0
1,2-Dichlorobenzene	1.065	1.143	50.00	53.65		AVRG	7.3	25.0
1,3-Dichlorobenzene	1.158	1.184	50.00	51.12		AVRG	2.2	25.0
1,4-Dichlorobenzene	1.188	1.211	50.00	50.98		AVRG	2.0	25.0
Dichlorodifluoromethane	0.241	0.255	50.00	52.85		AVRG	5.7	25.0
1,1-Dichloroethane	0.347	0.363	50.00	52.26	0.100	AVRG	4.5	25.0
1,2-Dichloroethane	0.311	0.322	50.00	51.80		AVRG	3.6	25.0
1,1-Dichloroethene	0.169	0.181	50.00	53.58		AVRG	7.2	25.0
cis-1,2-Dichloroethene	0.205	0.220	50.00	53.76		AVRG	7.5	25.0
1,2-Dichloroethene(total)	0.201	0.211	100.0	104.9		AVRG	4.9	25.0
trans-1,2-Dichloroethene	0.198	0.202	50.00	51.12		AVRG	2.2	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/19/06 Time: 1636

Lab File ID: V3LCSICV Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.207	0.223	50.00	53.76		AVRG	7.5	25.0
1,3-Dichloropropane	0.672	0.727	50.00	54.11		AVRG	8.2	25.0
2,2-Dichloropropane	0.296	0.318	50.00	53.66		AVRG	7.3	25.0
1,1-Dichloropropene	0.282	0.304	50.00	53.90		AVRG	7.8	25.0
cis-1,3-Dichloropropene	0.349	0.398	50.00	57.00		AVRG	14.0	25.0
trans-1,3-Dichloropropene	0.638	0.688	50.00	53.93		AVRG	7.8	25.0
Ethylbenzene	2.177	2.368	50.00	54.40		AVRG	8.8	25.0
Ethyl methacrylate	0.440	0.567	50.00	57.57		LINR	15.1	25.0
Hexachlorobutadiene	0.244	0.240	50.00	49.20		AVRG	-1.6	25.0
2-Hexanone	0.269	0.320	100.0	110.6		LINR	10.6	25.0
Iodomethane	0.270	0.309	50.00	54.05		LINR	8.1	25.0
Isopropylbenzene	2.197	2.272	50.00	51.72		AVRG	3.4	25.0
p-Isopropyltoluene	1.568	1.814	50.00	57.85		AVRG	15.7	25.0
Methyl acetate	0.147	0.147	50.00	49.84		AVRG	-0.3	25.0
Methyl cyclohexane	0.322	0.324	50.00	50.36		AVRG	0.7	25.0
Methylene chloride	0.224	0.215	50.00	55.64		LINR	11.3	25.0
Methyl methacrylate	0.174	0.195	50.00	56.07		AVRG	12.1	25.0
MTBE	0.563	0.553	50.00	49.12		AVRG	-1.8	25.0
4-Methyl-2-pentanone	0.199	0.213	100.0	107.0		AVRG	7.0	25.0
Naphthalene	1.184	1.312	50.00	55.41		AVRG	10.8	25.0
n-Propylbenzene	2.213	2.538	50.00	57.34		AVRG	14.7	25.0
Styrene	1.318	1.592	50.00	60.39		AVRG	20.8	25.0
1,1,1,2-Tetrachloroethane	0.512	0.553	50.00	53.96		AVRG	7.9	25.0
1,1,2,2-Tetrachloroethane	0.487	0.510	50.00	52.43	0.300	AVRG	4.8	25.0
Tetrachloroethene	0.558	0.568	50.00	50.92		AVRG	1.8	25.0
Tetrahydrofuran	0.079	0.054	50.00	52.63		LINR	5.3	25.0
Toluene	1.154	1.143	50.00	49.52		AVRG	-1.0	25.0
1,2,3-Trichlorobenzene	0.533	0.563	50.00	52.85		AVRG	5.7	25.0
1,2,4-Trichlorobenzene	0.579	0.621	50.00	53.66		AVRG	7.3	25.0
1,1,1-Trichloroethane	0.371	0.379	50.00	51.02		AVRG	2.0	25.0
1,1,2-Trichloroethane	0.320	0.348	50.00	54.35		AVRG	8.7	25.0
Trichloroethene	0.238	0.247	50.00	51.94		AVRG	3.9	25.0
Trichlorofluoromethane	0.370	0.374	50.00	50.58		AVRG	1.2	25.0
Trichlorotrifluoroethane	0.207	0.184	50.00	44.62		AVRG	-10.8	25.0
1,2,3-Trichloropropane	0.192	0.198	50.00	51.68		AVRG	3.4	25.0
1,2,4-Trimethylbenzene	1.466	1.788	50.00	60.94		AVRG	21.9	25.0
1,3,5-Trimethylbenzene	1.571	1.827	50.00	58.15		AVRG	16.3	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/19/06 Time: 1636

Lab File ID: V3LCSICV Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	0.357	0.400	100.0	98.41		LINR	-1.6	25.0
Vinyl chloride	0.200	0.203	50.00	50.88		AVRG	1.8	25.0
Xylene(total)	1.781	1.993	150.0	160.0		AVRG	11.9	25.0
Dibromofluoromethane	0.265	0.266	30.00	30.17		AVRG	0.6	25.0
1,2-Dichloroethane-d4	0.058	0.059	30.00	30.66		AVRG	2.2	25.0
Toluene-d8	2.084	2.075	30.00	29.87		AVRG	-0.4	25.0
Bromofluorobenzene	0.979	0.973	30.00	29.81		AVRG	-0.6	25.0

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3LCS01.D
Report Date: 20-Jul-2006 07:34

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Data file : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3LCS01.D
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Inj Date : 19-JUL-2006 16:36 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3BLK0719LCS;;;;;; 50 ppb
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4962
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\071906V3.b\VWATER3.m
Meth Date : 20-Jul-2006 07:33 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	798339	30.0000	
1 Dichlorodifluoromethane	85	3.811	3.805	(0.285)	339679	52.8530	52.85
2 Chloromethane	50	4.061	4.060	(0.304)	283247	49.6421	49.64
4 Vinyl chloride	62	4.310	4.310	(0.323)	270345	50.8831	50.88
7 Bromomethane	94	4.864	4.864	(0.364)	155234	45.0771	45.08
8 Chloroethane	64	5.070	5.064	(0.379)	155376	52.8114	52.81
11 Trichlorofluoromethane	101	5.959	5.965	(0.446)	498139	50.5782	50.58
25 Trichlorotrifluoroethane	101	7.333	7.340	(0.549)	245562	44.6163	44.62
10 Acrolein	56	5.898	5.892	(0.441)	48294	442.806	442.8
21 1,1-Dichloroethene	96	6.908	6.902	(0.517)	240608	53.5783	53.58
14 Acetone	43	6.111	6.117	(0.457)	244460	109.031	109.0
22 Iodomethane	142	6.932	6.932	(0.519)	411256	54.0500	54.05
28 Carbon disulfide	76	7.589	7.589	(0.568)	751163	46.0834	46.08
24 Methylene chloride	84	7.181	7.187	(0.537)	285773	55.6434	55.64
23 Acrylonitrile	53	6.950	6.962	(0.520)	472638	270.687	270.7
31 trans-1,2-Dichloroethene	96	8.654	8.660	(0.648)	269072	51.1211	51.12

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Report Date: 20-Jul-2006 07:34

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	32	MTBE	73	9.025	9.055	(0.675)	735865	49.1169	49.12
	33	1,1-Dichloroethane	63	9.292	9.292	(0.695)	482499	52.2599	52.26
	36	Vinyl acetate	43	9.712	9.736	(0.727)	1063280	98.4094	98.41
	44	cis-1,2-Dichloroethene	96	10.825	10.832	(0.810)	292690	53.7584	53.76
M	29	1,2-Dichloroethene(total)	96				561762	104.924	104.9
	42	2-Butanone	43	10.491	10.515	(0.785)	260383	105.113	105.1
	46	Bromochloromethane	128	11.117	11.130	(0.832)	164565	54.3446	54.34
	51	Tetrahydrofuran	42	11.841	11.860	(0.886)	71736	52.6305	52.63
	47	Chloroform	83	11.233	11.239	(0.841)	518535	49.1519	49.15
	26	Methyl acetate	43	7.260	7.273	(0.543)	195139	49.8403	49.84
$	49	Dibromofluoromethane	111	11.440	11.446	(0.856)	212711	30.1705	30.17
	54	1,1,1-Trichloroethane	97	12.505	12.498	(0.936)	503815	51.0209	51.02
	56	Cyclohexane	56	12.930	12.930	(0.968)	419847	48.7771	48.78
	57	Carbon tetrachloride	117	13.022	13.028	(0.975)	480811	51.8325	51.83
$	52	1,2-Dichloroethane-d4	102	12.206	12.212	(0.914)	46933	30.6625	30.66(Q)
	58	Benzene	78	13.046	13.052	(0.976)	1099025	52.7403	52.74
	53	1,2-Dichloroethane	62	12.328	12.328	(0.923)	429136	51.7987	51.80
	48	2,2-Dichloropropane	77	11.385	11.379	(0.852)	423565	53.6659	53.66
	55	1,1-Dichloropropene	75	12.797	12.790	(0.958)	404546	53.8990	53.90
	63	Trichloroethene	95	13.916	13.916	(1.041)	328593	51.9373	51.94
	62	1,2-Dichloropropane	63	13.837	13.837	(1.036)	296443	53.7551	53.76
	61	Dibromomethane	93	13.788	13.788	(1.032)	197915	52.6863	52.69
	66	Methyl methacrylate	41	14.184	14.190	(1.061)	259425	56.0682	56.07
	64	Bromodichloromethane	83	13.946	13.952	(1.044)	450600	55.5153	55.52
	67	2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	390613	122.422	122.4
	71	cis-1,3-Dichloropropene	75	14.701	14.707	(1.100)	529129	57.0035	57.00
	72	4-Methyl-2-pentanone	43	14.828	14.835	(1.110)	565895	107.036	107.0
$	76	Toluene-d8	98	15.400	15.406	(0.924)	872075	29.8679	29.87
	78	Toluene	92	15.467	15.473	(0.928)	800800	49.5178	49.52
	73	trans-1,3-Dichloropropene	75	15.145	15.151	(0.908)	481950	53.9282	53.93
	80	Ethyl methacrylate	69	15.577	15.583	(0.934)	397078	57.5683	57.57(Q)
	75	1,1,2-Trichloroethane	83	15.291	15.303	(0.917)	243453	54.3498	54.35
	84	Tetrachloroethene	166	16.149	16.155	(0.969)	398116	50.9164	50.92
	81	2-Hexanone	43	15.680	15.692	(0.941)	448404	110.626	110.6(Q)
	82	Dibromochloromethane	129	15.759	15.765	(0.945)	404886	58.4429	58.44
	83	1,2-Dibromoethane	107	15.972	15.978	(0.958)	341957	54.5908	54.59
	69	Methyl cyclohexane	83	14.524	14.530	(1.087)	431857	50.3562	50.36
*	86	Chlorobenzene-d5	82	16.672	16.672	(1.000)	420305	30.0000	(Q)
	87	Chlorobenzene	112	16.696	16.702	(1.001)	1055677	53.7321	53.73(Q)
	85	1,1,1,2-Tetrachloroethane	131	16.641	16.647	(0.998)	387237	53.9597	53.96(Q)
	88	Ethylbenzene	91	16.848	16.860	(1.011)	1659026	54.3988	54.40
	89	m,p-Xylene	91	16.994	17.000	(1.019)	2596547	110.379	110.4
M	100	Xylene(total)	91				3992705	160.039	160.0
	93	o-Xylene	91	17.292	17.304	(1.037)	1396158	55.9621	55.96
	91	Styrene	104	17.238	17.244	(1.034)	1114969	60.3866	60.39
	90	Bromoform	173	17.085	17.092	(1.025)	276021	57.4576	57.46
	96	Isopropylbenzene	105	17.560	17.572	(1.053)	1591854	51.7253	51.72

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3LCS01.D
Report Date: 20-Jul-2006 07:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$	97 Bromofluorobenzene	95	17.584	17.590	(1.055)	409020	29.8129	29.81
	92 1,1,2,2-Tetrachloroethane	83	17.298	17.304	(0.935)	403460	52.4280	52.43
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	509261	54.1100	54.11
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	138792	51.6789	51.68
	101 n-Propylbenzene	91	17.864	17.870	(0.965)	2006162	57.3427	57.34
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	1443845	58.1512	58.15
	104 1,2,4-Trimethylbenzene	105	18.320	18.320	(0.990)	1412785	60.9428	60.94
	107 sec-Butylbenzene	105	18.406	18.412	(0.995)	1769819	58.9436	58.94
	105 tert-Butylbenzene	119	18.254	18.260	(0.987)	1307292	56.8778	56.88
	108 1,3-Dichlorobenzene	146	18.479	18.485	(0.999)	935759	51.1189	51.12
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.509	(1.000)	474197	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.527	(1.001)	956995	50.9827	50.98
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	1099418	59.3667	59.37
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	903132	53.6463	53.65
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	106653	52.5288	52.53(Q)
	98 Bromobenzene	156	17.749	17.755	(0.959)	492198	51.7882	51.79
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	1276953	54.9877	54.99
	103 4-Chlorotoluene	91	17.992	17.998	(0.972)	1371947	55.4885	55.49
	116 1,2,4-Trichlorobenzene	180	20.146	20.139	(1.089)	490885	53.6583	53.66
	117 Naphthalene	128	20.352	20.358	(1.100)	1037126	55.4066	55.41
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	1434034	57.8462	57.85
	118 Hexachlorobutadiene	225	20.383	20.377	(1.102)	189480	49.2005	49.20
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	445284	52.8530	52.85

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3LCS01.D
Date : 19-JUL-2006 16:36
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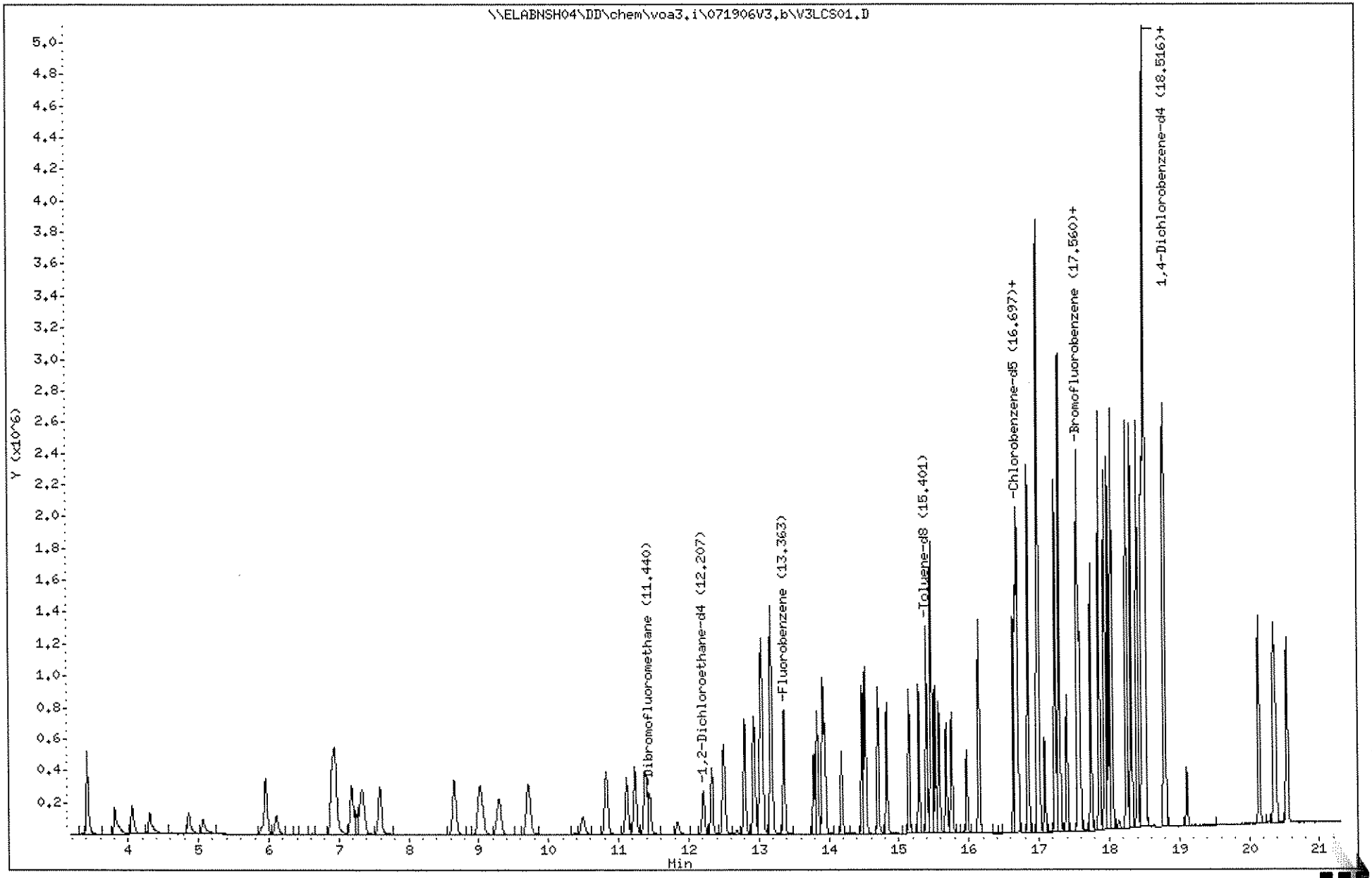
Instrument: voa3.i
Sample Info: V3BLK0719LCS;;;;;; 50 ppb
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000181



Empirical Laboratories

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/26/06 Time: 1316

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.407	0.434	100.0	120.1		LINR	20.1	
Acrolein	0.126	0.146	250.0	290.6		AVRG	16.2	
Acrylonitrile	0.191	0.209	250.0	273.0		AVRG	9.2	
Benzene	1.919	2.050	50.00	53.42		AVRG	6.8	
Bromobenzene	1.310	1.388	50.00	53.00		AVRG	6.0	
Bromochloromethane	0.238	0.265	50.00	55.56		AVRG	11.1	
Bromodichloromethane	0.677	0.760	50.00	56.09		AVRG	12.2	
Bromoform	0.846	0.928	50.00	54.85	0.100	AVRG	9.7	
Bromomethane	0.368	0.319	50.00	43.28		AVRG	-13.4	
2-Butanone	0.473	0.512	100.0	108.2		AVRG	8.2	
n-Butylbenzene	5.238	5.568	50.00	53.15		AVRG	6.3	
sec-Butylbenzene	6.597	7.010	50.00	53.13		AVRG	6.2	
tert-Butylbenzene	4.069	4.372	50.00	53.72		AVRG	7.4	
Carbon disulfide	1.804	1.963	50.00	54.38		AVRG	8.8	
Carbon tetrachloride	0.502	0.633	50.00	56.62		LINR	13.2	
Chlorobenzene	2.298	2.394	50.00	52.08	0.300	AVRG	4.2	
Chloroethane	0.412	0.429	50.00	52.07		AVRG	4.1	
2-Chloroethyl vinyl ether		0.156	100.0	0.0000		AVRG		<
Chloroform	0.935	1.004	50.00	53.67		AVRG	7.3	20.0
Chloromethane	0.780	0.740	50.00	47.46	0.100	AVRG	-5.1	
2-Chlorotoluene	4.840	4.436	50.00	45.83		AVRG	-8.3	
4-Chlorotoluene	5.414	5.636	50.00	52.05		AVRG	4.1	
Cyclohexane	1.056	1.133	50.00	53.63		AVRG	7.3	
Dibromochloromethane	0.876	0.952	50.00	54.29		AVRG	8.6	
1,2-Dibromo-3-chloropropane	0.315	0.336	50.00	53.37		AVRG	6.7	
1,2-Dibromoethane	0.901	0.968	50.00	53.71		AVRG	7.4	
Dibromomethane	0.324	0.363	50.00	55.98		AVRG	12.0	
1,2-Dichlorobenzene	2.271	2.350	50.00	51.73		AVRG	3.4	
1,3-Dichlorobenzene	2.544	2.370	50.00	46.58		AVRG	-6.8	
1,4-Dichlorobenzene	2.634	2.726	50.00	51.76		AVRG	3.5	
Dichlorodifluoromethane	0.623	0.624	50.00	50.01		AVRG	0.0	
1,1-Dichloroethane	1.046	1.117	50.00	53.41	0.100	AVRG	6.8	
1,2-Dichloroethane	0.832	0.915	50.00	54.99		AVRG	10.0	
1,1-Dichloroethene	0.427	0.454	50.00	53.13		AVRG	6.2	20.0
cis-1,2-Dichloroethene	0.528	0.571	50.00	54.06		AVRG	8.1	
trans-1,2-Dichloroethene	0.493	0.541	50.00	54.86		AVRG	9.7	
1,2-Dichloroethene(total)	0.511	0.556	100.0	108.9		AVRG	8.9	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/26/06 Time: 1316

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.580	0.618	50.00	53.30		AVRG	6.6	20.0
1,3-Dichloropropane	1.751	1.759	50.00	50.21		AVRG	0.4	
2,2-Dichloropropane	0.824	0.921	50.00	55.88		AVRG	11.8	
1,1-Dichloropropene	0.756	0.834	50.00	55.21		AVRG	10.4	
cis-1,3-Dichloropropene	0.892	0.963	50.00	53.98		AVRG	8.0	
trans-1,3-Dichloropropene	1.643	1.746	50.00	53.14		AVRG	6.3	
Ethylbenzene	4.315	4.516	50.00	52.32		AVRG	4.6	20.0
Ethyl methacrylate	1.522	1.541	50.00	50.64		AVRG	1.3	
Hexachlorobutadiene	0.800	0.842	50.00	52.62		AVRG	5.2	
2-Hexanone	1.215	1.357	100.0	111.7		AVRG	11.7	
Iodomethane	0.515	0.521	50.00	50.52		AVRG	1.0	
Isopropylbenzene	3.990	4.159	50.00	52.12		AVRG	4.2	
p-Isopropyltoluene	4.948	5.203	50.00	52.57		AVRG	5.1	
Methyl acetate	0.525	0.566	50.00	61.41		LINR	22.8	
Methyl cyclohexane	0.886	0.958	50.00	54.09		AVRG	8.2	
Methylene chloride	0.895	0.666	50.00	61.14		LINR	22.3	
Methyl methacrylate	0.660	0.722	50.00	54.63		AVRG	9.3	
4-Methyl-2-pentanone	0.767	0.824	100.0	107.4		AVRG	7.4	
MTBE	1.545	1.654	50.00	53.53		AVRG	7.0	
Naphthalene	4.359	4.334	50.00	49.72		AVRG	-0.6	
n-Propylbenzene	7.578	8.262	50.00	54.51		AVRG	9.0	
Styrene	2.687	2.799	50.00	52.09		AVRG	4.2	
1,1,1,2-Tetrachloroethane	0.814	0.856	50.00	52.57		AVRG	5.1	
1,1,2,2-Tetrachloroethane	1.819	1.899	50.00	52.21	0.300	AVRG	4.4	
Tetrachloroethene	0.873	0.923	50.00	52.83		AVRG	5.7	
Tetrahydrofuran	0.229	0.239	50.00	52.29		AVRG	4.6	
Toluene	2.352	2.369	50.00	50.37		AVRG	0.7	20.0
1,2,3-Trichlorobenzene	1.448	1.525	50.00	52.66		AVRG	5.3	
1,2,4-Trichlorobenzene	1.543	1.700	50.00	55.09		AVRG	10.2	
1,1,1-Trichloroethane	0.734	0.828	50.00	56.40		AVRG	12.8	
1,1,2-Trichloroethane	0.769	0.765	50.00	49.73		AVRG	-0.5	
Trichloroethene	0.503	0.553	50.00	54.94		AVRG	9.9	
Trichlorofluoromethane	0.733	0.800	50.00	54.59		AVRG	9.2	
Trichlorotrifluoroethane	0.473	0.511	50.00	54.03		AVRG	8.0	
1,2,3-Trichloropropane	0.364	0.377	50.00	51.83		AVRG	3.7	
1,2,4-Trimethylbenzene	4.682	5.010	50.00	53.51		AVRG	7.0	
1,3,5-Trimethylbenzene	4.648	4.925	50.00	52.98		AVRG	6.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/26/06 Time: 1316

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	1.523	1.656	100.0	108.8		AVRG	8.8	
Vinyl chloride	0.646	0.698	50.00	54.04		AVRG	8.1	20.0
Xylene(total)	3.373	3.446	150.0	150.5		AVRG	2.2	
Dibromofluoromethane	0.274	0.279	30.00	30.58		AVRG	1.9	
1,2-Dichloroethane-d4	0.074	0.079	30.00	32.06		AVRG	6.9	
Toluene-d8	1.828	1.767	30.00	29.00		AVRG	-3.3	
Bromofluorobenzene	0.793	0.802	30.00	30.34		AVRG	1.1	

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1CCV01.D
Report Date: 27-Jul-2006 06:10

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Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1CCV01.D
Lab Smp Id: V1STD50ppb Client Smp ID: V1STD50ppb
Inj Date : 26-JUL-2006 13:16 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD50ppb;;;;;
Misc Info : ;2;;;;gm-all.sub;#4928,4963
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:10 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MJ 7/27/06
7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.847	14.847	(1.000)	602923	30.0000	
1 Dichlorodifluoromethane	85	6.019	6.019	(0.405)	626568	50.0000	50.01(M)
4 Chloromethane	50	6.446	6.446	(0.434)	744059	50.0000	47.46
5 Vinyl chloride	62	6.770	6.770	(0.456)	701880	50.0000	54.04
6 Bromomethane	94	7.551	7.551	(0.509)	320156	50.0000	43.28(M)
7 Chloroethane	64	7.816	7.816	(0.526)	430952	50.0000	52.07(M)
9 Trichlorofluoromethane	101	8.847	8.847	(0.596)	804284	50.0000	54.59
21 Trichlorotrifluoroethane	101	10.099	10.099	(0.680)	513515	50.0000	54.03
8 Acrolein	56	8.774	8.774	(0.591)	735000	250.000	290.6
12 Acetone	43	8.995	8.995	(0.606)	873098	100.000	120.1
15 1,1-Dichloroethene	96	9.775	9.775	(0.658)	455726	50.0000	53.13
16 Iodomethane	142	9.849	9.849	(0.663)	523185	50.0000	50.52
17 Acrylonitrile	53	9.805	9.805	(0.660)	1049053	250.000	273.0
20 Methylene chloride	84	10.011	10.011	(0.674)	669231	50.0000	61.14
25 Carbon disulfide	76	10.452	10.452	(0.704)	1972166	50.0000	54.38

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1CCV01.D
Report Date: 27-Jul-2006 06:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.113	11.113	(0.749)	543968	50.0000	54.86
	29 MTBE	73	11.305	11.305	(0.761)	1661913	50.0000	53.53
	30 1,1-Dichloroethane	63	11.525	11.525	(0.776)	1122694	50.0000	53.41
	32 Vinyl acetate	43	11.643	11.643	(0.784)	3328699	100.000	108.8
	35 2-Butanone	43	12.142	12.142	(0.818)	1029292	100.000	108.2
	38 cis-1,2-Dichloroethene	96	12.451	12.451	(0.839)	574117	50.0000	54.06
M	18 1,2-Dichloroethene(total)	96				1118085	100.000	108.9
	41 Bromochloromethane	128	12.686	12.686	(0.854)	266390	50.0000	55.56
	42 Chloroform	83	12.760	12.760	(0.859)	1008658	50.0000	53.67
	43 2,2-Dichloropropane	77	12.892	12.892	(0.868)	925159	50.0000	55.88
$	44 Dibromofluoromethane	111	12.936	12.936	(0.871)	168270	30.0000	30.58
	22 Methyl acetate	43	10.026	10.026	(0.675)	569194	50.0000	61.41
	47 Tetrahydrofuran	42	13.289	13.289	(0.895)	240316	50.0000	52.29
	52 Cyclohexane	56	14.436	14.436	(0.972)	1138448	50.0000	53.63
$	48 1,2-Dichloroethane-d4	102	13.641	13.641	(0.919)	47515	30.0000	32.06
	49 1,2-Dichloroethane	62	13.759	13.759	(0.927)	919124	50.0000	54.99
	50 1,1,1-Trichloroethane	97	13.950	13.950	(0.940)	831965	50.0000	56.40
	51 1,1-Dichloropropene	75	14.230	14.230	(0.958)	838615	50.0000	55.21
	53 Carbon tetrachloride	117	14.524	14.524	(0.978)	635872	50.0000	56.62
	54 Benzene	78	14.538	14.538	(0.979)	2060276	50.0000	53.42
	58 Dibromomethane	93	15.420	15.420	(1.039)	364884	50.0000	55.98
	59 1,2-Dichloropropane	63	15.450	15.450	(1.041)	620820	50.0000	53.30
	60 Trichloroethene	95	15.523	15.523	(1.046)	555646	50.0000	54.94
	61 Bromodichloromethane	83	15.597	15.597	(1.050)	763866	50.0000	56.09
	62 Methyl methacrylate	41	15.715	15.715	(1.058)	725193	50.0000	54.63
	68 cis-1,3-Dichloropropene	75	16.538	16.538	(1.114)	968146	50.0000	53.98
	70 4-Methyl-2-pentanone	43	16.641	16.641	(1.121)	1656791	100.000	107.4
	71 trans-1,3-Dichloropropene	75	17.141	17.141	(0.869)	912192	50.0000	53.14
	72 1,1,2-Trichloroethane	83	17.420	17.420	(0.883)	399469	50.0000	49.73
$	73 Toluene-d8	98	17.582	17.582	(0.891)	553652	30.0000	29.00
	74 Toluene	92	17.685	17.685	(0.896)	1237561	50.0000	50.37
	76 1,3-Dichloropropane	76	17.759	17.759	(0.900)	918578	50.0000	50.21
	75 Ethyl methacrylate	69	17.685	17.685	(0.896)	804865	50.0000	50.64
	77 2-Hexanone	43	17.906	17.906	(0.908)	1417963	100.000	111.7
	78 Dibromochloromethane	129	18.200	18.200	(0.922)	497022	50.0000	54.29
	79 1,2-Dibromoethane	107	18.568	18.568	(0.941)	505749	50.0000	53.71
	65 Methyl cyclohexane	83	16.361	16.361	(1.102)	963187	50.0000	54.09
	80 Tetrachloroethene	166	18.818	18.818	(0.954)	482055	50.0000	52.83
	81 1,1,1,2-Tetrachloroethane	131	19.686	19.686	(0.998)	447186	50.0000	52.57
*	82 Chlorobenzene-d5	82	19.730	19.730	(1.000)	313384	30.0000	
	83 Chlorobenzene	112	19.789	19.789	(1.003)	1250457	50.0000	52.08
	87 Bromoform	173	20.570	20.570	(0.877)	317554	50.0000	54.85
	84 Ethylbenzene	91	20.025	20.025	(1.015)	2358627	50.0000	52.32
	85 m,p-Xylene	91	20.275	20.275	(1.028)	3502292	100.000	102.9
M	91 Xylene(total)	91				5302281	50.0000	150.5
	89 o-Xylene	91	20.879	20.879	(1.058)	1799989	50.0000	51.08
	88 Styrene	104	20.761	20.761	(1.052)	1462042	50.0000	52.09

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1CCV01.D
Report Date: 27-Jul-2006 06:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.894	20.894	(0.891)	649969	50.0000	52.21
	92 1,2,3-Trichloropropane	110	21.100	21.100	(1.069)	197012	50.0000	51.83
	94 Isopropylbenzene	105	21.395	21.395	(1.084)	2172274	50.0000	52.12
$	95 Bromofluorobenzene	95	21.483	21.483	(1.089)	251481	30.0000	30.34
	96 Bromobenzene	156	21.837	21.837	(0.931)	475186	50.0000	53.00
	97 n-Propylbenzene	91	22.029	22.029	(0.940)	2827341	50.0000	54.51
	98 2-Chlorotoluene	91	22.235	22.235	(0.948)	1518080	50.0000	45.83
	99 4-Chlorotoluene	91	22.339	22.339	(0.953)	1928737	50.0000	52.05
	100 1,3,5-Trimethylbenzene	105	22.398	22.398	(0.955)	1685522	50.0000	52.98
	102 tert-Butylbenzene	119	22.884	22.884	(0.976)	1496316	50.0000	53.72
	103 1,2,4-Trimethylbenzene	105	23.003	23.003	(0.981)	1714390	50.0000	53.51
	104 sec-Butylbenzene	105	23.209	23.209	(0.990)	2398858	50.0000	53.13
	105 1,3-Dichlorobenzene	146	23.401	23.401	(0.998)	811154	50.0000	46.58
*	106 1,4-Dichlorobenzene-d4	152	23.445	23.445	(1.000)	205325	30.0000	
	108 1,4-Dichlorobenzene	146	23.490	23.490	(1.002)	933003	50.0000	51.76(M)
	107 p-Isopropyltoluene	119	23.431	23.431	(0.999)	1780442	50.0000	52.57
	109 1,2-Dichlorobenzene	146	24.065	24.065	(1.026)	804204	50.0000	51.73
	110 n-Butylbenzene	91	24.065	24.065	(1.026)	1905322	50.0000	53.15
	111 1,2-Dibromo-3-chloropropane	157	24.788	24.788	(1.057)	115003	50.0000	53.37
	112 1,2,4-Trichlorobenzene	180	27.016	27.016	(1.152)	581928	50.0000	55.09
	113 Naphthalene	128	27.459	27.459	(1.171)	1483156	50.0000	49.72
	114 Hexachlorobutadiene	225	27.504	27.504	(1.173)	288255	50.0000	52.62
	115 1,2,3-Trichlorobenzene	180	27.873	27.873	(1.189)	522024	50.0000	52.66

QC Flag Legend

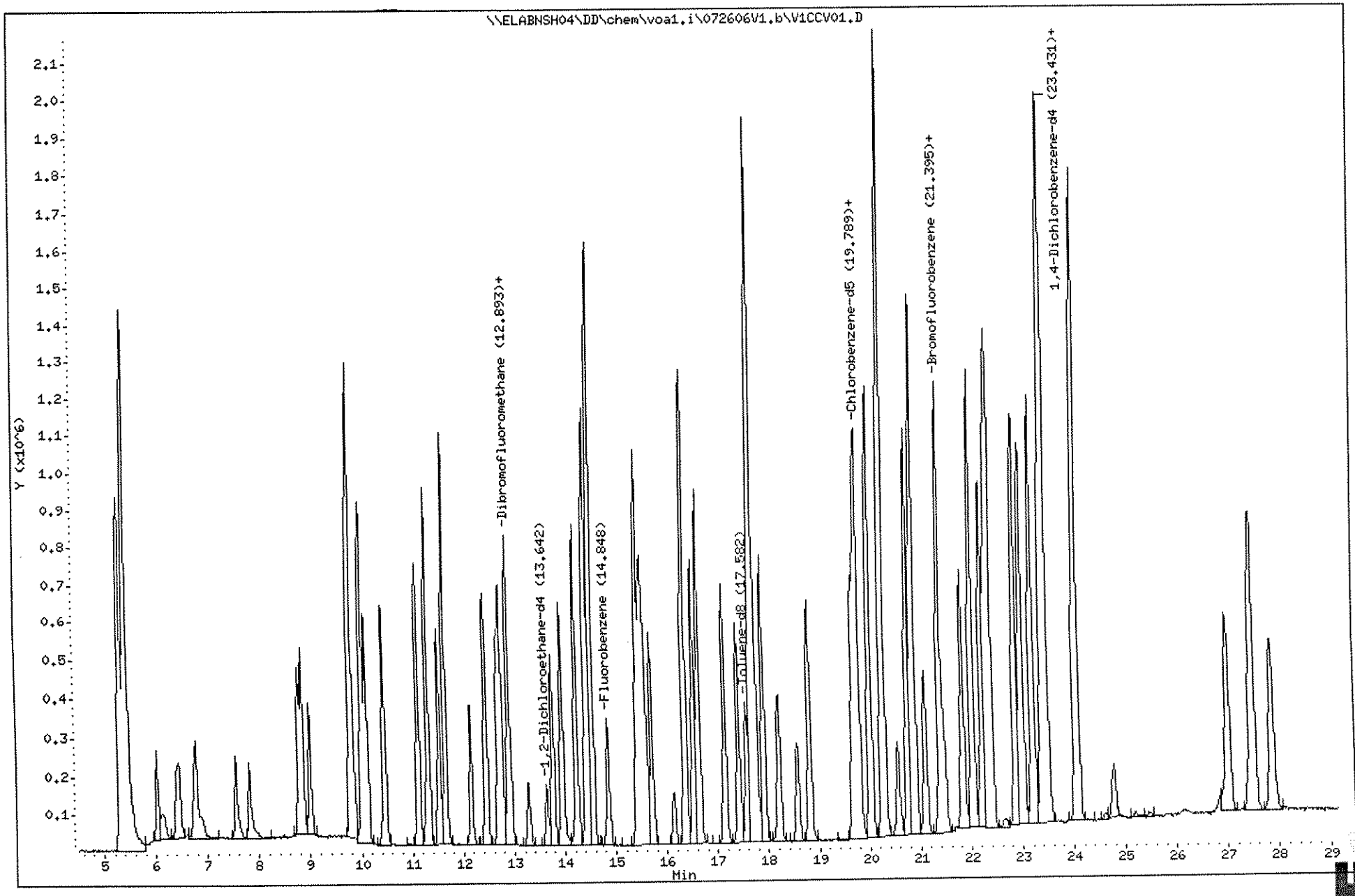
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1CCV01.D
Date : 26-JUL-2006 13:16
Client ID: V1STD50ppb
Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



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Empirical Laboratories

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/27/06 Time: 0616

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.407	0.496	100.0	137.4		LINR	37.4	
Acrolein	0.126	0.123	250.0	245.0		AVRG	-2.0	
Acrylonitrile	0.191	0.169	250.0	221.2		AVRG	-11.5	
Benzene	1.919	1.742	50.00	45.40		AVRG	-9.2	
Bromobenzene	1.310	1.120	50.00	42.74		AVRG	-14.5	
Bromochloromethane	0.238	0.218	50.00	45.69		AVRG	-8.6	
Bromodichloromethane	0.677	0.639	50.00	47.17		AVRG	-5.7	
Bromoform	0.846	0.766	50.00	45.30	0.100	AVRG	-9.4	
Bromomethane	0.368	0.335	50.00	45.52		AVRG	-9.0	
2-Butanone	0.473	0.549	100.0	116.0		AVRG	16.0	
n-Butylbenzene	5.238	4.551	50.00	43.44		AVRG	-13.1	
sec-Butylbenzene	6.597	5.789	50.00	43.88		AVRG	-12.2	
tert-Butylbenzene	4.069	3.478	50.00	42.74		AVRG	-14.5	
Carbon disulfide	1.804	1.638	50.00	45.38		AVRG	-9.2	
Carbon tetrachloride	0.502	0.524	50.00	46.88		LINR	-6.2	
Chlorobenzene	2.298	1.987	50.00	43.21	0.300	AVRG	-13.6	
Chloroethane	0.412	0.380	50.00	46.10		AVRG	-7.8	NTCL
2-Chloroethyl vinyl ether		0.136	100.0	0.0000		AVRG		<
Chloroform	0.935	0.847	50.00	45.32		AVRG	-9.4	20.0
Chloromethane	0.780	0.624	50.00	40.00	0.100	AVRG	-20.0	
2-Chlorotoluene	4.840	4.284	50.00	44.25		AVRG	-11.5	
4-Chlorotoluene	5.414	4.793	50.00	44.26		AVRG	-11.5	
Cyclohexane	1.056	0.954	50.00	45.14		AVRG	-9.7	
Dibromochloromethane	0.876	0.775	50.00	44.20		AVRG	-11.6	
1,2-Dibromo-3-chloropropane	0.315	0.281	50.00	44.58		AVRG	-10.8	
1,2-Dibromoethane	0.901	0.778	50.00	43.16		AVRG	-13.7	
Dibromomethane	0.324	0.303	50.00	46.78		AVRG	-6.4	
1,2-Dichlorobenzene	2.271	1.934	50.00	42.57		AVRG	-14.8	
1,3-Dichlorobenzene	2.544	2.102	50.00	41.31		AVRG	-17.4	
1,4-Dichlorobenzene	2.634	2.418	50.00	45.90		AVRG	-8.2	
Dichlorodifluoromethane	0.623	0.551	50.00	44.23		AVRG	-11.5	
1,1-Dichloroethane	1.046	0.946	50.00	45.25	0.100	AVRG	-9.5	
1,2-Dichloroethane	0.832	0.775	50.00	46.62		AVRG	-6.8	
1,1-Dichloroethene	0.427	0.384	50.00	44.99		AVRG	-10.0	20.0
cis-1,2-Dichloroethene	0.528	0.470	50.00	44.50		AVRG	-11.0	
trans-1,2-Dichloroethene	0.493	0.443	50.00	44.87		AVRG	-10.2	
1,2-Dichloroethene(total)	0.511	0.456	100.0	89.36		AVRG	-10.6	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/27/06 Time: 0616

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.580	0.533	50.00	45.98		AVRG	-8.0	20.0
1,3-Dichloropropane	1.751	1.435	50.00	40.96		AVRG	-18.1	
2,2-Dichloropropane	0.824	0.776	50.00	47.12		AVRG	-5.8	
1,1-Dichloropropene	0.756	0.695	50.00	45.97		AVRG	-8.0	
cis-1,3-Dichloropropene	0.892	0.821	50.00	46.02		AVRG	-8.0	
trans-1,3-Dichloropropene	1.643	1.438	50.00	43.75		AVRG	-12.5	
Ethylbenzene	4.315	3.742	50.00	43.35		AVRG	-13.3	20.0
Ethyl methacrylate	1.522	1.279	50.00	42.03		AVRG	-15.9	
Hexachlorobutadiene	0.800	0.655	50.00	40.90		AVRG	-18.2	
2-Hexanone	1.215	1.364	100.0	112.3		AVRG	12.3	
Iodomethane	0.515	0.538	50.00	52.19		AVRG	4.4	
Isopropylbenzene	3.990	3.481	50.00	43.63		AVRG	-12.7	
p-Isopropyltoluene	4.948	4.254	50.00	42.98		AVRG	-14.0	
Methyl acetate	0.525	0.435	50.00	47.12		LINR	-5.8	
Methyl cyclohexane	0.886	0.799	50.00	45.09		AVRG	-9.8	
Methylene chloride	0.895	0.509	50.00	44.96		LINR	-10.1	
Methyl methacrylate	0.660	0.626	50.00	47.42		AVRG	-5.2	
4-Methyl-2-pentanone	0.767	0.729	100.0	94.98		AVRG	-5.0	
MTBE	1.545	1.392	50.00	45.06		AVRG	-9.9	
Naphthalene	4.359	3.386	50.00	38.84		AVRG	-22.3	
n-Propylbenzene	7.578	6.698	50.00	44.19		AVRG	-11.6	
Styrene	2.687	2.354	50.00	43.81		AVRG	-12.4	
1,1,1,2-Tetrachloroethane	0.814	0.709	50.00	43.51		AVRG	-13.0	
1,1,2,2-Tetrachloroethane	1.819	1.578	50.00	43.38	0.300	AVRG	-13.2	
Tetrachloroethene	0.873	0.746	50.00	42.70		AVRG	-14.6	
Tetrahydrofuran	0.229	0.208	50.00	45.51		AVRG	-9.0	
Toluene	2.352	1.947	50.00	41.38		AVRG	-17.2	20.0
1,2,3-Trichlorobenzene	1.448	1.225	50.00	42.29		AVRG	-15.4	
1,2,4-Trichlorobenzene	1.543	1.327	50.00	42.98		AVRG	-14.0	
1,1,1-Trichloroethane	0.734	0.696	50.00	47.44		AVRG	-5.1	
1,1,2-Trichloroethane	0.769	0.647	50.00	42.05		AVRG	-15.9	
Trichloroethene	0.503	0.444	50.00	44.10		AVRG	-11.8	
Trichlorofluoromethane	0.733	0.685	50.00	46.74		AVRG	-6.5	
Trichlorotrifluoroethane	0.473	0.438	50.00	46.36		AVRG	-7.3	
1,2,3-Trichloropropane	0.364	0.321	50.00	44.15		AVRG	-11.7	
1,2,4-Trimethylbenzene	4.682	4.173	50.00	44.56		AVRG	-10.9	
1,3,5-Trimethylbenzene	4.648	4.092	50.00	44.02		AVRG	-12.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA1 Calibration Date: 07/27/06 Time: 0616

Lab File ID: V1CCV01 Init. Calib. Date(s): 07/18/06 07/18/06

Heated Purge: (Y/N) Y Init. Calib. Times: 0959 1419

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	1.523	1.412	100.0	92.70		AVRG	-7.3	
Vinyl chloride	0.646	0.603	50.00	46.64		AVRG	-6.7	20.0
Xylene(total)	3.373	2.893	150.0	125.8		AVRG	-14.2	
Dibromofluoromethane	0.274	0.298	30.00	32.68		AVRG	9.0	
1,2-Dichloroethane-d4	0.074	0.085	30.00	34.53		AVRG	15.1	
Toluene-d8	1.828	1.698	30.00	27.86		AVRG	-7.1	
Bromofluorobenzene	0.793	0.868	30.00	32.81		AVRG	9.4	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Report Date: 27-Jul-2006 11:29

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Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Lab Smp Id: V1STD50ppb Client Smp ID: V1STD50ppb
Inj Date : 27-JUL-2006 06:16 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1STD50ppb;;;;;
Misc Info : ;2;;;;gm-all.sub;#4928,4963
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

M 7/27/06

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 56 Fluorobenzene	96	14.839	14.839	(1.000)	632001	30.0000	
1 Dichlorodifluoromethane	85	6.019	6.019	(0.406)	580808	50.0000	44.23(M)
4 Chloromethane	50	6.416	6.416	(0.432)	657453	50.0000	40.00
5 Vinyl chloride	62	6.769	6.769	(0.456)	635025	50.0000	46.64
6 Bromomethane	94	7.549	7.549	(0.509)	352971	50.0000	45.52
7 Chloroethane	64	7.814	7.814	(0.527)	399905	50.0000	46.10
9 Trichlorofluoromethane	101	8.844	8.844	(0.596)	721836	50.0000	46.74
21 Trichlorotrifluoroethane	101	10.095	10.095	(0.680)	461905	50.0000	46.36
8 Acrolein	56	8.771	8.771	(0.591)	649640	250.000	245.0
12 Acetone	43	8.977	8.977	(0.605)	1044201	100.000	137.4
15 1,1-Dichloroethene	96	9.771	9.771	(0.659)	404551	50.0000	44.99
16 Iodomethane	142	9.845	9.845	(0.663)	566627	50.0000	52.19
17 Acrylonitrile	53	9.786	9.786	(0.660)	891071	250.000	221.2
20 Methylene chloride	84	10.007	10.007	(0.674)	536596	50.0000	44.96
25 Carbon disulfide	76	10.434	10.434	(0.703)	1725070	50.0000	45.38

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Report Date: 27-Jul-2006 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.109	11.109	(0.749)	466462	50.0000	44.87
	29 MTBE	73	11.285	11.285	(0.761)	1466503	50.0000	45.06
	30 1,1-Dichloroethane	63	11.520	11.520	(0.776)	996988	50.0000	45.25
	32 Vinyl acetate	43	11.638	11.638	(0.784)	2973776	100.000	92.70
	35 2-Butanone	43	12.137	12.137	(0.818)	1156580	100.000	116.0
	38 cis-1,2-Dichloroethene	96	12.445	12.445	(0.839)	495420	50.0000	44.50
M	18 1,2-Dichloroethene(total)	96				961882	100.000	89.36
	41 Bromochloromethane	128	12.680	12.680	(0.854)	229649	50.0000	45.69
	42 Chloroform	83	12.753	12.753	(0.859)	892699	50.0000	45.32
	43 2,2-Dichloropropane	77	12.886	12.886	(0.868)	817803	50.0000	47.12
$	44 Dibromofluoromethane	111	12.930	12.930	(0.871)	188504	30.0000	32.68
	22 Methyl acetate	43	10.022	10.022	(0.675)	457827	50.0000	47.12
	47 Tetrahydrofuran	42	13.267	13.267	(0.894)	219231	50.0000	45.51
	52 Cyclohexane	56	14.428	14.428	(0.972)	1004482	50.0000	45.14
$	48 1,2-Dichloroethane-d4	102	13.634	13.634	(0.919)	53648	30.0000	34.53
	49 1,2-Dichloroethane	62	13.752	13.752	(0.927)	816752	50.0000	46.62
	50 1,1,1-Trichloroethane	97	13.943	13.943	(0.940)	733515	50.0000	47.44
	51 1,1-Dichloropropene	75	14.222	14.222	(0.958)	731962	50.0000	45.97
	53 Carbon tetrachloride	117	14.516	14.516	(0.978)	551834	50.0000	46.88
	54 Benzene	78	14.530	14.530	(0.979)	1835508	50.0000	45.40
	58 Dibromomethane	93	15.411	15.411	(1.039)	319630	50.0000	46.78
	59 1,2-Dichloropropane	63	15.441	15.441	(1.041)	561347	50.0000	45.98
	60 Trichloroethene	95	15.529	15.529	(1.047)	467503	50.0000	44.10
	61 Bromodichloromethane	83	15.588	15.588	(1.050)	673344	50.0000	47.17
	62 Methyl methacrylate	41	15.691	15.691	(1.057)	659810	50.0000	47.42
	68 cis-1,3-Dichloropropene	75	16.528	16.528	(1.114)	865272	50.0000	46.02
	70 4-Methyl-2-pentanone	43	16.631	16.631	(1.121)	1535199	100.000	94.98
	71 trans-1,3-Dichloropropene	75	17.130	17.130	(0.868)	812063	50.0000	43.75
	72 1,1,2-Trichloroethane	83	17.395	17.395	(0.882)	365236	50.0000	42.05
$	73 Toluene-d8	98	17.556	17.556	(0.890)	575229	30.0000	27.86
	74 Toluene	92	17.674	17.674	(0.896)	1099283	50.0000	41.38
	76 1,3-Dichloropropane	76	17.748	17.748	(0.899)	810200	50.0000	40.96
	75 Ethyl methacrylate	69	17.674	17.674	(0.896)	722379	50.0000	42.03
	77 2-Hexanone	43	17.895	17.895	(0.907)	1540949	100.000	112.3
	78 Dibromochloromethane	129	18.189	18.189	(0.922)	437507	50.0000	44.20
	79 1,2-Dibromoethane	107	18.556	18.556	(0.940)	439461	50.0000	43.16
	65 Methyl cyclohexane	83	16.352	16.352	(1.102)	841610	50.0000	45.09
	80 Tetrachloroethene	166	18.806	18.806	(0.953)	421260	50.0000	42.70
	81 1,1,1,2-Tetrachloroethane	131	19.673	19.673	(0.997)	400177	50.0000	43.51
*	82 Chlorobenzene-d5	82	19.731	19.731	(1.000)	338831	30.0000	
	83 Chlorobenzene	112	19.776	19.776	(1.002)	1121889	50.0000	43.21
	87 Bromoform	173	20.556	20.556	(0.877)	291541	50.0000	45.30
	84 Ethylbenzene	91	20.011	20.011	(1.014)	2112981	50.0000	43.35
	85 m,p-Xylene	91	20.261	20.261	(1.027)	3160018	100.000	85.88
M	91 Xylene(total)	91				4793599	50.0000	125.8
	89 o-Xylene	91	20.865	20.865	(1.057)	1633581	50.0000	42.87(M)
	88 Styrene	104	20.762	20.762	(1.052)	1329606	50.0000	43.81

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Report Date: 27-Jul-2006 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.894	20.894	(0.892)	600362	50.0000	43.38
	92 1,2,3-Trichloropropane	110	21.086	21.086	(1.069)	181434	50.0000	44.15
	94 Isopropylbenzene	105	21.380	21.380	(1.084)	1966061	50.0000	43.63
$	95 Bromofluorobenzene	95	21.483	21.483	(1.089)	294009	30.0000	32.81
	96 Bromobenzene	156	21.837	21.837	(0.932)	426014	50.0000	42.74
	97 n-Propylbenzene	91	22.014	22.014	(0.940)	2548182	50.0000	44.19
	98 2-Chlorotoluene	91	22.220	22.220	(0.948)	1629804	50.0000	44.25
	99 4-Chlorotoluene	91	22.323	22.323	(0.953)	1823450	50.0000	44.26
	100 1,3,5-Trimethylbenzene	105	22.382	22.382	(0.955)	1556949	50.0000	44.02
	102 tert-Butylbenzene	119	22.869	22.869	(0.976)	1323321	50.0000	42.74
	103 1,2,4-Trimethylbenzene	105	23.001	23.001	(0.982)	1587500	50.0000	44.56
	104 sec-Butylbenzene	105	23.208	23.208	(0.991)	2202643	50.0000	43.88
	105 1,3-Dichlorobenzene	146	23.400	23.400	(0.999)	799873	50.0000	41.31
*	106 1,4-Dichlorobenzene-d4	152	23.429	23.429	(1.000)	228274	30.0000	
	108 1,4-Dichlorobenzene	146	23.473	23.473	(1.002)	919857	50.0000	45.90(M)
	107 p-Isopropyltoluene	119	23.429	23.429	(1.000)	1618294	50.0000	42.98
	109 1,2-Dichlorobenzene	146	24.063	24.063	(1.027)	735858	50.0000	42.57
	110 n-Butylbenzene	91	24.063	24.063	(1.027)	1731324	50.0000	43.44
	111 1,2-Dibromo-3-chloropropane	157	24.786	24.786	(1.058)	106803	50.0000	44.58
	112 1,2,4-Trichlorobenzene	180	26.997	26.997	(1.152)	504734	50.0000	42.98
	113 Naphthalene	128	27.454	27.454	(1.172)	1288297	50.0000	38.84
	114 Hexachlorobutadiene	225	27.499	27.499	(1.174)	249066	50.0000	40.90
	115 1,2,3-Trichlorobenzene	180	27.853	27.853	(1.189)	466111	50.0000	42.29

QC Flag Legend

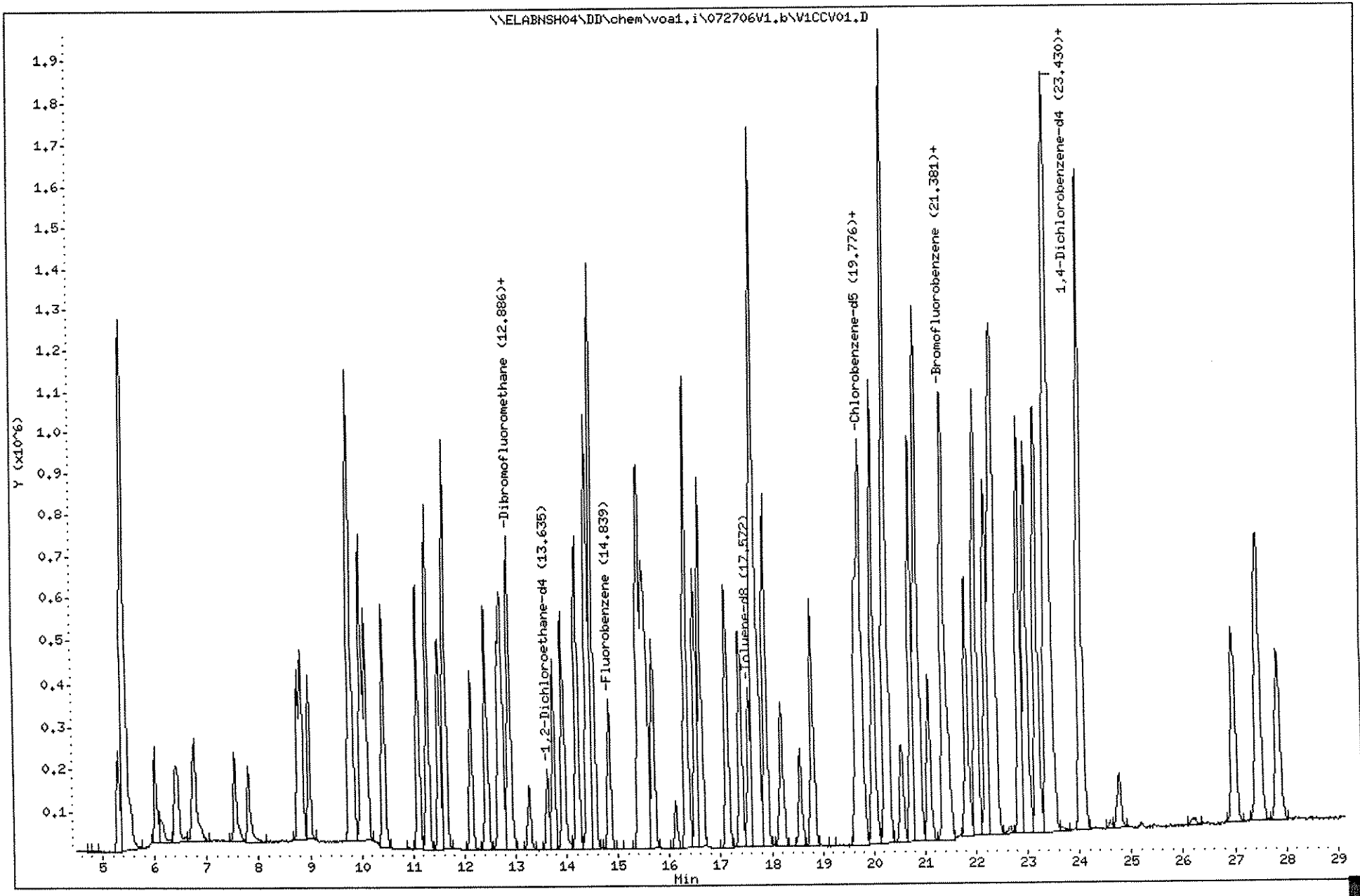
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Date : 27-JUL-2006 06:16
Client ID: V1STD50ppb
Sample Info: V1STD50ppb;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



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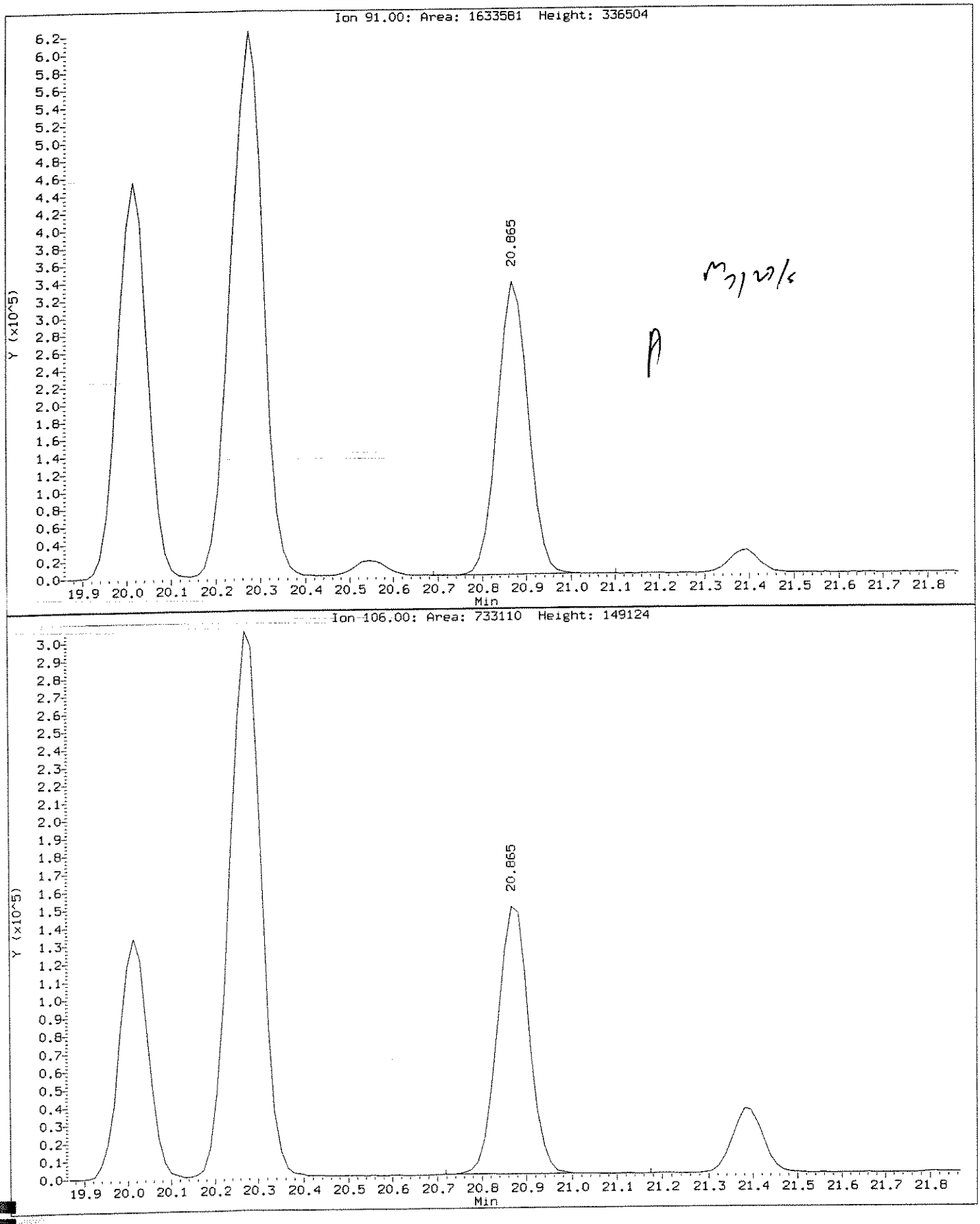
Data File: \\ELABNSHO4\DD\chem\voa1.i\072706V1.b\V1CCV01.D
Injection Date: 27-JUL-2006 06:16
Instrument: voa1.i
Client Sample ID: V1STD50ppb

Compound: o-Xylene
CAS Number: 95-47-6



FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/26/06 Time: 0849

Lab File ID: V3CCV01 Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.101	0.079	100.0	93.97		LINR	-6.0	
Acrolein	0.004	0.018	250.0	1069		LINR	327.5	NTCL
Acrylonitrile	0.066	0.062	250.0	235.4		AVRG	-5.8	
Benzene	0.783	0.792	50.00	50.60		AVRG	1.2	
Bromobenzene	0.601	0.564	50.00	46.90		AVRG	-6.2	
Bromochloromethane	0.114	0.116	50.00	50.95		AVRG	1.9	
Bromodichloromethane	0.305	0.338	50.00	55.34		AVRG	10.7	
Bromoform	0.343	0.344	50.00	50.09	0.100	AVRG	0.2	
Bromomethane	0.119	0.119	50.00	45.89		LINR	-8.2	
2-Butanone	0.103	0.084	100.0	90.79		LINR	-9.2	
n-Butylbenzene	1.172	1.250	50.00	53.35		AVRG	6.7	
sec-Butylbenzene	1.900	2.059	50.00	54.19		AVRG	8.4	
tert-Butylbenzene	1.454	1.497	50.00	51.49		AVRG	3.0	
Carbon disulfide	0.612	0.599	50.00	48.91		AVRG	-2.2	
Carbon tetrachloride	0.348	0.408	50.00	58.46		AVRG	16.9	
Chlorobenzene	1.402	1.315	50.00	46.90	0.300	AVRG	-6.2	
Chloroethane	0.110	0.121	50.00	54.56		AVRG	9.1	
2-Chloroethyl vinyl ether	0.120	0.150	100.0	125.1		AVRG	25.1	
Chloroform	0.396	0.408	50.00	51.48		AVRG	3.0	20.0
Chloromethane	0.214	0.227	50.00	52.98	0.100	AVRG	6.0	
2-Chlorotoluene	1.469	1.478	50.00	50.30		AVRG	0.6	
4-Chlorotoluene	1.564	1.602	50.00	51.20		AVRG	2.4	
Cyclohexane	0.323	0.342	50.00	52.94		AVRG	5.9	
Dibromochloromethane	0.494	0.490	50.00	49.57		AVRG	-0.9	
1,2-Dibromo-3-chloropropane	0.129	0.106	50.00	41.22		AVRG	-17.6	
1,2-Dibromoethane	0.447	0.411	50.00	45.92		AVRG	-8.2	
Dibromomethane	0.141	0.149	50.00	52.79		AVRG	5.6	
1,2-Dichlorobenzene	1.065	1.036	50.00	48.64		AVRG	-2.7	
1,3-Dichlorobenzene	1.158	1.152	50.00	49.73		AVRG	-0.5	
1,4-Dichlorobenzene	1.188	1.193	50.00	50.23		AVRG	0.5	
Dichlorodifluoromethane	0.241	0.313	50.00	64.87		AVRG	29.7	
1,1-Dichloroethane	0.347	0.353	50.00	50.88	0.100	AVRG	1.8	
1,2-Dichloroethane	0.311	0.361	50.00	57.92		AVRG	15.8	
1,1-Dichloroethene	0.169	0.164	50.00	48.54		AVRG	-2.9	20.0
cis-1,2-Dichloroethene	0.205	0.197	50.00	48.20		AVRG	-3.6	
1,2-Dichloroethene(total)	0.201	0.192	100.0	95.49		AVRG	-4.5	
trans-1,2-Dichloroethene	0.198	0.187	50.00	47.27		AVRG	-5.5	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/26/06 Time: 0849

Lab File ID: V3CCV01 Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.207	0.210	50.00	50.64		AVRG	1.3	20.0
1,3-Dichloropropane	0.672	0.605	50.00	45.04		AVRG	-9.9	
2,2-Dichloropropane	0.296	0.363	50.00	61.24		AVRG	22.5	
1,1-Dichloropropene	0.282	0.301	50.00	53.38		AVRG	6.8	
cis-1,3-Dichloropropene	0.349	0.388	50.00	55.67		AVRG	11.3	
trans-1,3-Dichloropropene	0.638	0.654	50.00	51.23		AVRG	2.5	
Ethylbenzene	2.177	2.171	50.00	49.86		AVRG	-0.3	20.0
Ethyl methacrylate	0.440	0.446	50.00	45.31		LINR	-9.4	
Hexachlorobutadiene	0.244	0.237	50.00	48.70		AVRG	-2.6	
2-Hexanone	0.269	0.266	100.0	91.89		LINR	-8.1	
Iodomethane	0.270	0.284	50.00	49.63		LINR	-0.7	
Isopropylbenzene	2.197	2.294	50.00	52.23		AVRG	4.4	
p-Isopropyltoluene	1.568	1.696	50.00	54.09		AVRG	8.2	
Methyl acetate	0.147	0.137	50.00	46.54		AVRG	-6.9	
Methyl cyclohexane	0.322	0.344	50.00	53.44		AVRG	6.9	
Methylene chloride	0.224	0.183	50.00	47.16		LINR	-5.7	
Methyl methacrylate	0.174	0.196	50.00	56.50		AVRG	13.0	
MTBE	0.563	0.551	50.00	48.97		AVRG	-2.0	
4-Methyl-2-pentanone	0.199	0.206	100.0	103.5		AVRG	3.5	
Naphthalene	1.184	0.988	50.00	41.73		AVRG	-16.5	
n-Propylbenzene	2.213	2.308	50.00	52.14		AVRG	4.3	
Styrene	1.318	1.406	50.00	53.33		AVRG	6.7	
1,1,1,2-Tetrachloroethane	0.512	0.494	50.00	48.22		AVRG	-3.6	
1,1,2,2-Tetrachloroethane	0.487	0.401	50.00	41.18	0.300	AVRG	-17.6	
Tetrachloroethene	0.558	0.513	50.00	45.95		AVRG	-8.1	
Tetrahydrofuran	0.079	0.046	50.00	45.26		LINR	-9.5	
Toluene	1.154	0.993	50.00	43.00		AVRG	-14.0	20.0
1,2,3-Trichlorobenzene	0.533	0.461	50.00	43.29		AVRG	-13.4	
1,2,4-Trichlorobenzene	0.579	0.544	50.00	47.01		AVRG	-6.0	
1,1,1-Trichloroethane	0.371	0.427	50.00	57.57		AVRG	15.1	
1,1,2-Trichloroethane	0.320	0.280	50.00	43.80		AVRG	-12.4	
Trichloroethene	0.238	0.254	50.00	53.40		AVRG	6.8	
Trichlorofluoromethane	0.370	0.429	50.00	57.96		AVRG	15.9	
Trichlorotrifluoroethane	0.207	0.211	50.00	50.99		AVRG	2.0	
1,2,3-Trichloropropane	0.192	0.176	50.00	45.95		AVRG	-8.1	
1,2,4-Trimethylbenzene	1.466	1.585	50.00	54.03		AVRG	8.1	
1,3,5-Trimethylbenzene	1.571	1.645	50.00	52.36		AVRG	4.7	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Instrument ID: VOA3 Calibration Date: 07/26/06 Time: 0849

Lab File ID: V3CCV01 Init. Calib. Date(s): 07/19/06 07/19/06

Heated Purge: (Y/N) N Init. Calib. Times: 1506 1906

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	0.357	0.426	100.0	105.0		LINR	5.0	
Vinyl chloride	0.200	0.214	50.00	53.59		AVRG	7.2	20.0
Xylene(total)	1.781	1.836	150.0	150.1		AVRG	3.1	
Dibromofluoromethane	0.265	0.279	30.00	31.56		AVRG	5.2	
1,2-Dichloroethane-d4	0.058	0.057	30.00	29.58		AVRG	-1.4	
Toluene-d8	2.084	1.907	30.00	27.45		AVRG	-8.5	
Bromofluorobenzene	0.979	1.000	30.00	30.65		AVRG	2.2	

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3CCV01.D
Report Date: 26-Jul-2006 08:12

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3CCV01.D
Lab Smp Id: V3STD50PPB Client Smp ID: V3STD50PPB
Inj Date : 26-JUL-2006 08:49 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3STD50PPB;;;;;;
Misc Info : ;2;;;;gm-all.sub;#4928,4963
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 26-Jul-2006 08:12 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

M 7/26/06
7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	13.362	13.362	(1.000)	533063	30.0000	
1 Dichlorodifluoromethane	85	3.811	3.811	(0.285)	278377	50.0000	64.87
2 Chloromethane	50	4.061	4.061	(0.304)	201849	50.0000	52.98
4 Vinyl chloride	62	4.310	4.310	(0.323)	190115	50.0000	53.59
7 Bromomethane	94	4.864	4.864	(0.364)	105524	50.0000	45.89
8 Chloroethane	64	5.071	5.071	(0.379)	107182	50.0000	54.56
11 Trichlorofluoromethane	101	5.959	5.959	(0.446)	381138	50.0000	57.96
25 Trichlorotrifluoroethane	101	7.340	7.340	(0.549)	187390	50.0000	50.99(A)
10 Acrolein	56	5.892	5.892	(0.441)	77832	250.000	1069(A)
21 1,1-Dichloroethene	96	6.908	6.908	(0.517)	145567	50.0000	48.54
14 Acetone	43	6.105	6.105	(0.457)	140919	100.000	93.97
22 Iodomethane	142	6.932	6.932	(0.519)	252166	50.0000	49.63
28 Carbon disulfide	76	7.589	7.589	(0.568)	532363	50.0000	48.91
24 Methylene chloride	84	7.188	7.188	(0.538)	162855	50.0000	47.16
23 Acrylonitrile	53	6.950	6.950	(0.520)	274397	250.000	235.4
31 trans-1,2-Dichloroethene	96	8.648	8.648	(0.647)	166127	50.0000	47.27

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3CCV01.D
Report Date: 26-Jul-2006 08:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	32 MTBE	73	9.025	9.025	(0.675)	489904	50.0000	48.97
	33 1,1-Dichloroethane	63	9.293	9.293	(0.695)	313641	50.0000	50.88
	36 Vinyl acetate	43	9.712	9.712	(0.727)	757706	100.000	105.0
	44 cis-1,2-Dichloroethene	96	10.826	10.826	(0.810)	175242	50.0000	48.20
M	29 1,2-Dichloroethene(total)	96				341370	100.000	95.49
	42 2-Butanone	43	10.485	10.485	(0.785)	150171	100.000	90.79
	46 Bromochloromethane	128	11.118	11.118	(0.832)	103012	50.0000	50.95
	51 Tetrahydrofuran	42	11.836	11.836	(0.886)	41189	50.0000	45.26
	47 Chloroform	83	11.239	11.239	(0.841)	362625	50.0000	51.48
	26 Methyl acetate	43	7.261	7.261	(0.543)	121678	50.0000	46.54
$	49 Dibromofluoromethane	111	11.446	11.446	(0.857)	148576	30.0000	31.56
	54 1,1,1-Trichloroethane	97	12.505	12.505	(0.936)	379567	50.0000	57.57
	56 Cyclohexane	56	12.937	12.937	(0.968)	304265	50.0000	52.94
	57 Carbon tetrachloride	117	13.022	13.022	(0.975)	362086	50.0000	58.46
$	52 1,2-Dichloroethane-d4	102	12.207	12.207	(0.914)	30231	30.0000	29.58
	58 Benzene	78	13.046	13.046	(0.976)	704100	50.0000	50.60
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	320410	50.0000	57.92
	48 2,2-Dichloropropane	77	11.391	11.391	(0.852)	322737	50.0000	61.24
	55 1,1-Dichloropropene	75	12.797	12.797	(0.958)	267527	50.0000	53.38
	63 Trichloroethene	95	13.916	13.916	(1.041)	225607	50.0000	53.40
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	186469	50.0000	50.64
	61 Dibromomethane	93	13.782	13.782	(1.031)	132401	50.0000	52.79
	66 Methyl methacrylate	41	14.184	14.184	(1.061)	174548	50.0000	56.50
	64 Bromodichloromethane	83	13.947	13.947	(1.044)	299920	50.0000	55.34
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.083)	266596	100.000	125.1
	71 cis-1,3-Dichloropropene	75	14.701	14.701	(1.100)	345059	50.0000	55.67
	72 4-Methyl-2-pentanone	43	14.829	14.829	(1.110)	365437	100.000	103.5
$	76 Toluene-d8	98	15.400	15.400	(0.924)	619108	30.0000	27.45
	78 Toluene	92	15.467	15.467	(0.928)	537188	50.0000	43.00
	73 trans-1,3-Dichloropropene	75	15.145	15.145	(0.908)	353703	50.0000	51.23
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	241407	50.0000	45.31
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	151542	50.0000	43.80
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	277545	50.0000	45.95
	81 2-Hexanone	43	15.680	15.680	(0.941)	287726	100.000	91.89(Q)
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	265263	50.0000	49.57
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	222210	50.0000	45.92
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	306002	50.0000	53.44
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	324679	30.0000	
	87 Chlorobenzene	112	16.696	16.696	(1.001)	711820	50.0000	46.90
	85 1,1,1,2-Tetrachloroethane	131	16.642	16.642	(0.998)	267334	50.0000	48.22
	88 Ethylbenzene	91	16.848	16.848	(1.011)	1174673	50.0000	49.86
	89 m,p-Xylene	91	16.994	16.994	(1.019)	1900174	100.000	104.6
M	100 Xylene(total)	91				2893512	50.0000	150.1
	93 o-Xylene	91	17.299	17.299	(1.038)	993337	50.0000	51.54
	91 Styrene	104	17.238	17.238	(1.034)	760718	50.0000	53.33
	90 Bromoform	173	17.086	17.086	(1.025)	185897	50.0000	50.09
	96 Isopropylbenzene	105	17.560	17.560	(1.053)	1241618	50.0000	52.23

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3CCV01.D
Report Date: 26-Jul-2006 08:12

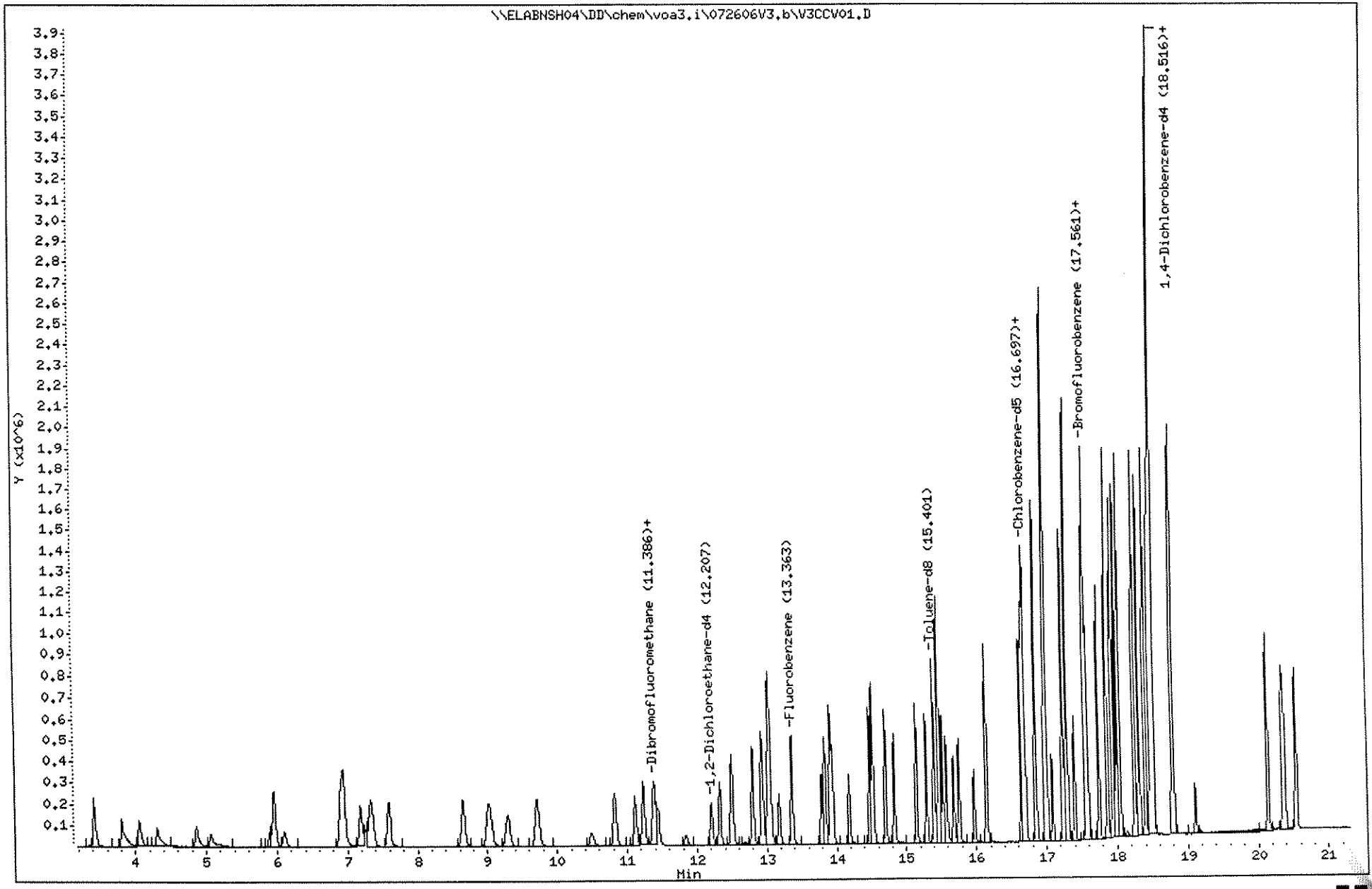
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	97 Bromofluorobenzene	95	17.584	17.584	(1.055)	324808	30.0000	30.65
	92 1,1,2,2-Tetrachloroethane	83	17.299	17.299	(0.935)	249335	50.0000	41.18
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	327465	50.0000	45.04
	94 1,2,3-Trichloropropane	110	17.402	17.402	(1.044)	95338	50.0000	45.95
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	1435042	50.0000	52.14
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	1022871	50.0000	52.36
	104 1,2,4-Trimethylbenzene	105	18.321	18.321	(0.990)	985455	50.0000	54.03
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	1280100	50.0000	54.19
	105 tert-Butylbenzene	119	18.254	18.254	(0.987)	931050	50.0000	51.49
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	716123	50.0000	49.73
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	373052	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	741787	50.0000	50.23
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	777272	50.0000	53.35
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	644265	50.0000	48.64
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	65839	50.0000	41.22
	98 Bromobenzene	156	17.749	17.749	(0.959)	350635	50.0000	46.90
	102 2-Chlorotoluene	91	17.943	17.943	(0.970)	919004	50.0000	50.30
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	995977	50.0000	51.20
	116 1,2,4-Trichlorobenzene	180	20.140	20.140	(1.088)	338310	50.0000	47.01
	117 Naphthalene	128	20.353	20.353	(1.100)	614534	50.0000	41.73
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	1054847	50.0000	54.09
	118 Hexachlorobutadiene	225	20.383	20.383	(1.102)	147548	50.0000	48.70
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	286901	50.0000	43.29

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3CCV01.D
Date : 26-JUL-2006 08:49
Client ID: V3STD50PPB
Instrument: voa3.i
Sample Info: V3STD50PPB;;;;;;
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000203



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1BFB01.D

Date : 18-JUL-2006 08:25

Client ID: 50ppb BFB

Instrument: voa1.i

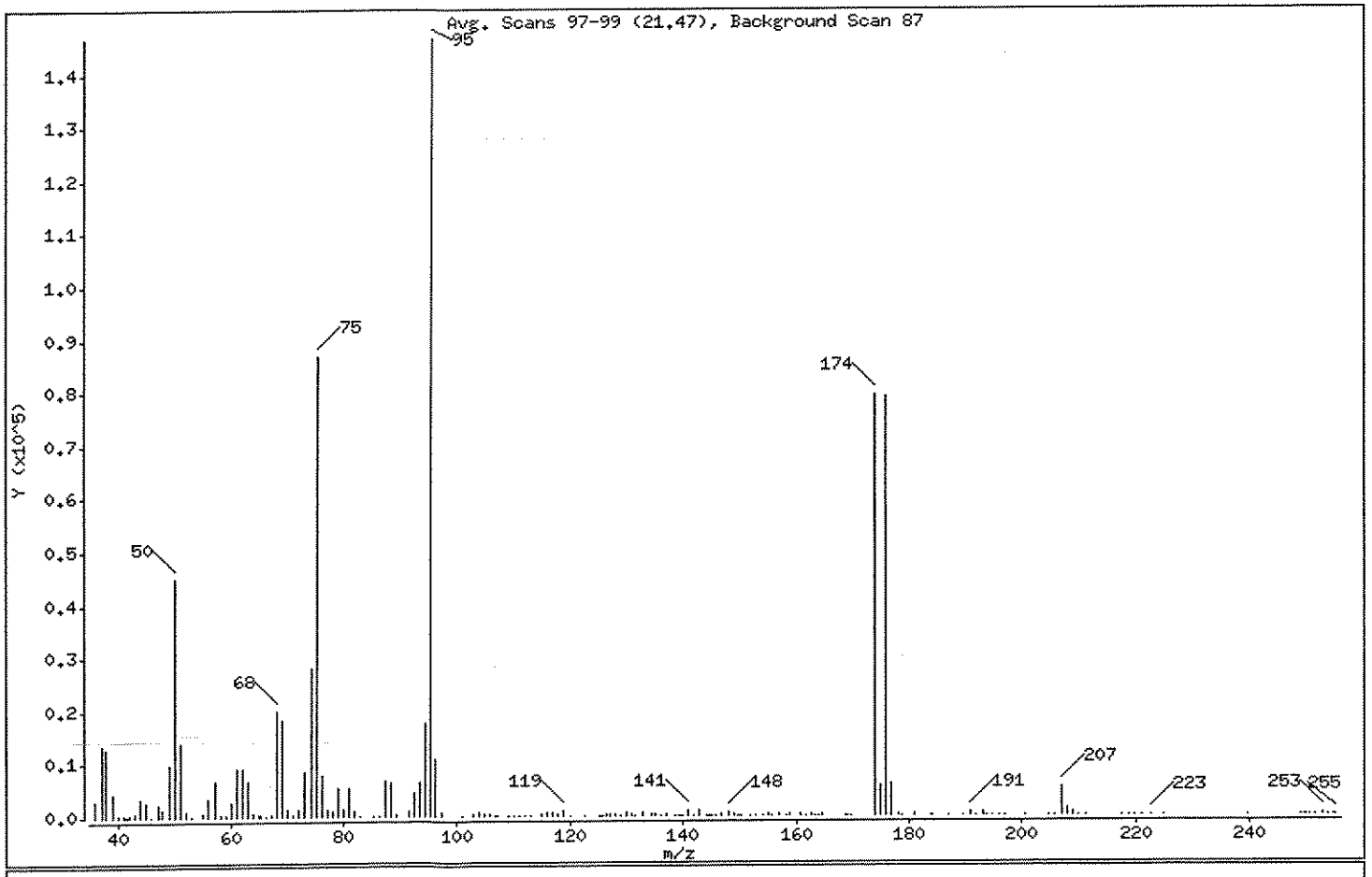
Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.63
75	30.00 - 60.00% of mass 95	59.25
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	54.18
175	5.00 - 9.00% of mass 174	4.02 (7.43)
176	95.00 - 101.00% of mass 174	53.88 (99.46)
177	5.00 - 9.00% of mass 176	4.12 (7.65)

7/19/06

7/18/6

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1BFB01.D

Date : 18-JUL-2006 08:25

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: Avg. Scans 97-99 (21.47), Background Scan 87

Location of Maximum: 95.00

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3142	77.05	1268	129.05	141	173.90	79440
37.10	13348	78.05	890	129.95	525	174.90	5899
38.00	12740	78.95	5564	130.85	312	175.90	79008
39.10	4536	79.95	1458	131.55	72	176.90	6048
40.10	463	80.95	5517	132.95	735	178.00	384
41.00	213	81.95	1060	134.35	226	178.90	119
41.20	215	82.85	156	135.05	378	181.00	179
41.50	114	85.05	63	136.15	62	184.05	67
41.80	111	86.05	69	136.95	231	184.35	64
42.10	197	86.95	6703	138.65	68	186.95	149
43.00	546	88.00	6429	139.15	54	189.75	56
44.10	3242	88.80	220	139.75	61	190.95	634
45.00	2859	91.00	846	140.05	71	191.85	164
46.00	163	92.00	4473	140.85	1142	193.05	540
47.10	2304	93.00	6394	141.80	87	193.75	76
47.95	1502	94.00	17736	142.90	1142	194.75	68
49.05	9814	95.00	146624	144.10	74	196.10	82
50.05	44912	96.10	10717	144.50	82	196.90	95
51.05	13719	97.10	596	144.80	72	200.60	144
52.05	899	101.10	67	145.10	89	204.80	73
52.85	106	103.05	261	145.80	127	205.70	54
55.05	819	103.95	539	146.80	211	207.00	5487
55.95	3223	104.95	351	147.90	546	208.00	1372
57.05	6647	105.95	379	148.90	212	209.00	640
58.25	241	106.95	107	149.70	109	210.05	167
58.95	236	107.25	73	149.90	115	211.05	138
60.05	2778	109.15	100	150.20	83	217.75	73
61.00	9035	110.05	154	151.90	59	218.95	71
62.00	9135	110.95	145	152.70	121	219.75	59
63.00	6796	111.95	90	154.10	76	221.05	74
64.00	671	113.05	52	155.10	181	222.70	77
64.90	180	114.90	249	155.55	165	225.00	74
65.10	175	115.90	665	156.85	202	239.75	53
66.00	73	116.90	516	158.15	73	249.05	164
67.00	494	117.90	355	158.95	205	249.55	58

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1BFB01.D

Date : 18-JUL-2006 08:25

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

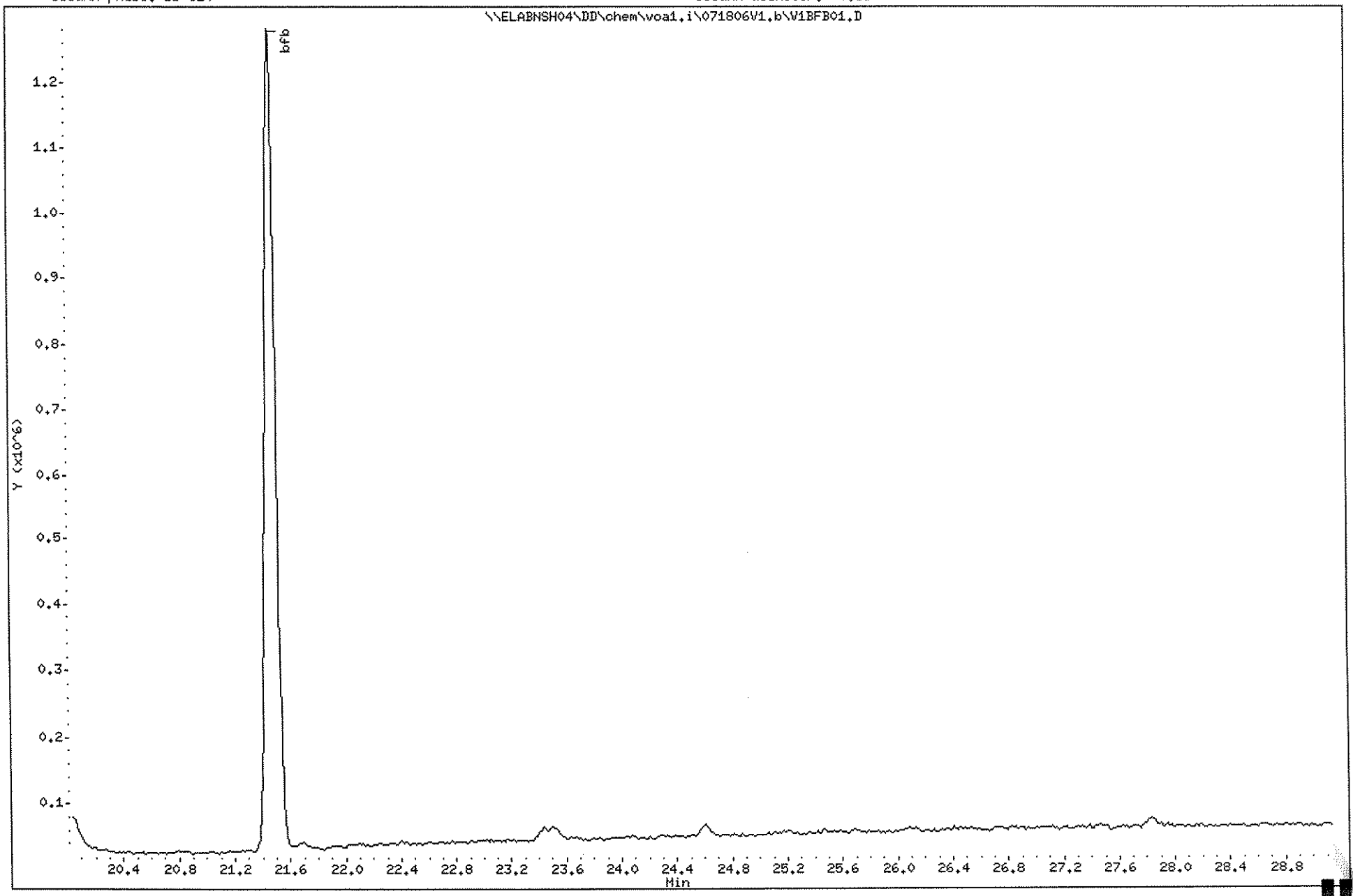
Spectrum: Avg. Scans 97-99 (21.47), Background Scan 87

Location of Maximum: 95.00

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
68.00	20008	118.90	961	160.95	275	250.00	71
69.00	18384	120.00	127	161.85	69	250.80	78
70.10	1319	122.70	152	162.85	183	251.60	59
71.10	276	125.20	93	163.35	64	253.00	222
72.00	1268	125.50	64	163.95	71	253.80	168
73.00	8527	125.70	60	164.75	214	254.80	60
74.10	28208	126.50	191	168.70	54	255.10	54
75.05	86880	127.00	269	169.10	65		
76.05	7720	128.00	473	169.80	143		

Data File: \\ELABNSH04\DD\chem\voa1.i\071806V1.b\V1BFB01.D
Date : 18-JUL-2006 08:25
Client ID: 50ppb BFB
Instrument: voa1.i
Sample Info: V1BFB 50ng;;;;;
Operator: ADM
Column phase: DB-624
Column diameter: 0.53



000207

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1BFB01.D

Date : 26-JUL-2006 12:40

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: Avg. Scans 97-99 (21.47), Background Scan 77

Location of Maximum: 95.10

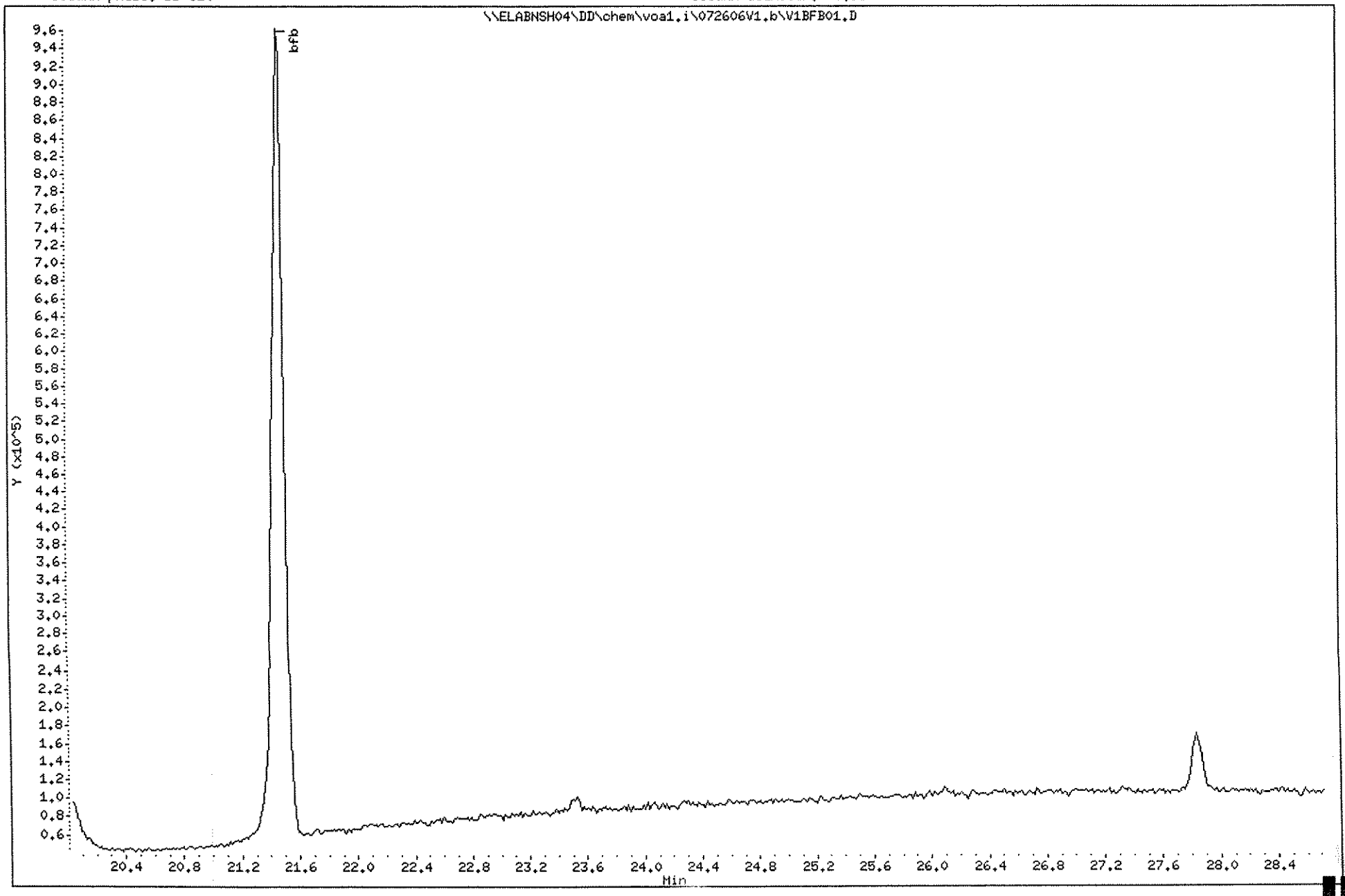
Number of points: 132

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2123	73.00	6401	117.80	314	160.95	77
37.10	11464	74.10	21656	118.80	612	161.95	76
38.00	9070	75.05	71760	119.80	6	163.65	71
39.00	3780	75.95	5635	121.00	42	163.95	66
40.10	164	77.05	1098	123.10	80	164.95	157
41.30	292	78.05	485	124.00	79	171.10	16
42.10	3	78.95	4103	126.10	75	171.70	76
43.00	178	80.05	859	127.10	123	173.90	77888
44.00	1699	80.95	4398	127.70	228	174.90	6065
45.10	1652	81.85	738	128.95	95	175.90	74296
46.20	249	83.25	218	130.05	443	176.90	5035
47.00	2570	85.05	23	130.85	14	178.00	86
48.05	1176	85.85	198	131.95	28	179.00	49
49.05	8240	87.05	5781	132.95	662	180.00	91
50.05	33664	88.00	5176	135.65	320	181.00	187
51.05	9755	90.00	160	136.15	87	183.05	70
51.95	376	91.00	653	137.05	245	184.85	66
52.95	123	92.00	3884	138.05	2	187.15	97
54.05	56	93.00	4517	139.25	111	192.05	246
54.95	329	94.00	14191	140.95	849	195.90	13
56.05	3006	95.10	125968	142.90	914	196.90	69
57.05	3842	96.10	9509	144.60	56	204.90	32
58.15	20	97.10	355	146.00	117	208.00	276
60.05	1605	102.95	58	146.90	16	209.95	99
61.00	7857	103.85	523	148.30	79	211.65	64
62.00	7818	104.95	96	149.50	53	220.05	133
63.10	5054	105.95	594	150.30	87	222.05	52
64.10	143	106.85	192	150.80	8	248.95	32
66.00	212	109.45	98	152.00	83	250.90	106
67.10	639	110.15	72	153.50	170	254.80	143
68.00	15349	112.95	146	155.00	334		
69.10	15754	115.50	30	156.05	101		
70.10	908	116.00	166	157.05	174		
72.00	806	116.90	586	158.95	143		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1BFB01.D
Date : 26-JUL-2006 12:40
Client ID: 50ppb BFB
Instrument: voa1.i
Sample Info: V1BFB 50ng;;;;;
Operator: ADM
Column phase: DB-624
Column diameter: 0.53

000210



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BFB01.D

Date : 27-JUL-2006 05:56

Client ID: 50ppb BFB

Instrument: voa1.i

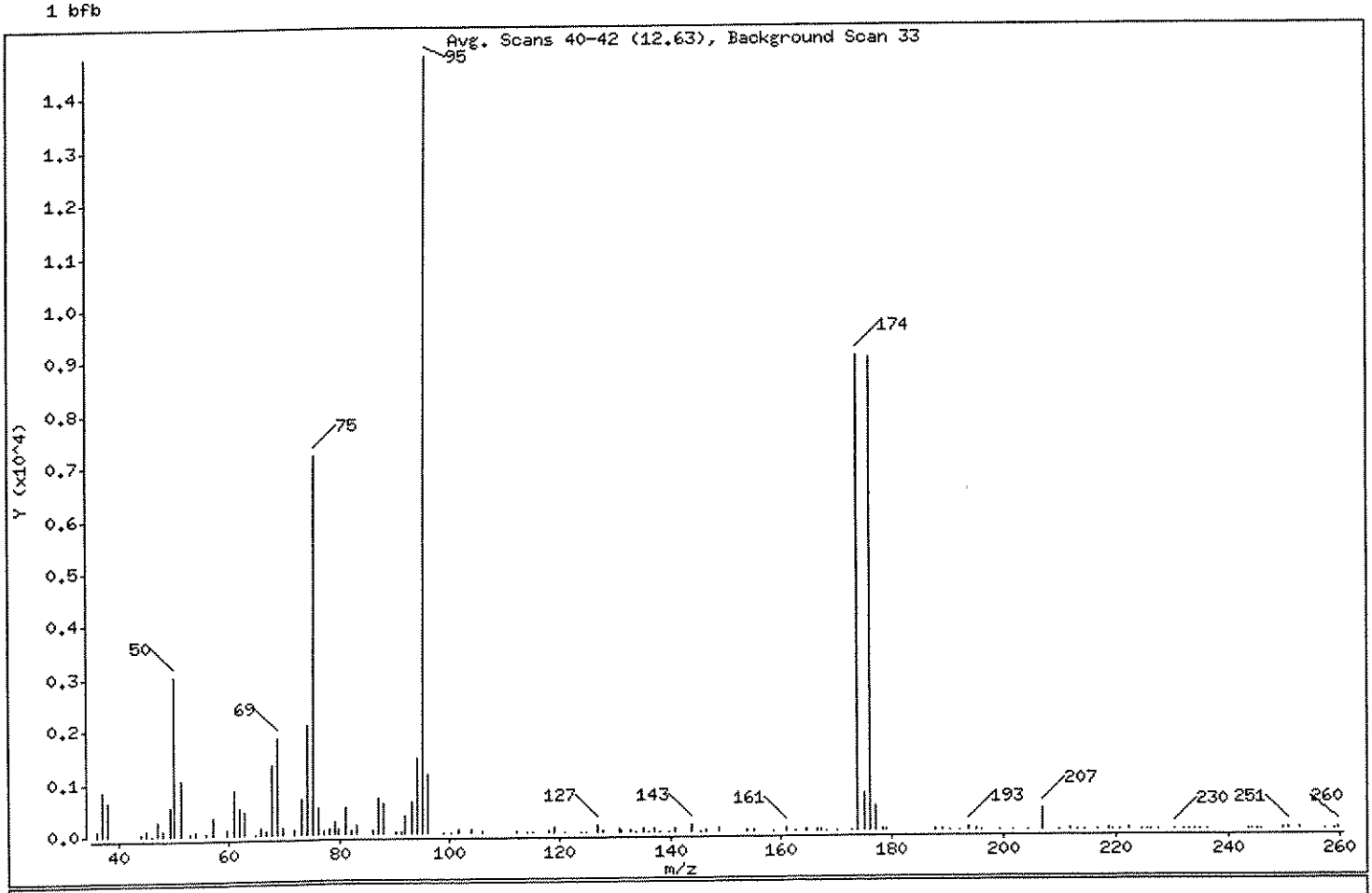
Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.58
75	30.00 - 60.00% of mass 95	48.89
96	5.00 - 9.00% of mass 95	7.61
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	61.37
175	5.00 - 9.00% of mass 174	4.86 (7.92)
176	95.00 - 101.00% of mass 174	61.09 (99.55)
177	5.00 - 9.00% of mass 176	3.23 (5.29)

M 7/27/06

Acc. = 17:56 7/28

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BFB01.D

Date : 27-JUL-2006 05:56

Client ID: 50ppb BFB

Instrument: voa1.i

Sample Info: V1BFB 50ng;;;;;

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

Data File: V1BFB01.D

Spectrum: Avg. Scans 40-42 (12.63), Background Scan 33

Location of Maximum: 94.95

Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	86	80.90	500	136.95	62	204.00	2
36.95	845	82.00	61	138.10	3	206.90	420
37.95	642	83.00	165	139.60	14	209.80	6
43.95	40	86.00	54	140.70	57	211.65	50
45.05	108	86.90	695	143.60	129	212.95	16
45.95	10	88.00	562	145.10	5	214.25	2
46.95	274	90.20	39	146.00	33	216.45	2
47.95	100	91.00	23	148.30	52	218.55	26
49.05	544	91.90	351	153.65	29	219.05	13
49.95	3038	93.00	610	154.85	18	220.55	10
51.00	1046	94.00	1412	158.65	5	222.05	28
52.90	40	94.95	14763	160.75	58	224.45	5
53.90	58	95.95	1123	162.55	7	225.50	10
55.90	29	99.05	7	164.55	22	226.10	3
57.00	338	100.15	17	166.35	18	227.40	10
59.80	93	101.65	67	167.20	36	230.20	16
60.90	851	103.85	61	168.00	14	232.10	2
62.00	502	105.85	38	170.00	6	232.90	7
63.00	435	112.20	18	172.60	4	233.80	12
65.00	4	114.10	2	173.80	9060	234.80	3
65.95	120	115.00	4	174.90	718	236.10	3
66.85	73	118.10	51	175.90	9019	243.65	11
67.95	1332	118.80	95	176.90	477	244.55	1
68.95	1824	120.90	15	178.40	37	245.35	2
69.95	135	123.75	3	179.00	25	246.15	11
71.95	91	124.85	9	187.65	28	250.05	18
72.95	666	126.85	136	189.05	20	250.95	23
73.95	2078	127.75	36	190.25	13	252.95	21
74.95	7217	130.65	84	191.95	12	257.60	1
75.95	524	131.05	45	193.55	60	259.10	4
76.95	65	132.85	42	194.85	26	259.80	25
77.95	105	133.75	4	196.10	7		
78.85	255	134.95	70	199.10	12		
79.80	101	136.05	6	201.50	14		

Empirical Laboratories

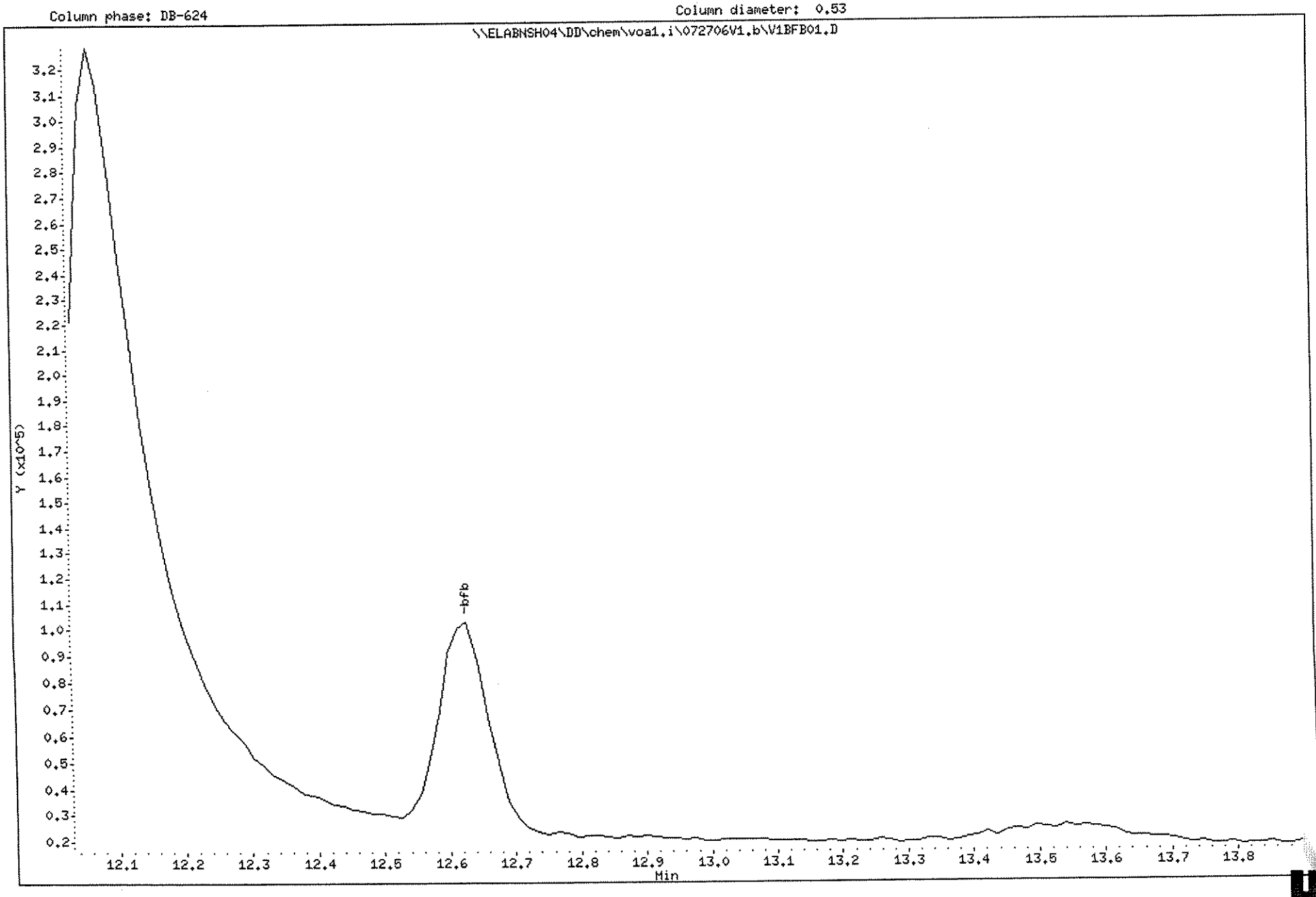
Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BFB01.D
Date : 27-JUL-2006 05:56
Client ID: 50ppb BFB
Sample Info: V1BFB 50ng;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.53

Column phase: DB-624

000213



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3BFB01.D

Date : 19-JUL-2006 14:01

Client ID: 50ppb BFB

Instrument: voa3.i

Sample Info: V3BFB 50NG;;;;;;

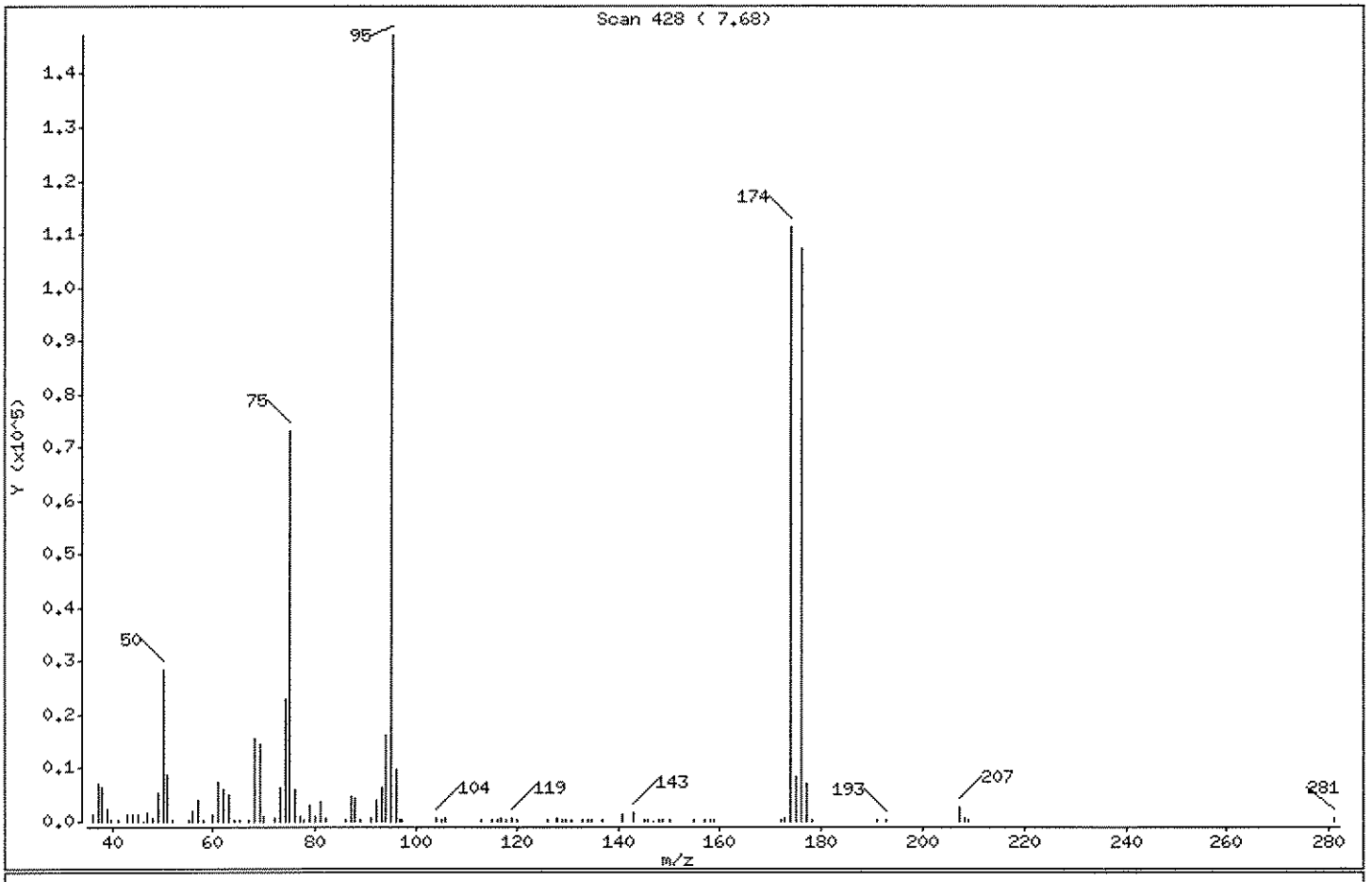
Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.24
75	30.00 - 60.00% of mass 95	49.67
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.53 (0.70)
174	Greater than 50.00% of mass 95	75.63
175	5.00 - 9.00% of mass 174	5.63 (7.45)
176	95.00 - 101.00% of mass 174	72.78 (96.24)
177	5.00 - 9.00% of mass 176	4.81 (6.61)

7/20/06

7/19/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3BFB01.D

Date : 19-JUL-2006 14:01

Client ID: 50ppb BFB

Instrument: voa3.i

Sample Info: V3BFB 50NG;;;;;;

Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

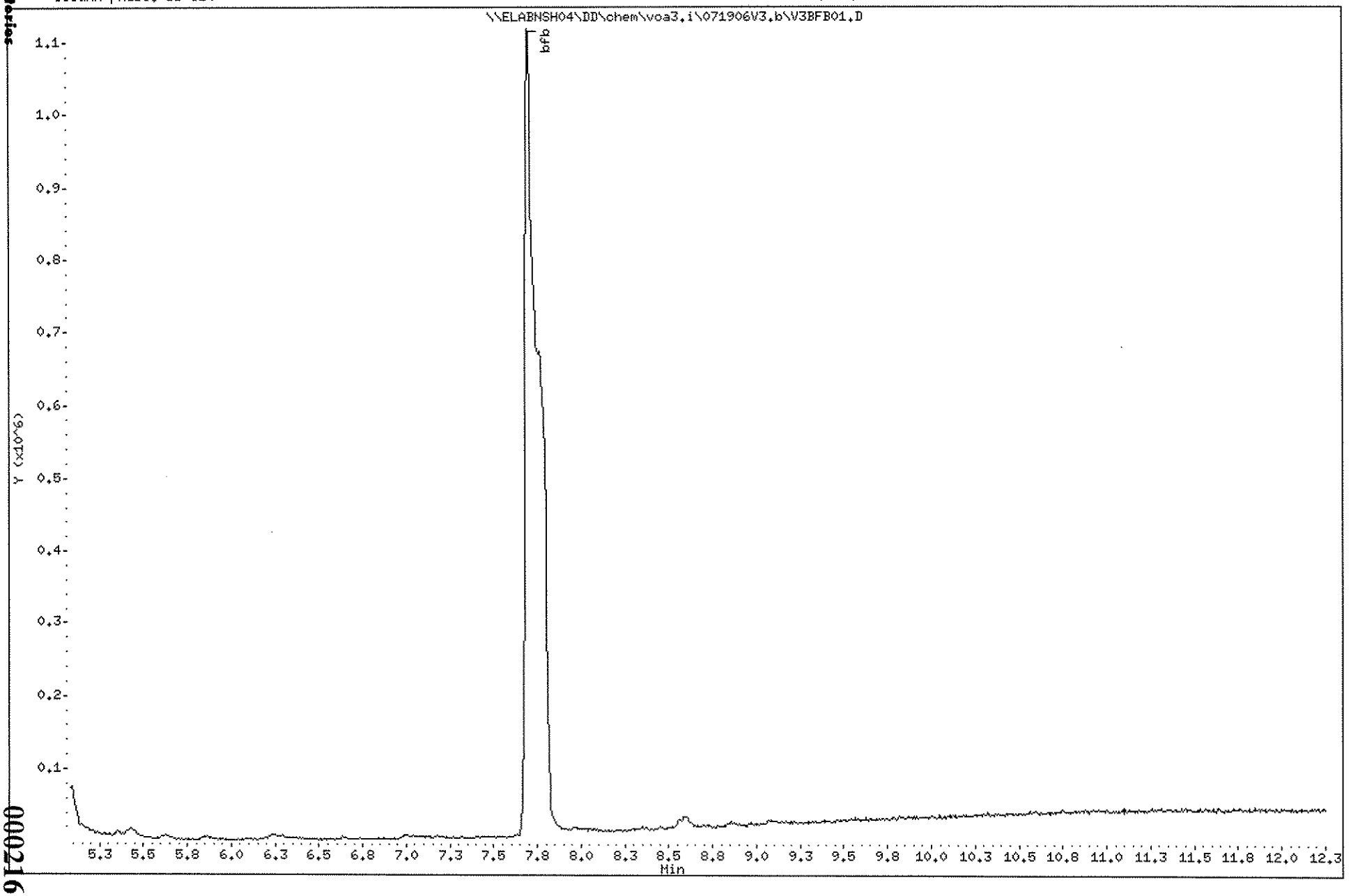
Column diameter: 0.53

Data File: V3BFB01.D
Spectrum: Scan 428 (7.68)
Location of Maximum: 95.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1195	65.10	471	96.00	9815	145.80	241
37.10	7159	66.90	428	96.90	277	146.90	156
38.10	6417	68.00	15625	97.10	278	147.90	465
39.00	2514	69.00	14652	103.90	750	148.90	179
39.90	251	70.00	1135	105.00	453	150.00	181
41.10	233	72.10	710	105.90	626	155.00	433
43.00	1370	73.00	6487	113.00	180	156.90	307
44.00	1361	74.00	23024	114.90	214	158.00	176
45.00	1226	75.00	73152	116.00	330	158.90	175
46.10	159	76.00	5998	116.90	711	171.90	243
47.00	1594	77.00	849	117.90	444	172.90	780
48.00	682	77.90	487	118.90	722	173.90	111376
49.00	5485	78.90	3178	119.90	189	174.90	8296
50.00	28328	80.00	1105	126.00	200	175.90	107184
51.00	8788	80.90	3614	128.00	671	177.00	7080
52.00	386	81.90	542	128.90	242	178.00	268
55.00	380	86.00	206	129.80	355	190.90	368
56.00	1928	87.00	4809	130.90	199	193.00	494
57.00	4012	87.90	4531	133.00	432	207.10	2831
58.00	436	88.70	422	134.00	187	208.10	637
60.00	1360	91.00	613	134.80	341	209.00	475
61.00	7369	92.00	4113	137.00	242	281.10	648
62.00	5939	93.00	6362	140.90	1490		
63.00	5124	94.00	16184	143.00	1698		
64.10	423	95.00	147264	145.00	242		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\071906V3.b\V3BFB01.D
Date : 19-JUL-2006 14:01
Client ID: 50ppb BFB
Instrument: voa3.i
Sample Info: V3BFB 50NG;;;;;;
Volume Injected (uL): 1.0
Operator: ADM
Column phase: DB-624
Column diameter: 0.53



917000

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BFB01.D

Date : 26-JUL-2006 08:19

Client ID: 50ppb BFB

Instrument: voa3.i

Sample Info: V3BFB 50NG;;;;;;

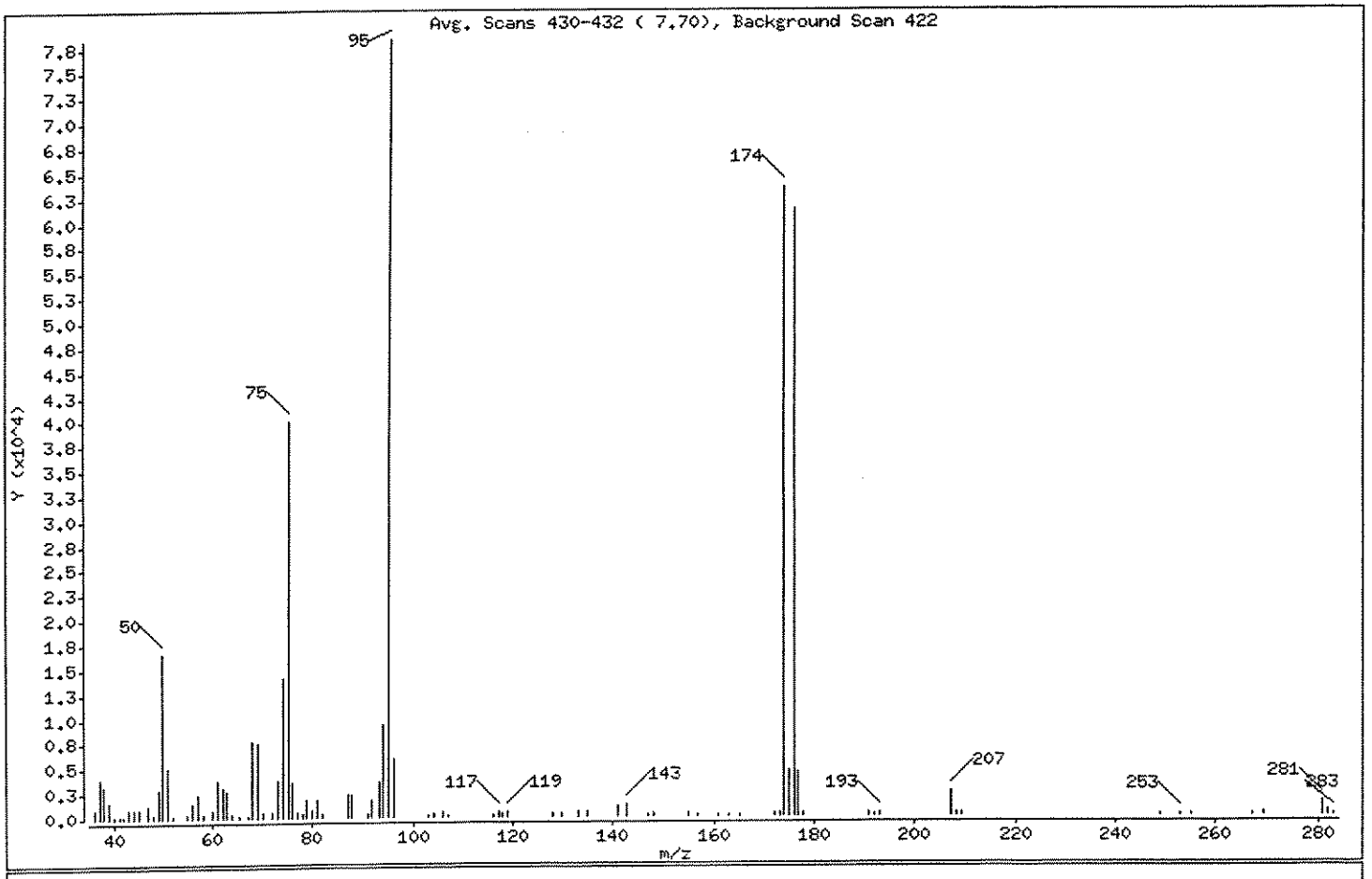
Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.25
75	30.00 - 60.00% of mass 95	51.13
96	5.00 - 9.00% of mass 95	7.58
173	Less than 2.00% of mass 174	0.55 (0.67)
174	Greater than 50.00% of mass 95	81.16
175	5.00 - 9.00% of mass 174	6.00 (7.40)
176	95.00 - 101.00% of mass 174	78.43 (96.64)
177	5.00 - 9.00% of mass 176	5.75 (7.33)

7/27/06
12T.= 20:19

M 7/26/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BFB01.D

Date : 26-JUL-2006 08:19

Client ID: 50ppb BFB

Instrument: voa3.i

Sample Info: V3BFB 50NG;;;;;;

Volume Injected (uL): 1.0

Operator: ADM

Column phase: DB-624

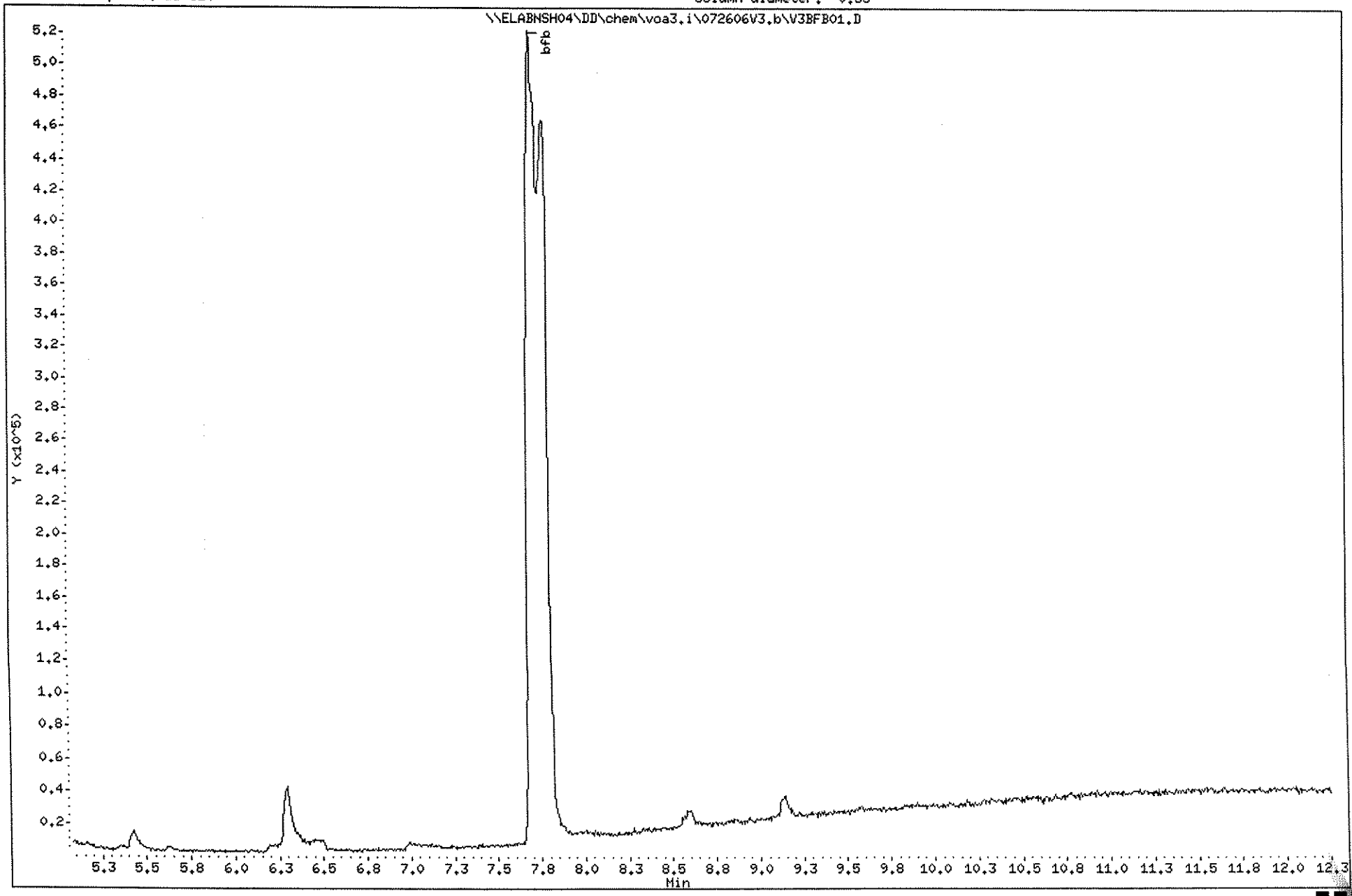
Column diameter: 0.53

Data File: V3BFB01.D
Spectrum: Avg. Scans 430-432 (7.70), Background Scan 422
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	888	63.00	2704	94.00	9432	165.00	160
37.10	3883	63.90	283	95.00	78336	171.90	282
38.00	3254	65.20	152	96.00	5937	173.00	429
39.00	1553	67.00	214	103.10	155	173.90	63576
40.00	187	68.00	7760	103.90	402	174.90	4704
41.10	229	69.00	7578	106.00	462	175.90	61440
41.90	201	70.10	612	106.90	150	176.90	4503
43.00	890	72.00	484	115.90	165	177.90	280
44.00	821	73.00	3719	116.90	466	190.90	444
45.00	881	74.00	14064	117.90	311	192.00	165
47.00	1174	75.00	40056	118.90	560	193.00	447
48.00	374	76.00	3526	127.80	340	207.00	2539
49.00	2964	77.00	556	129.90	309	208.00	434
50.00	16648	78.10	410	133.00	517	209.10	324
51.00	4988	78.90	1819	134.90	469	248.90	190
52.00	244	80.00	738	140.90	1170	253.10	193
55.00	421	81.00	1857	142.90	1341	255.00	150
56.10	1407	81.90	418	147.00	264	267.00	212
57.00	2311	86.90	2407	148.10	287	269.10	415
58.00	284	87.90	2385	155.00	311	281.00	1500
60.00	740	90.90	331	156.90	183	282.00	622
61.00	3856	91.90	1812	160.70	165	283.10	237
62.00	3048	93.10	3560	163.00	185		

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BFB01.D
Date : 26-JUL-2006 08:19
Client ID: 50ppb BFB
Instrument: voa3.i
Sample Info: V3BFB 50NG;;;;;;
Volume Injected (uL): 1.0
Operator: ADM
Column phase: DB-624
Column diameter: 0.53

000219



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1PBLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/26/06 15:06

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1PBLK01.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1PBLK01.D
Lab Smp Id: V1BLK0726 Client Smp ID: V1PBLK0726
Inj Date : 26-JUL-2006 15:06 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0726;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.853	14.847	(1.000)	566412	30.0000	
$ 44 Dibromofluoromethane ★	111	12.945	12.936	(0.872)	158623	30.6896 ✓	30.69
$ 48 1,2-Dichloroethane-d4	102	13.649	13.641	(0.919)	38619	27.7372	27.74 (Q)
$ 73 Toluene-d8	98	17.583	17.582	(0.891)	510109	31.5307	31.53
$ 95 Bromofluorobenzene	95	21.491	21.483	(1.089)	221093	31.4857	31.48
* 82 Chlorobenzene-d5	82	19.742	19.730	(1.000)	265520	30.0000	(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.449	23.445	(1.000)	188708	30.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

★ = 158623 ÷ 30 / 566412 * 0.273755698 = 30.689651

Empirical Laboratories

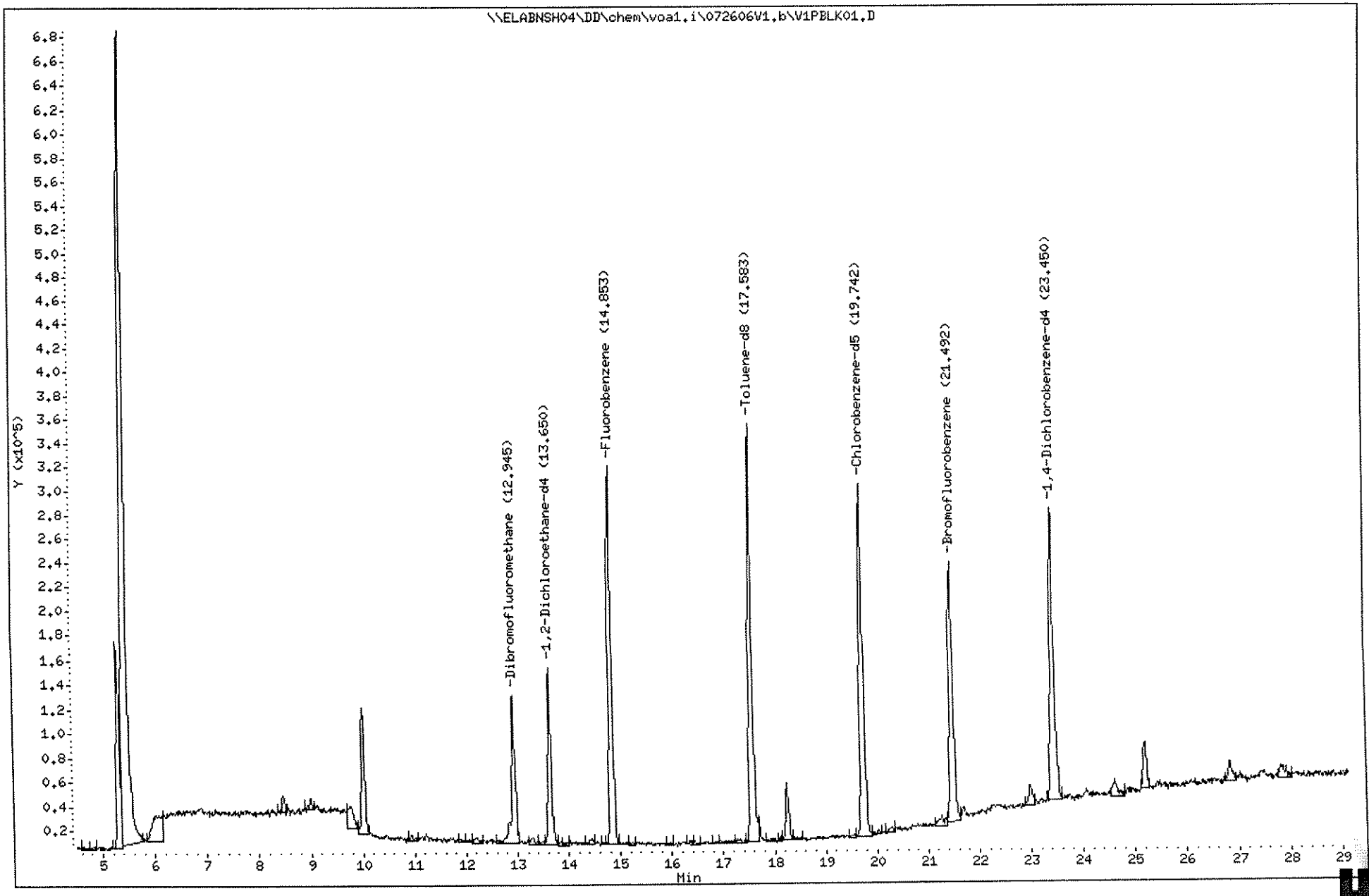
Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1PBLK01.D
Date : 26-JUL-2006 15:06
Client ID: V1PBLK0726
Sample Info: V1BLK0726;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000222



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0727

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0727

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/27/06 07:28

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0		U
100-41-4	Ethylbenzene	0.75	5.0		U
108-88-3	Toluene	0.86	5.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BLK01.D
Report Date: 27-Jul-2006 11:30

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BLK01.D
Lab Smp Id: V1PBLK0727 Client Smp ID: V1PBLK0727
Inj Date : 27-JUL-2006 07:28 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0727;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.836	14.839	(1.000)	566673	30.0000		
$ 44 Dibromofluoromethane	111	12.928	12.930	(0.871)	157220	30.4042	30.40	
$ 48 1,2-Dichloroethane-d4	102	13.632	13.634	(0.919)	39521	28.3719	28.37	
$ 73 Toluene-d8	98	17.565	17.556	(0.891)	525785	31.5329	31.53	
$ 95 Bromofluorobenzene	95	21.472	21.483	(1.089)	228412	31.5605	31.56	
* 82 Chlorobenzene-d5	82	19.723	19.731	(1.000)	273660	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.430	23.429	(1.000)	196040	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

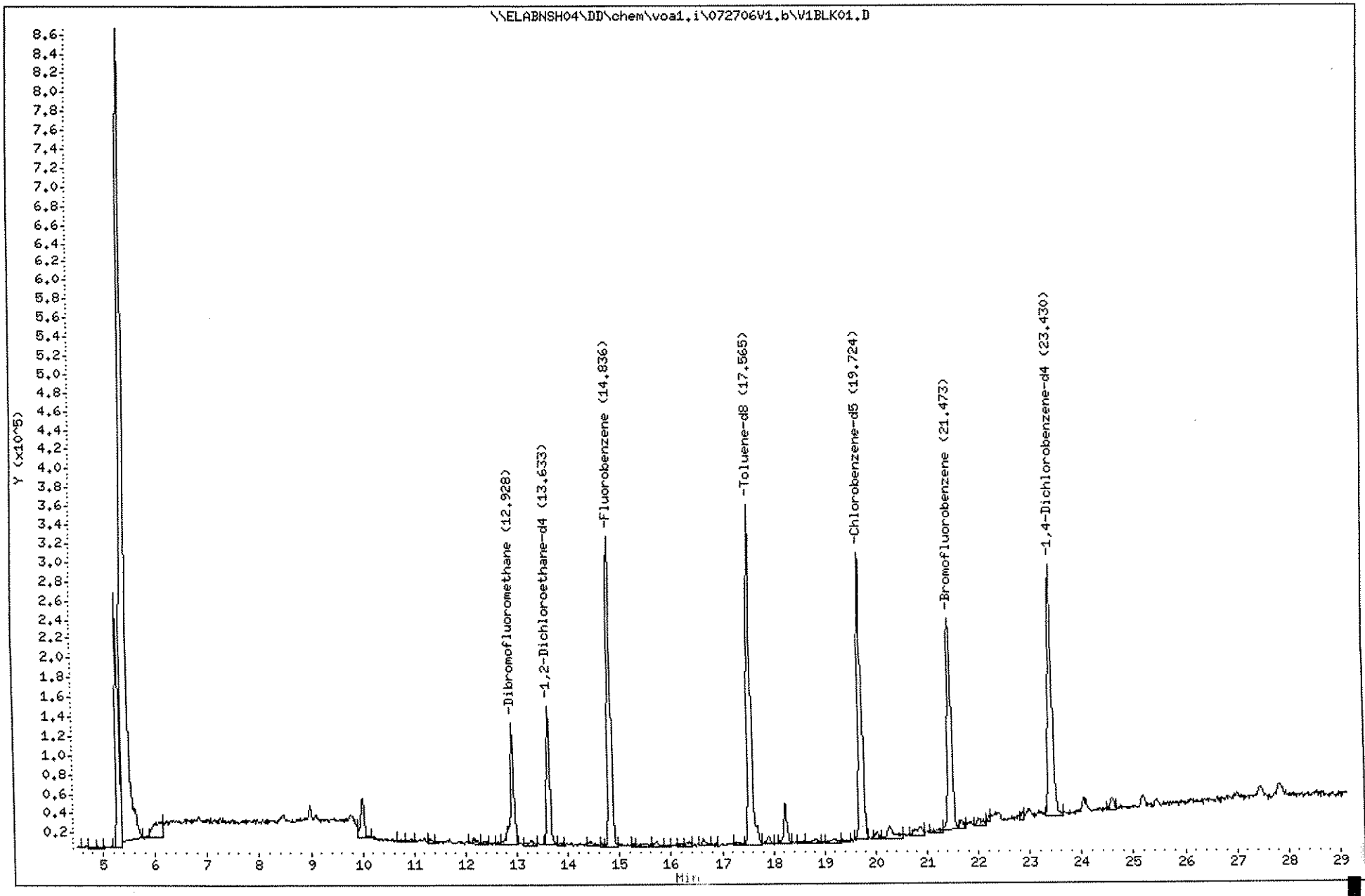
Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1BLK01.D
Date : 27-JUL-2006 07:28
Client ID: V1PBLK0727
Sample Info: V1BLK0727;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000225



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PMBLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PMBLK0726

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1MBLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/26/06 15:43

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	250		U
100-41-4	Ethylbenzene	38	250		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1MBLK01.D
Report Date: 27-Jul-2006 06:14

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1MBLK01.D
Lab Smp Id: V1MBLK0726 Client Smp ID: V1MBLK0726
Inj Date : 26-JUL-2006 15:43 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1MBLK0726;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:14 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btexm.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf*Vt/(Va*Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids
Vt	5000.000	Total Volume of Methanol (uL)
Va	100.000	Volume of Methanol Extract (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
* 56 Fluorobenzene	96	14.854	14.847	(1.000)	540898	30.0000		
$ 44 Dibromofluoromethane	111	12.931	12.936	(0.871)	152067	30.8090	1540	
$ 48 1,2-Dichloroethane-d4	102	13.636	13.641	(0.918)	39553	29.7480	1487	
$ 73 Toluene-d8	98	17.584	17.582	(0.891)	488143	31.0313	1552	
$ 95 Bromofluorobenzene	95	21.492	21.483	(1.089)	225847	33.0778	1654	
* 82 Chlorobenzene-d5	82	19.742	19.730	(1.000)	258175	30.0000		(Q)
* 106 1,4-Dichlorobenzene-d4	152	23.450	23.445	(1.000)	196157	30.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

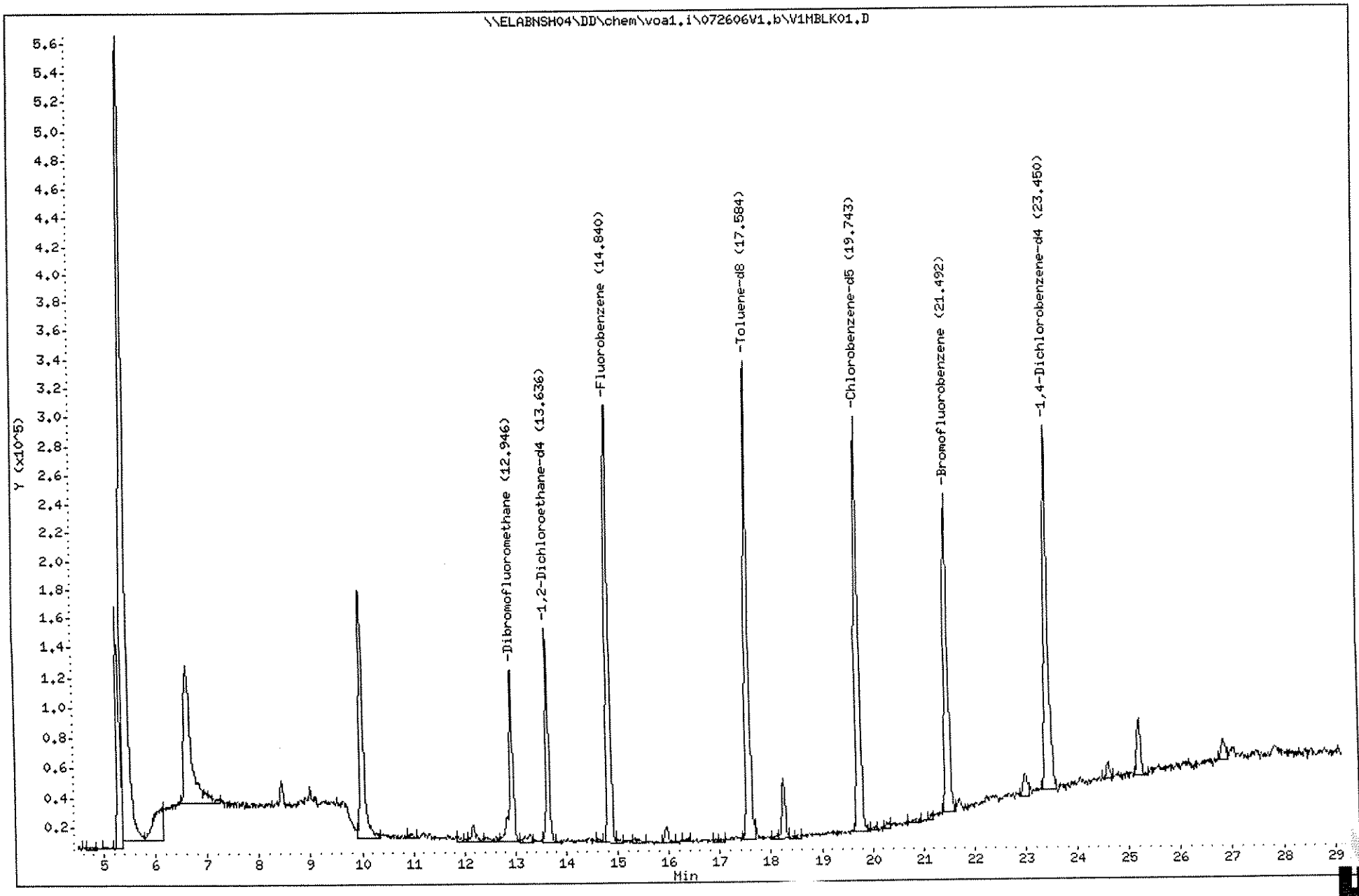
Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1MBLK01.D
Date : 26-JUL-2006 15:43
Client ID: V1MBLK0726
Sample Info: V1MBLK0726;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000228



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0726

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/26/06 11:04

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.35	1.0		U
108-88-3	Toluene	0.16	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BLK01.D
Report Date: 26-Jul-2006 11:17

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Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BLK01.D
Lab Smp Id: V3BLK0726 Client Smp ID: V3BLK0726
Inj Date : 26-JUL-2006 11:04 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3BLK0726;;;;;;
Misc Info : ;3;BLANK;;;gm-all.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 26-Jul-2006 08:12 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 100 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

MJ 7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	573231	30.0000	
$ 49 Dibromofluoromethane	111	11.440	11.446	(0.857)	160850	31.7739	31.77
$ 52 1,2-Dichloroethane-d4	102	12.200	12.207	(0.913)	33376	30.3683	30.37(Q)
$ 76 Toluene-d8	98	15.406	15.400	(0.924)	664530	29.5495	29.55
* 86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	323727	30.0000	(Q)
$ 97 Bromofluorobenzene	95	17.590	17.584	(1.055)	319785	30.2624	30.26
* 110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	339577	30.0000	

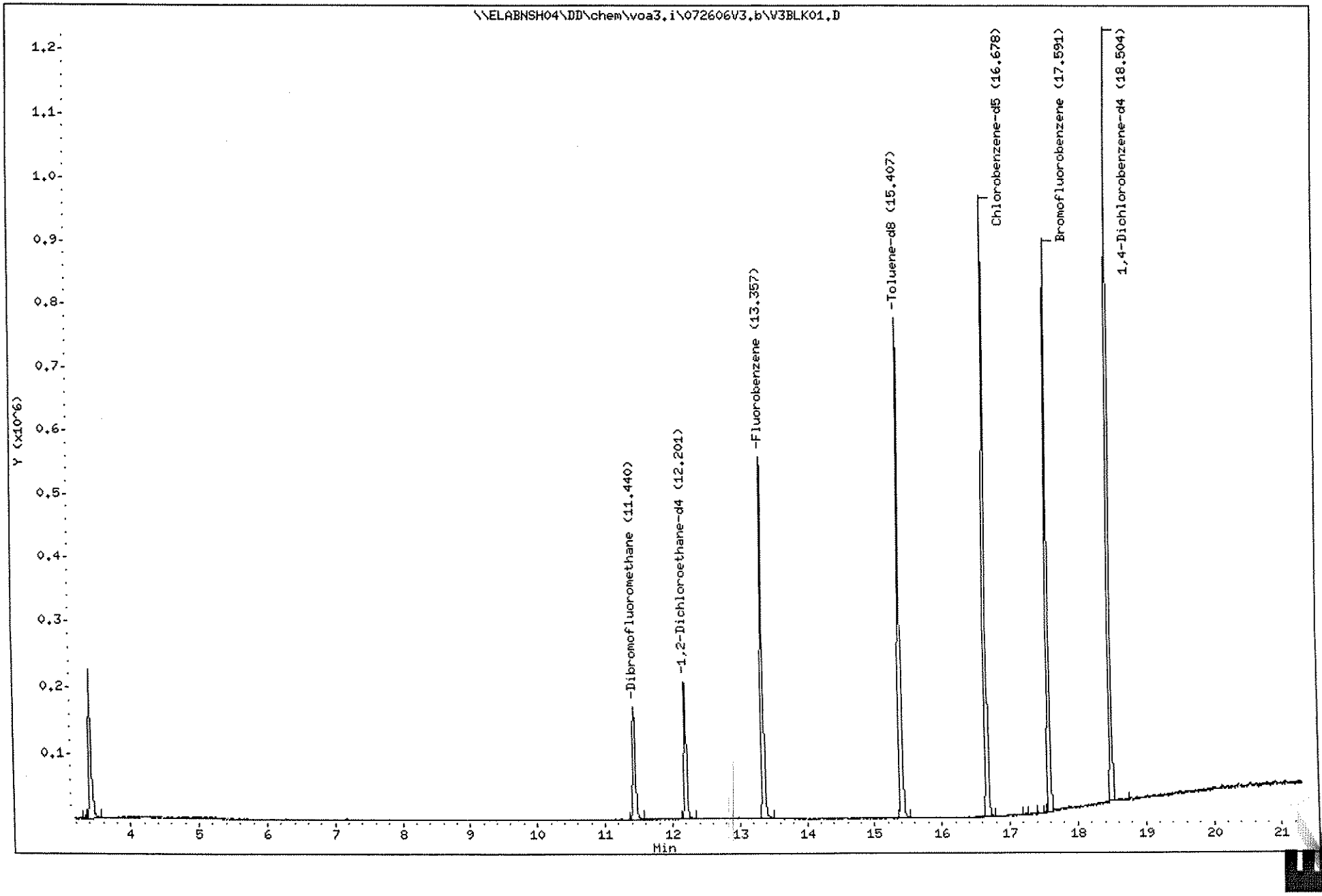
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3BLK01.D
Date : 26-JUL-2006 11:04
Client ID: V3BLK0726
Sample Info: V3BLK0726;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: voa3.i
Operator: ADM
Column diameter: 0.25

000231



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S
060725 MS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 5.6 (g/mL) G Lab File ID: 721103BM

Level: (low/med) LOW Date Sampled: 07/25/06 16:10

% Moisture: not dec. 5 Date Analyzed: 07/27/06 11:26

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.44	4.7	55	
100-41-4	Ethylbenzene	0.71	4.7	49	
108-88-3	Toluene	0.81	4.7	49	
1330-20-7	Xylene(total)	0.66	4.7	140	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BM.D
Report Date: 27-Jul-2006 12:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BM.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MS
Inj Date : 27-JUL-2006 11:26 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-03;;5.58;;;MS
Misc Info : ch2.v07211;3;MS;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.580	Weight of sample extracted (g)
Solids	95.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.836	14.839	(1.000)	549624	30.0000	
$ 44 Dibromofluoromethane	111	12.927	12.930	(0.871)	152306	30.3675	28.64
54 Benzene	78	14.528	14.530	(0.979)	2059968	58.5961	55.27
$ 48 1,2-Dichloroethane-d4	102	13.631	13.634	(0.919)	40923	30.2897	28.57
$ 73 Toluene-d8	98	17.568	17.556	(0.890)	521942	29.2395	27.58
74 Toluene	92	17.671	17.674	(0.896)	1194244	51.9986	49.04
$ 95 Bromofluorobenzene	95	21.481	21.483	(1.089)	229013	29.5581	27.88
* 82 Chlorobenzene-d5	82	19.729	19.731	(1.000)	292968	30.0000	
84 Ethylbenzene	91	20.009	20.011	(1.014)	2195636	52.1019	49.14
85 m,p-Xylene	91	20.274	20.261	(1.028)	3232445	101.604	95.83
M 91 Xylene(total)	91				4951396	150.296	141.8
89 o-Xylene	91	20.877	20.865	(1.058)	1718951	52.1775	49.21(M)
* 106 1,4-Dichlorobenzene-d4	152	23.441	23.429	(1.000)	196665	30.0000	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BM.D
Report Date: 27-Jul-2006 12:10

QC Flag Legend

M - Compound response manually integrated.

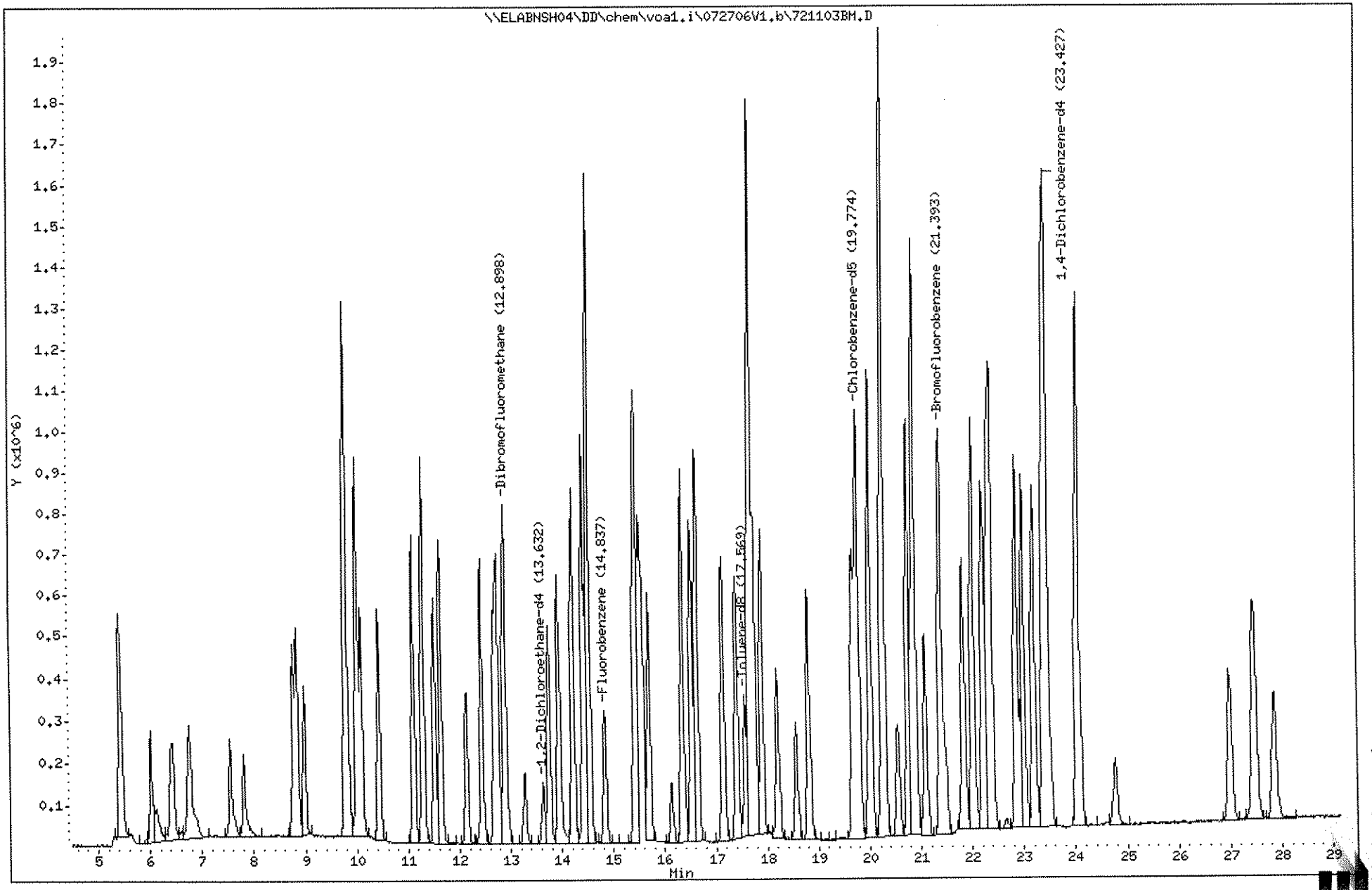
Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BM.D
Date : 27-JUL-2006 11:26
Client ID: 51CFM09S060725 MS
Sample Info: 0607211-03;;5.58;;;MS

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

000235



Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S0
60725 MSD

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 721103BS

Level: (low/med) LOW Date Sampled: 07/25/06 16:10

% Moisture: not dec. 5 Date Analyzed: 07/27/06 12:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.45	4.8	52	
100-41-4	Ethylbenzene	0.72	4.8	50	
108-88-3	Toluene	0.82	4.8	48	
1330-20-7	Xylene (total)	0.67	4.8	140	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BS.D
Report Date: 27-Jul-2006 12:55

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BS.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MSD
Inj Date : 27-JUL-2006 12:03 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : 0607211-03;;5.5;;;MSD
Misc Info : ch2.v07211;3;MSD;;;btexm.sub;#4928
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: btex.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.500	Weight of sample extracted (g)
Solids	95.000	Percent Solids

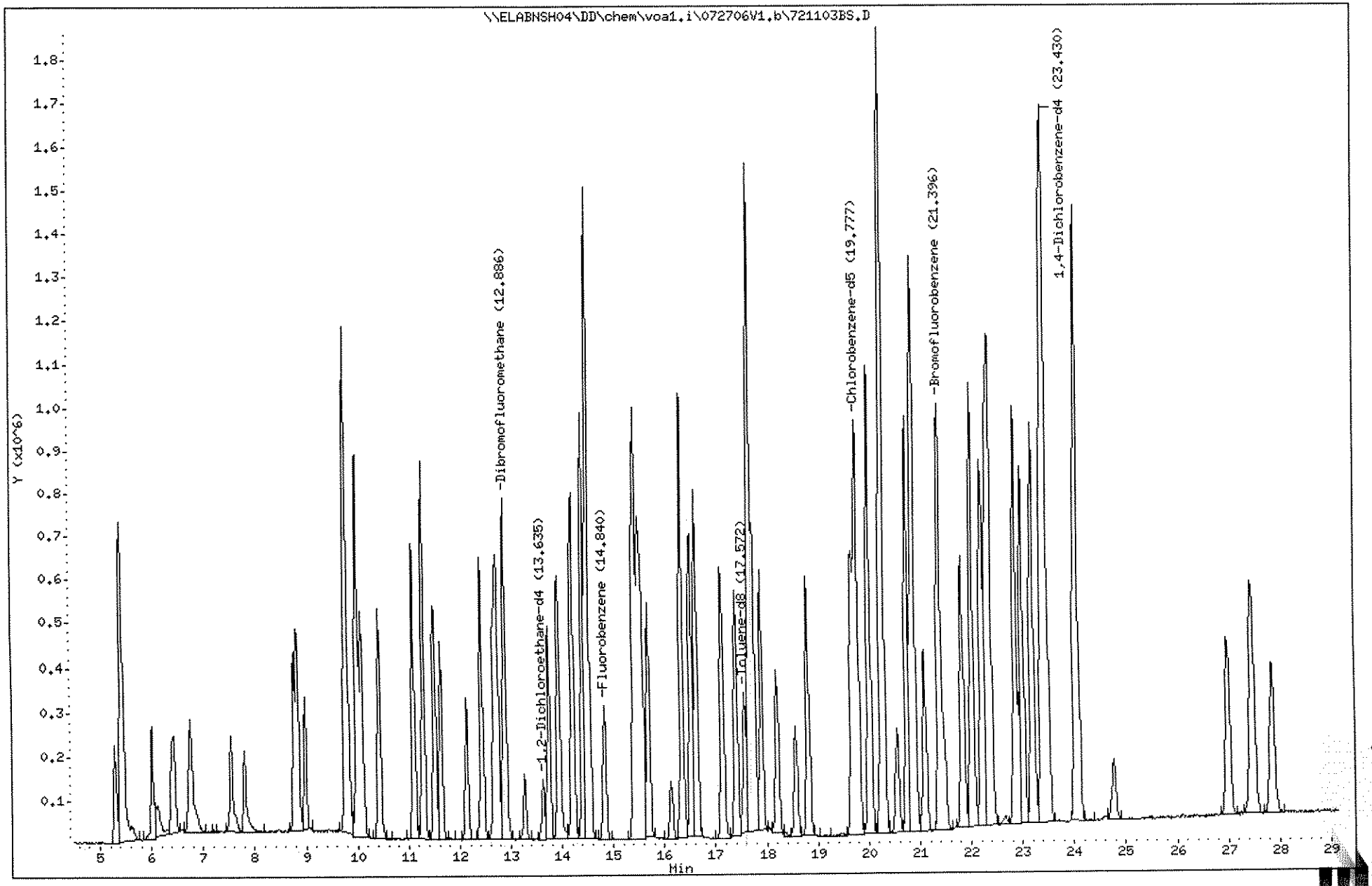
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.839	14.839	(1.000)	544888	30.0000	
$ 44 Dibromofluoromethane	111	12.929	12.930	(0.871)	148418	29.8496	28.56
54 Benzene	78	14.531	14.530	(0.979)	1915050	54.9473	52.58
$ 48 1,2-Dichloroethane-d4	102	13.634	13.634	(0.919)	39099	29.1913	27.93
$ 73 Toluene-d8	98	17.571	17.556	(0.890)	511289	30.0717	28.78
74 Toluene	92	17.675	17.674	(0.896)	1110218	50.7518	48.57
$ 95 Bromofluorobenzene	95	21.484	21.483	(1.089)	225399	30.5431	29.23
* 82 Chlorobenzene-d5	82	19.733	19.731	(1.000)	279046	30.0000	
84 Ethylbenzene	91	20.012	20.011	(1.014)	2098138	52.2723	50.02
85 m,p-Xylene	91	20.277	20.261	(1.028)	3044582	100.473	96.15
M 91 Xylene(total)	91				4673710	148.945	142.5
89 o-Xylene	91	20.880	20.865	(1.058)	1629128	51.9182	49.68
* 106 1,4-Dichlorobenzene-d4	152	23.444	23.429	(1.000)	193464	30.0000	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\721103BS.D
Date : 27-JUL-2006 12:03
Client ID: 51CFM09S060725 MSD
Sample Info: 0607211-03;;5.5;;;MSD

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX



000238

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0726LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0726LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/26/06 13:53

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0	51	
100-41-4	Ethylbenzene	0.75	5.0	52	
108-88-3	Toluene	0.86	5.0	48	
1330-20-7	Xylene(total)	0.70	5.0	150	

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1LCS01.D
Report Date: 27-Jul-2006 06:10

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1LCS01.D
Lab Smp Id: V1BLK0726LCS Client Smp ID: V1BLK0726LCS
Inj Date : 26-JUL-2006 13:53 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0726LCS;;;;;
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4964
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072606V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 06:10 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.846	14.847	(1.000)	570130	30.0000	
1 Dichlorodifluoromethane	85	6.019	6.019	(0.405)	629628	53.1488	53.15(M)
4 Chloromethane	50	6.446	6.446	(0.434)	757620	51.1025	51.10
5 Vinyl chloride	62	6.770	6.770	(0.456)	668944	54.4690	54.47
6 Bromomethane	94	7.551	7.551	(0.509)	340170	48.6317	48.63
7 Chloroethane	64	7.816	7.816	(0.526)	401930	51.3599	51.36
9 Trichlorofluoromethane	101	8.847	8.847	(0.596)	731415	52.5016	52.50
21 Trichlorotrifluoroethane	101	10.099	10.099	(0.680)	435196	48.4223	48.42
8 Acrolein	56	8.773	8.774	(0.591)	653662	273.322	273.3
12 Acetone	43	8.994	8.995	(0.606)	781404	113.591	113.6
15 1,1-Dichloroethene	96	9.775	9.775	(0.658)	426469	52.5777	52.58
16 Iodomethane	142	9.849	9.849	(0.663)	473438	48.3416	48.34
17 Acrylonitrile	53	9.790	9.805	(0.659)	922925	253.977	254.0(M)
20 Methylene chloride	84	10.010	10.011	(0.674)	612596	58.9356	58.94
25 Carbon disulfide	76	10.437	10.452	(0.703)	1615832	47.1178	47.12

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1LCS01.D
Report Date: 27-Jul-2006 06:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.113	11.113	(0.749)	505469	53.9046	53.90
	29 MTBE	73	11.304	11.305	(0.761)	1476754	50.2986	50.30
	30 1,1-Dichloroethane	63	11.524	11.525	(0.776)	1032773	51.9630	51.96
	32 Vinyl acetate	43	11.642	11.643	(0.784)	2810761	97.1225	97.12
	35 2-Butanone	43	12.156	12.142	(0.819)	926084	103.005	103.0
	38 cis-1,2-Dichloroethene	96	12.450	12.451	(0.839)	532109	52.9852	52.98
M	18 1,2-Dichloroethene(total)	96				1037578	106.858	106.8
	41 Bromochloromethane	128	12.700	12.686	(0.855)	249256	54.9743	54.97
	42 Chloroform	83	12.759	12.760	(0.859)	909749	51.1958	51.20
	43 2,2-Dichloropropane	77	12.891	12.892	(0.868)	839281	53.6079	53.61
$	44 Dibromofluoromethane	111	12.935	12.936	(0.871)	153109	29.4296	29.43
	22 Methyl acetate	43	10.025	10.026	(0.675)	505823	57.7125	57.71
	47 Tetrahydrofuran	42	13.273	13.289	(0.894)	216356	49.7890	49.79
	52 Cyclohexane	56	14.434	14.436	(0.972)	974087	48.5288	48.53
$	48 1,2-Dichloroethane-d4	102	13.640	13.641	(0.919)	41192	29.3922	29.39(Q)
	49 1,2-Dichloroethane	62	13.758	13.759	(0.927)	862569	54.5760	54.58
	50 1,1,1-Trichloroethane	97	13.949	13.950	(0.940)	755537	54.1704	54.17
	51 1,1-Dichloropropene	75	14.228	14.230	(0.958)	760134	52.9224	52.92
	53 Carbon tetrachloride	117	14.522	14.524	(0.978)	557085	52.4623	52.46
	54 Benzene	78	14.537	14.538	(0.979)	1872139	51.3379	51.34
	58 Dibromomethane	93	15.419	15.420	(1.039)	336422	54.5791	54.58
	59 1,2-Dichloropropane	63	15.448	15.450	(1.041)	572817	52.0079	52.01
	60 Trichloroethene	95	15.522	15.523	(1.046)	516183	53.9715	53.97
	61 Bromodichloromethane	83	15.595	15.597	(1.050)	734770	57.0571	57.06
	62 Methyl methacrylate	41	15.713	15.715	(1.058)	666444	53.0930	53.09
	68 cis-1,3-Dichloropropene	75	16.536	16.538	(1.114)	908761	53.5797	53.58
	70 4-Methyl-2-pentanone	43	16.639	16.641	(1.121)	1512891	103.752	103.8
	71 trans-1,3-Dichloropropene	75	17.139	17.141	(0.868)	800076	49.9650	49.96
	72 1,1,2-Trichloroethane	83	17.418	17.420	(0.882)	384545	51.3198	51.32
$	73 Toluene-d8	98	17.580	17.582	(0.890)	527490	29.6163	29.62
	74 Toluene	92	17.683	17.685	(0.896)	1113349	48.5846	48.58
	76 1,3-Dichloropropane	76	17.771	17.759	(0.900)	879208	51.5252	51.52
	75 Ethyl methacrylate	69	17.683	17.685	(0.896)	740288	49.9299	49.93
	77 2-Hexanone	43	17.904	17.906	(0.907)	1265987	106.951	107.0
	78 Dibromochloromethane	129	18.213	18.200	(0.923)	478800	56.0740	56.07
	79 1,2-Dibromoethane	107	18.566	18.568	(0.940)	470798	53.5980	53.60
	65 Methyl cyclohexane	83	16.360	16.361	(1.102)	844122	50.1324	50.13
	80 Tetrachloroethene	166	18.816	18.818	(0.953)	438964	51.5750	51.57
	81 1,1,1,2-Tetrachloroethane	131	19.683	19.686	(0.997)	415899	52.4184	52.42
*	82 Chlorobenzene-d5	82	19.742	19.730	(1.000)	292315	30.0000	
	83 Chlorobenzene	112	19.787	19.789	(1.002)	1157972	51.7019	51.70
	87 Bromoform	173	20.567	20.570	(0.877)	300293	54.1791	54.18
	84 Ethylbenzene	91	20.022	20.025	(1.014)	2167577	51.5510	51.55
	85 m,p-Xylene	91	20.272	20.275	(1.027)	3178984	100.146	100.1
M	91 Xylene(total)	91				4855708	147.721	147.7
	89 o-Xylene	91	20.876	20.879	(1.057)	1676724	51.0094	51.01
	88 Styrene	104	20.758	20.761	(1.051)	1332005	50.8739	50.87

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1LCS01.D
Report Date: 27-Jul-2006 06:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.906	20.894	(0.892)	609726	51.1575	51.16
	92 1,2,3-Trichloropropane	110	21.097	21.100	(1.069)	186982	52.7414	52.74
	94 Isopropylbenzene	105	21.392	21.395	(1.084)	1868786	48.0679	48.07
$	95 Bromofluorobenzene	95	21.480	21.483	(1.088)	236320	30.5693	30.57
	96 Bromobenzene	156	21.849	21.837	(0.932)	445473	51.8954	51.90
	97 n-Propylbenzene	91	22.026	22.029	(0.940)	2581231	51.9851	51.98
	98 2-Chlorotoluene	91	22.232	22.235	(0.948)	1704854	53.7559	53.76
	99 4-Chlorotoluene	91	22.335	22.339	(0.953)	1833897	51.6922	51.69
	100 1,3,5-Trimethylbenzene	105	22.394	22.398	(0.955)	1556998	51.1179	51.12
	102 tert-Butylbenzene	119	22.881	22.884	(0.976)	1382810	51.8598	51.86
	103 1,2,4-Trimethylbenzene	105	23.014	23.003	(0.982)	1569930	51.1800	51.18
	104 sec-Butylbenzene	105	23.206	23.209	(0.990)	2239880	51.8154	51.82
	105 1,3-Dichlorobenzene	146	23.412	23.401	(0.999)	948638	56.8956	56.90
*	106 1,4-Dichlorobenzene-d4	152	23.442	23.445	(1.000)	196574	30.0000	
	108 1,4-Dichlorobenzene	146	23.486	23.490	(1.002)	906154	52.5084	52.51(M)
	107 p-Isopropyltoluene	119	23.442	23.431	(1.000)	1591950	49.0995	49.10
	109 1,2-Dichlorobenzene	146	24.076	24.065	(1.027)	759956	51.0593	51.06
	110 n-Butylbenzene	91	24.061	24.065	(1.026)	1747220	50.9058	50.90
	111 1,2-Dibromo-3-chloropropane	157	24.784	24.788	(1.057)	109167	52.9182	52.92
	112 1,2,4-Trichlorobenzene	180	27.011	27.016	(1.152)	527877	52.1947	52.19
	113 Naphthalene	128	27.469	27.459	(1.172)	1399609	49.0042	49.00
	114 Hexachlorobutadiene	225	27.513	27.504	(1.174)	270964	51.6681	51.67
	115 1,2,3-Trichlorobenzene	180	27.868	27.873	(1.189)	495962	52.2597	52.26

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\072606V1.b\V1LCS01.D
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Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

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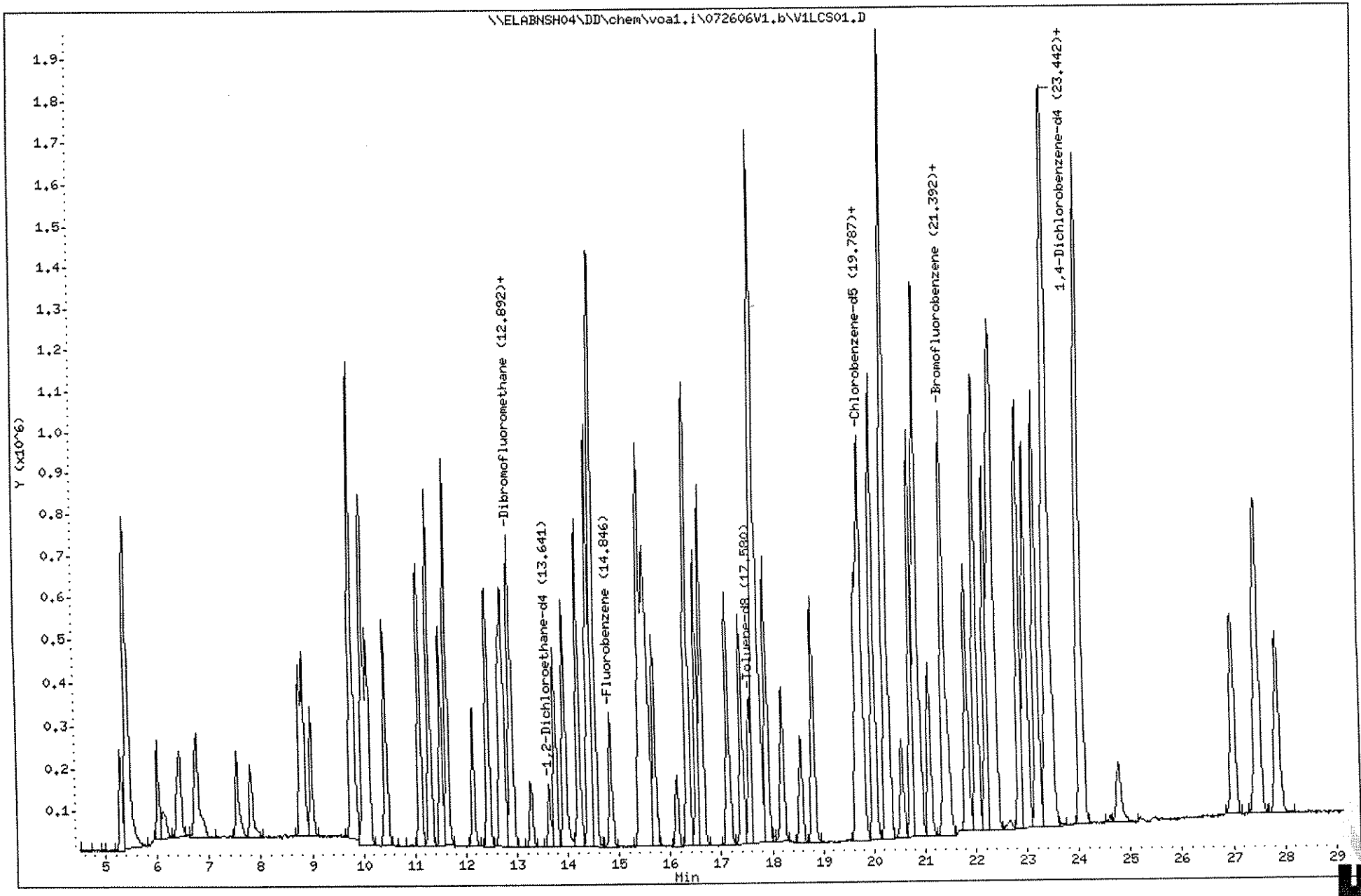

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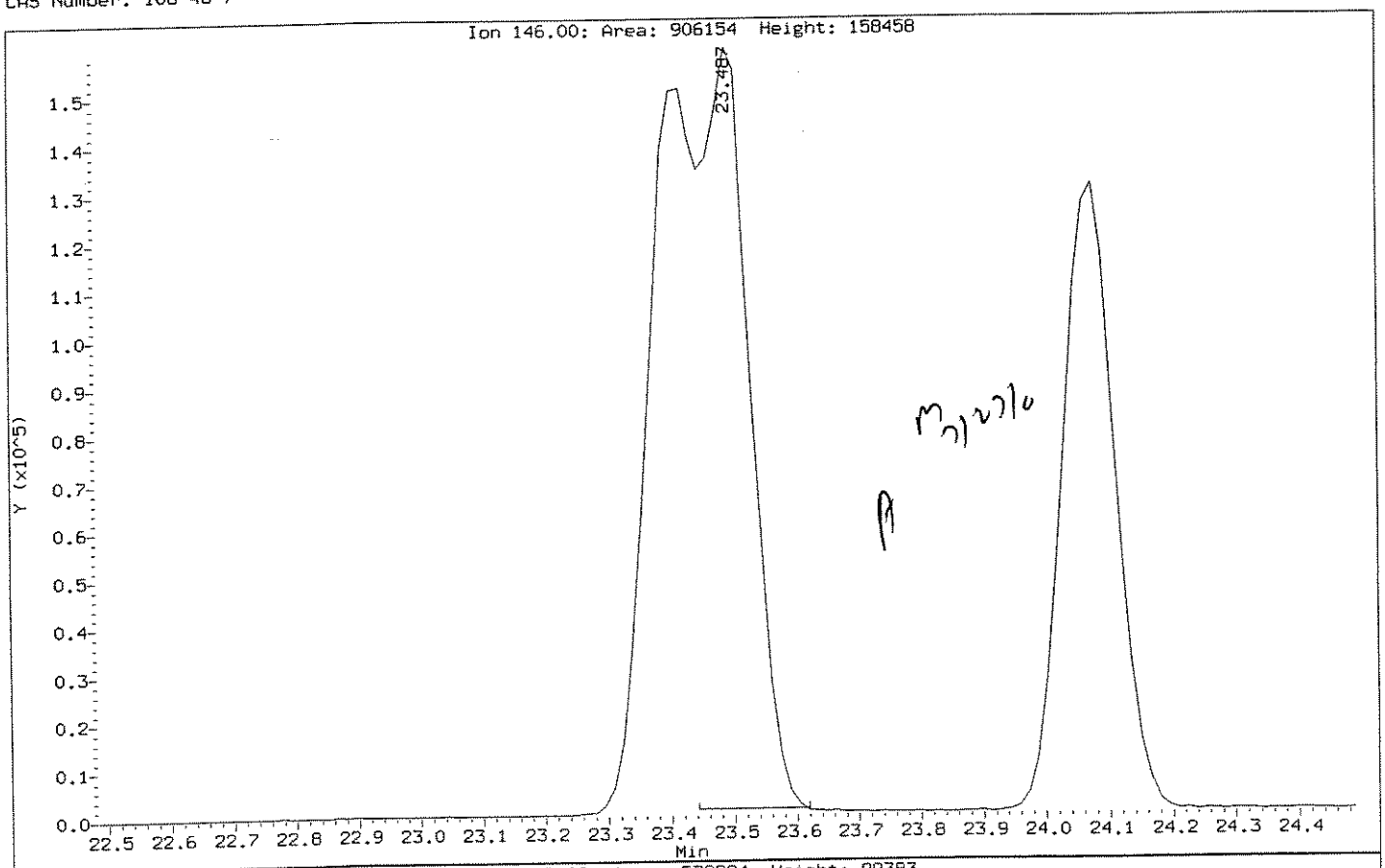
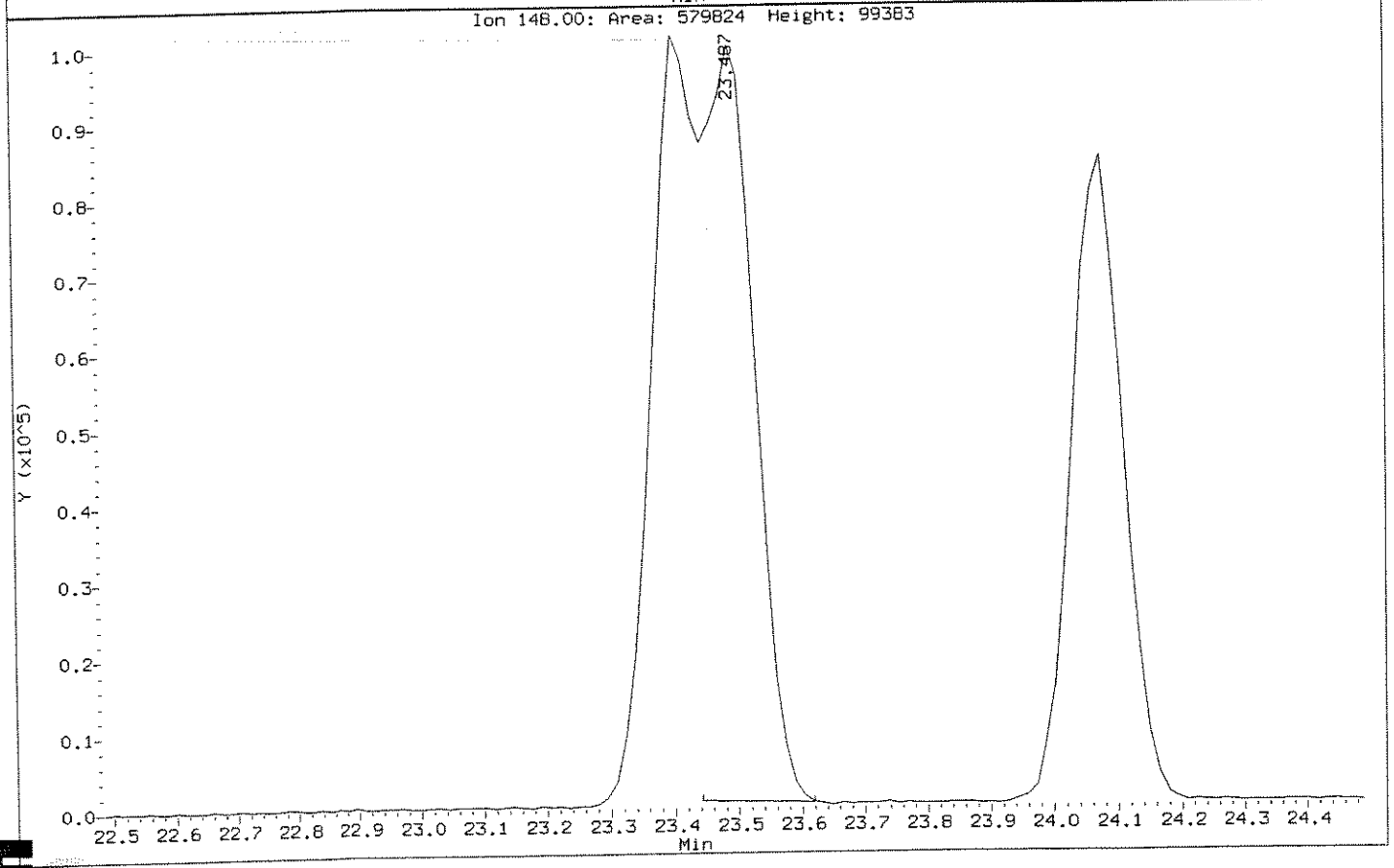
Injection Date: 26-JUL-2006 13:53
Instrument: voa1.i
Client Sample ID: V1BLK0726LCS

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7





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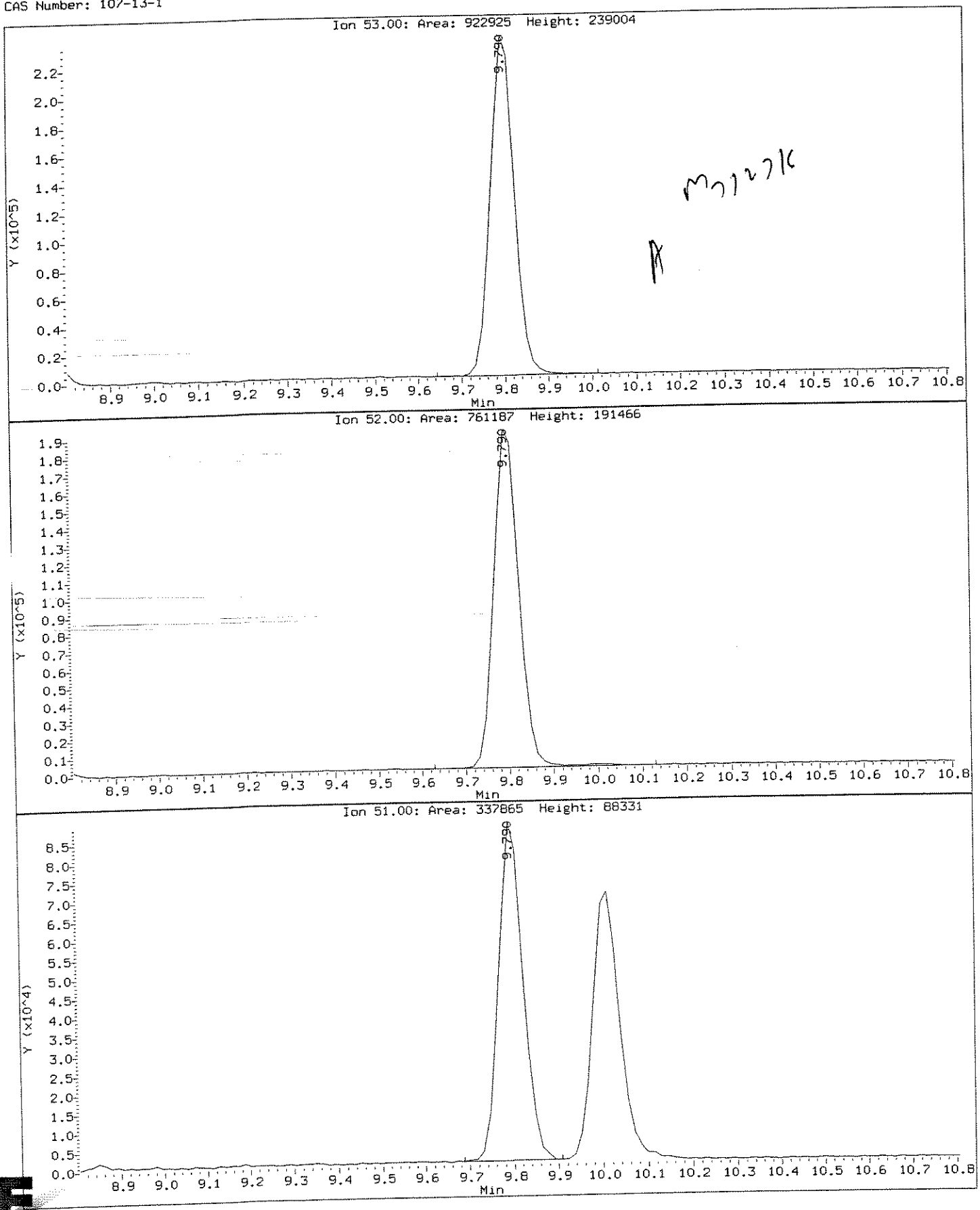
Instrument: voa1.i
Client Sample ID: V1BLK0726LCS

Compound: Acrylonitrile
CAS Number: 107-13-1



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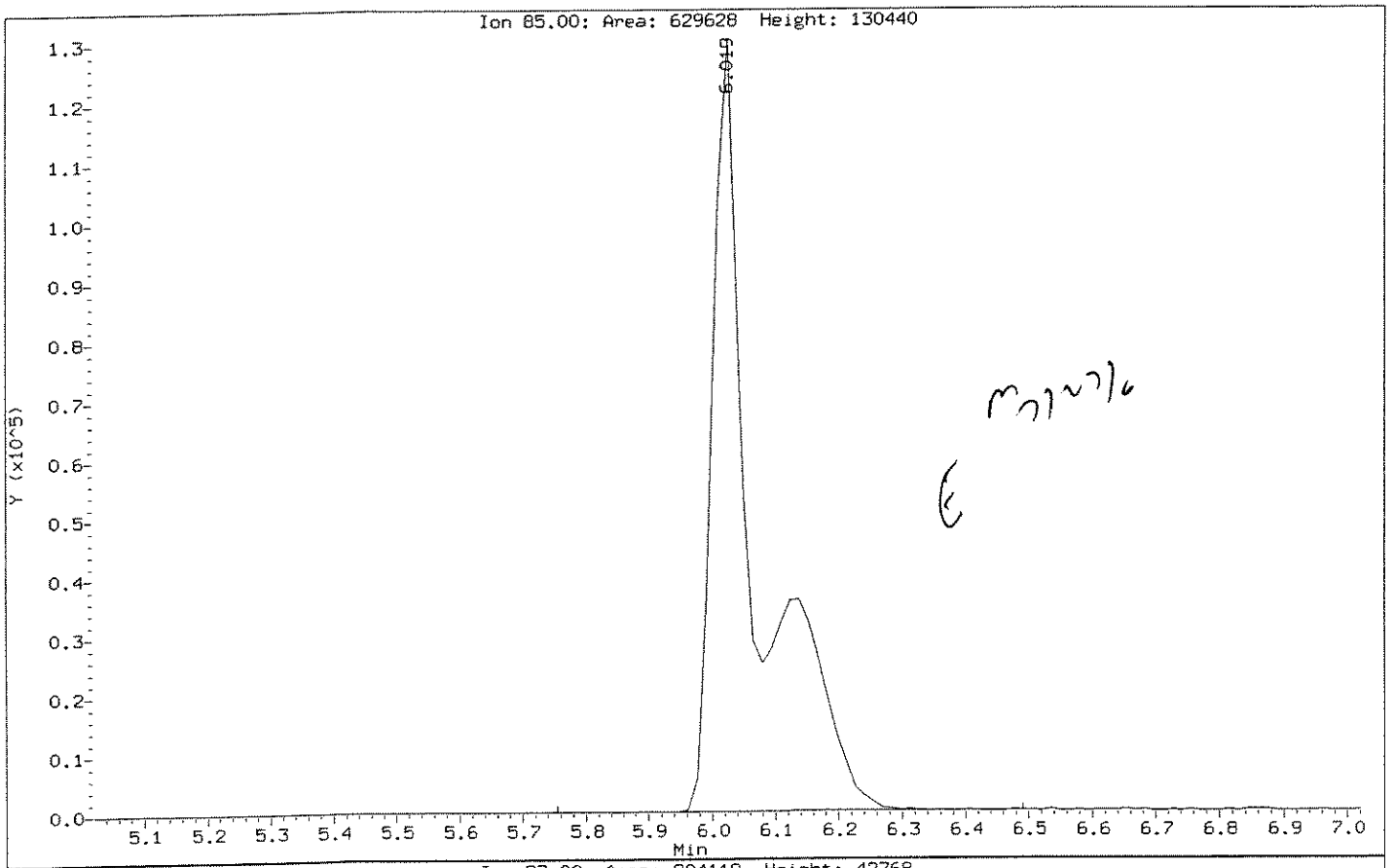
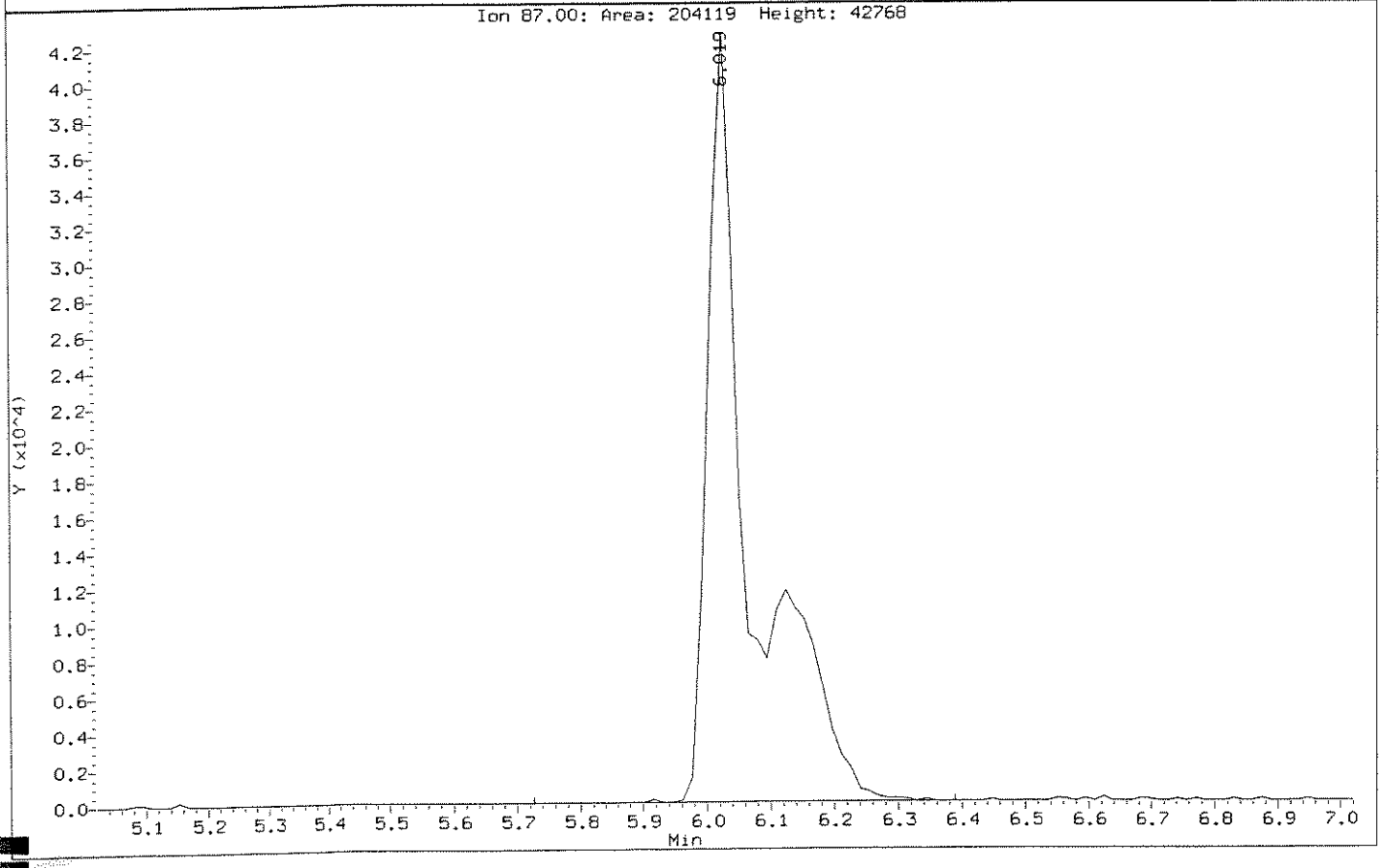
Injection Date: 26-JUL-2006 13:53
Instrument: voa1.i
Client Sample ID: V1BLK0726LCS

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8





Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1PBLK0727LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) SOIL Lab Sample ID: V1PBLK0727LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 07/27/06 06:52

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.47	5.0	56	
100-41-4	Ethylbenzene	0.75	5.0	56	
108-88-3	Toluene	0.86	5.0	54	
1330-20-7	Xylene(total)	0.70	5.0	160	

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Report Date: 27-Jul-2006 11:31

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Lab Smp Id: V1BLK0727LCS Client Smp ID: V1PBLK0727LCS
Inj Date : 27-JUL-2006 06:52 MS Autotune Date: 08-JUN-2006 15:19
Operator : ADM Inst ID: voa1.i
Smp Info : V1BLK0727LCS;;;;;
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4964
Comment :
Method : \\ELABNSH04\DD\chem\voa1.i\072706V1.b\VSOIL1.m
Meth Date : 27-Jul-2006 11:28 amonteiro Quant Type: ISTD
Cal Date : 18-JUL-2006 14:19 Cal File: V1STD01.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
* 56 Fluorobenzene	96	14.842	14.839	(1.000)	522021	30.0000	
1 Dichlorodifluoromethane	85	6.003	6.019	(0.405)	657692	60.6343	60.63(M)
4 Chloromethane	50	6.416	6.416	(0.432)	731778	53.9083	53.91
5 Vinyl chloride	62	6.754	6.769	(0.455)	668450	59.4449	59.44
6 Bromomethane	94	7.534	7.549	(0.508)	357825	55.8703	55.87(M)
7 Chloroethane	64	7.799	7.814	(0.525)	403182	56.2679	56.27
9 Trichlorofluoromethane	101	8.830	8.844	(0.595)	741386	58.1218	58.12
21 Trichlorotrifluoroethane	101	10.096	10.095	(0.680)	439820	53.4468	53.45
8 Acrolein	56	8.771	8.771	(0.591)	569785	260.206	260.2
12 Acetone	43	8.977	8.977	(0.605)	857542	136.574	136.6
15 1,1-Dichloroethene	96	9.772	9.771	(0.658)	432252	58.2018	58.20
16 Iodomethane	142	9.831	9.845	(0.662)	530037	59.1085	59.11
17 Acrylonitrile	53	9.787	9.786	(0.659)	790629	237.622	237.6
20 Methylene chloride	84	9.993	10.007	(0.673)	542985	56.8079	56.81
25 Carbon disulfide	76	10.435	10.434	(0.703)	1613644	51.3905	51.39

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Report Date: 27-Jul-2006 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	27 trans-1,2-Dichloroethene	96	11.095	11.109	(0.748)	496510	57.8290	57.83
	29 MTBE	73	11.287	11.285	(0.760)	1382694	51.4351	51.44
	30 1,1-Dichloroethane	63	11.507	11.520	(0.775)	1040936	57.2005	57.20
	32 Vinyl acetate	43	11.625	11.638	(0.783)	2672331	100.849	100.8
	35 2-Butanone	43	12.138	12.137	(0.818)	946425	114.969	115.0
	38 cis-1,2-Dichloroethene	96	12.432	12.445	(0.838)	522388	56.8111	56.81
M	18 1,2-Dichloroethene(total)	96				1018898	114.605	114.6
	41 Bromochloromethane	128	12.682	12.680	(0.854)	234898	56.5821	56.58
	42 Chloroform	83	12.741	12.753	(0.858)	917978	56.4197	56.42
	43 2,2-Dichloropropane	77	12.888	12.886	(0.868)	831047	57.9740	57.97
$	44 Dibromofluoromethane	111	12.932	12.930	(0.871)	138200	29.0120	29.01
	22 Methyl acetate	43	10.008	10.022	(0.674)	394971	49.2178	49.22
	47 Tetrahydrofuran	42	13.270	13.267	(0.894)	182736	45.9277	45.93
	52 Cyclohexane	56	14.416	14.428	(0.971)	983914	53.5359	53.54
$	48 1,2-Dichloroethane-d4	102	13.637	13.634	(0.919)	36646	28.5583	28.56
	49 1,2-Dichloroethane	62	13.754	13.752	(0.927)	819863	56.6546	56.65
	50 1,1,1-Trichloroethane	97	13.931	13.943	(0.939)	750925	58.8016	58.80
	51 1,1-Dichloropropene	75	14.210	14.222	(0.957)	765352	58.1965	58.20
	53 Carbon tetrachloride	117	14.504	14.516	(0.977)	563002	57.9057	57.90
	54 Benzene	78	14.519	14.530	(0.978)	1885425	56.4670	56.47
	58 Dibromomethane	93	15.400	15.411	(1.038)	310223	54.9670	54.97
	59 1,2-Dichloropropane	63	15.444	15.441	(1.041)	570425	56.5637	56.56
	60 Trichloroethene	95	15.518	15.529	(1.046)	524018	59.8402	59.84
	61 Bromodichloromethane	83	15.577	15.588	(1.049)	713389	60.5021	60.50
	62 Methyl methacrylate	41	15.694	15.691	(1.057)	587034	51.0767	51.08
	68 cis-1,3-Dichloropropene	75	16.532	16.528	(1.114)	874261	56.2960	56.30
	70 4-Methyl-2-pentanone	43	16.620	16.631	(1.120)	1329760	99.5975	99.60
	71 trans-1,3-Dichloropropene	75	17.134	17.130	(0.869)	769334	52.3826	52.38
	72 1,1,2-Trichloroethane	83	17.398	17.395	(0.882)	364778	53.0767	53.08
$	73 Toluene-d8	98	17.560	17.556	(0.890)	477118	29.2066	29.21
	74 Toluene	92	17.663	17.674	(0.896)	1133019	53.9067	53.91
	76 1,3-Dichloropropane	76	17.752	17.748	(0.900)	815641	52.1153	52.12
	75 Ethyl methacrylate	69	17.678	17.674	(0.896)	655651	48.2138	48.21
	77 2-Hexanone	43	17.899	17.895	(0.908)	1280755	117.967	118.0
	78 Dibromochloromethane	129	18.193	18.189	(0.922)	447318	57.1165	57.12
	79 1,2-Dibromoethane	107	18.560	18.556	(0.941)	432631	53.6994	53.70
	65 Methyl cyclohexane	83	16.341	16.352	(1.101)	826558	53.6133	53.61
	80 Tetrachloroethene	166	18.810	18.806	(0.954)	434121	55.6108	55.61
	81 1,1,1,2-Tetrachloroethane	131	19.663	19.673	(0.997)	409593	56.2842	56.28
*	82 Chlorobenzene-d5	82	19.722	19.731	(1.000)	268110	30.0000	
	83 Chlorobenzene	112	19.781	19.776	(1.003)	1142483	55.6155	55.62
	87 Bromoform	173	20.561	20.556	(0.877)	276871	53.9741	53.97
	84 Ethylbenzene	91	20.016	20.011	(1.015)	2164420	56.1232	56.12
	85 m,p-Xylene	91	20.266	20.261	(1.028)	3228335	110.883	110.9
M	91 Xylene(total)	91				4896493	162.410	162.4
	89 o-Xylene	91	20.870	20.865	(1.058)	1668158	55.3305	55.33
	88 Styrene	104	20.752	20.762	(1.052)	1343532	55.9468	55.95

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Report Date: 27-Jul-2006 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	90 1,1,2,2-Tetrachloroethane	83	20.885	20.894	(0.891)	562998	51.0391	51.04
	92 1,2,3-Trichloropropane	110	21.091	21.086	(1.069)	161140	49.5556	49.56
	94 Isopropylbenzene	105	21.385	21.380	(1.084)	1888970	52.9735	52.97
$	95 Bromofluorobenzene	95	21.474	21.483	(1.089)	216091	30.4761	30.48
	96 Bromobenzene	156	21.842	21.837	(0.932)	429322	54.0397	54.04
	97 n-Propylbenzene	91	22.019	22.014	(0.940)	2606470	56.7188	56.72
	98 2-Chlorotoluene	91	22.225	22.220	(0.948)	1446721	49.2885	49.29
	99 4-Chlorotoluene	91	22.329	22.323	(0.953)	1793489	54.6224	54.62
	100 1,3,5-Trimethylbenzene	105	22.388	22.382	(0.955)	1573208	55.8076	55.81
	102 tert-Butylbenzene	119	22.874	22.869	(0.976)	1387755	56.2345	56.23
	103 1,2,4-Trimethylbenzene	105	22.992	23.001	(0.981)	1622004	57.1339	57.13
	104 sec-Butylbenzene	105	23.198	23.208	(0.990)	2281128	57.0172	57.02
	105 1,3-Dichlorobenzene	146	23.390	23.400	(0.998)	880732	57.0747	57.07
*	106 1,4-Dichlorobenzene-d4	152	23.434	23.429	(1.000)	181930	30.0000	
	108 1,4-Dichlorobenzene	146	23.479	23.473	(1.002)	867523	54.3162	54.32 (M)
	107 p-Isopropyltoluene	119	23.420	23.429	(0.999)	1622919	54.0836	54.08
	109 1,2-Dichlorobenzene	146	24.054	24.063	(1.026)	740303	53.7425	53.74
	110 n-Butylbenzene	91	24.054	24.063	(1.026)	1795093	56.5105	56.51
	111 1,2-Dibromo-3-chloropropane	157	24.776	24.786	(1.057)	92916	48.6661	48.67
	112 1,2,4-Trichlorobenzene	180	27.002	26.997	(1.152)	503128	53.7519	53.75
	113 Naphthalene	128	27.444	27.454	(1.171)	1239031	46.8739	46.87
	114 Hexachlorobutadiene	225	27.504	27.499	(1.174)	268180	55.2534	55.25
	115 1,2,3-Trichlorobenzene	180	27.858	27.853	(1.189)	470713	53.5915	53.59

QC Flag Legend

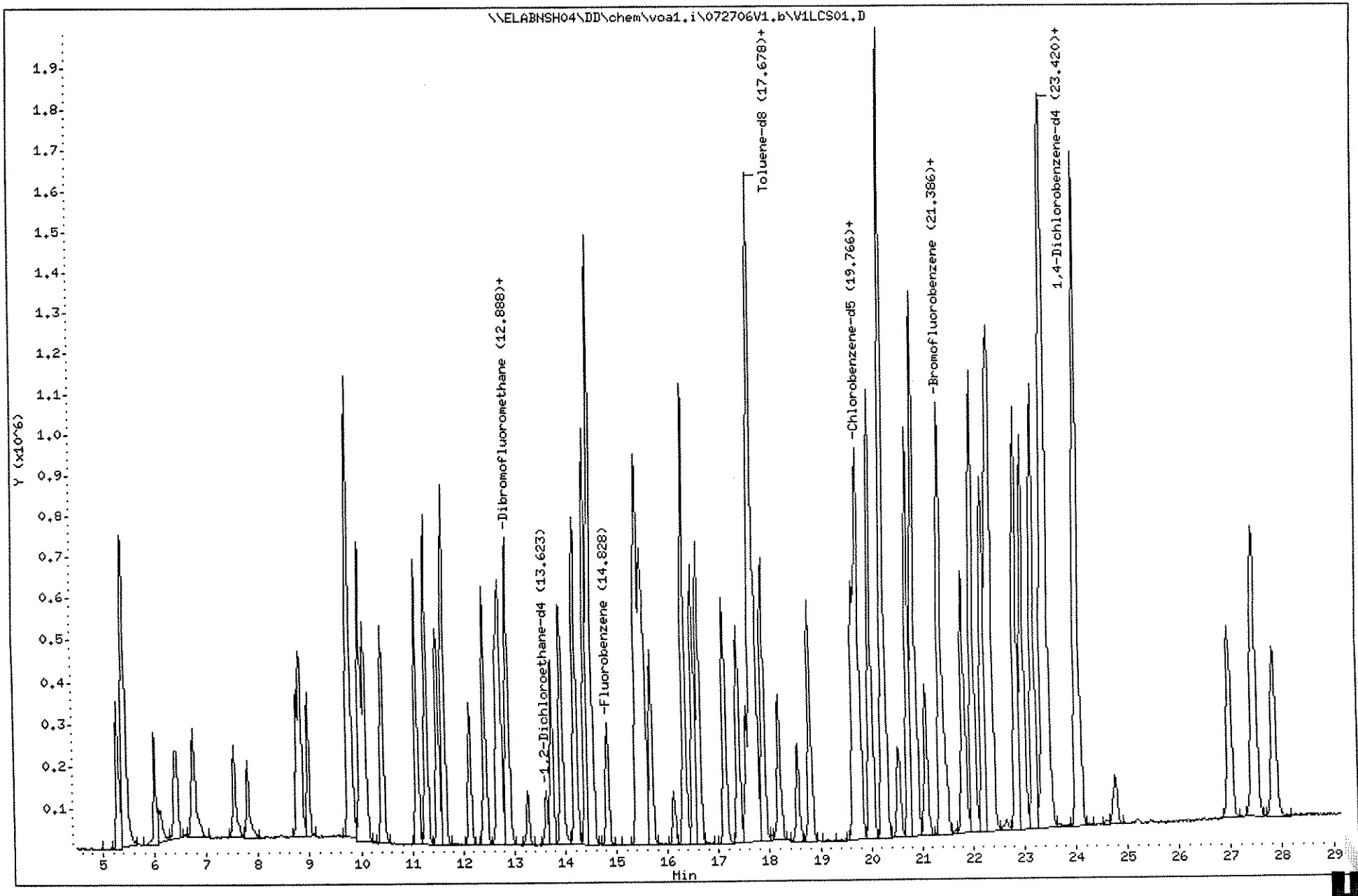
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Date : 27-JUL-2006 06:52
Client ID: V1PBLK0727LCS
Sample Info: V1BLK0727LCS;;;;;

Instrument: voa1.i

Operator: ADM
Column diameter: 0.25

Column phase: DB-VRX

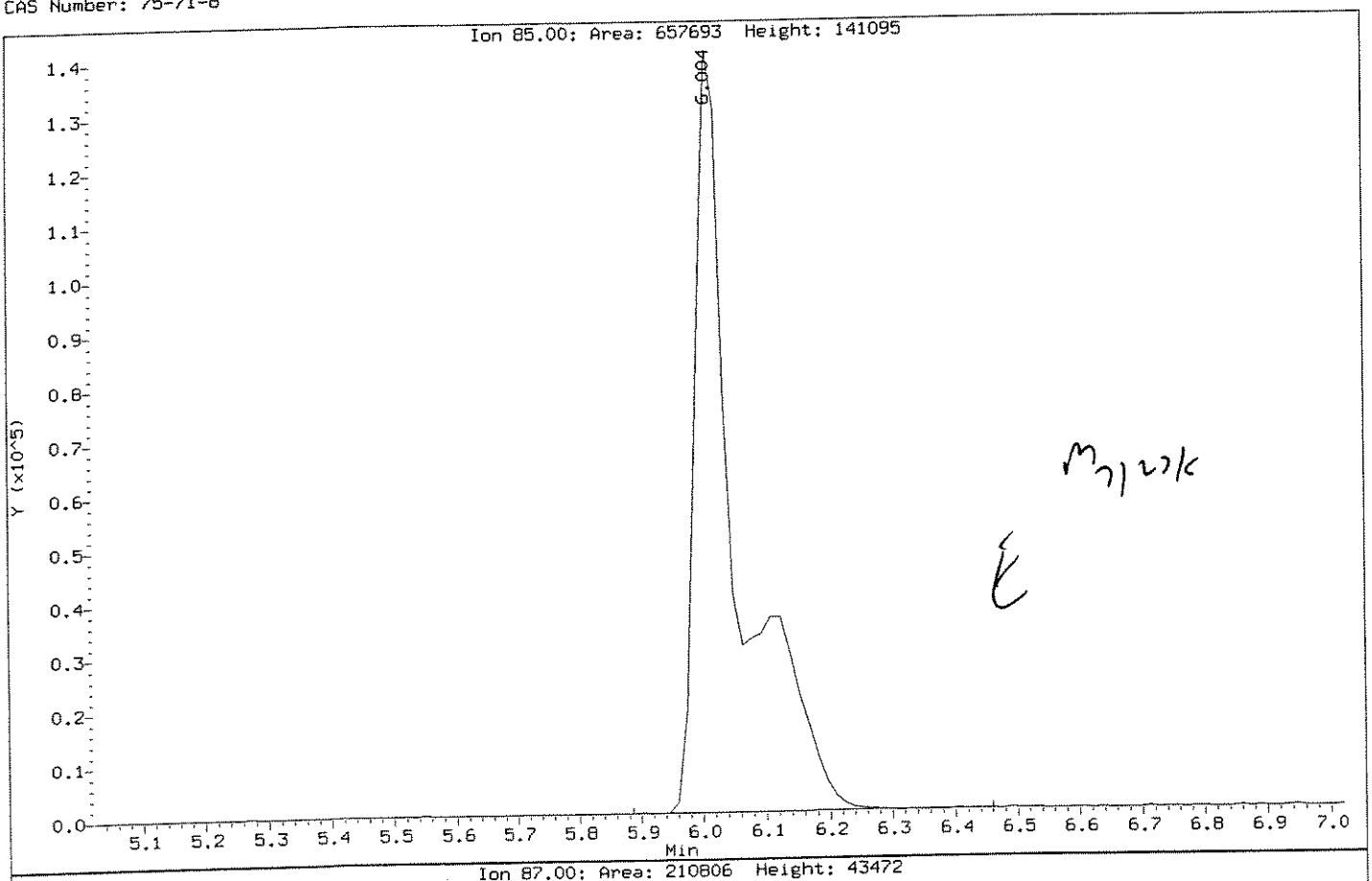


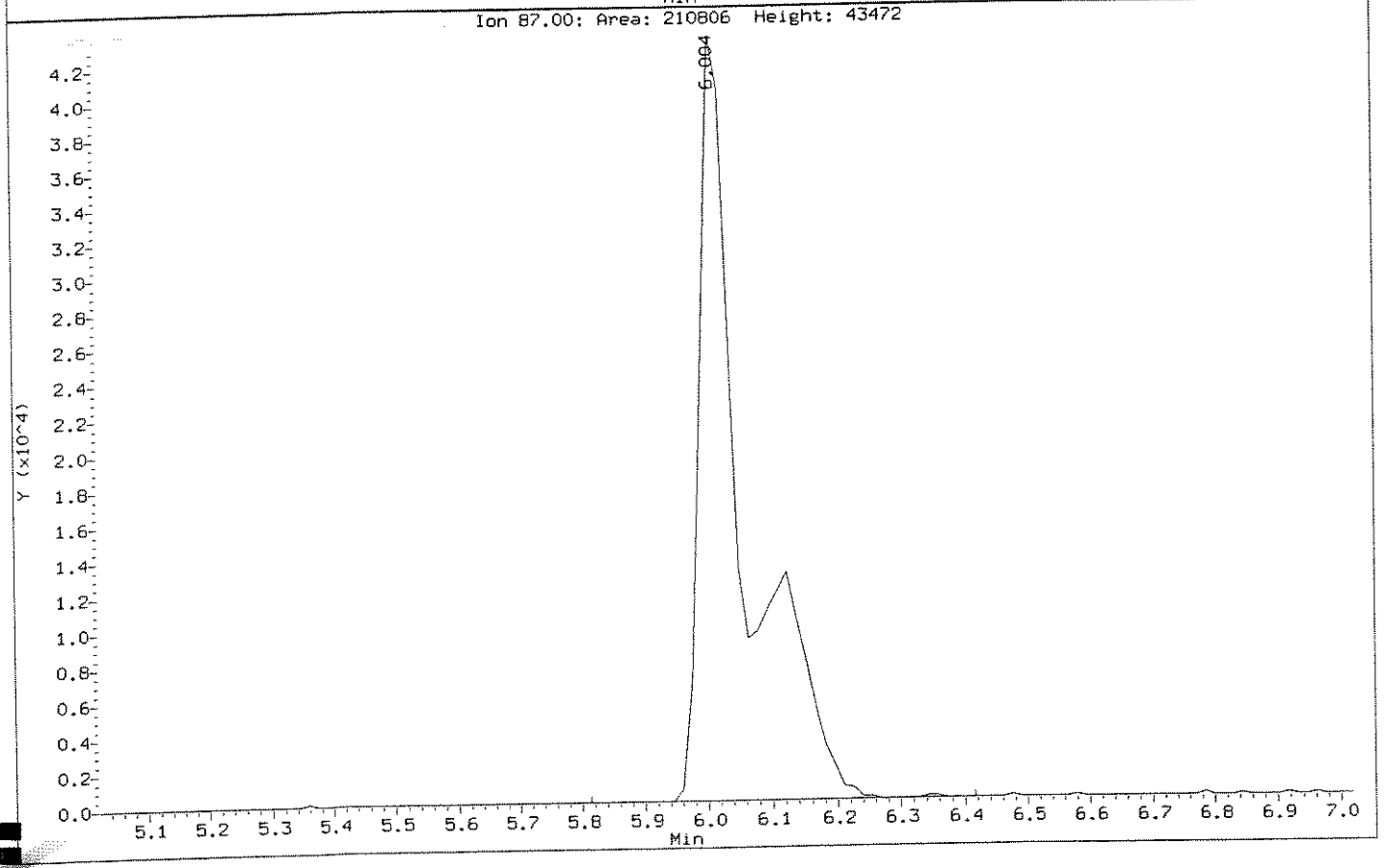
000251

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Injection Date: 27-JUL-2006 06:52
Instrument: voa1.i
Client Sample ID: V1PBLK0727LCS

Compound: Dichlorodifluoromethane
CAS Number: 75-71-8





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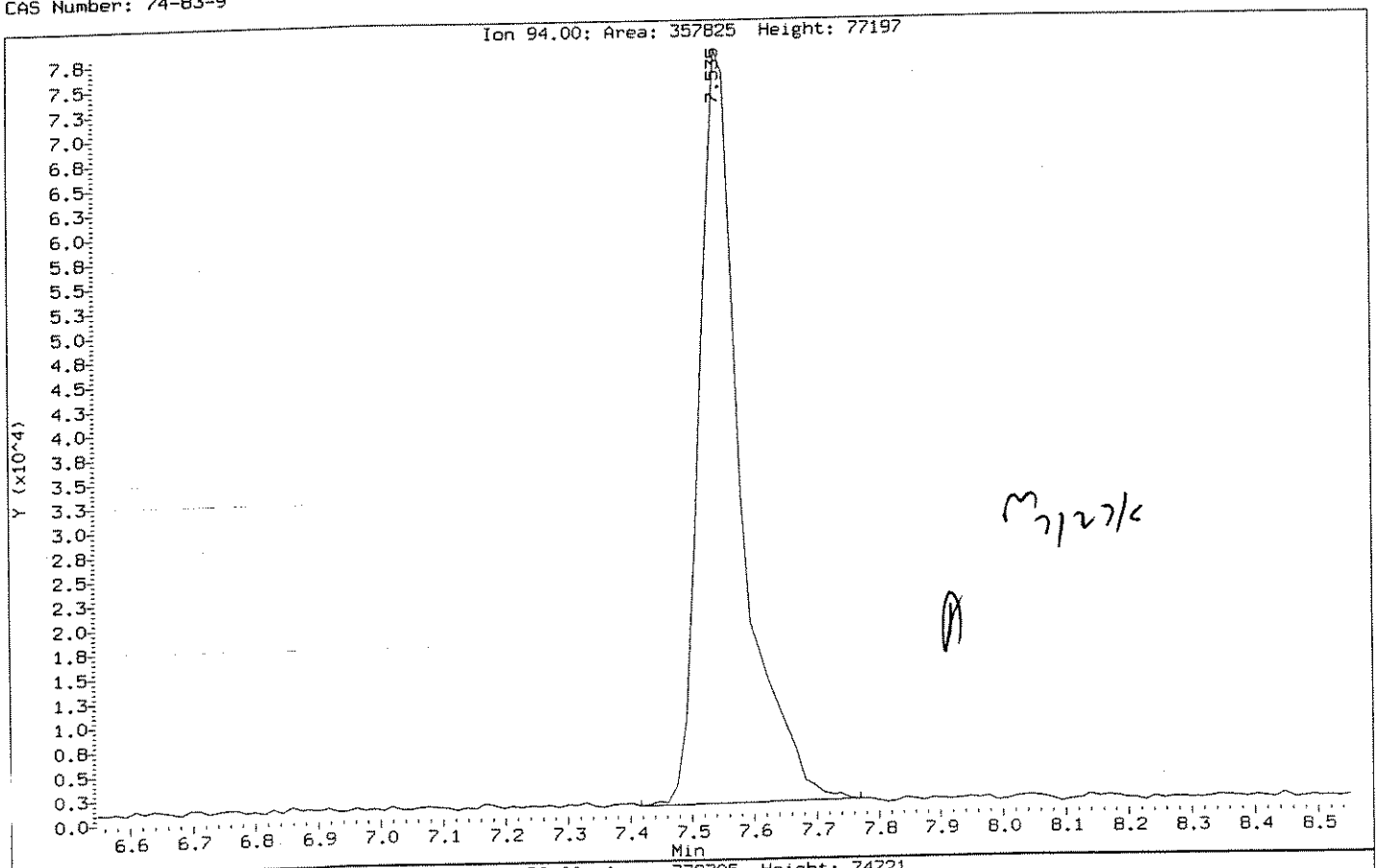
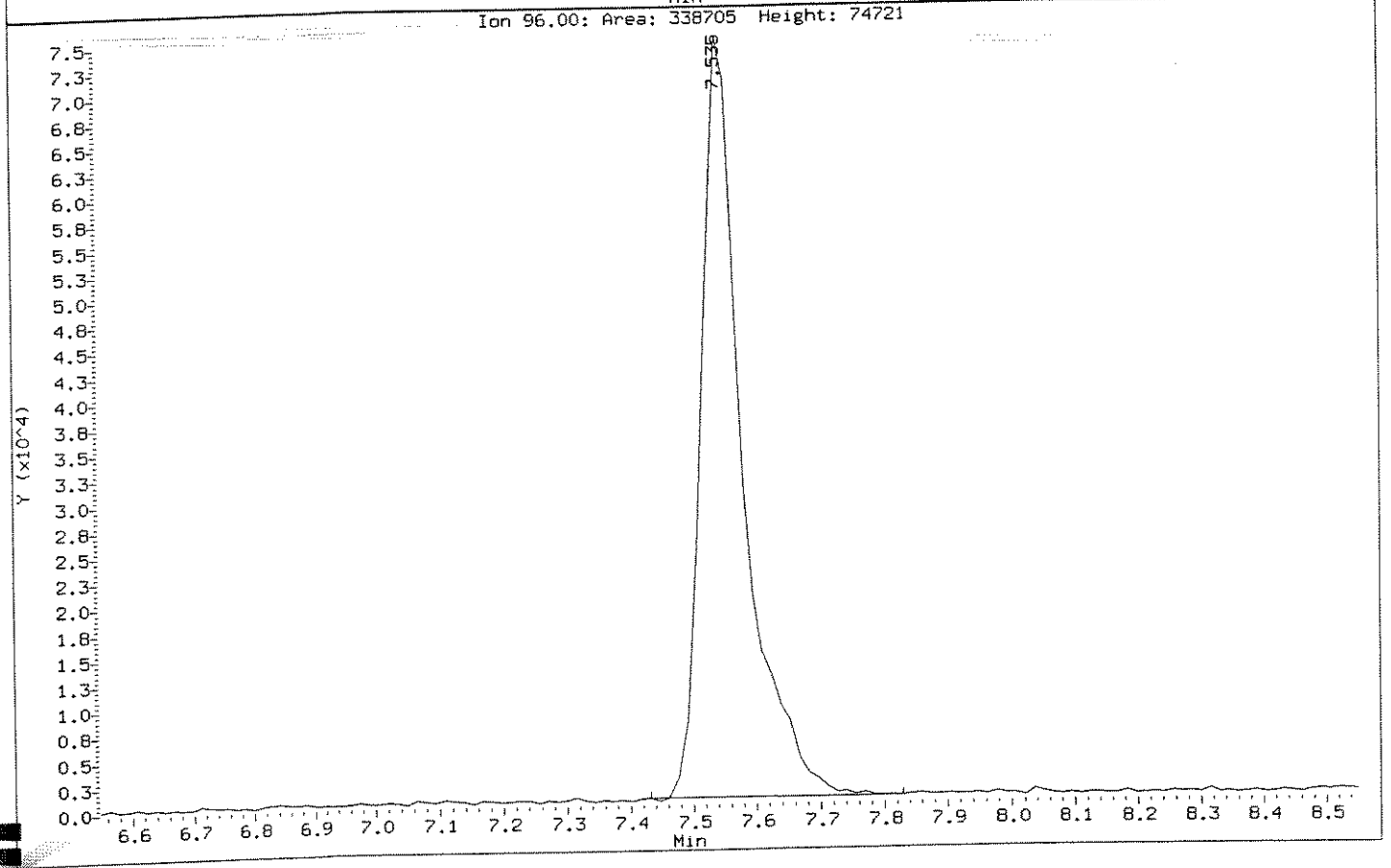
Injection Date: 27-JUL-2006 06:52
Instrument: voa1.i
Client Sample ID: V1PBLK0727LCS

Compound: Bromomethane
CAS Number: 74-83-9

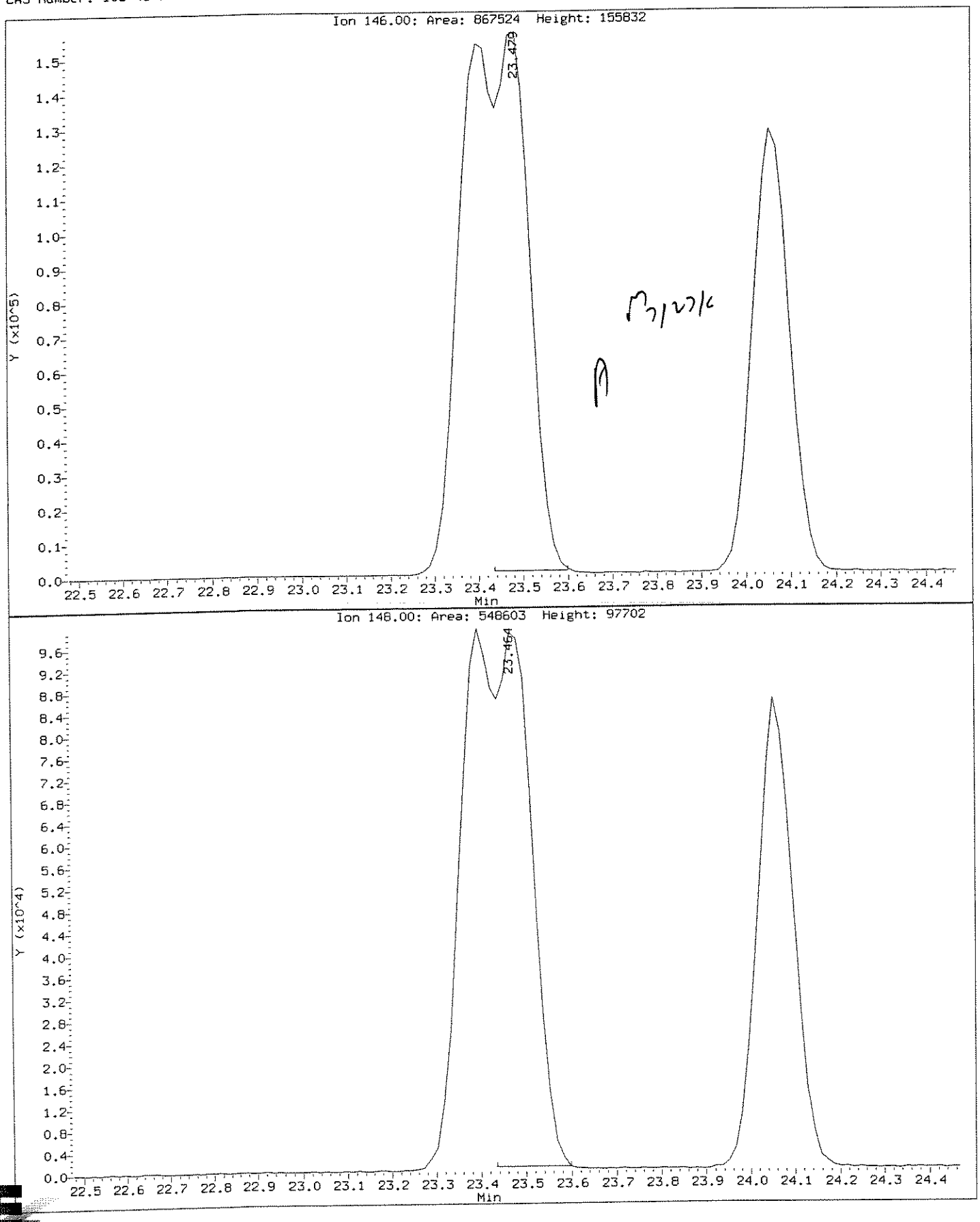




Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\voa1.i\072706V1.b\V1LCS01.D
Injection Date: 27-JUL-2006 06:52
Instrument: voa1.i
Client Sample ID: V1PBLK0727LCS

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0726LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07211

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0726LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3LCS01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/26/06 09:19

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0	53	
100-41-4	Ethylbenzene	0.35	1.0	54	
108-88-3	Toluene	0.16	1.0	47	
1330-20-7	Xylene(total)	0.47	1.0	160	

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3LCS01.D
Report Date: 26-Jul-2006 08:43

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3LCS01.D
Lab Smp Id: V3BLK0726LCS Client Smp ID: V3BLK0726LCS
Inj Date : 26-JUL-2006 09:19 MS Autotune Date: 13-JUL-2006 12:17
Operator : ADM Inst ID: voa3.i
Smp Info : V3BLK0726LCS;;;;;; 50 ppb
Misc Info : ;3;LCS;;;gm-all.sub;#4928,4964
Comment :
Method : \\ELABNSH04\DD\chem\voa3.i\072606V3.b\VWATER3.m
Meth Date : 26-Jul-2006 08:12 amonteiro Quant Type: ISTD
Cal Date : 19-JUL-2006 19:06 Cal File: V3STD01.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	13.356	13.362	(1.000)	567363	30.0000	
1 Dichlorodifluoromethane	85	3.805	3.811	(0.285)	292345	64.0063	64.01
2 Chloromethane	50	4.054	4.061	(0.304)	231216	57.0204	57.02
4 Vinyl chloride	62	4.304	4.310	(0.322)	211105	55.9089	55.91
7 Bromomethane	94	4.857	4.864	(0.364)	134545	54.9749	54.97
8 Chloroethane	64	5.070	5.071	(0.380)	116440	55.6893	55.69
11 Trichlorofluoromethane	101	5.952	5.959	(0.446)	421275	60.1874	60.19
25 Trichlorotrifluoroethane	101	7.327	7.340	(0.549)	195084	49.8747	49.87
10 Acrolein	56	5.892	5.892	(0.441)	132977	1715.63	1716(AR)
21 1,1-Dichloroethene	96	6.902	6.908	(0.517)	170096	53.2965	53.30
14 Acetone	43	6.105	6.105	(0.457)	142275	89.0842	89.08
22 Iodomethane	142	6.932	6.932	(0.519)	287000	53.0752	53.08
28 Carbon disulfide	76	7.583	7.589	(0.568)	547829	47.2914	47.29
24 Methylene chloride	84	7.181	7.188	(0.538)	194003	53.0510	53.05
23 Acrylonitrile	53	6.950	6.950	(0.520)	300489	242.155	242.2
31 trans-1,2-Dichloroethene	96	8.648	8.648	(0.647)	187518	50.1305	50.13

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3LCS01.D
Report Date: 26-Jul-2006 08:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	32 MTBE	73	9.019	9.025	(0.675)	535965	50.3380	50.34
	33 1,1-Dichloroethane	63	9.286	9.293	(0.695)	357028	54.4129	54.41
	36 Vinyl acetate	43	9.712	9.712	(0.727)	831312	108.263	108.3
	44 cis-1,2-Dichloroethene	96	10.825	10.826	(0.811)	203458	52.5824	52.58
M	29 1,2-Dichloroethene(total)	96				390977	102.754	102.8
	42 2-Butanone	43	10.491	10.485	(0.785)	160544	91.1932	91.19
	46 Bromochloromethane	128	11.117	11.118	(0.832)	117976	54.8200	54.82
	51 Tetrahydrofuran	42	11.835	11.836	(0.886)	46251	47.7472	47.75
	47 Chloroform	83	11.233	11.239	(0.841)	401839	53.5970	53.60
	26 Methyl acetate	43	7.254	7.261	(0.543)	134869	48.4704	48.47
$	49 Dibromofluoromethane	111	11.440	11.446	(0.857)	158337	31.6011	31.60
	54 1,1,1-Trichloroethane	97	12.498	12.505	(0.936)	418667	59.6585	59.66
	56 Cyclohexane	56	12.930	12.937	(0.968)	324598	53.0638	53.06
	57 Carbon tetrachloride	117	13.016	13.022	(0.974)	403302	61.1764	61.18
$	52 1,2-Dichloroethane-d4	102	12.206	12.207	(0.914)	32680	30.0426	30.04(Q)
	58 Benzene	78	13.046	13.046	(0.977)	789745	53.3271	53.33
	53 1,2-Dichloroethane	62	12.328	12.328	(0.923)	359384	61.0393	61.04
	48 2,2-Dichloropropane	77	11.385	11.391	(0.852)	354106	63.1304	63.13
	55 1,1-Dichloropropene	75	12.797	12.797	(0.958)	311782	58.4507	58.45
	63 Trichloroethene	95	13.910	13.916	(1.041)	252145	56.0786	56.08
	62 1,2-Dichloropropane	63	13.837	13.837	(1.036)	213925	54.5841	54.58
	61 Dibromomethane	93	13.782	13.782	(1.032)	147925	55.4099	55.41
	66 Methyl methacrylate	41	14.184	14.184	(1.062)	192667	58.5921	58.59
	64 Bromodichloromethane	83	13.946	13.947	(1.044)	357090	61.9050	61.90
	67 2-Chloroethyl vinyl ether	63	14.476	14.476	(1.084)	296976	130.967	131.0
	71 cis-1,3-Dichloropropene	75	14.701	14.701	(1.101)	399139	60.5050	60.50
	72 4-Methyl-2-pentanone	43	14.828	14.829	(1.110)	399919	106.437	106.4
$	76 Toluene-d8	98	15.400	15.400	(0.924)	653996	27.9434	27.94
	78 Toluene	92	15.467	15.467	(0.928)	604233	46.6117	46.61
	73 trans-1,3-Dichloropropene	75	15.145	15.145	(0.908)	379453	52.9694	52.97
	80 Ethyl methacrylate	69	15.577	15.577	(0.934)	283064	51.1973	51.20
	75 1,1,2-Trichloroethane	83	15.291	15.291	(0.917)	173541	48.3326	48.33
	84 Tetrachloroethene	166	16.149	16.149	(0.969)	309629	49.4019	49.40
	81 2-Hexanone	43	15.680	15.680	(0.941)	304133	93.6065	93.61(Q)
	82 Dibromochloromethane	129	15.759	15.759	(0.945)	310309	55.8788	55.88
	83 1,2-Dibromoethane	107	15.972	15.972	(0.958)	254769	50.7397	50.74
	69 Methyl cyclohexane	83	14.524	14.524	(1.087)	342300	56.1625	56.16
*	86 Chlorobenzene-d5	82	16.672	16.672	(1.000)	336907	30.0000	
	87 Chlorobenzene	112	16.696	16.696	(1.001)	797485	50.6383	50.64
	85 1,1,1,2-Tetrachloroethane	131	16.641	16.642	(0.998)	307182	53.4002	53.40
	88 Ethylbenzene	91	16.848	16.848	(1.011)	1314095	53.7548	53.75
	89 m,p-Xylene	91	16.994	16.994	(1.019)	2112371	112.024	112.0
M	100 Xylene(total)	91				3246655	162.349	162.3
	93 o-Xylene	91	17.292	17.299	(1.037)	1134283	56.7197	56.72
	91 Styrene	104	17.238	17.238	(1.034)	862690	58.2890	58.29
	90 Bromoform	173	17.085	17.086	(1.025)	209833	54.4920	54.49
	96 Isopropylbenzene	105	17.554	17.560	(1.053)	1294955	52.4938	52.49

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3LCS01.D
Report Date: 26-Jul-2006 08:43

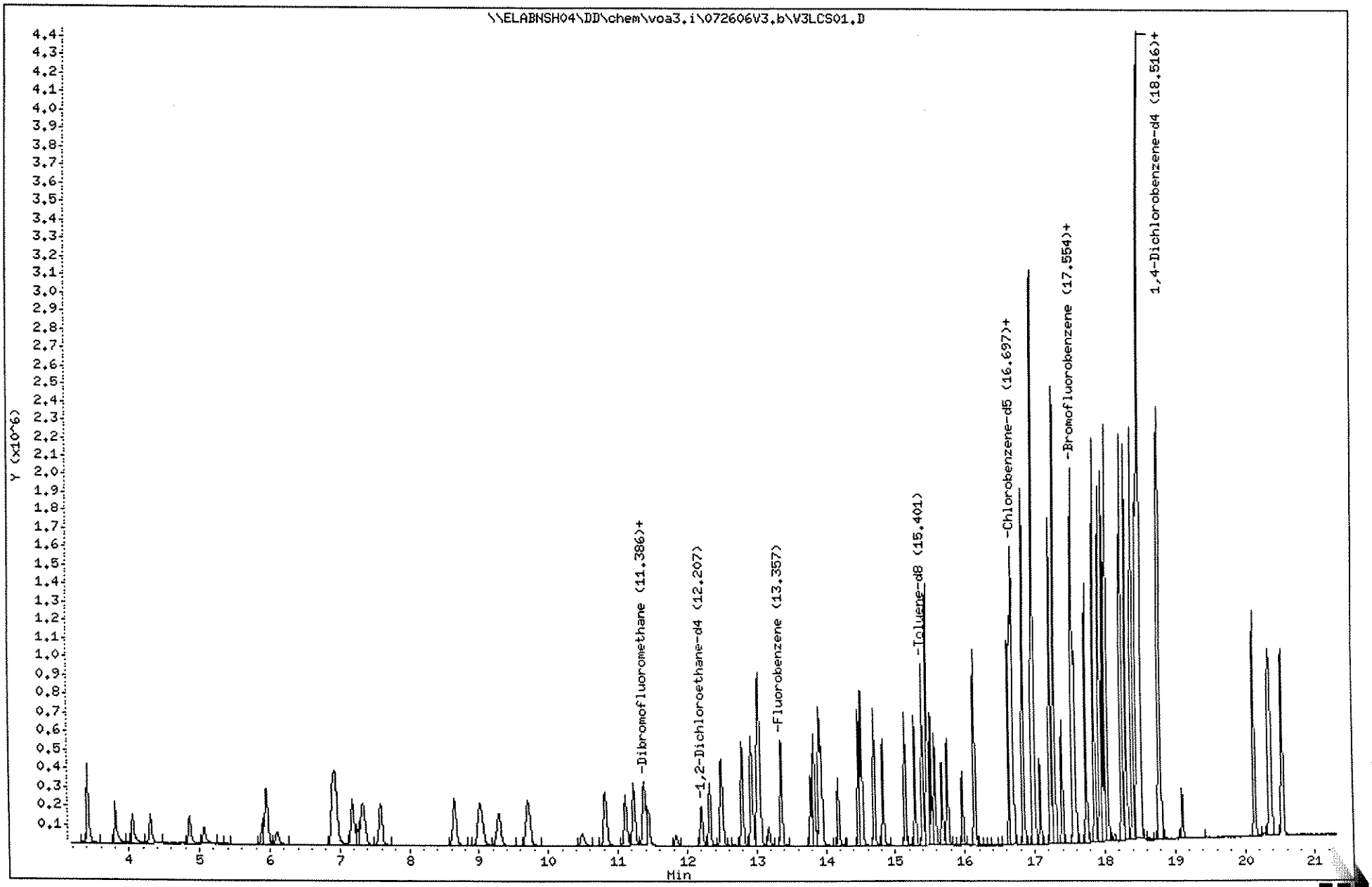
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$	97 Bromofluorobenzene	95	17.584	17.584	(1.055)	341519	31.0547	31.05
	92 1,1,2,2-Tetrachloroethane	83	17.298	17.299	(0.935)	292331	45.9155	45.92
	79 1,3-Dichloropropane	76	15.528	15.528	(0.931)	380521	50.4394	50.44
	94 1,2,3-Trichloropropane	110	17.396	17.402	(1.043)	106169	49.3177	49.32
	101 n-Propylbenzene	91	17.864	17.864	(0.965)	1659534	57.3351	57.34
	106 1,3,5-Trimethylbenzene	105	18.041	18.041	(0.975)	1215820	59.1874	59.19
	104 1,2,4-Trimethylbenzene	105	18.320	18.321	(0.990)	1203965	62.7743	62.77
	107 sec-Butylbenzene	105	18.406	18.406	(0.995)	1504844	60.5789	60.58
	105 tert-Butylbenzene	119	18.253	18.254	(0.987)	1094631	57.5652	57.56
	108 1,3-Dichlorobenzene	146	18.479	18.479	(0.999)	813077	53.6873	53.69
*	110 1,4-Dichlorobenzene-d4	152	18.503	18.503	(1.000)	392316	30.0000	
	111 1,4-Dichlorobenzene	146	18.521	18.521	(1.001)	821449	52.8952	52.90
	114 n-Butylbenzene	91	18.801	18.801	(1.016)	1006204	65.6733	65.67(R)
	113 1,2-Dichlorobenzene	146	18.783	18.783	(1.015)	739901	53.1232	53.12
	115 1,2-Dibromo-3-chloropropane	157	19.111	19.111	(1.033)	78067	46.4746	46.47
	98 Bromobenzene	156	17.742	17.749	(0.959)	389190	49.4966	49.50
	102 2-Chlorotoluene	91	17.937	17.943	(0.969)	1062725	55.3138	55.31
	103 4-Chlorotoluene	91	17.992	17.992	(0.972)	1105597	54.0487	54.05
	116 1,2,4-Trichlorobenzene	180	20.139	20.140	(1.088)	441183	58.2906	58.29
	117 Naphthalene	128	20.352	20.353	(1.100)	821278	53.0325	53.03
	112 p-Isopropyltoluene	119	18.515	18.515	(1.001)	1236531	60.2897	60.29
	118 Hexachlorobutadiene	225	20.377	20.383	(1.101)	185719	58.2889	58.29
	119 1,2,3-Trichlorobenzene	180	20.541	20.541	(1.110)	385829	55.3540	55.35

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH04\DD\chem\voa3.i\072606V3.b\V3LCS01.D
Date : 26-JUL-2006 09:19
Client ID: V3BLK0726LCS
Instrument: voa3.i
Sample Info: V3BLK0726LCS;;;;;; 50 ppb
Purge Volume: 5.0
Operator: ADM
Column phase: DB-VRX
Column diameter: 0.25

000259



Empirical Laboratories

Comment: EPA 8260B Soils
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071806v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6522

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: QC	V1bLK;;;;;	
	Vial: 1	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: QC	V1bLK;;;;;	
	Vial: 2	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK02.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
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	CR Database :Default	CR Spreadsheet :Default	
3	Type: Sample	V1BFB 50ng;;;;;	
	Vial: 100	;3;BFB;;;all.sub;#4916	
	Meth: V1BFBFS.M	Barcode:	
	Data: V1BFB01.D	Samp Amt: 0	Multiplr: 1
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	CR Database :Default	CR Spreadsheet :Default	
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	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
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	Vial: 3	;1;;;6;gm-all.sub;#4928,4961	
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	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
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	Data: V1STD05.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
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	CR Database :Default	CR Spreadsheet :Default	
8	Type: QC	V1BLK0718LCS;;;;;	
	Vial: 5	;3;LCS;;;gm-all.sub;#4928,4962	
	Meth: VSOIL1.M	Barcode:	

```
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9  Type: ICal         V1STD20ppb;;;;;
   Vial: 6            ;1;;;4;gm-all.sub;#4928,4961
   Meth: VSOIL1.M     Barcode:
   Data: V1STD04.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10 Type: ICal         V1STD10ppb;;;;;
   Vial: 7            ;1;;;3;gm-all.sub;#4928,4961
   Meth: VSOIL1.M     Barcode:
   Data: V1STD03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11 Type: ICal         V1STD5ppb;;;;;
   Vial: 8            ;1;;;2;gm-all.sub;#4928,4961
   Meth: VSOIL1.M     Barcode:
   Data: V1STD02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12 Type: ICal         V1STD2ppb;;;;;
   Vial: 9            ;1;;;1;gm-all.sub;#4928,4961
   Meth: VSOIL1.M     Barcode:
   Data: V1STD01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13 Type: QC           V1bLK;;;;;
   Vial: 10           ;3;BLANK;;;gm-all.sub;#4928
   Meth: VSOIL1.M     Barcode:
   Data: BLANK01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14 Type: QC           V1BLK0718;;;;;
   Vial: 11           ;3;BLANK;;;gm-all.sub;#4928
   Meth: VSOIL1.M     Barcode:
   Data: V1BLK01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15 Type: Sample       0607114-01;;4.3;;;
   Vial: 12           cdm.v07114;0;;;;gm-all.sub;#4928
   Meth: VSOIL1.M     Barcode:
   Data: 0711401A.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16 Type: Sample       0607114-01;;4.8;;;MS
   Vial: 13           cdm.v07114;3;MS;;;gm-all.sub;#4928
   Meth: VSOIL1.M     Barcode:
   Data: 711401AM.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17 Type: Sample       0607114-01;;4.4;;;MSD
   Vial: 14           cdm.v07114;3;MSD;;;gm-all.sub;#4928
   Meth: VSOIL1.M     Barcode:
   Data: 711401AS.D   Samp Amt: 0          Multiplr: 1
```

6523

Quant Report	:Default		
CR Database	:Default	CR Spreadsheet	:Default

6524

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\072606v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

1526

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: QC	V1bLK;;;;;	
	Vial: 1	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: QC	V1bLK;;;;;	
	Vial: 2	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: PREBLK02.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
3	Type: Sample	V1BFB 50ng;;;;;	
	Vial: 100	;3;BFB;;;all.sub;#4916	
	Meth: V1BFBFS.M	Barcode:	
	Data: V1BFB01.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
4	Type: CCal	V1STD50ppb;;;;;	
	Vial: 1	;2;;;;gm-all.sub;#4928,4963	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCV01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
5	Type: QC	V1BLK0726LCS;;;;;	
	Vial: 2	;3;LCS;;;gm-all.sub;#4928,4964	
	Meth: VSOIL1.M	Barcode:	
	Data: V1LCS01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
6	Type: QC	V1bLK;;;;;	
	Vial: 3	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: BLANK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
7	Type: QC	V1BLK0726;;;;;	
	Vial: 4	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: V1PBLK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
8	Type: QC	V1MBLK0726;;;;;	
	Vial: 5	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	

Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

9 Type: Sample 0607211-03;;4.93;;;
Vial: 6 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721103A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

6527

---

10 Type: Sample 0607211-04;;5.19;;;
Vial: 7 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721104A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample 0607211-05;;5.31;;;
Vial: 8 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721105B.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample 0607211-06;;4.65;;;
Vial: 9 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721106A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample 0607211-07;;4.68;;;50x-100ul
Vial: 10 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721107M.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample 0607211-08;;6.24;;;
Vial: 11 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721108A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample 0607211-09;;5.7;;;500x-10ul
Vial: 12 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721109M.D Samp Amt: 0 Multiplr: 10
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample 0607211-10;;5.43;;;
Vial: 13 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721110A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample 0607211-11;;4.37;;;
Vial: 14 ch2.v07211;0;;;;btexm.sub;#4928
Meth: VSOIL1.M Barcode:
Data: 0721111A.D Samp Amt: 0 Multiplr: 1

```
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0607211-12;;5.35;;;
    Vial: 15          ch2.v07211;0;;;;btexm.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: 0721112A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0607211-03;;5.43;;;MS
    Vial: 16          ch2.v07211;3;MS;;;btexm.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: 721103AM.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0607211-03;;5.22;;;MSD
    Vial: 17          ch2.v07211;3;MSD;;;btexm.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: 721103AS.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: QC          V1bLK;;;;;
    Vial: 18          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: QC          V1bLK;;;;;
    Vial: 19          ;3;BLANK;;;gm-all.sub;#4928
    Meth: VSOIL1.M    Barcode:
    Data: BLANK03.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: QC          V1bLK;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#4928
    Meth: V1BFB.M     Barcode:
    Data: BFB.D       LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

6,28

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\072706v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6530

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: Sample	V1BFB 50ng;;;;;	
	Vial: 100	;3;BFB;;;all.sub;#4916	
	Meth: V1BFB.M	Barcode:	
	Data: V1BFB01.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
2	Type: CCal	V1STD50ppb;;;;;	
	Vial: 1	;2;;;;gm-all.sub;#4928,4963	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCV01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
3	Type: QC	V1BLK0727LCS;;;;;	
	Vial: 2	;3;LCS;;;gm-all.sub;#4928,4964	
	Meth: VSOIL1.M	Barcode:	
	Data: V1LCS01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
4	Type: QC	V1BLK0727;;;;;	
	Vial: 3	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: V1BLK01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
5	Type: Sample	0607211-10;;5.43;;;	
	Vial: 4	ch2.v07211;0;;;;btexm.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: 0721110A.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
6	Type: Sample	0607211-11;;4.37;;;	
	Vial: 5	ch2.v07211;0;;;;btexm.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: 0721111A.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
7	Type: Sample	0607211-12;;5.35;;;	
	Vial: 6	ch2.v07211;0;;;;btexm.sub;#4928	
	Meth: VSOIL1.M	Barcode:	
	Data: 0721112A.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default	
	Quant Report :Default	Post-Quant Macro:Default	
	CR Database :Default	CR Spreadsheet :Default	
8	Type: Sample	0607211-03;;5.43;;;MS	
	Vial: 7	ch2.v07211;3;MS;;;btexm.sub;#4928	
	Meth: VSOIL1.M	Barcode:	

```
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample       0607211-03;;5.22;;;MSD
    Vial: 8            ch2.v07211;3;MSD;;;btexm.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: 721103AS.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: Sample       0607211-03;;5.58;;;MS
    Vial: 9            ch2.v07211;3;MS;;;btexm.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: 721103BM.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample       0607211-03;;5.5;;;MSD
    Vial: 10           ch2.v07211;3;MSD;;;btexm.sub;#4928
    Meth: VSOIL1.M     Barcode:
    Data: 721103BS.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

6531

Sequence Name: C:\MSDCHEM\1\SEQUENCE\071906V3.S
Comment: EPA8260B/524.2/624
Operator: ADM
Data Path: D:\MSDCHEM\1\DATA\071906V3\
Pre-Seq Cmd:
Post-Seq Cmd:

5762

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Blank V3BLK;;;;;; Vial: 100 ;3;BLANK;;;gm-all.sub;#4928 Meth: VWATER3.M Barcode: Data: PREBLK01.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
2	Type: Blank V3BLK;;;;;; Vial: 100 ;3;BLANK;;;gm-all.sub;#4928 Meth: VWATER3.M Barcode: Data: PREBLK02.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
3	Type: Sample V3BFB 50NG;;;;;; Vial: 50 ;3;;;;all.sub;#4946 Meth: V3BFB.M Barcode: Data: V3BFB01.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
4	Type: Calibration V3STD200PPB;;;;;; Vial: 1 ;1;;;8;gm-all.sub;#4928,4961 Meth: VWATER3.M Barcode: Data: V3STD08A.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
5	Type: Calibration V3STD200PPB;;;;;; Vial: 2 ;1;;;8;gm-all.sub;#4928,4961 Meth: VWATER3.M Barcode: Data: V3STD08.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
6	Type: Calibration V3STD100PPB;;;;;; Vial: 3 ;1;;;7;gm-all.sub;#4928,4961 Meth: VWATER3.M Barcode: Data: V3STD07.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
7	Type: Calibration V3STD50PPB;;;;;; Vial: 4 ;1;;;6;gm-all.sub;#4928,4961 Meth: VWATER3.M Barcode: Data: V3STD06.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method

```
8   Type: Spike          V3BLK0719LCS;;;;;; 50 ppb
    Vial: 5              ;3;LCS;;;gm-all.sub;#4928,4962
    Meth: VWATER3.M      Barcode:
    Data: V3LCS01.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V3STD20PPB;;;;;;
    Vial: 6              ;1;;;5;gm-all.sub;#4928,4961
    Meth: VWATER3.M      Barcode:
    Data: V3STD05.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Calibration V3STD10PPB;;;;;;
    Vial: 7              ;1;;;4;gm-all.sub;#4928,4961
    Meth: VWATER3.M      Barcode:
    Data: V3STD04.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V3STD2PPB;;;;;;
    Vial: 8              ;1;;;3;gm-all.sub;#4928,4961
    Meth: VWATER3.M      Barcode:
    Data: V3STD03.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V3STD1PPB;;;;;;
    Vial: 9              ;1;;;2;gm-all.sub;#4928,4961
    Meth: VWATER3.M      Barcode:
    Data: V3STD02.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Calibration V3STD0.5PPB;;;;;;
    Vial: 10             ;1;;;1;gm-all.sub;#4928,4961
    Meth: VWATER3.M      Barcode:
    Data: V3STD01.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Blank          V3BLK;;;;;;
    Vial: 100            ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER3.M      Barcode:
    Data: BLANK01.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Blank          V3BLK0719;;;;;;
    Vial: 100            ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER3.M      Barcode:
    Data: V3BLK01.D      Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Blank          0607048-01;;;;;; 100x-screen
    Vial: 11             ch2.v07048;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M      Barcode:
    Data: S0704801.D     Samp Amt: 0          Multiplr: 100
```

5263

Area% Report	:per Method	Lib. Search Rep	:per Method
Quant Report	:per Method	Post-Quant Macro	:per Method
CR Database	:per Method	CR Spreadsheet	:per Method

17

5764

Sequence Name: [illegible]
Comment: EPA8260B/524.2/624
Operator: ADM
Data Path: D:\MSDCHEM\1\DATA\072606V3\
Pre-Seq Cmd:
Post-Seq Cmd:

5774

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: Blank	V3BLK;;;;;;	
	Vial: 100	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VWATER3.M	Barcode:	
	Data: PREBLK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
2	Type: Sample	V3BFB 50NG;;;;;;	
	Vial: 50	;3;;;;all.sub;#4946	
	Meth: V3BFB.M	Barcode:	
	Data: V3BFB01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
3	Type: DailyCal	V3STD50PPB;;;;;;	
	Vial: 1	;2;;;;gm-all.sub;#4928,4963	
	Meth: VWATER3.M	Barcode:	
	Data: V3CCV01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
4	Type: Spike	V3BLK0726LCS;;;;;; 50 ppb	
	Vial: 2	;3;LCS;;;gm-all.sub;#4928,4964	
	Meth: VWATER3.M	Barcode:	
	Data: V3LCS01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
5	Type: Spike	V3BLK0726LCS;;;;;; 20 ppb	
	Vial: 3	;3;LCS;;;gm-all.sub;#4928,4963	
	Meth: VWATER3.M	Barcode:	
	Data: V3LCS624.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
6	Type: Blank	V3BLK;;;;;;	
	Vial: 100	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VWATER3.M	Barcode:	
	Data: BLANK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
7	Type: Blank	V3BLK0726;;;;;;	
	Vial: 100	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VWATER3.M	Barcode:	
	Data: V3BLK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method

```
8   Type: Sample       0607189-02;;;;;; tb
    Vial: 4            tet.v07189;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0718902.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
9   Type: Sample       0607188-06;;;;;; tb
    Vial: 5            hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0718806.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
10  Type: Sample       0607211-13;;;;;; tb
    Vial: 6            ch2.v07211;0;;;;btexm.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0721113.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
11  Type: Sample       0607211-14;;;;;; tb
    Vial: 7            ch2.v07211;0;;;;btexm.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0721114.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
12  Type: Sample       0607211-01;;;;;; eqpbl
    Vial: 8            ch2.v07211;0;;;;btexm.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0721101.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
13  Type: Sample       0607211-02;;;;;; eqpbl
    Vial: 9            ch2.v07211;0;;;;btexm.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0721102.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
14  Type: Sample       0607189-01;;;;;;
    Vial: 10           tet.v07189;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0718901.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
15  Type: Sample       0607188-01;;;;;;
    Vial: 11           hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0718801.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
16  Type: Sample       0607188-03;;;;;;
    Vial: 12           hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0718803.D    Samp Amt: 0          Multiplr: 1
```

PHC20 5775

```
    Quant Report     :per Method       CR Spreadsheet   :per Method
    CR Database      :per Method
-------------------------------------------------------------------------------
17  Type: Sample      0607188-04;;;;;;
    Vial: 13          hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0718804.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
18  Type: Sample      0607188-05;;;;;;
    Vial: 14          hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0718805.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
19  Type: Sample      0607188-02;;;;;; 50x-1ml
    Vial: 15          hyd.v07188;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0718802D.D  Samp Amt: 0          Multiplr: 50
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
20  Type: Sample      0607188-03;;;;;; MS
    Vial: 16          hyd.v07188;3;MS;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0718803M.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
21  Type: Sample      0607188-03;;;;;; MSD
    Vial: 17          hyd.v07188;3;MSD;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0718803S.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
22  Type: Blank       V3BLK;;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
23  Type: Sample      0607167-04;;;;;;
    Vial: 19          grb.v07167;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0716704.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
24  Type: Sample      0607167-02;;;;;; 5x-10ml
    Vial: 20          grb.v07167;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M   Barcode:
    Data: 0716702D.D  Samp Amt: 0          Multiplr: 5
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
25  Type: Sample      0607166-01;;;;;; 20x-2.5ml
```

PH C2.5

5276

PH C2.5

```
    Meth: VWATER3.M    Barcode:
    Data: 0716601D.D   Samp Amt: 0          Multiplr: 20
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
26  Type: Sample       0607166-04;;;;;; 5x-10ml
    Vial: 22           isp.v07166;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0716604D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
27  Type: Sample       0607166-02;;;;;; 2x-25ml
    Vial: 23           isp.v07166;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0716602D.D   Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
28  Type: Sample       0607166-03;;;;;; 2x-25ml
    Vial: 24           isp.v07166;0;;;;gm-all.sub;#4928
    Meth: VWATER3.M    Barcode:
    Data: 0716603D.D   Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

PHC25

5777

Empirical Laboratories

Logbook#: MS042

Fraction: Volatiles Matrix: Soil Level: Low/Medium (circle one) Supervisor

#	Client	Lab No.	Date Prepared	Time Prepared	Analyst Initials	Sample Weight (g)	MeOH Volume (mL)	Solvent-Reagent Lot/Vendor Vial	NaHSO4	Methanol	'FREEZE' Notes/Comments	Final
1	GA2MH11	07211-03A	7/26/16	10:40	BDM	4.93	\	BEC	N/A		30.97	35.9
2	(Mayport)	B				5.19	\	B602201V13			31.11	36.3
3		M				5.11	5			Prepaid	30.39	35.5
4		-04A				5.19	\				31.11	36.3
5		B				4.94	\				31.06	36.0
6		M				5.13	5	B615801V13			30.37	35.5
7		-05A				3.18	\				31.02	34.2
8		B				5.31	\				31.19	36.5
9		M				4.93	5				30.17	35.1
10		-06A				4.65	\				31.25	35.9
11		B				4.63	\				31.27	35.9
12		M				6.95	5				30.25	37.2
13		-07A				4.85	\				31.05	35.9
14		B				4.79	\				31.21	36.0
15		M				4.68	5				29.62	34.3
16		-08A				6.24	\				31.16	37.4
17		B				6.38	\				31.02	37.4
18		M				5.01	5				30.19	35.2
19		-09A				5.12	\				30.98	36.1
20		B				5.11	\				31.19	36.3
21		M				5.7	5				30.20	35.9
22		-10A				5.43	\				31.17	36.6
23		B				5.18	\				31.22	36.4
24		M				4.87	5				29.63	34.5
25		-11A				4.37	\				31.03	35.4
26		B				5.02	\				30.98	36.0
27		M				4.94	5				30.36	35.3
28	(Dup)	-12A				5.35	\				31.05	36.4
29		B				5.35	\				31.15	36.5
30		M				5.29	10				32.41	37.7
31		-03MSA	(*)			5.43	\				31.47	36.9
32		B				5.58	\				30.12	35.7
33		M				5.34	10				32.26	37.6
34		-03MSDA				5.22	\				31.88	37.1
35		B				5.5					31.10	36.6
36		M				5.18	10				31.92	37.1
37												
38												
39												
40												

(*) different vials no/of #7

000275

Empirical Laboratories

ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
FREEZER

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-6	7:15 6/29/16 M			VOA
6404-01-02	Cam for login	2:00 6/29/16 M		VOA
6405-02	Cam for ext.	2:30 7/6/16 M		VOA
7022-03-11	Cam for hbant	11:15 7/10/16 M		VOA
7022-03-11	6:05 7/11/16 M	7:30 7/11/16 M		VOA
7031-1-10	Cam for login	1:00 7/12/16 M		VOA
7031-04,05,01	9:20 7/13/16 M			VOA
7211-3-12	Cam for login	2:30 7/26/16 M		VOA
7211-03MS/MSD	7:00 7/27/16 M			VOA
8002 03,04	Cam for login AM	11:15 8/1/16 M		VOA

Empirical Laboratories

Empirical Laboratories
ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7211-1, 2, 13, 14	Cam for login	4:00 7/26/6 M		VOA
7137-01-03 7218-01-03	10:15 7/27/06 BTO	14:50 7/27/06 BTO		GRO ~~TPHCO~~
7193-02.03 ~~7195-02.03~~	↓	↓		↓
7193-1-3 ~~7195-1-3~~	12:30 7/27/6 M			VOA
7162-4, 5, 8, 10, 15				L
7199-1 7166-1, 2, 4	7:15 7/28/6 M			VOA
7167-2, 4 7214-1, 2				
7216-1				↓
7193-4 7216-8	Cam for Centr.	9:30 7/28/6 M		TCLP
7214-01	12:20 pm TJM 7/28/06	12:28 pm TJM 7/28/06		glycol analysis
7223-2-4	2:30 7/28/6 M	2:45 7/28/6 M	Sam	VOA
7223-1-7 7230-1, 2, 7240-1-3	9:30 7/31/6 M			VOA
7238-1, 2 7239-1-8, 7248-1	10:00 7/31/6 M	10:20 7/31/6 M	Sam	VOA
7238-1-3 7239-1-9	7:20 8/1/6 M			VOA
7227-1, 2 7248-1-2	L L L			L
7231-1-3	Cam for Centr.	10:40 8/1/6 M	TCLP	VOA

ANALYTICAL REPORT

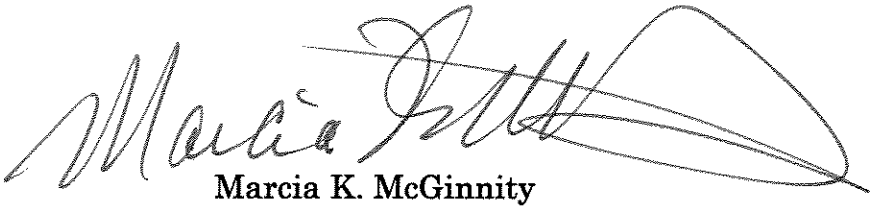
MAIN DATA PACKAGE – ORGANIC

SEMIVOLATILE PAH SECTION

CH2M Hill, Inc.

WO #0607211
Part 3 of 3

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

August 8, 2006

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WO #0607211

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-03	51CFM09S060725DL	10
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-05	51CFM11S060725DL	200
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	1
0607211-08	51CFM14S060725	1
0607211-08	51CFM14S060725DL	2
0607211-09	51CFM15S060725	1
0607211-09	51CFM15S060725DL	50
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1
0607211-12	51DUP1S060725DL	10

Semi-Volatile PAHs

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (automated soxtherm extraction followed by capillary column GC/MS) for soils and 3510C/8270C (separatory funnel extraction followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: The low concentration water PAH quantitation limits were obtained using 3510C extraction with a 0.5ml final volume and full scan 8270C analysis modified for increased sensitivity with calibration from 0.1ng/µL to 20ng/µL for a nominal water calibration range starting at 0.050µg/L. All instrument enhancements were applied to method QC as well as instrument QC.
- DFTPP Tuning: All method tuning criteria were met.
- Initial Calibration Criteria: All method criteria were met for the target analytes.
- Continuing Calibration Criteria: All method calibration criteria were met for the target analytes.
- Blank Results: No target analytes were detected in the associated method blanks.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: Due to the sample matrix, d12-perylene area counts were below 50% of that found in the associated calibration standard for some of the soil samples. Analytes associated with internal standard area counts below 50% are flagged with an "*" on the form Is.
- LCS Results: All recoveries were within limits. It should be noted that the spike solutions for the soil extractions did not include 1-methylnaphthalene.

- MS/MSD Results: In spike samples 51CFM09S060725MS/MSD, 20 of 34 recoveries and 9 of 17 relative percent differences were outside the control limits. See form 3 for specifics. This is attributed to sample matrix and analyte concentrations which required dilutions.
- Dilutions: The samples were analyzed at the dilutions indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Phone No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060725	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber broke	7211-01
2	51EQB4W060725	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:	7-26-06	900

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 4.3 Intact

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

00004

Empirical Laboratories

1 Hill Constructors, Inc.
...meter Center Place, Suite 700
...lanta, GA 30346-1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-003 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (include) BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060725	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 I-Tect

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Beito.	7/26/06	900

Jeff Marks
CH2M HILL Constructors, Inc.

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

50005

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 COC ID(s): 346570-003

Client CH2M H.I.L Project NAVSTA Mayport

Sample Custodian Andy Burton Today's Date 7-26-06

Date/Time Samples Received 7-26 900
Airbill Number Ex
Cooler Opened: Date 7-26

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-25

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 4.3

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0726BS1	57	56	85						0
02	SBLK0726BS1L	54	49	83						0
03	51CFM09S0607	53	52	59						0
04	51CFM09S0607	45	46	58						0
05	51CFM09S0607	60	58	78						0
06	51CFM10S0607	57	57	87						0
07	51CFM11S0607	58	57	104						0
08	51CFM12S0607	53	55	80						0
09	51CFM13S0607	59	63	86						0
10	51CFM14S0607	59	60	73						0
11	51CFM15S0607	60	67	100						0
12	51CFM16S0607	62	54	74						0
13	51CFM17S0607	60	64	86						0
14	51DUP1S06072	53	59	87						0
15	51CFM09S0607	59D	66D	94D						0
16	51DUP1S06072	56D	66D	84D						0
17	51CFM11S0607	0D	0D	0D						0
18	51CFM15S0607	0D	0D	0D						0
19	51CFM14S0607	62D	69D	98D						0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	3300
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	3300
S3 (TPH) = Terphenyl-d14	(55-110)	3300

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLK0726B1	81	62	125						0
02	SBLK0726B1LC	88	67	98						0
03	SBLK0726B1LC	91	69	91						0
04	51EQB3W06072	62	56	115						0
05	51EQB4W06072	72	60	107						0
06										
07										
08										
09										
10										
11										
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	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (NBZ) = Nitrobenzene-d5	(30-110)	1.0
S2 (FBP) = 2-Fluorobiphenyl	(35-110)	1.0
S3 (TPH) = Terphenyl-d14	(55-125)	1.0

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726B1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	1.000	0.0000	0.6932	69	40-110
Acenaphthylene	1.000	0.0000	0.6824	68	45-110
Anthracene	1.000	0.0000	0.7916	79	65-125
Benzo(a)anthracene	1.000	0.0000	0.9448	94	60-130
Benzo(b)fluoranthene	1.000	0.0000	0.8297	83	50-135
Benzo(k)fluoranthene	1.000	0.0000	1.184	118	50-140
Benzo(g,h,i)perylene	1.000	0.0000	0.7205	72	50-150
Benzo(a)pyrene	1.000	0.0000	0.7879	79	55-145
Chrysene	1.000	0.0000	1.057	106	60-130
Dibenz(a,h)anthracene	1.000	0.0000	0.7084	71	55-145
Fluoranthene	1.000	0.0000	1.032	103	65-130
Fluorene	1.000	0.0000	0.7342	73	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.0000	0.8913	89	50-150
2-Methylnaphthalene	1.000	0.0000	0.6483	65	25-110
1-Methylnaphthalene	1.000	0.0000	0.6274	63	25-110
Naphthalene	1.000	0.0000	0.6502	65	25-110
Phenanthrene	1.000	0.0000	0.8083	81	65-120
Pyrene	1.000	0.0000	1.004	100	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726B1

COMPOUND	SPIKE ADDED (UG/L)	LCSD CONCENTRATION (UG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.7624	76	10	40	40-110
Acenaphthylene	1.000	0.7476	75	9	40	45-110
Anthracene	1.000	0.8068	81	2	40	65-125
Benzo(a)anthracene	1.000	0.9479	95	0	40	60-130
Benzo(b)fluoranthene	1.000	0.8459	84	2	40	50-135
Benzo(k)fluoranthene	1.000	1.191	119	0	40	50-140
Benzo(g,h,i)perylene	1.000	0.7255	72	1	40	50-150
Benzo(a)pyrene	1.000	0.8638	86	9	40	55-145
Chrysene	1.000	1.034	103	2	40	60-130
Dibenz(a,h)anthracene	1.000	0.7434	74	5	40	55-145
Fluoranthene	1.000	1.005	100	3	40	65-130
Fluorene	1.000	0.7933	79	8	40	50-115
Indeno(1,2,3-cd)pyrene	1.000	0.9237	92	4	40	50-150
2-Methylnaphthalene	1.000	0.6659	66	3	40	25-110
1-Methylnaphthalene	1.000	0.7311	73	15	40	25-110
Naphthalene	1.000	0.6784	68	4	40	25-110
Phenanthrene	1.000	0.8076	81	0	40	65-120
Pyrene	1.000	0.9525	95	5	40	50-145

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 18 outside limits
Spike Recovery: 0 out of 36 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: SBLK0726BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	1795	54	45-110
Acenaphthylene	3333	0.0000	2022	61	50-105
Anthracene	3333	0.0000	2495	75	55-105
Benzo(a)anthracene	3333	0.0000	2553	76	60-110
Benzo(b)fluoranthene	3333	0.0000	2392	72	55-115
Benzo(k)fluoranthene	3333	0.0000	2300	69	55-110
Benzo(g,h,i)perylene	3333	0.0000	2483	74	35-135
Benzo(a)pyrene	3333	0.0000	2653	80	60-120
Chrysene	3333	0.0000	2678	80	55-105
Dibenz(a,h)anthracene	3333	0.0000	2379	71	40-130
Fluoranthene	3333	0.0000	2634	79	55-110
Fluorene	3333	0.0000	2066	62	50-105
Indeno(1,2,3-cd)pyrene	3333	0.0000	2646	79	40-130
2-Methylnaphthalene	3333	0.0000	1604	48	40-110
Naphthalene	3333	0.0000	1564	47	30-110
Phenanthrene	3333	0.0000	2454	74	55-105
Pyrene	3333	0.0000	2634	79	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	1720	220.2	899.6	40*	45-110
Acenaphthylene	1720	0.0000	876.5	51	50-105
Anthracene	1720	512.8	1151	37*	55-105
Benzo(a)anthracene	1720	3428	2963	-27*	60-110
Benzo(b)fluoranthene	1720	4666	3874	-46*	55-115
Benzo(k)fluoranthene	1720	1977	1677	-17*	55-110
Benzo(g,h,i)perylene	1720	1422	1286	-8*	35-135
Benzo(a)pyrene	1720	3827	3272	-32*	60-120
Chrysene	1720	3792	3398	-23*	55-105
Dibenz(a,h)anthracene	1720	553.7	956.3	23*	40-130
Fluoranthene	1720	5603	3375	-130*	55-110
Fluorene	1720	208.5	962.0	44*	50-105
Indeno(1,2,3-cd)pyrene	1720	1681	1549	-8*	40-130
2-Methylnaphthalene	1720	49.92	746.6	40	40-110
Naphthalene	1720	32.54	699.7	39	30-110
Phenanthrene	1720	3514	2004	-88*	55-105
Pyrene	1720	5215	3893	-77*	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1731	1327	64	38	50	45-110
Acenaphthylene	1731	1146	66	27	50	50-105
Anthracene	1731	1902	80	49	50	55-105
Benzo(a)anthracene	1731	5890	142*	66*	50	60-110
Benzo(b)fluoranthene	1731	9238	264*	82*	50	55-115
Benzo(k)fluoranthene	1731	2950	56	55*	50	55-110
Benzo(g,h,i)perylene	1731	2314	52	57*	50	35-135
Benzo(a)pyrene	1731	6088	131*	60*	50	60-120
Chrysene	1731	6337	147*	60*	50	55-105
Dibenz(a,h)anthracene	1731	1557	58	48	50	40-130
Fluoranthene	1731	8106	144*	82*	50	55-110
Fluorene	1731	1432	71	39	50	50-105
Indeno(1,2,3-cd)pyrene	1731	2556	50	49	50	40-130
2-Methylnaphthalene	1731	981.2	54	27	50	40-110
Naphthalene	1731	1002	56	36	50	30-110
Phenanthrene	1731	5250	100	89*	50	55-105
Pyrene	1731	7942	158*	68*	50	55-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 9 out of 17 outside limits
Spike Recovery: 20 out of 34 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0726B1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: SBLK0726 Lab Sample ID: SBLK0726B1

Instrument ID: BNA3 Date Extracted: 07/26/06

Matrix: (soil/water) WATER Date Analyzed: 07/26/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1624

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0726B1LC	SBLK0726B1LCS	SLCS0726	07/26/06
02	SBLK0726B1LC	SBLK0726B1LCSD	SLCD0726	07/26/06
03	51EQB3W06072	0607211-01	0721101	07/26/06
04	51EQB4W06072	0607211-02	0721102	07/26/06
05				
06				
07				
08				
09				
10				
11				
12				
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14				
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17				
18				
19				
20				
21				
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29				
30				

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0726BS1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: SBLK0726 Lab Sample ID: SBLK0726BS1

Instrument ID: BNA1 Date Extracted: 07/26/06

Matrix: (soil/water) SOIL Date Analyzed: 07/26/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1434

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0726BS1L	SBLK0726BS1LCS	SLCS0726	07/26/06
02	51CFM09S0607	0607211-03	0721103	07/26/06
03	51CFM09S0607	0607211-03	0721103M	07/26/06
04	51CFM09S0607	0607211-03	0721103S	07/26/06
05	51CFM10S0607	0607211-04	0721104	07/26/06
06	51CFM11S0607	0607211-05	0721105	07/26/06
07	51CFM12S0607	0607211-06	0721106	07/26/06
08	51CFM13S0607	0607211-07	0721107	07/26/06
09	51CFM14S0607	0607211-08	0721108	07/26/06
10	51CFM15S0607	0607211-09	0721109	07/26/06
11	51CFM16S0607	0607211-10	0721110	07/26/06
12	51CFM17S0607	0607211-11	0721111	07/26/06
13	51DUP1S06072	0607211-12	0721112	07/26/06
14	51CFM09S0607	0607211-03	0721103D	07/27/06
15	51DUP1S06072	0607211-12	0721112D	07/27/06
16	51CFM11S0607	0607211-05	721105D1	07/27/06
17	51CFM15S0607	0607211-09	0721109D	07/27/06
18	51CFM14S0607	0607211-08	0721108D	07/27/06
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0421B1 DFTPP Injection Date: 04/21/06

Instrument ID: BNA3 DFTPP Injection Time: 1524

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	49.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	3.24
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	11.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHCCV0.10PP	PAHCCV0.10PPM	PAH001	04/21/06	1628
02	PAHCCV0.20PP	PAHCCV0.20PPM	PAH002	04/21/06	1708
03	PAHCCV0.40PP	PAHCCV0.40PPM	PAH003	04/21/06	1748
04	PAHCCV0.60PP	PAHCCV0.60PPM	PAH004	04/21/06	1828
05	PAHCCV1.00PP	PAHCCV1.00PPM	PAH006	04/21/06	1908
06	PAHCCV2.50PP	PAHCCV2.50PPM	PAH008	04/21/06	1948
07	PAHCCV5.00PP	PAHCCV5.00PPM	PAH009	04/21/06	2027
08	PAHCCV10.0PP	PAHCCV10.0PPM	PAH011	04/21/06	2107
09	PAHCCV20.0PP	PAHCCV20.0PPM	PAH013	04/21/06	2147
10	PAHICV5.0PPM	PAHICV5.0PPM	PAHICV	04/21/06	2227
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0726B1 DFTPP Injection Date: 07/26/06

Instrument ID: BNA1 DFTPP Injection Time: 1217

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	92.4
70	Less than 2.0% of mass 69	0.3 (0.3)1
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	15.0
365	Greater than 1.0% of mass 198	1.34
441	Present, but less than mass 443	8.6
442	Greater than 40.0% of mass 198	46.0
443	17.0 - 23.0% of mass 442	10.1 (21.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/26/06	1237
02	APP9ACCV050P	APP9ACCV050PPM	APP9A	07/26/06	1312
03	SBLK0726BS1	SBLK0726BS1	SBLK0726	07/26/06	1434
04	SBLK0726BS1L	SBLK0726BS1LCS	SLCS0726	07/26/06	1509
05	51CFM09S0607	0607211-03	0721103	07/26/06	1544
06	51CFM09S0607	0607211-03	0721103M	07/26/06	1618
07	51CFM09S0607	0607211-03	0721103S	07/26/06	1653
08	51CFM10S0607	0607211-04	0721104	07/26/06	1728
09	51CFM11S0607	0607211-05	0721105	07/26/06	1802
10	51CFM12S0607	0607211-06	0721106	07/26/06	1837
11	51CFM13S0607	0607211-07	0721107	07/26/06	1911
12	51CFM14S0607	0607211-08	0721108	07/26/06	1946
13	51CFM15S0607	0607211-09	0721109	07/26/06	2020
14	51CFM16S0607	0607211-10	0721110	07/26/06	2055
15	51CFM17S0607	0607211-11	0721111	07/26/06	2129
16	51DUP1S06072	0607211-12	0721112	07/26/06	2204
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0726B1 DFTPP Injection Date: 07/26/06

Instrument ID: BNA3 DFTPP Injection Time: 1308

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	42.2
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	47.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	2.77
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	51.5
443	17.0 - 23.0% of mass 442	10.1 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SPCC020PPM	SPCC020PPM	SPCC020	07/26/06	1328
02	PAHCCV5.0PPM	PAHCCV5.0PPM	PAHCCV	07/26/06	1545
03	SBLK0726B1	SBLK0726B1	SBLK0726	07/26/06	1624
04	SBLK0726B1LC	SBLK0726B1LCS	SLCS0726	07/26/06	1703
05	SBLK0726B1LC	SBLK0726B1LCSD	SLCD0726	07/26/06	1743
06	51EQB3W06072	0607211-01	0721101	07/26/06	1822
07	51EQB4W06072	0607211-02	0721102	07/26/06	1902
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID: DF0727B1 DFTPP Injection Date: 07/27/06

Instrument ID: BNA1 DFTPP Injection Time: 1147

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	78.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	3.13
441	Present, but less than mass 443	16.4
442	Greater than 40.0% of mass 198	94.5
443	17.0 - 23.0% of mass 442	17.0 (18.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	APP9ACCV050P	APP9ACCV050PPM	APP9A	07/27/06	1242
02	CCV050PPM	CCV050PPM	CCV050S	07/27/06	1316
03	51CFM09S0607	0607211-03	0721103D	07/27/06	1353
04	51DUP1S06072	0607211-12	0721112D	07/27/06	1428
05	51CFM11S0607	0607211-05	721105D1	07/27/06	1503
06	51CFM15S0607	0607211-09	0721109D	07/27/06	1612
07	51CFM14S0607	0607211-08	0721108D	07/27/06	1647
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): APP9A Date Analyzed: 07/26/06

Instrument ID: BNA1 Time Analyzed: 1312

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	482731		4.11		1524248		5.08		700869		7.38	
	UPPER LIMIT	965462		4.61		3048496		5.58		1401738		7.88	
	LOWER LIMIT	241366		3.61		762124		4.58		350435		6.88	
	CLIENT SAMPLE NO.												
01	SBLK0726BS1	497295		4.12		1486121		5.08		735929		7.38	
02	SBLK0726BS1L	464069		4.12		1457622		5.09		757886		7.38	
03	51CFM09S0607	515518		4.12		1672070		5.09		842432		7.38	
04	51CFM09S0607	505370		4.12		1554118		5.09		811988		7.38	
05	51CFM09S0607	548317		4.12		1725438		5.09		917232		7.39	
06	51CFM10S0607	516363		4.12		1698673		5.09		886038		7.38	
07	51CFM11S0607	571644		4.12		1829331		5.09		945386		7.39	
08	51CFM12S0607	522957		4.12		1684164		5.09		927959		7.38	
09	51CFM13S0607	544165		4.12		1871631		5.09		901255		7.38	
10	51CFM14S0607	591902		4.12		1910091		5.09		931045		7.38	
11	51CFM15S0607	498672		4.12		1655237		5.09		755154		7.39	
12	51CFM16S0607	559793		4.12		1779952		5.09		948276		7.38	
13	51CFM17S0607	488287		4.12		1782907		5.09		842544		7.39	
14	51DUP1S06072	568274		4.12		1871190		5.09		912770		7.39	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): APP9A Date Analyzed: 07/26/06

Instrument ID: BNA1 Time Analyzed: 1312

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	809682	10.59	597495	17.92	569860	21.73
	UPPER LIMIT	1619364	11.09	1194990	18.42	1139720	22.23
	LOWER LIMIT	404841	10.09	298748	17.42	284930	21.23
	CLIENT SAMPLE NO.						
01	SBLK0726BS1	974075	10.58	652479	17.92	635276	21.74
02	SBLK0726BS1L	983102	10.58	695365	17.94	741251	21.76
03	51CFM09S0607	859665	10.59	639702	17.98	585672	21.80
04	51CFM09S0607	996285	10.60	663688	17.98	675174	21.80
05	51CFM09S0607	1025169	10.61	752260	18.05	502519	21.85
06	51CFM10S0607	1073107	10.59	650332	17.95	407368	21.76
07	51CFM11S0607	901903	10.68	436477	18.20	240130*	21.91
08	51CFM12S0607	1159119	10.59	819096	17.96	565044	21.78
09	51CFM13S0607	1117533	10.60	715591	17.97	503995	21.80
10	51CFM14S0607	1157472	10.60	754402	17.99	415015	21.82
11	51CFM15S0607	922634	10.66	482307	18.13	202049*	21.87
12	51CFM16S0607	1224655	10.60	753795	17.97	437645	21.79
13	51CFM17S0607	1066134	10.60	748911	17.96	487170	21.78
14	51DUP1S06072	931690	10.62	608528	18.02	325374	21.84
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): PAHCCV Date Analyzed: 07/26/06

Instrument ID: BNA3 Time Analyzed: 1545

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	92616	5.45	413930	8.06	254076	12.19
	UPPER LIMIT	185232	5.95	827860	8.56	508152	12.69
	LOWER LIMIT	46308	4.95	206965	7.56	127038	11.69
	CLIENT SAMPLE NO.						
01	SBLK0726B1	96876	5.45	369342	8.06	234825	12.19
02	SBLK0726B1LC	103543	5.45	408228	8.07	276446	12.19
03	SBLK0726B1LC	101825	5.45	398713	8.07	259037	12.19
04	51EQB3W06072	127568	5.46	495197	8.06	294964	12.19
05	51EQB4W06072	111293	5.45	440087	8.07	270999	12.19
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): PAHCCV Date Analyzed: 07/26/06

Instrument ID: BNA3 Time Analyzed: 1545

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	373328		15.72		291632		22.13		226244		25.34	
	UPPER LIMIT	746656		16.22		583264		22.63		452488		25.84	
	LOWER LIMIT	186664		15.22		145816		21.63		113122		24.84	
	CLIENT SAMPLE NO.												
01	SBLK0726B1	312423		15.71		186431		22.13		156453		25.33	
02	SBLK0726B1LC	392391		15.70		312815		22.13		218844		25.34	
03	SBLK0726B1LC	391919		15.70		327389		22.13		248196		25.33	
04	51EQB3W06072	401249		15.71		258883		22.14		189055		25.33	
05	51EQB4W06072	357579		15.72		246153		22.13		202966		25.33	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): CCV050S Date Analyzed: 07/27/06

Instrument ID: BNA1 Time Analyzed: 1316

		IS1 (DCB)			IS2 (NPT)			IS3 (ANT)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	405227		4.09		1357937		5.06		659078		7.32	
	UPPER LIMIT	810454		4.59		2715874		5.56		1318156		7.82	
	LOWER LIMIT	202614		3.59		678969		4.56		329539		6.82	
	CLIENT SAMPLE NO.												
01	51CFM09S0607	371997		4.09		1275860		5.05		597300		7.32	
02	51DUP1S06072	503033		4.09		1596069		5.05		759901		7.32	
03	51CFM11S0607	459373		4.08		1452943		5.05		721294		7.32	
04	51CFM15S0607	433073		4.09		1357876		5.05		633856		7.32	
05	51CFM14S0607	424414		4.09		1397180		5.05		679471		7.32	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Lab File ID (Standard): CCV050S Date Analyzed: 07/27/06

Instrument ID: BNA1 Time Analyzed: 1316

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	904552		10.51		560900		17.85		500591		21.66	
	UPPER LIMIT	1809104		11.01		1121800		18.35		1001182		22.16	
	LOWER LIMIT	452276		10.01		280450		17.35		250296		21.16	
	CLIENT SAMPLE NO.												
01	51CFM09S0607	676934		10.50		346628		17.83		192844	*	21.64	
02	51DUP1S06072	865526		10.50		481518		17.84		263471		21.64	
03	51CFM11S0607	814002		10.50		483363		17.84		271869		21.64	
04	51CFM15S0607	744717		10.50		416505		17.83		258138		21.64	
05	51CFM14S0607	743615		10.50		416116		17.84		250985		21.66	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:22

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721101.D
Report Date: 27-Jul-2006 07:40

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721101.D
Lab Smp Id: 0607022-01 Client Smp ID: 51EQB1W060706
Inj Date : 26-JUL-2006 18:22 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-01;1;1000;500;1;UG/L;26-JUL-2006
Misc Info : ch2.b07211;;;;;072606B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:39 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1 1,4-Dichlorobenzene-d4	152	5.455	5.454	(1.000)	127568	1.00000	
* 3 Naphthalene-d8	136	8.058	8.057	(1.000)	495197	1.00000	
$ 4 Nitrobenzene-d5	82	6.585	6.584	(0.817)	157192	1.24025	0.6201
* 8 Acenaphthene-d10	164	12.191	12.190	(1.000)	294964	1.00000	
$ 10 2-Fluorobiphenyl	172	10.649	10.649	(0.874)	396231	1.11367	0.5568
* 16 Phenanthrene-d10	188	15.707	15.718	(1.000)	401249	1.00000	
* 20 Chrysene-d12	240	22.135	22.134	(1.000)	258883	1.00000	
$ 22 Terphenyl-d14	244	19.691	19.702	(0.890)	567080	2.30078	1.150
* 25 Perylene-d12	264	25.331	25.342	(1.000)	189055	1.00000	

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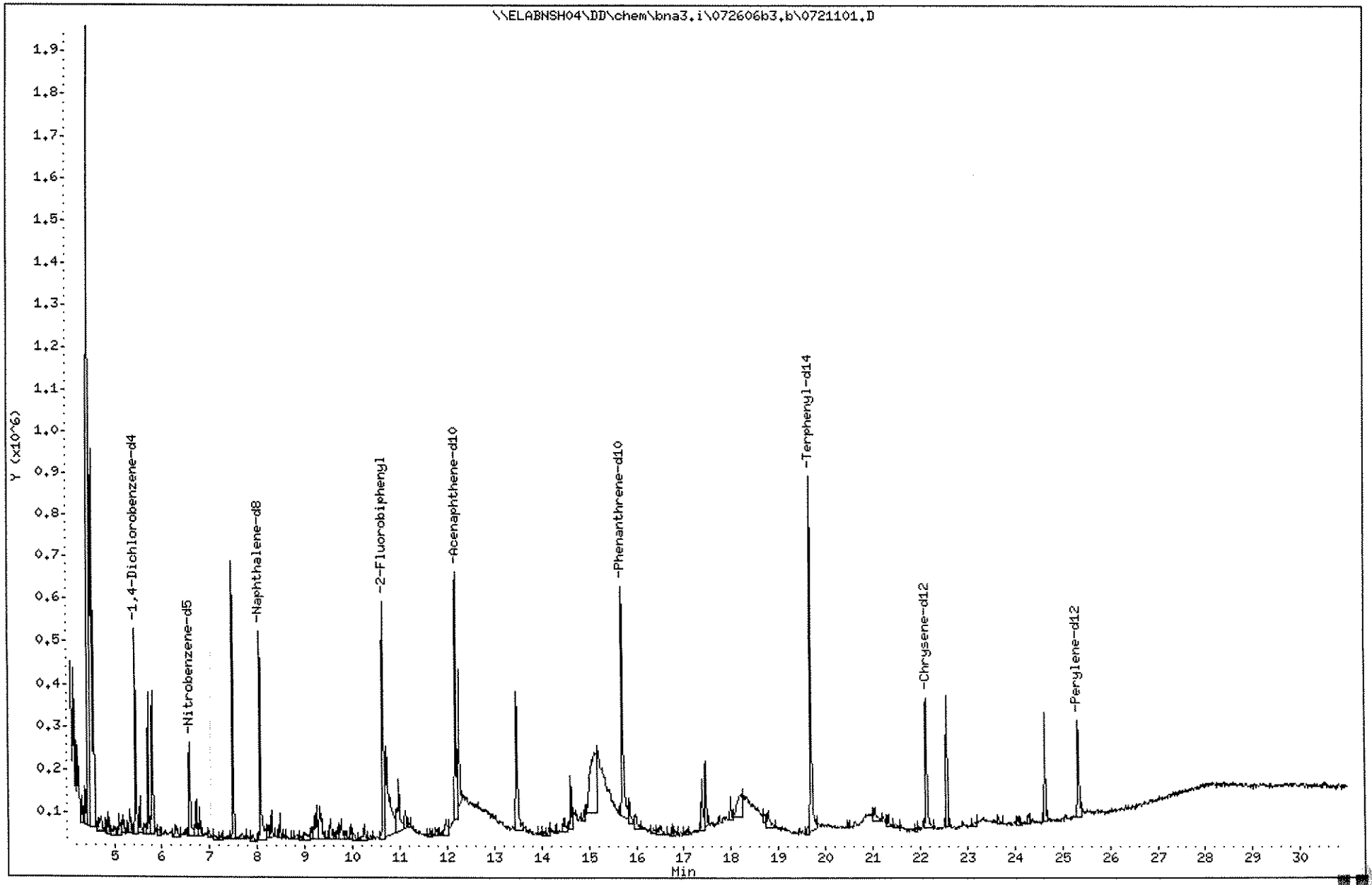
Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721101.D
Date : 26-JUL-2006 18:22
Client ID: 51EQB1W060706
Instrument: bna3.i
Sample Info: 0607022-01;1;1000;500;1;UG/L;26-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000029



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0721102

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721102.D
Report Date: 27-Jul-2006 07:40

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Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721102.D
Lab Smp Id: 0607022-02 Client Smp ID: 51EQB2W060706
Inj Date : 26-JUL-2006 19:02 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : 0607022-02;1;1000;500;1;UG/L;26-JUL-2006
Misc Info : ch2.b07211;;;;;072606B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:39 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.451	5.454	(1.000)	111293	1.00000	
*	3 Naphthalene-d8	136	8.066	8.057	(1.000)	440087	1.00000	
$	4 Nitrobenzene-d5	82	6.582	6.584	(0.816)	161326	1.43226	0.7161
*	8 Acenaphthene-d10	164	12.187	12.190	(1.000)	270999	1.00000	
$	10 2-Fluorobiphenyl	172	10.646	10.649	(0.874)	394877	1.20801	0.6040
*	16 Phenanthrene-d10	188	15.715	15.718	(1.000)	357579	1.00000	
*	20 Chrysene-d12	240	22.131	22.134	(1.000)	246153	1.00000	
$	22 Terphenyl-d14	244	19.700	19.702	(0.890)	501637	2.14052	1.070
*	25 Perylene-d12	264	25.328	25.342	(1.000)	202966	1.00000	

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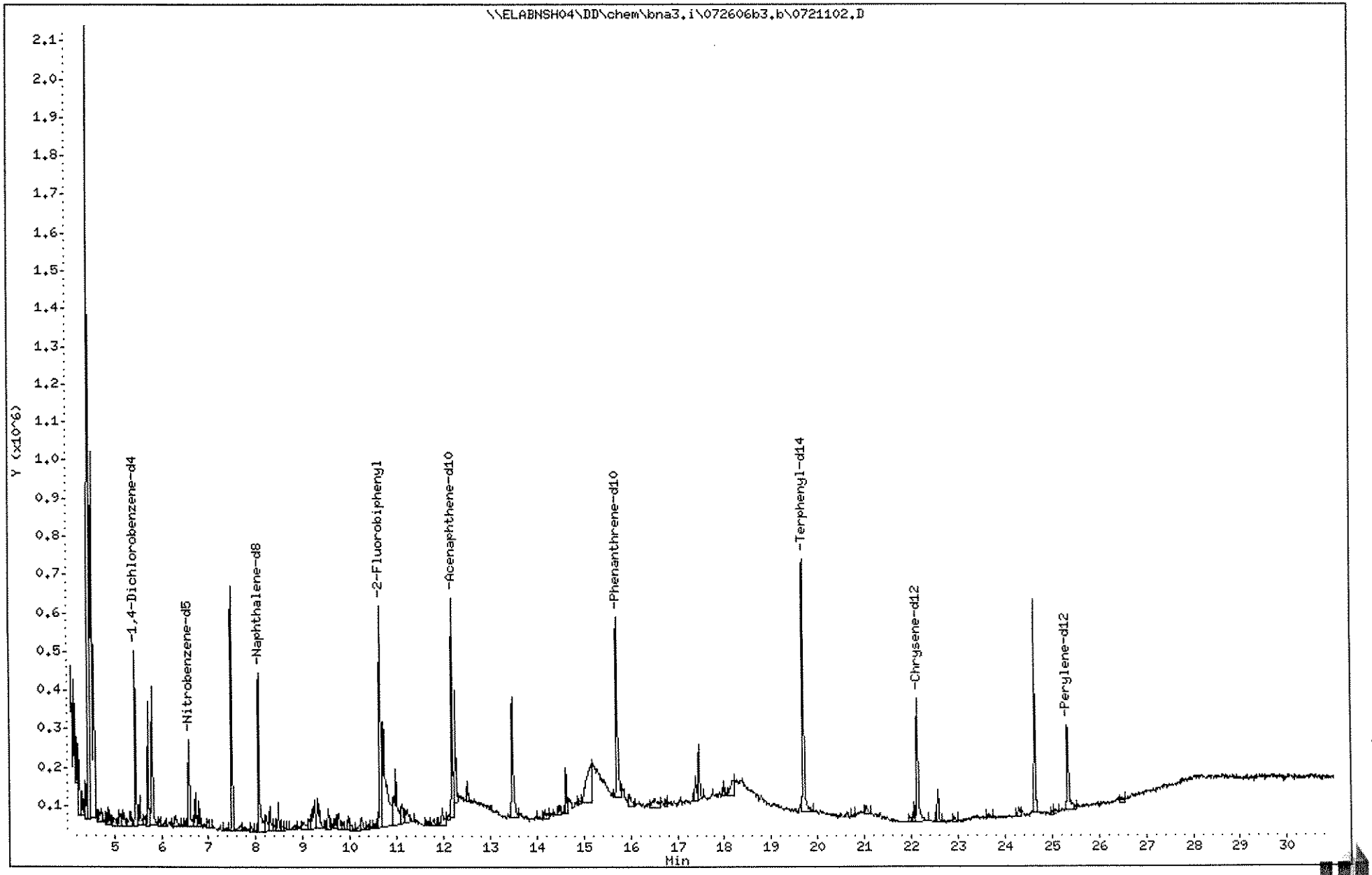
Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\0721102.D
Date : 26-JUL-2006 19:02
Client ID: 51EQB2W060706
Instrument: bna3.i
Sample Info: 0607022-02;1;1000;500;1;UG/L;26-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000032



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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 15:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	220	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	510	
56-55-3	Benzo(a)anthracene	21	170	3400	
205-99-2	Benzo(b)fluoranthene	21	170	4700	E
207-08-9	Benzo(k)fluoranthene	21	170	2000	
191-24-2	Benzo(g,h,i)perylene	21	170	1400	
50-32-8	Benzo(a)pyrene	21	100	3800	E
218-01-9	Chrysene	21	170	3800	E
53-70-3	Dibenz(a,h)anthracene	21	100	550	
206-44-0	Fluoranthene	21	170	5600	E
86-73-7	Fluorene	21	170	210	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1700	
91-57-6	2-Methylnaphthalene	21	170	50	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170	32	J
85-01-8	Phenanthrene	21	170	3500	E
129-00-0	Pyrene	21	170	5200	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D
Report Date: 27-Jul-2006 09:05

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725
Inj Date : 26-JUL-2006 15:44
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.000	Percent Solids

7/27/06

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1	1,4-Dichlorobenzene-d4	152	4.118	4.120	(1.000)	515518	40.0000	
*	31	Naphthalene-d8	136	5.085	5.088	(1.000)	1672070	40.0000	
$	32	Nitrobenzene-d5	82	4.543	4.553	(0.893)	482916	26.4572	916.1
	47	Naphthalene	128	5.099	5.108	(1.003)	39064	0.93965	32.54(a)
	51	2-Methylnaphthalene	141	5.811	5.815	(1.143)	34440	1.44172	49.92(a)
*	65	Acenaphthene-d10	164	7.377	7.382	(1.000)	842432	40.0000	
$	70	2-Fluorobiphenyl	172	6.341	6.345	(0.859)	697345	26.0118	900.7
	76	Acenaphthene	153	7.433	7.437	(1.007)	154598	6.35867	220.2
	84	Fluorene	166	8.422	8.434	(1.142)	156612	6.02260	208.5
*	97	Phenanthrene-d10	188	10.586	10.583	(1.000)	859665	40.0000	
	106	Phenanthrene	178	10.662	10.645	(1.007)	2487270	101.476	3514(A)
	107	Anthracene	178	10.745	10.755	(1.015)	358360	14.8090	512.8
	110	Fluoranthene	202	13.876	13.814	(1.311)	3926841	161.820	5603(AH)

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D
Report Date: 27-Jul-2006 09:05

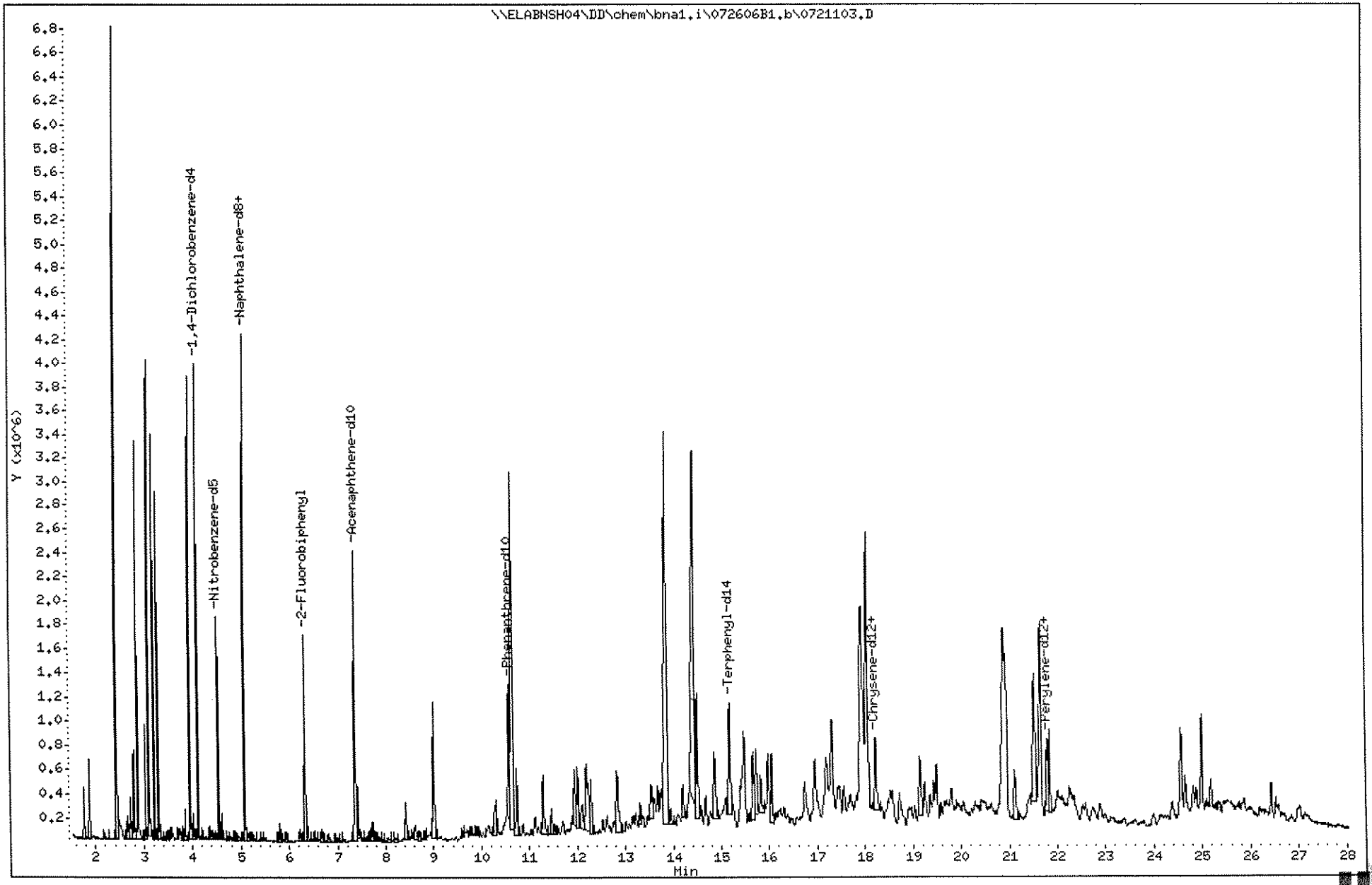
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 124 Chrysene-d12	240	17.976	17.933	(1.000)	639702	40.0000	
126 Pyrene	202	14.445	14.390	(0.804)	3847681	150.609	5215(AH)
$ 127 Terphenyl-d14	244	15.197	15.177	(0.845)	480044	29.7180	1029
130 Benzo(a)anthracene	228	17.948	17.885	(0.998)	2040386	98.9938	3428
131 Chrysene	228	17.948	18.002	(0.998)	2061912	109.529	3792(A)
* 145 Perylene-d12	264	21.796	21.736	(1.000)	585672	40.0000	
147 Benzo(b)fluoranthene	252	20.913	20.823	(0.960)	2430966	134.745	4666(AM)
148 Benzo(k)fluoranthene	252	20.962	20.893	(0.962)	1068633	57.0916	1977(M)
149 Benzo(a)pyrene	252	21.676	21.584	(0.995)	1719321	110.517	3827(AH)
150 Indeno(1,2,3-cd)pyrene	276	24.579	24.521	(1.128)	644240	48.5376	1681
151 Dibenz(a,h)anthracene	278	24.657	24.618	(1.131)	213687	15.9919	553.7
152 Benzo(g,h,i)perylene	276	25.009	24.961	(1.147)	565548	41.0592	1422

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D
Date : 26-JUL-2006 15:44
Client ID: 51CFM09S060725
Instrument: bna1.i
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000036



Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

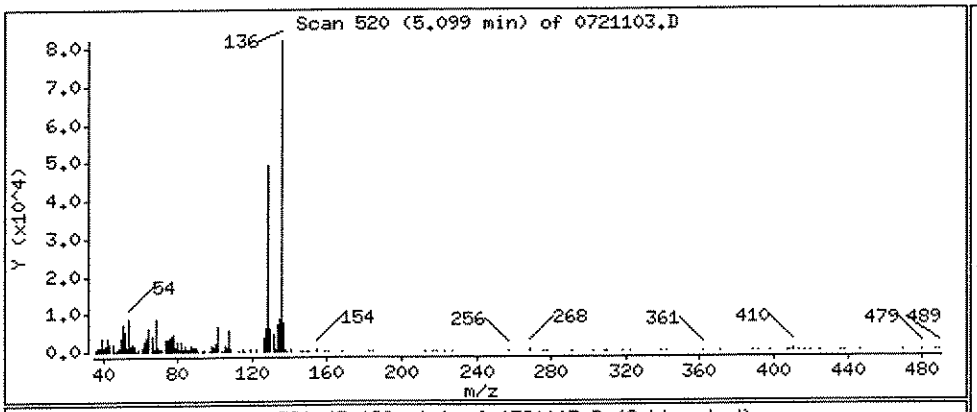
Client ID: 51CFM09S060725 Instrument: bna1.i

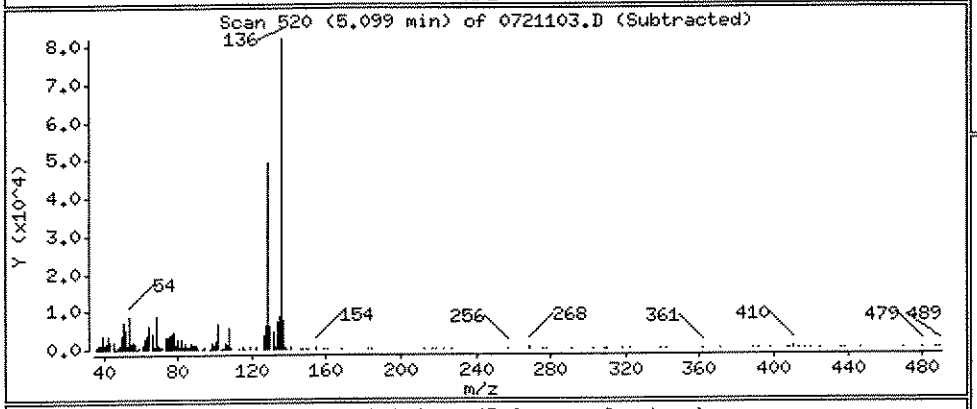
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

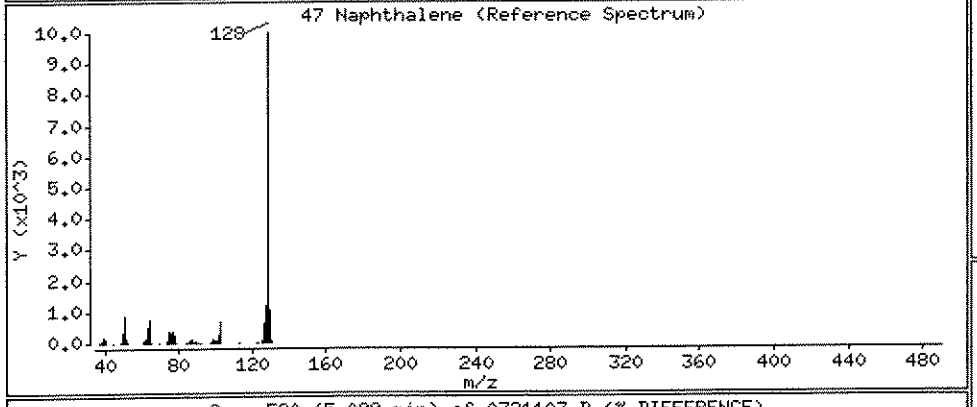
Volume Injected (uL): 0.5 Operator: SDB

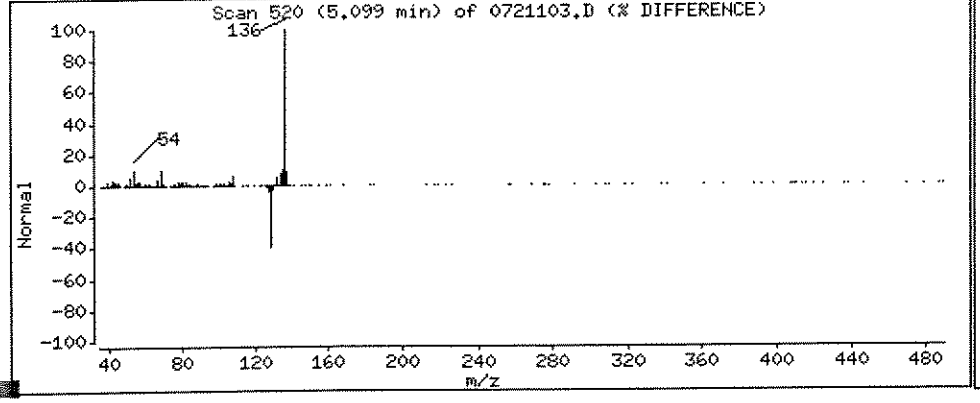
Column phase: fused silica Column diameter: 0.25

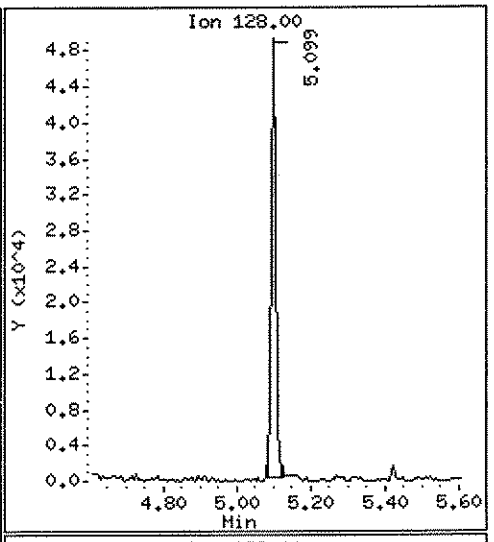
47 Naphthalene Concentration: 30.91 UG/KG

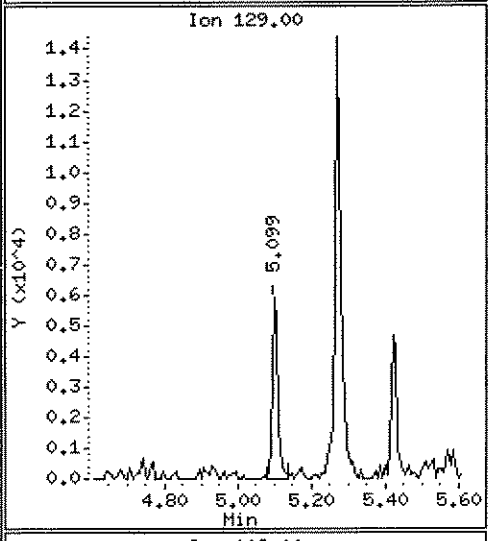


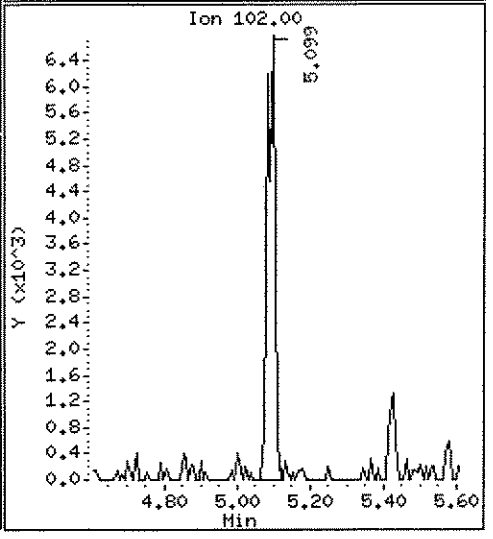












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

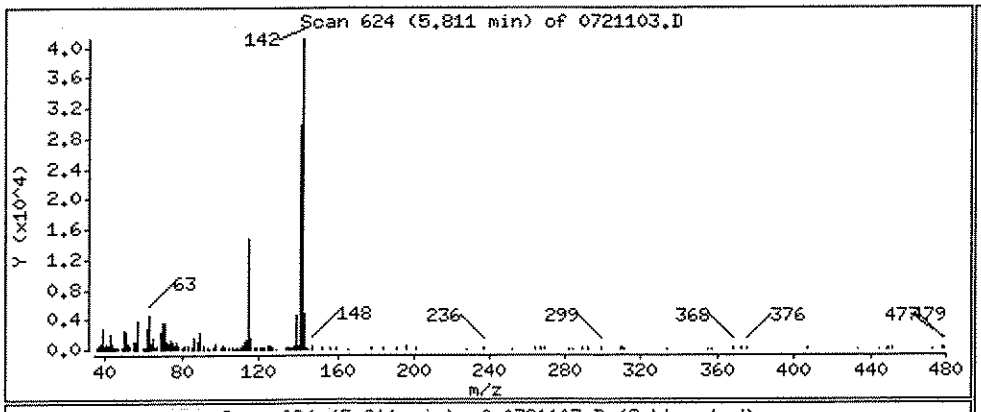
Client ID: 51CFM09S060725 Instrument: bna1.i

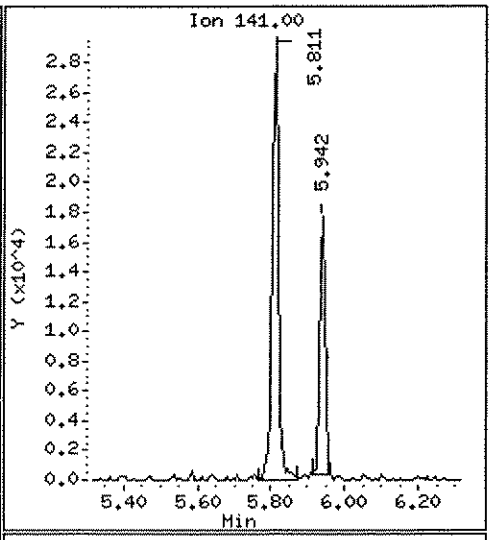
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

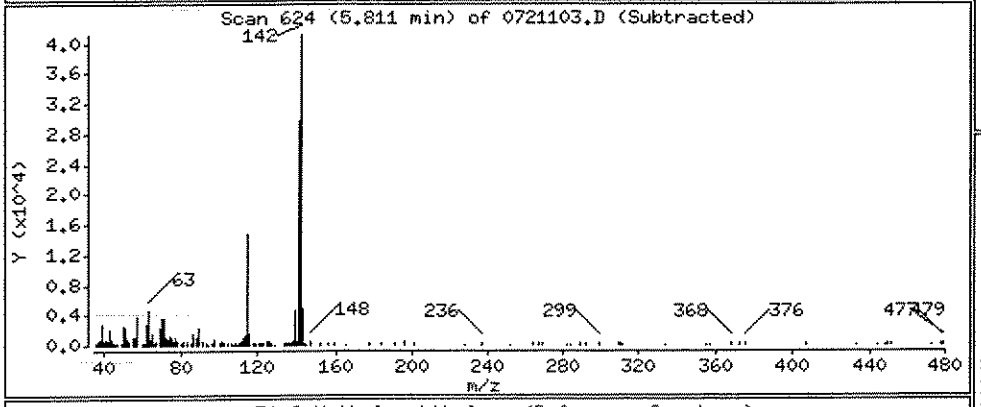
Volume Injected (uL): 0.5 Operator: SDB

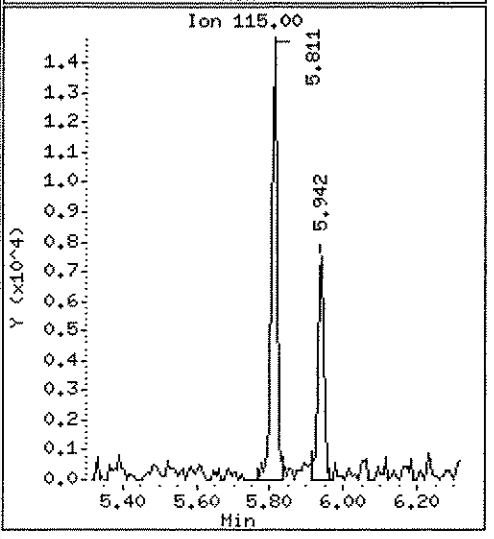
Column phase: fused silica Column diameter: 0.25

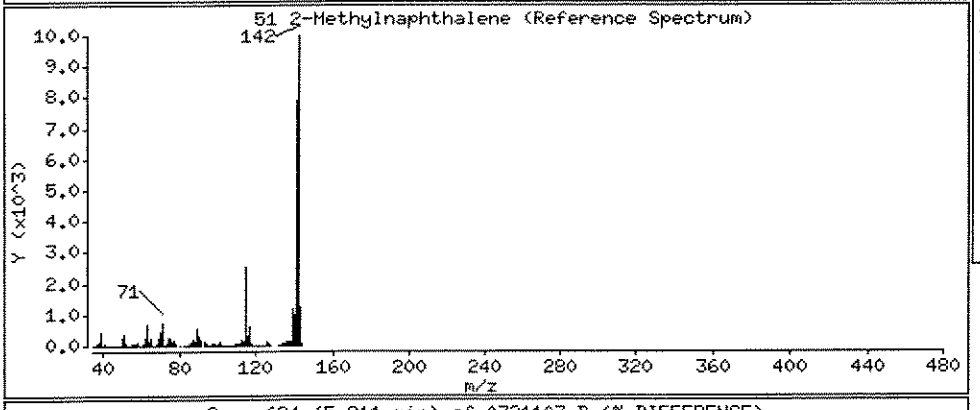
51 2-Methylnaphthalene Concentration: 47.42 UG/KG

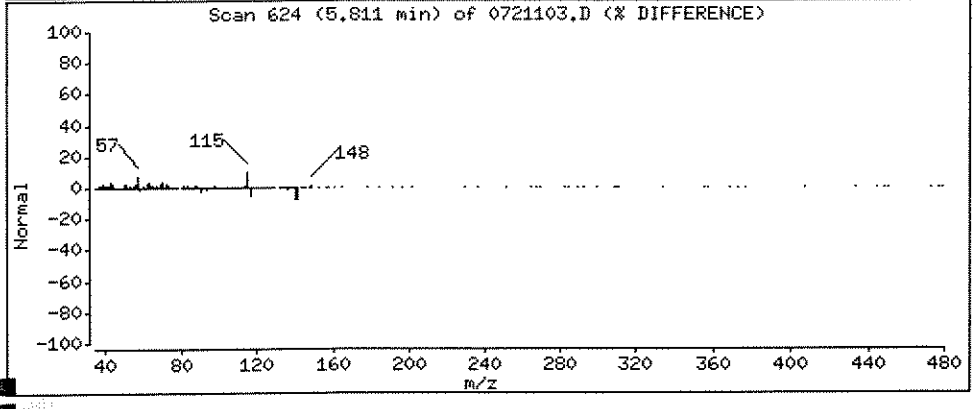












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

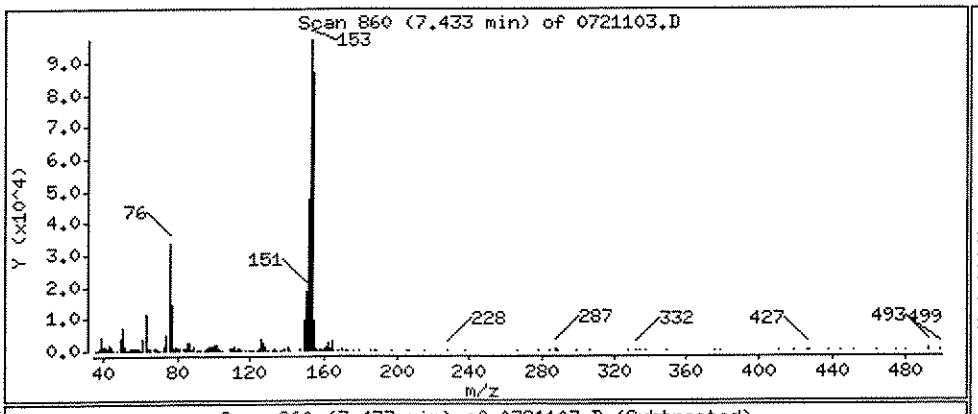
Client ID: 51CFM09S060725 Instrument: bna1.i

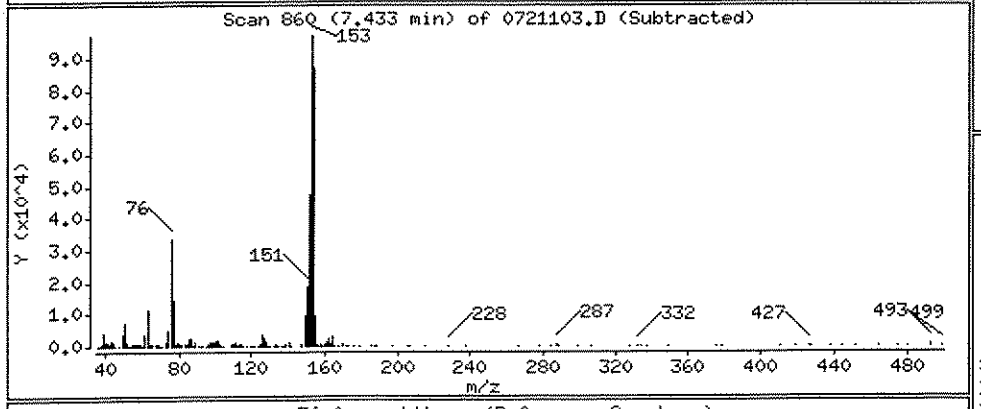
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

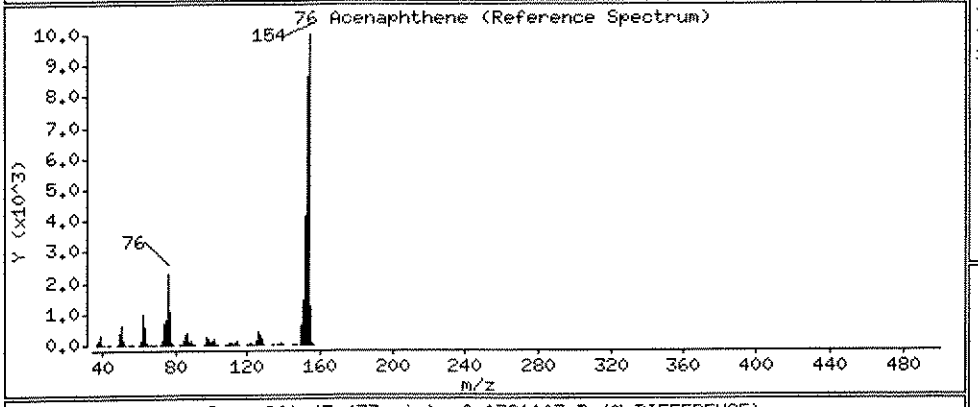
Volume Injected (uL): 0.5 Operator: SDB

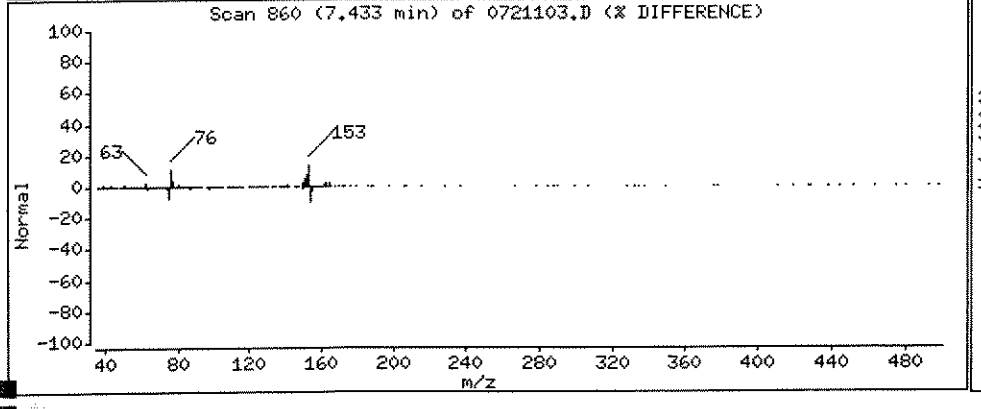
Column phase: fused silica Column diameter: 0.25

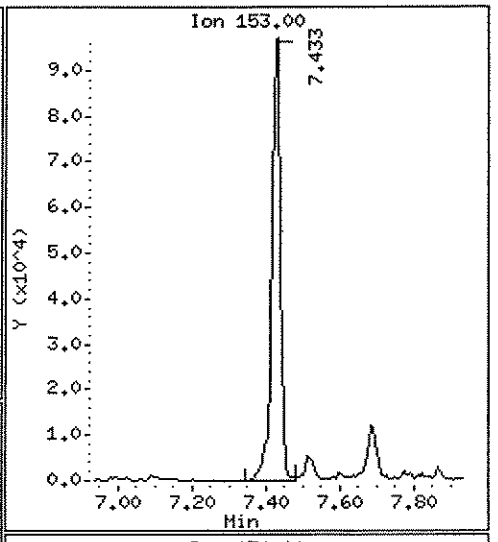
76 Acenaphthene Concentration: 209.2 UG/KG

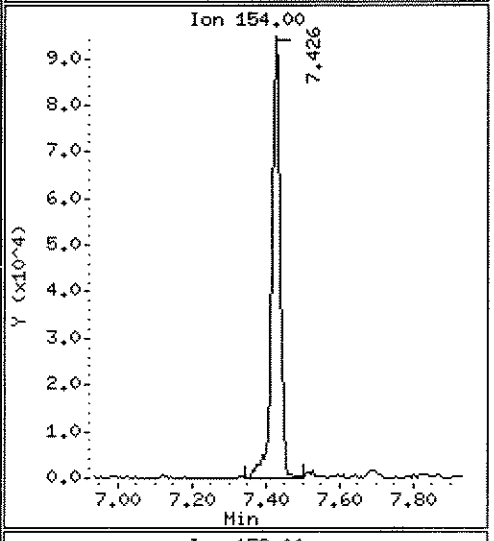


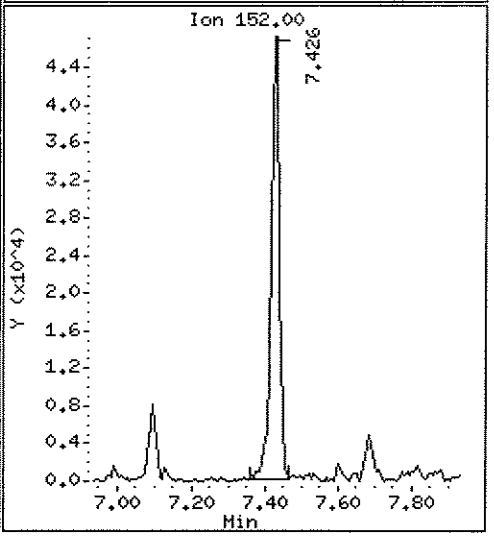












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

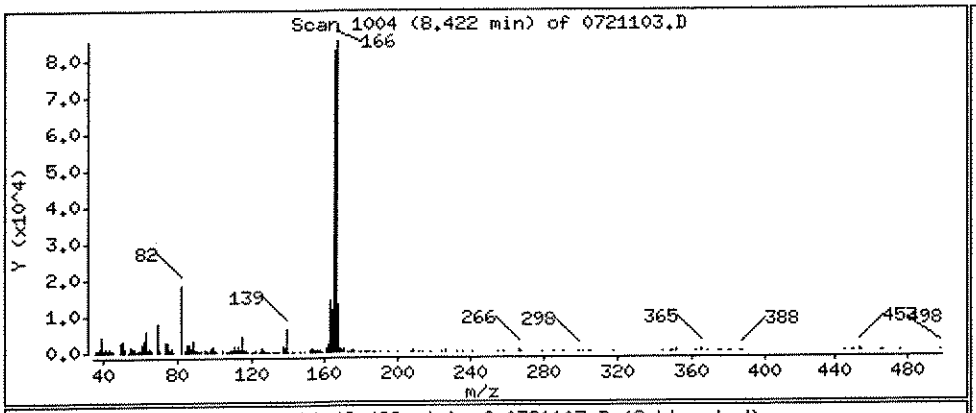
Operator: SDB

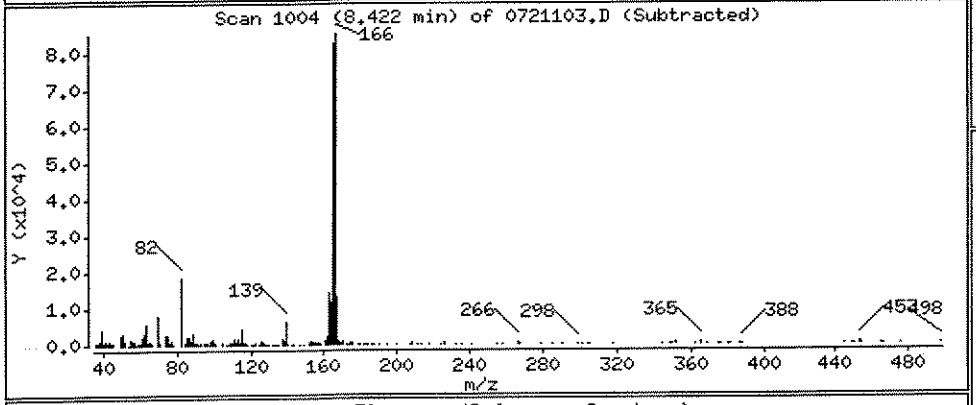
Column phase: fused silica

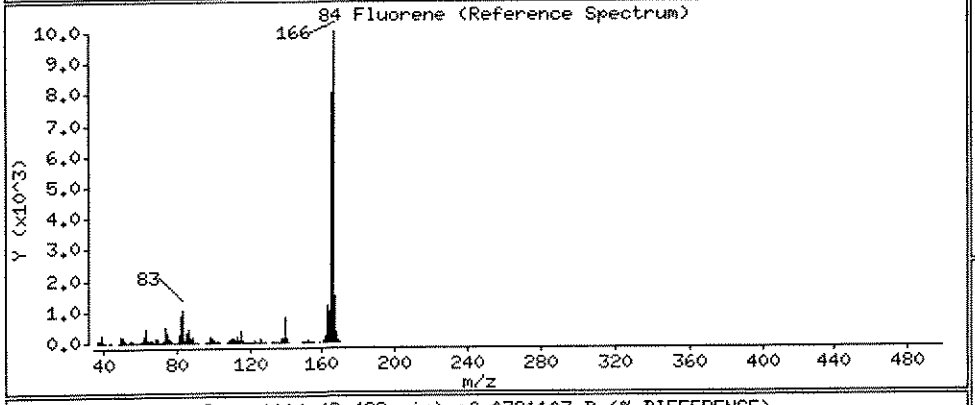
Column diameter: 0.25

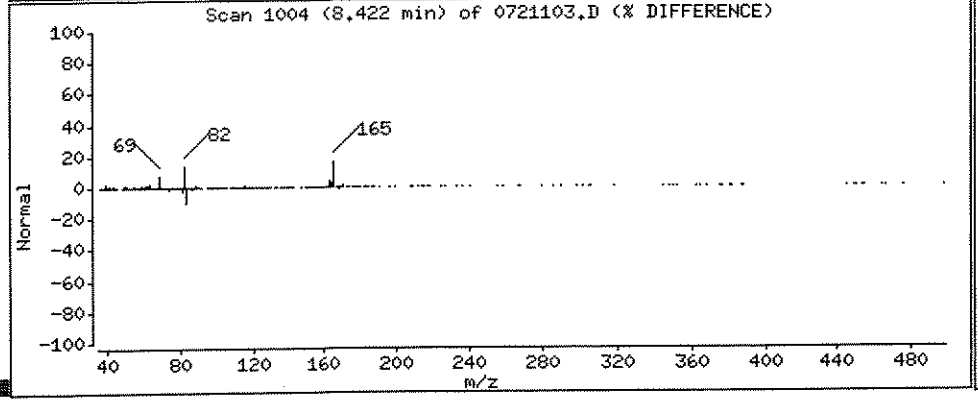
84 Fluorene

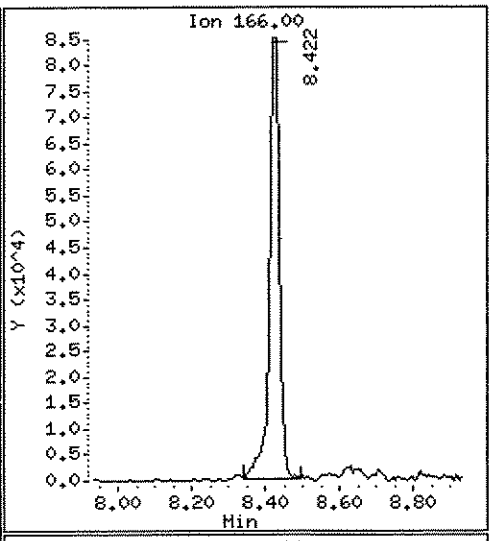
Concentration: 198.1 UG/KG

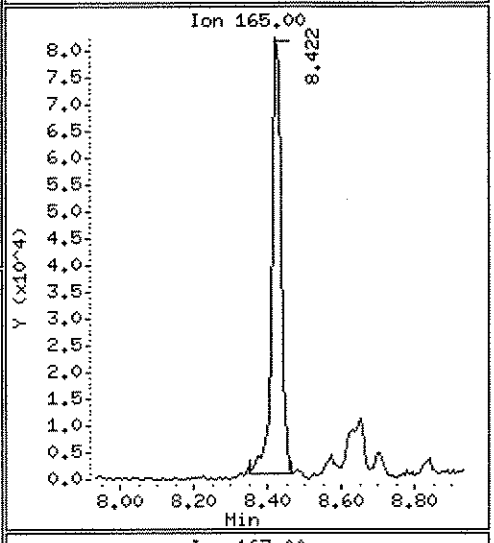


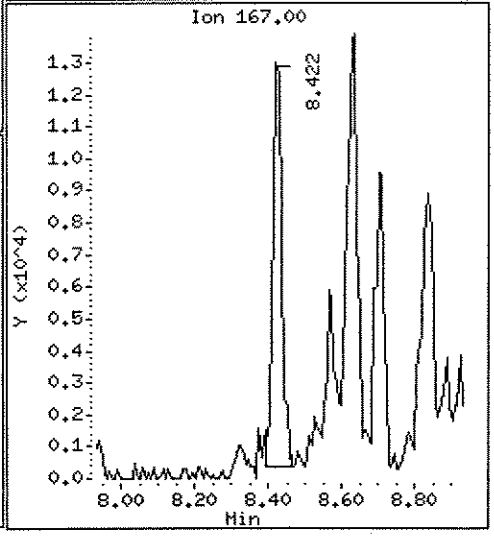












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

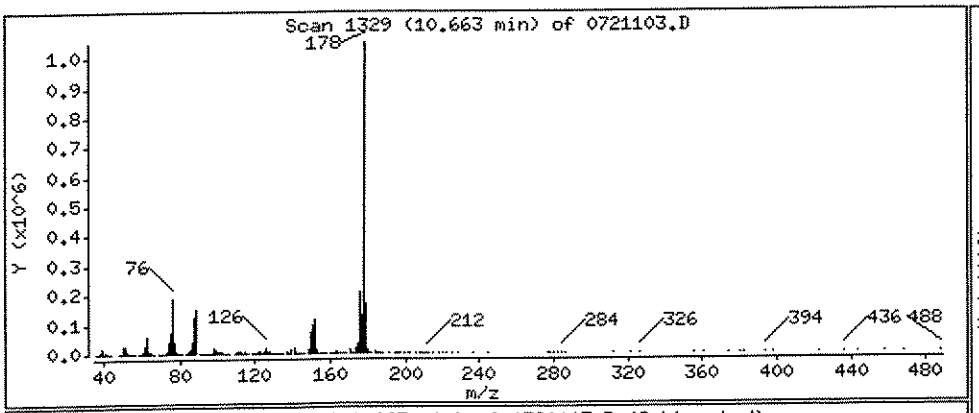
Operator: SDB

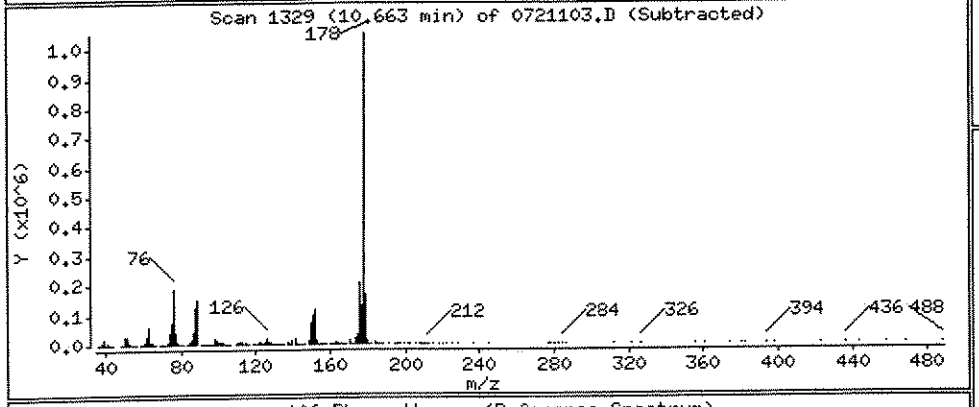
Column phase: fused silica

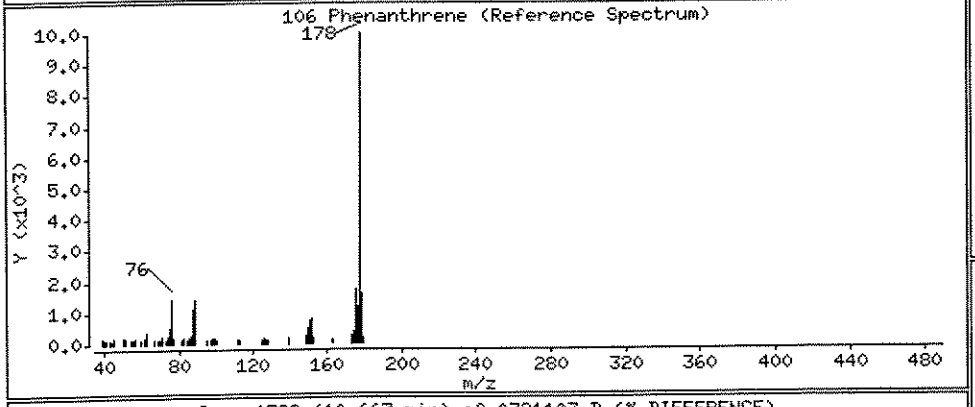
Column diameter: 0.25

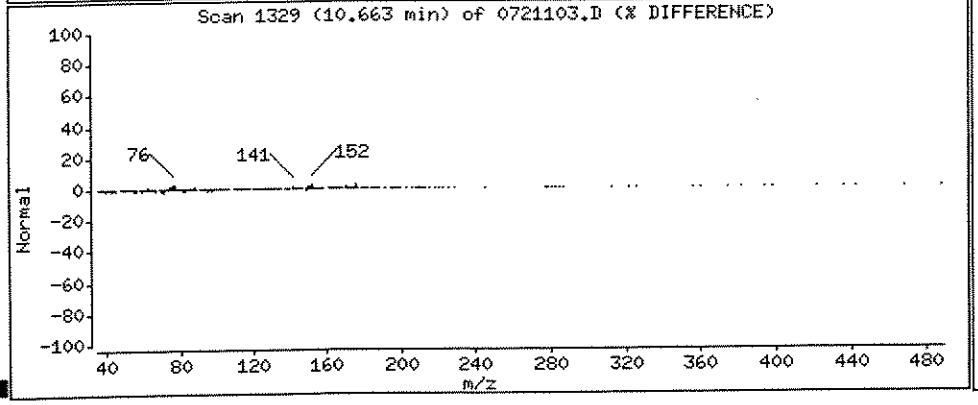
106 Phenanthrene

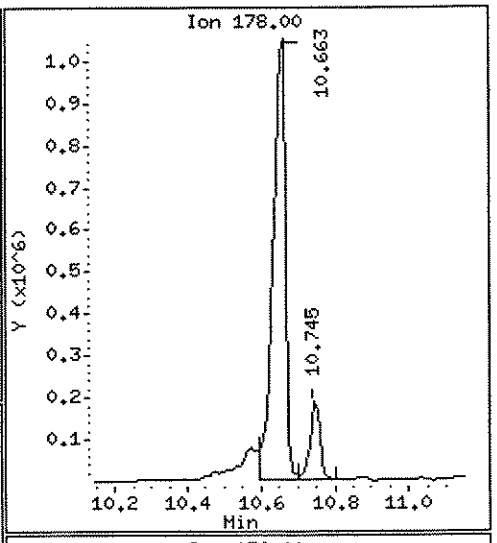
Concentration: 3338 UG/KG

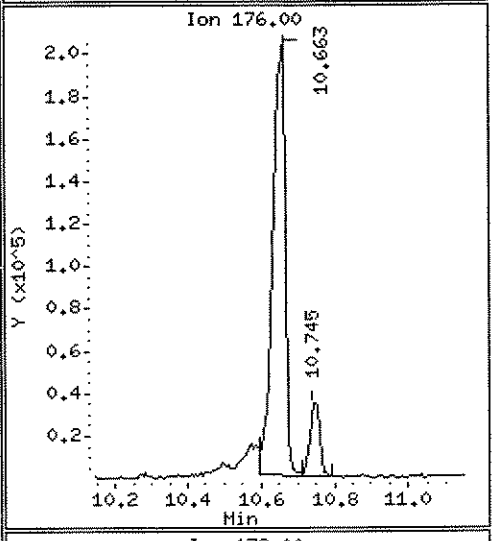


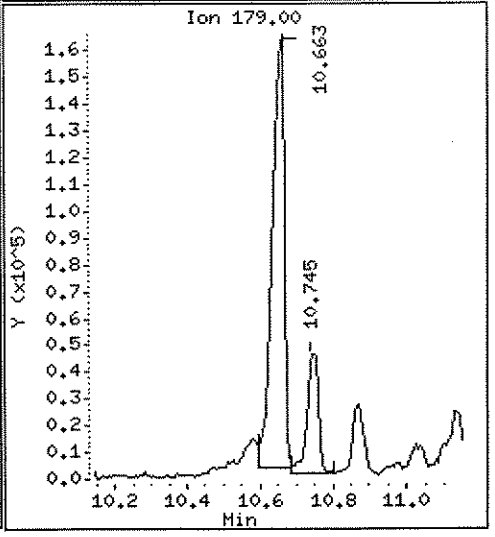












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

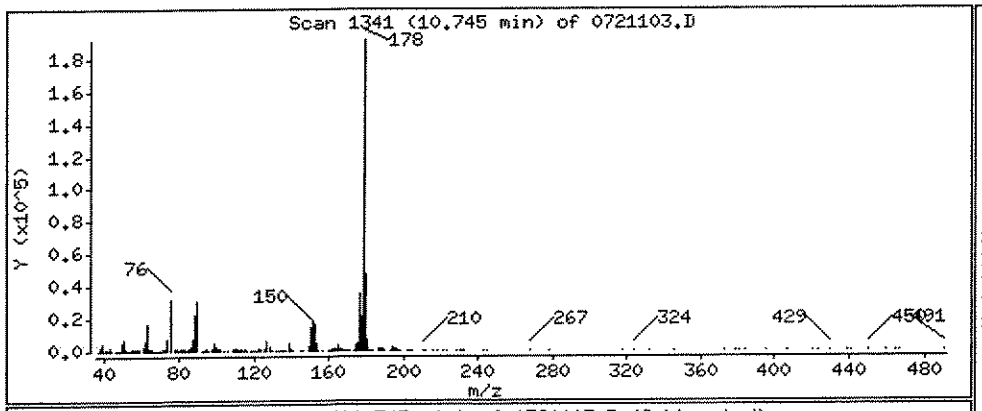
Client ID: 51CFM09S060725 Instrument: bna1.i

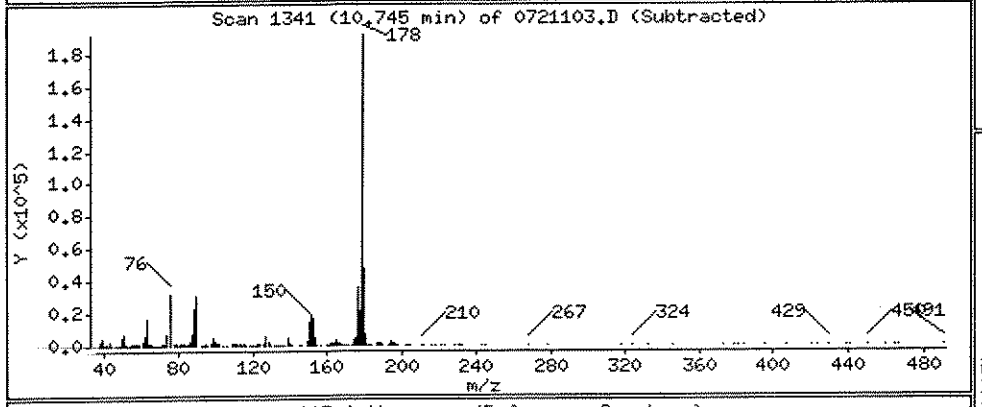
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

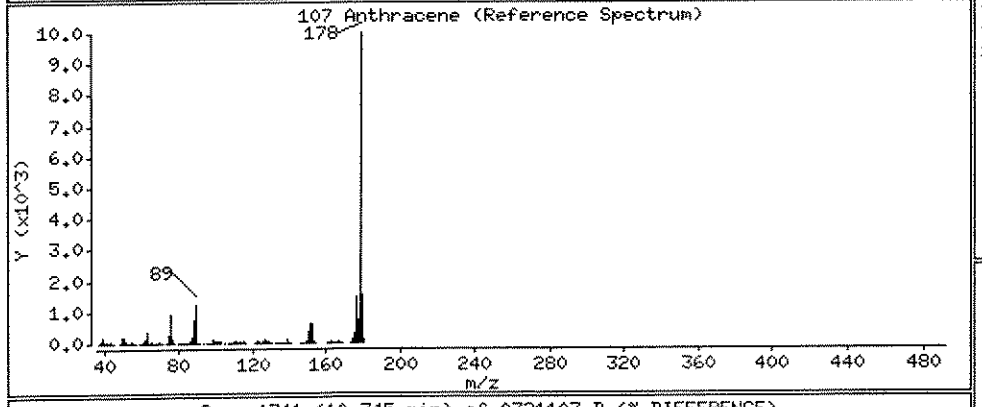
Volume Injected (uL): 0.5 Operator: SDB

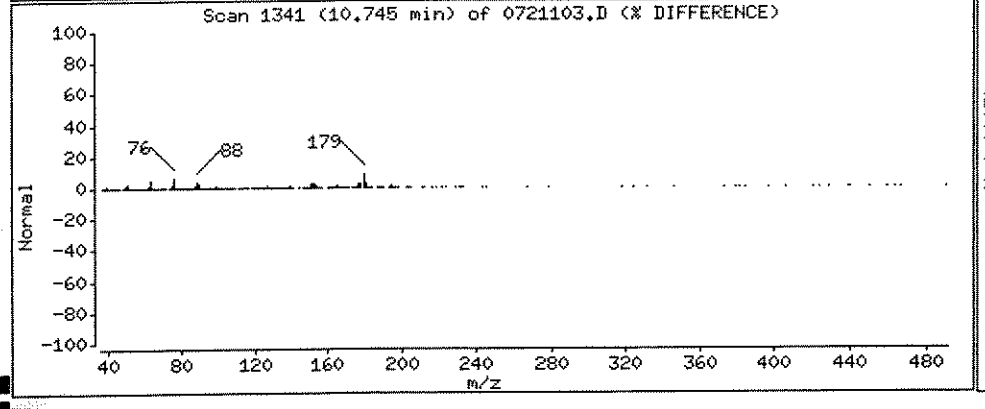
Column phase: fused silica Column diameter: 0.25

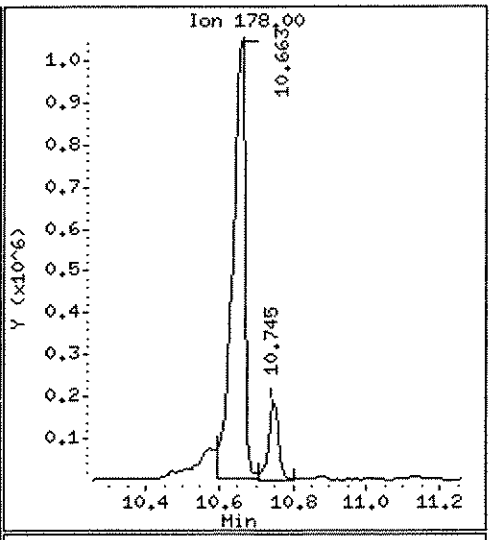
107 Anthracene Concentration: 487.1 UG/KG

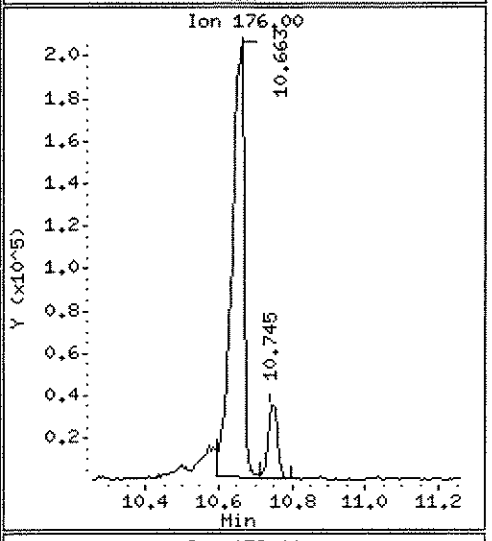


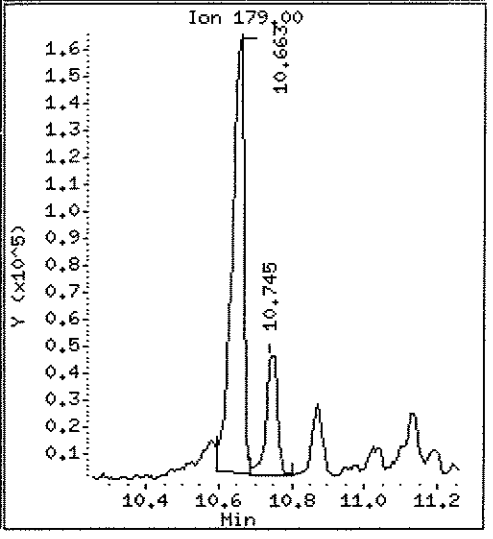












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

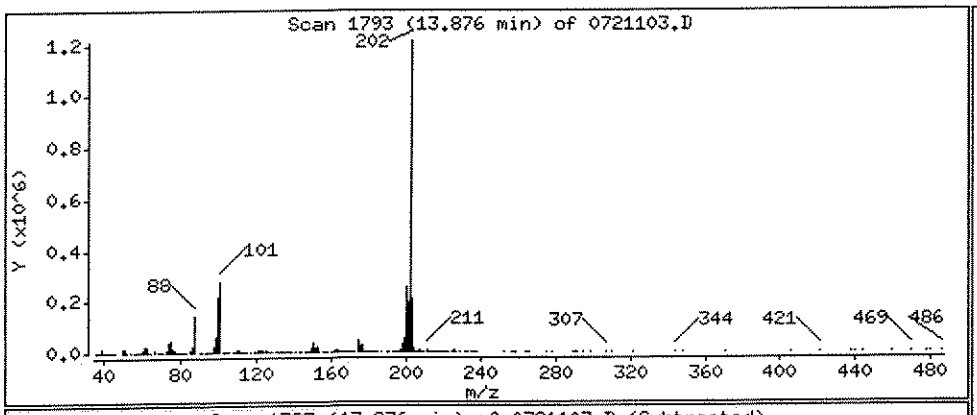
Client ID: 51CFM09S060725 Instrument: bna1.i

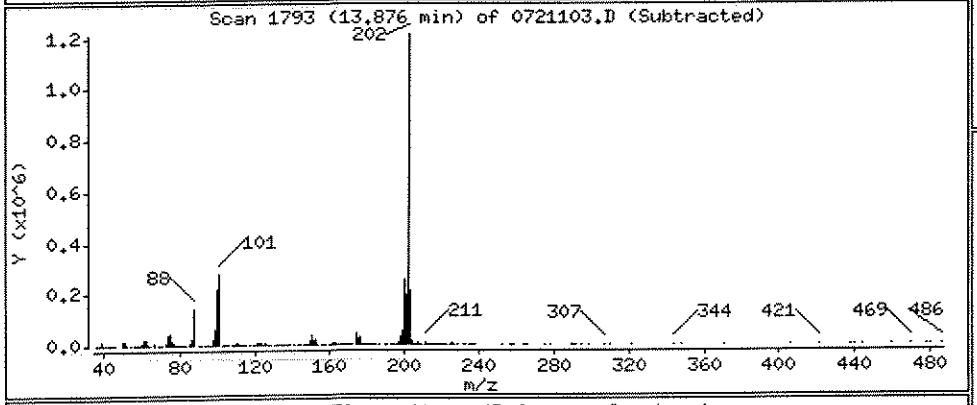
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

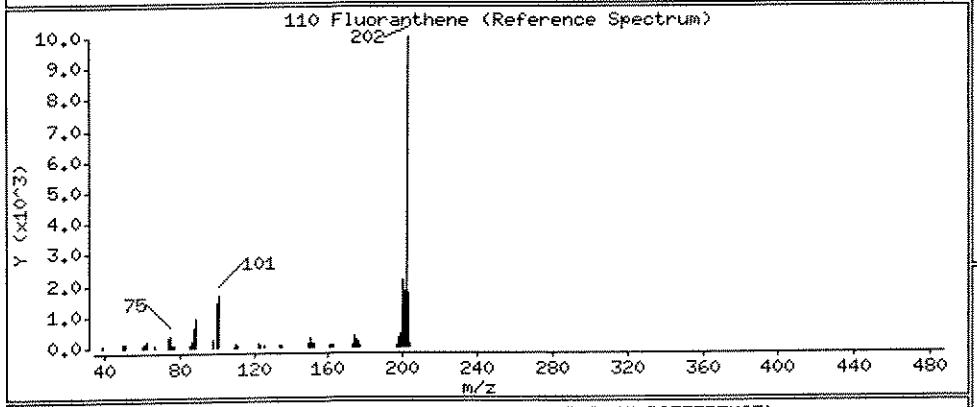
Volume Injected (uL): 0.5 Operator: SDB

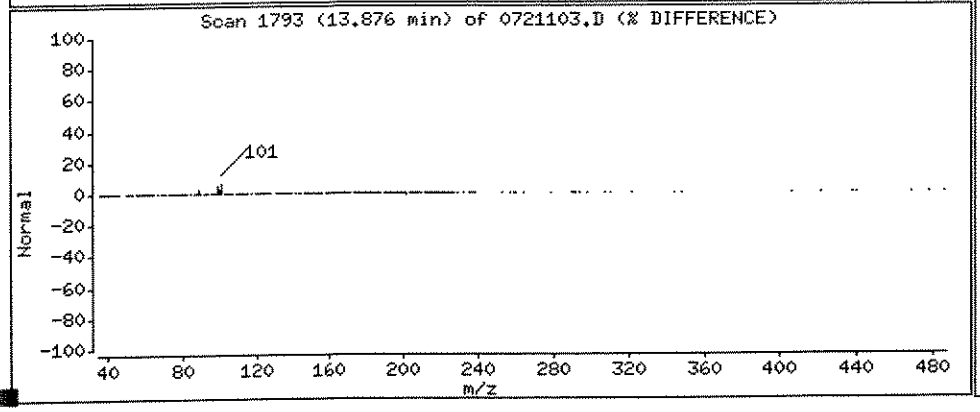
Column phase: fused silica Column diameter: 0.25

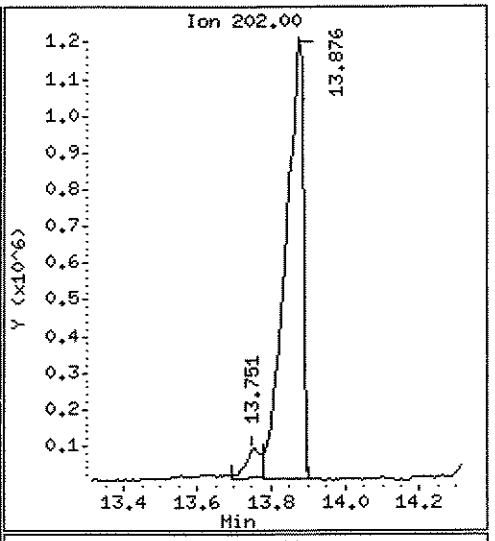
110 Fluoranthene Concentration: 5323 UG/KG

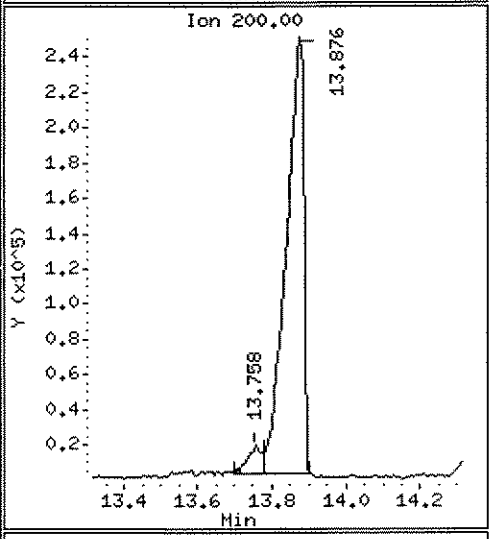


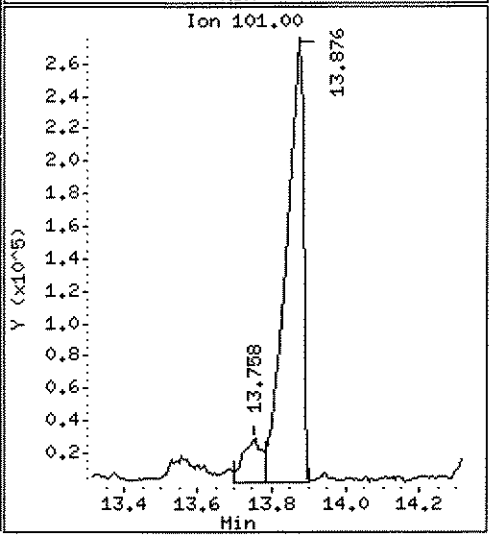












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

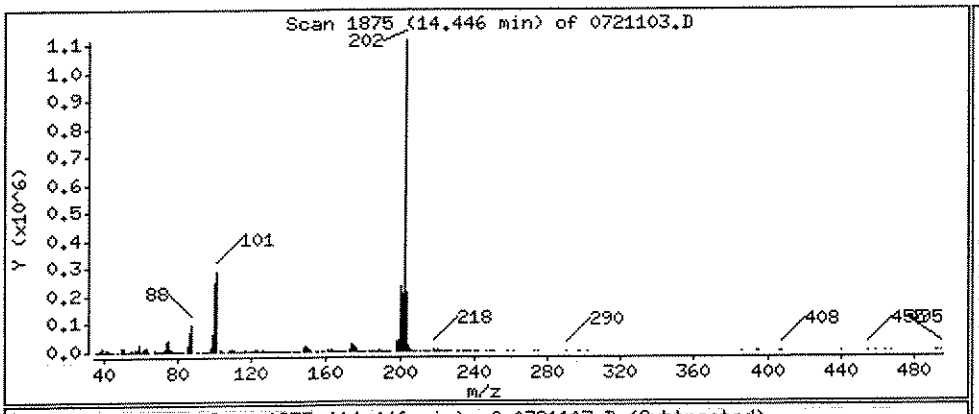
Client ID: 51CFM09S060725 Instrument: bna1.i

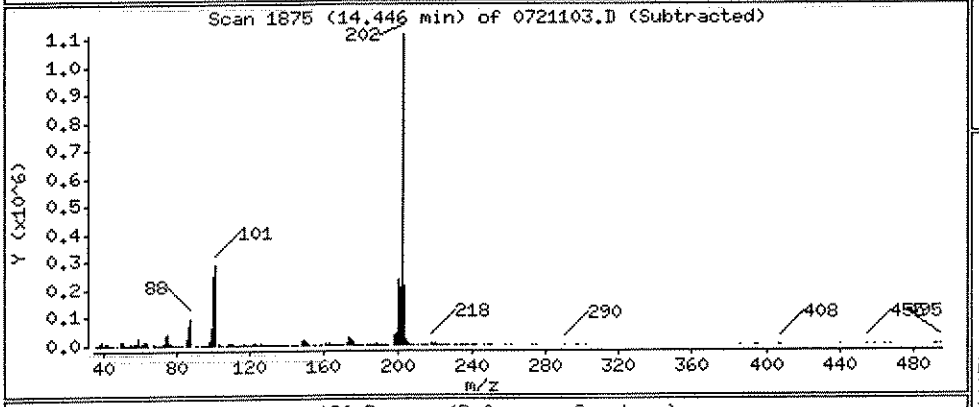
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

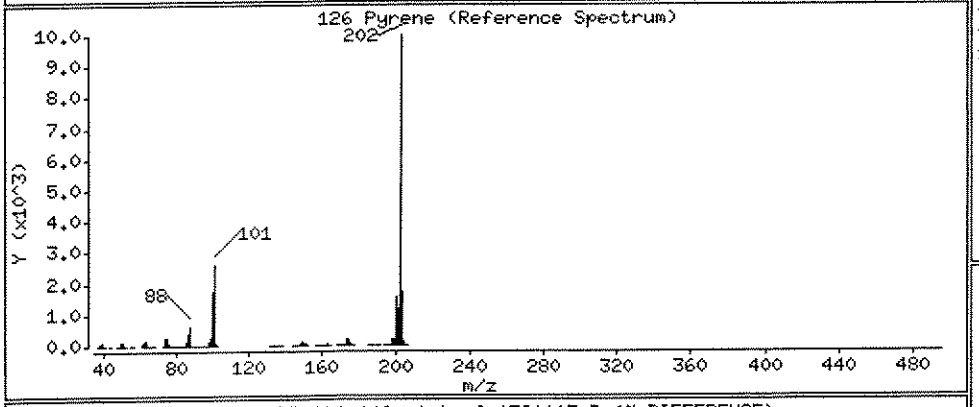
Volume Injected (uL): 0.5 Operator: SDB

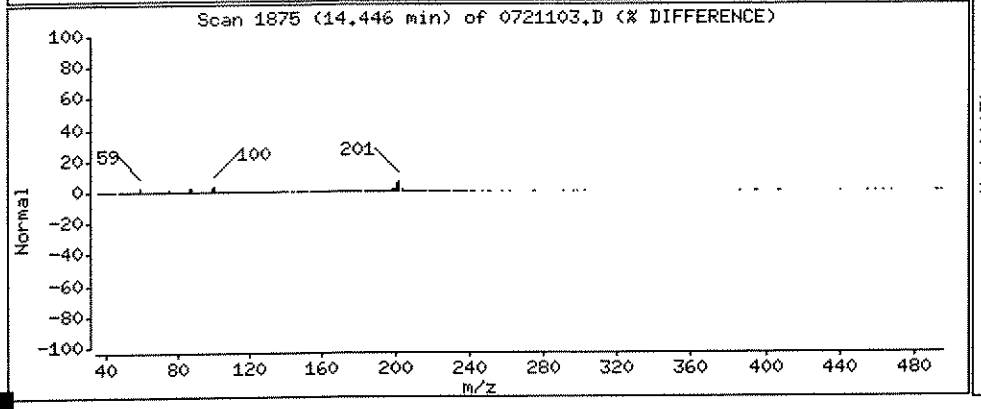
Column phase: fused silica Column diameter: 0.25

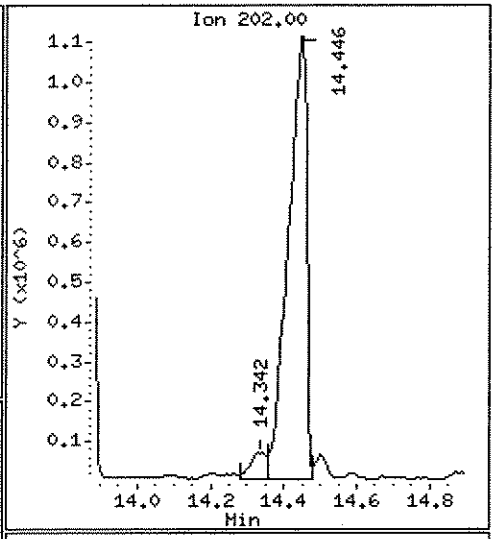
126 Pyrene Concentration: 4954 UG/KG

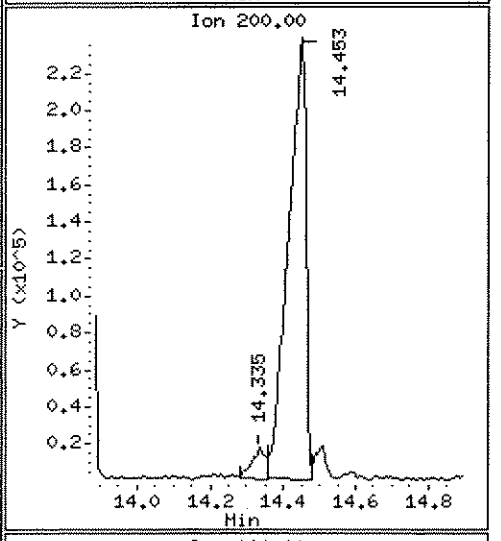


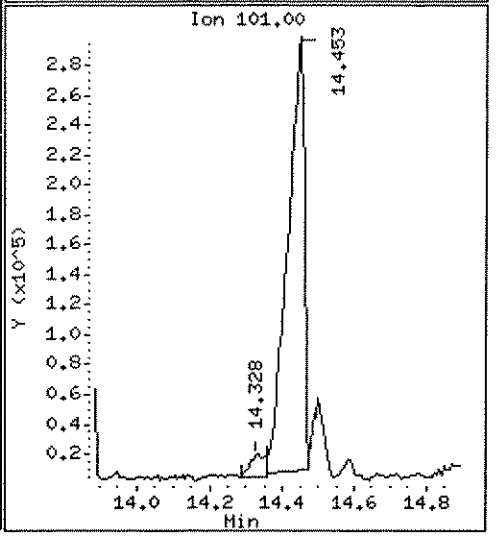












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

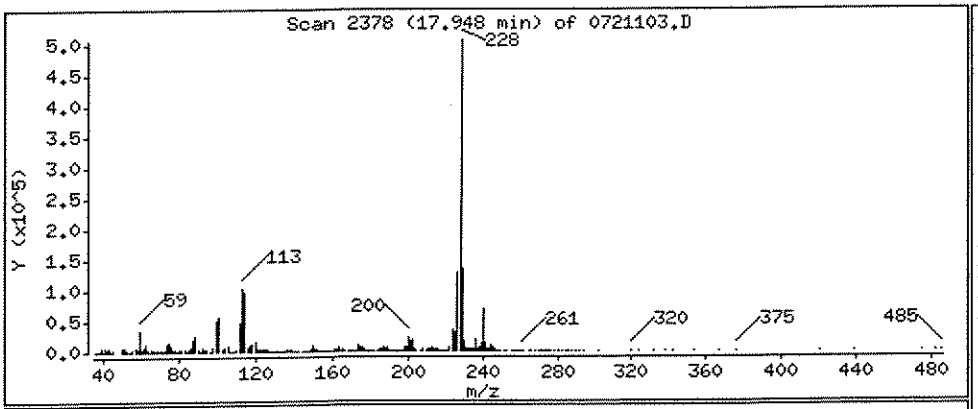
Client ID: 51CFM09S060725 Instrument: bna1.i

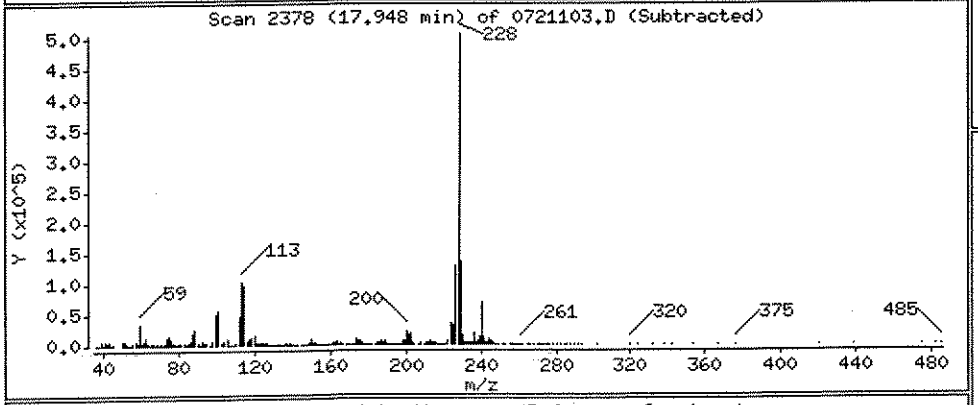
Sample Info: 0607211-03:15.2:500:1:UG/KG:26-JUL-2006

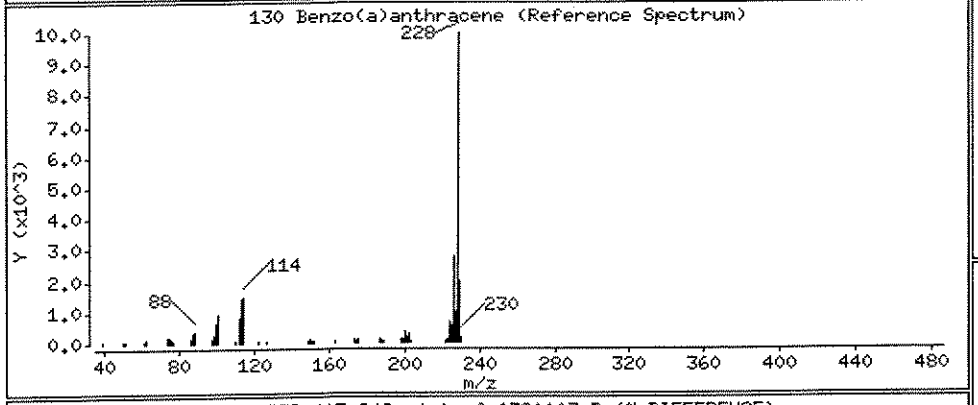
Volume Injected (uL): 0.5 Operator: SDB

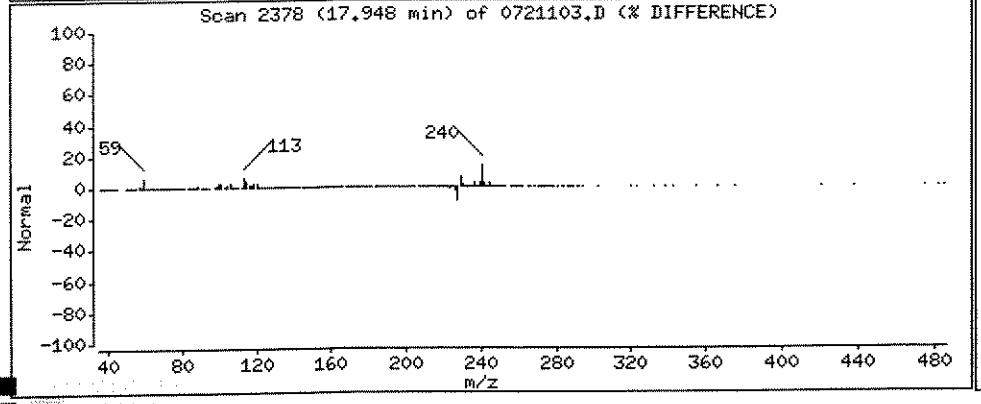
Column phase: fused silica Column diameter: 0.25

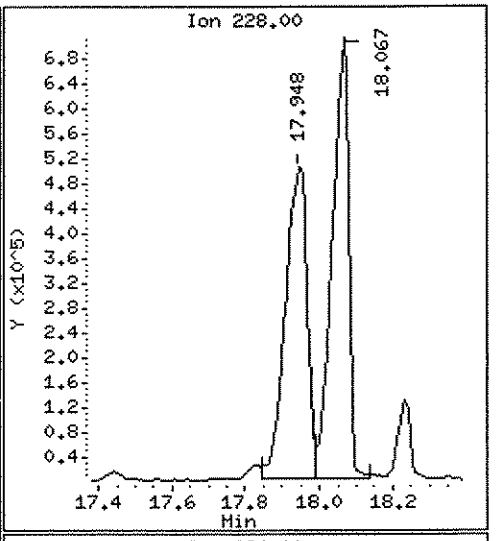
130 Benzo(a)anthracene Concentration: 3256 UG/KG

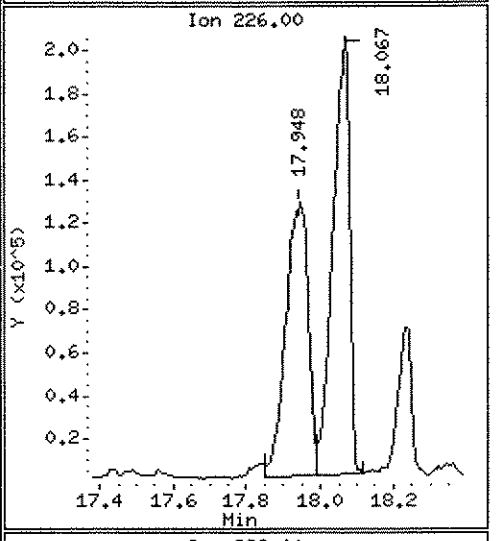


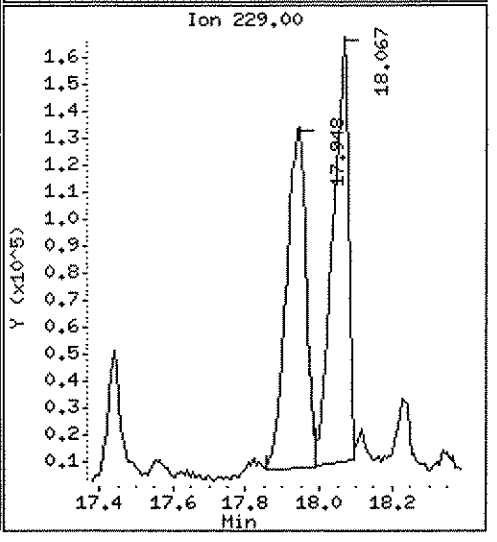












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

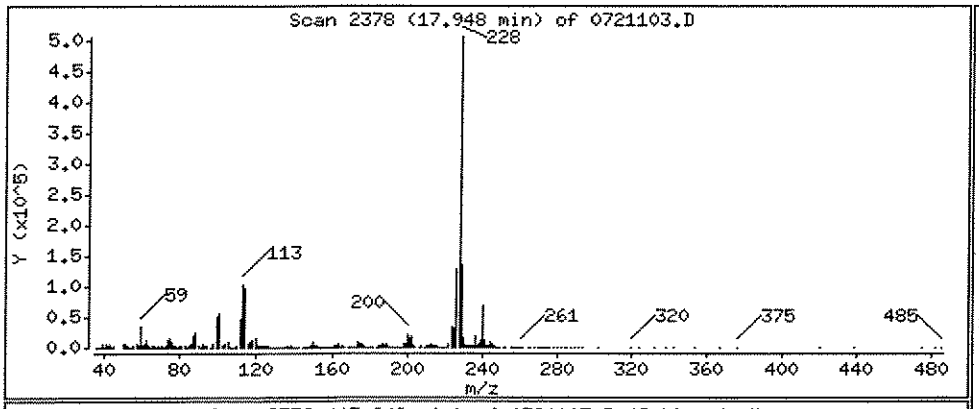
Client ID: 51CFM09S060725 Instrument: bna1.i

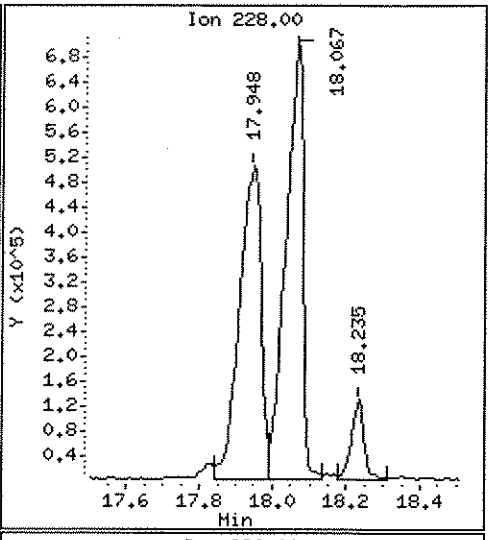
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

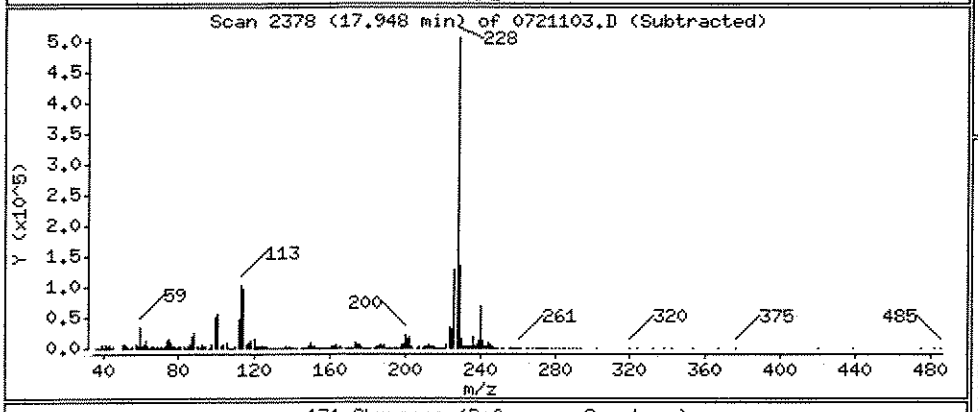
Volume Injected (uL): 0.5 Operator: SDB

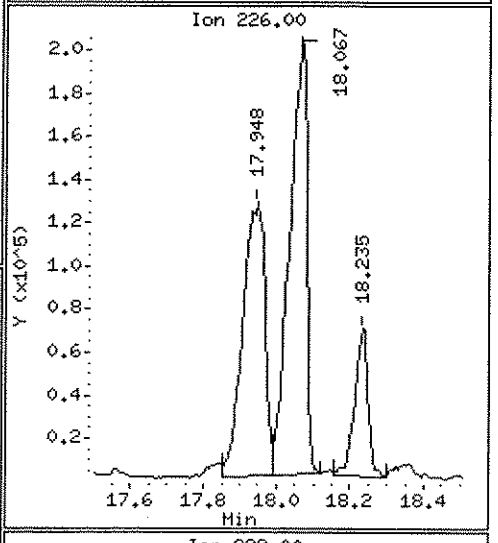
Column phase: fused silica Column diameter: 0.25

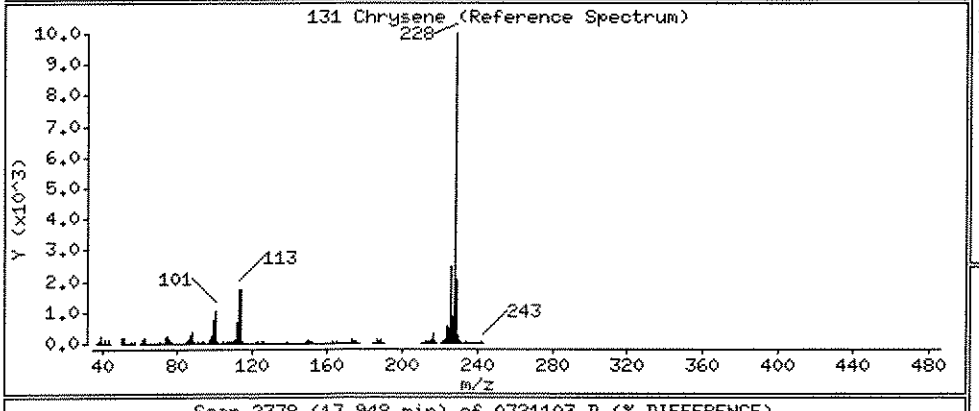
131 Chrysene Concentration: 3603 UG/KG

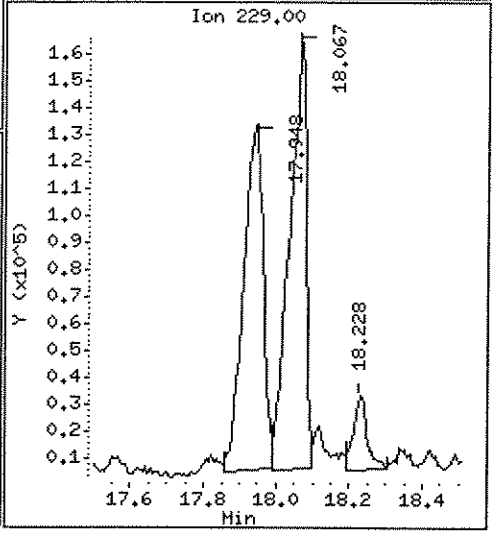


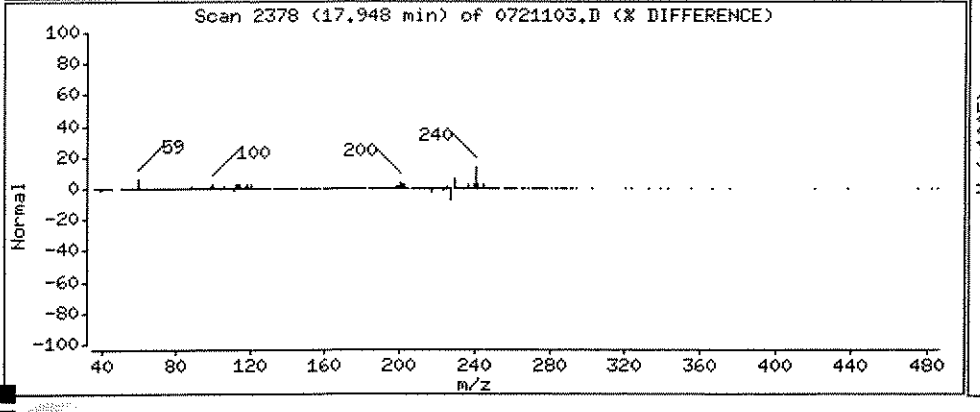












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Date : 26-JUL-2006 15:44

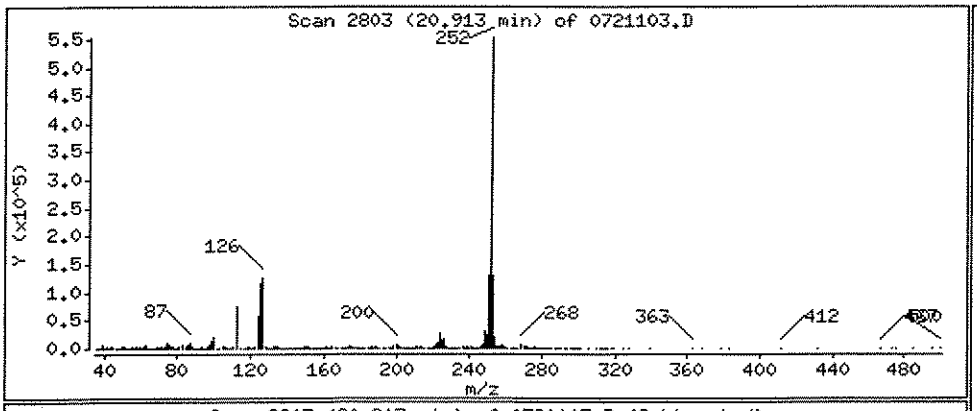
Client ID: 51CFM09S060725 Instrument: bna1.i

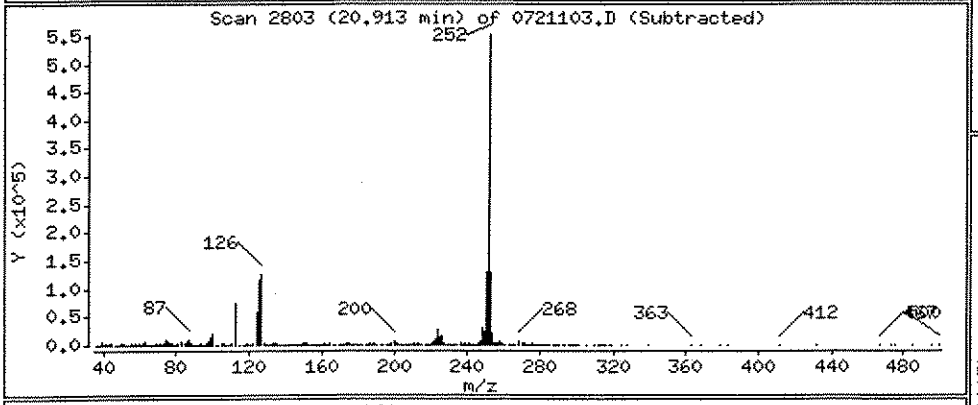
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

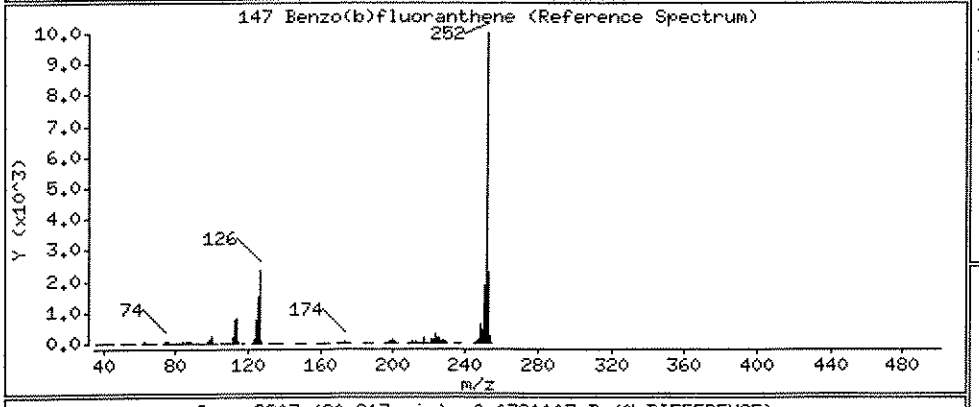
Volume Injected (uL): 0.5 Operator: SDB

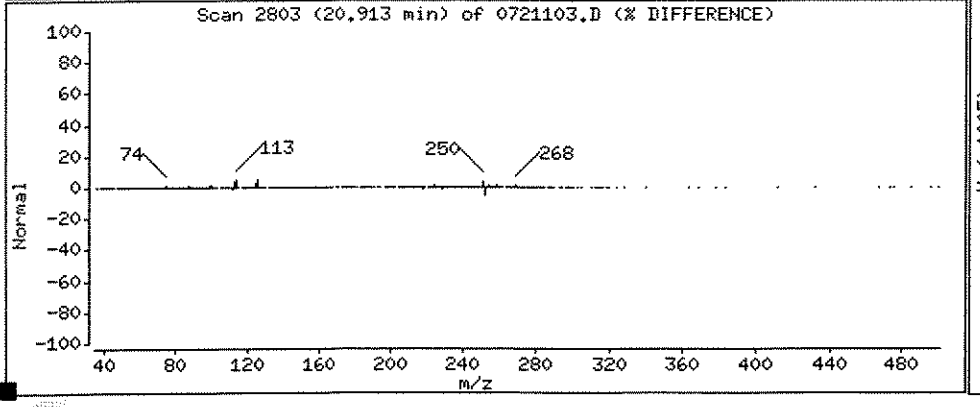
Column phase: fused silica Column diameter: 0.25

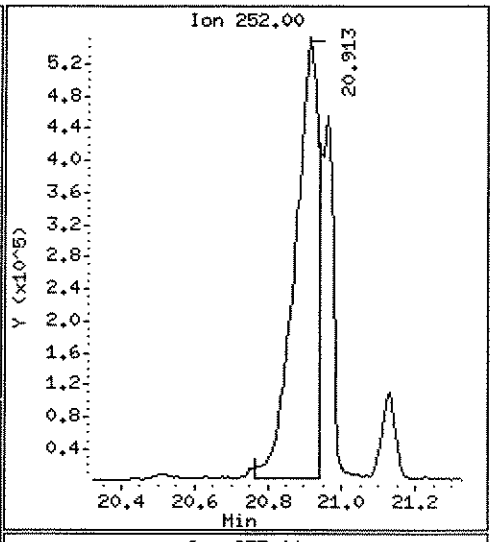
147 Benzo(b)fluoranthene Concentration: 4432 UG/KG

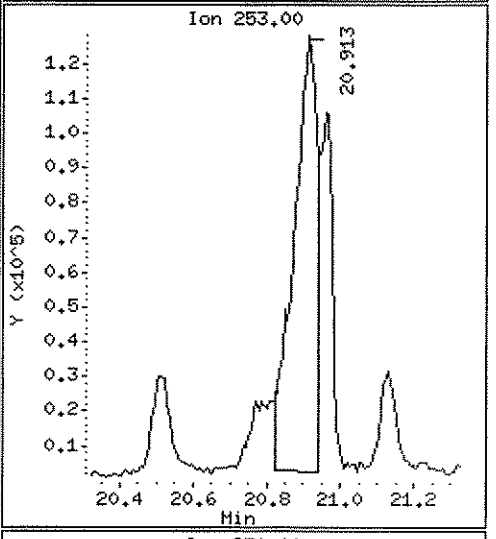


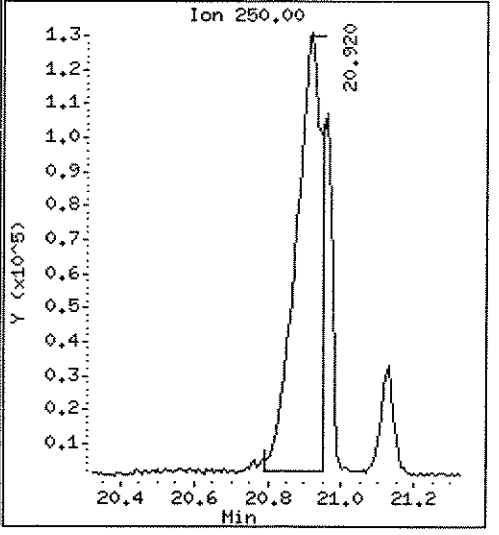












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

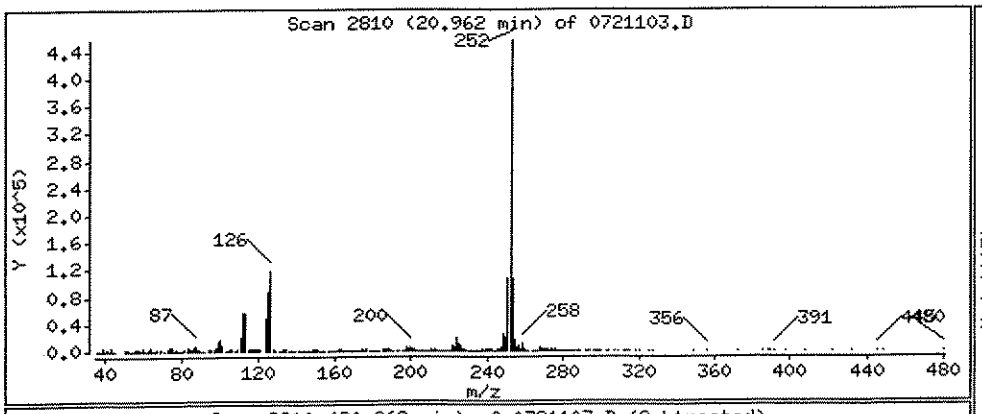
Client ID: 51CFM09S060725 Instrument: bna1.i

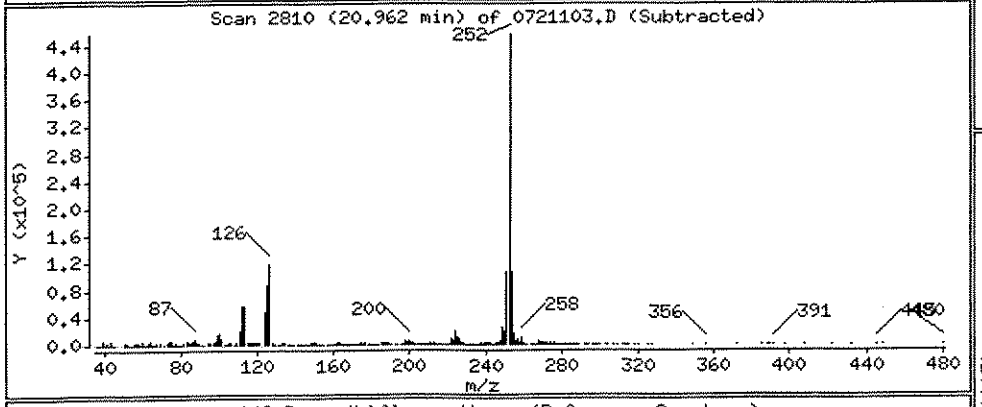
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

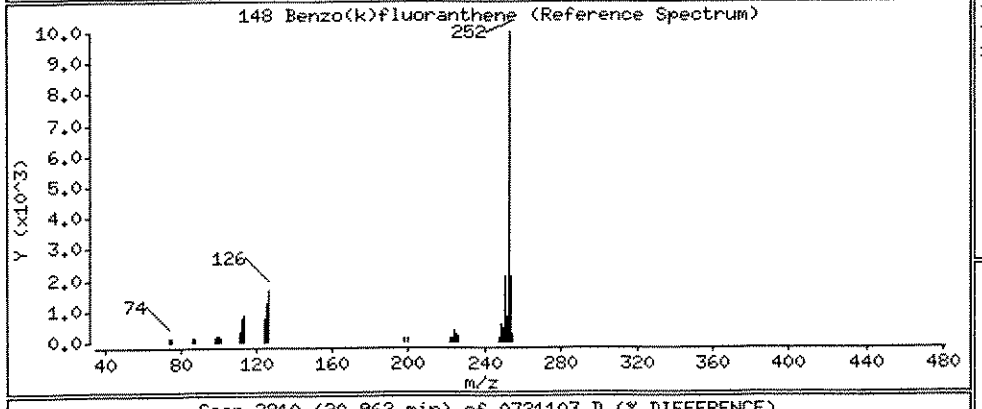
Volume Injected (uL): 0.5 Operator: SDB

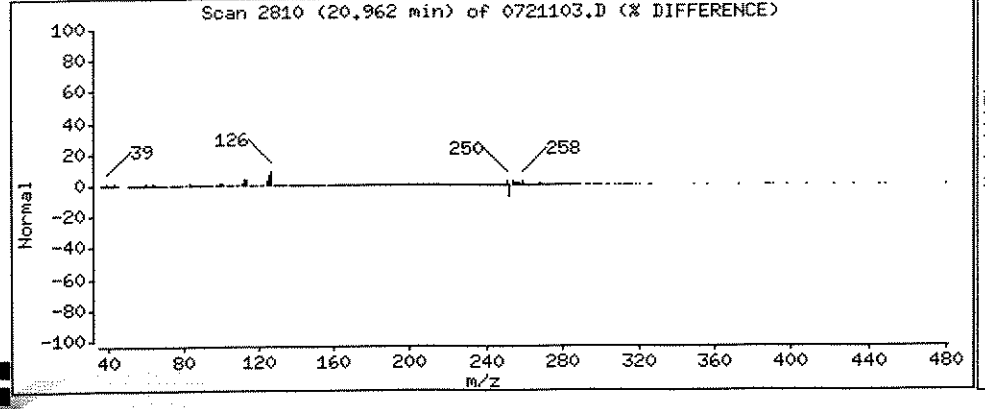
Column phase: fused silica Column diameter: 0.25

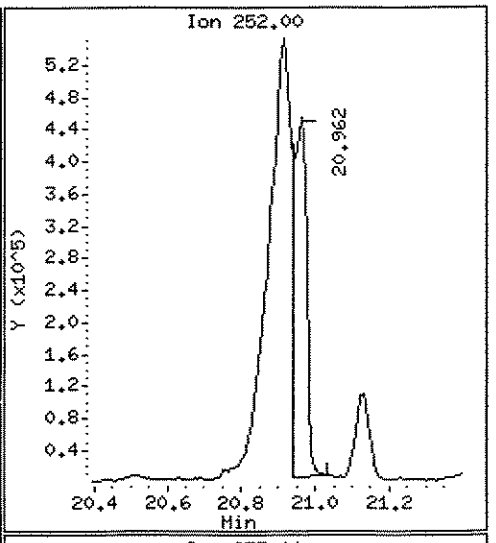
148 Benzo(k)fluoranthene Concentration: 1878 UG/KG

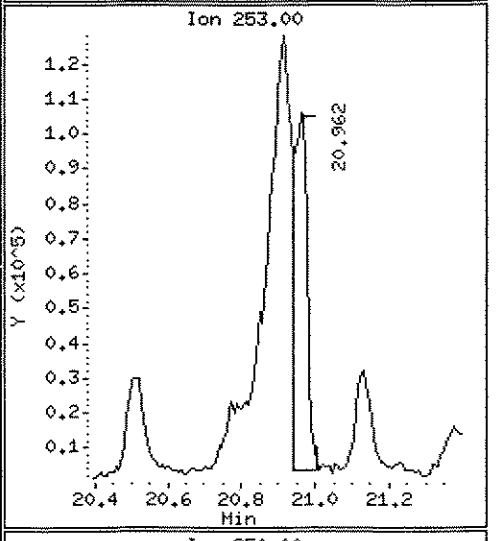


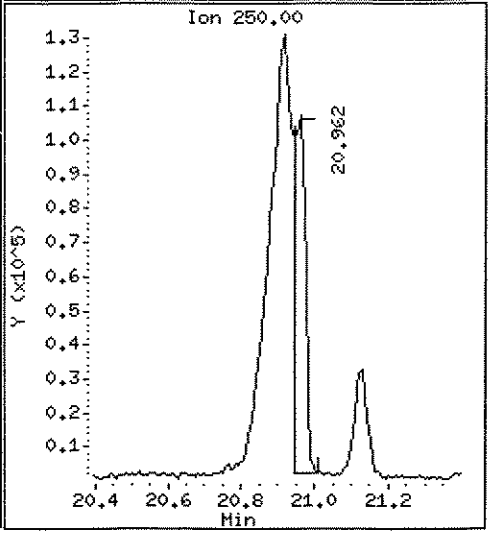












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

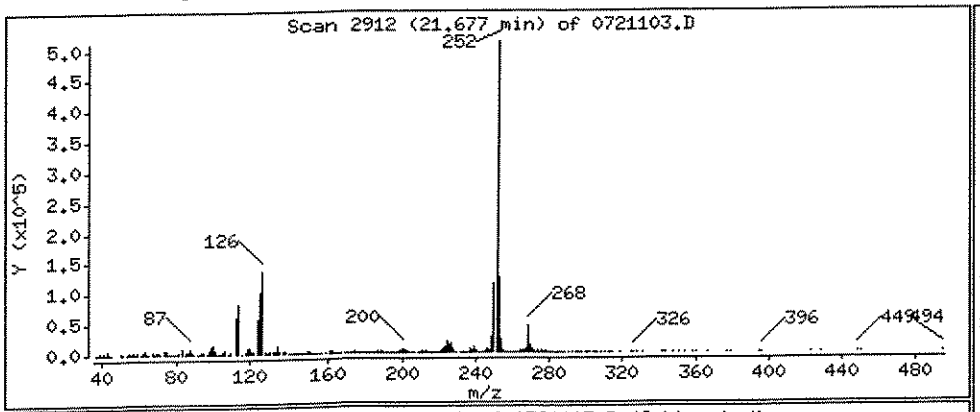
Operator: SDB

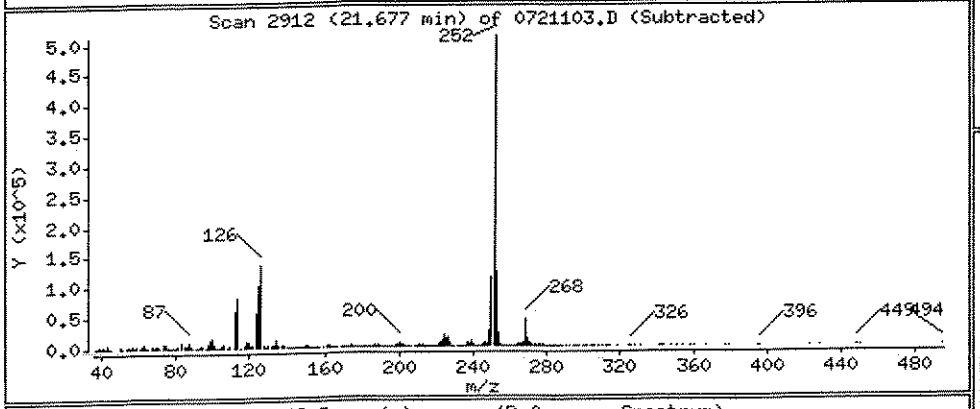
Column phase: fused silica

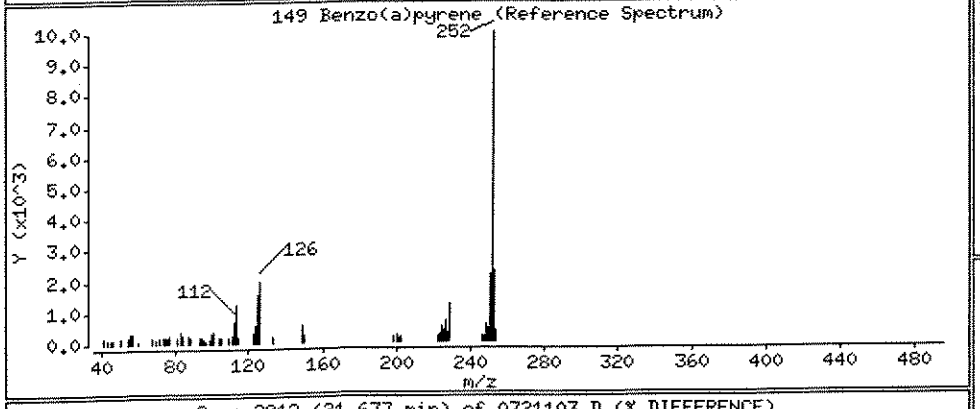
Column diameter: 0.25

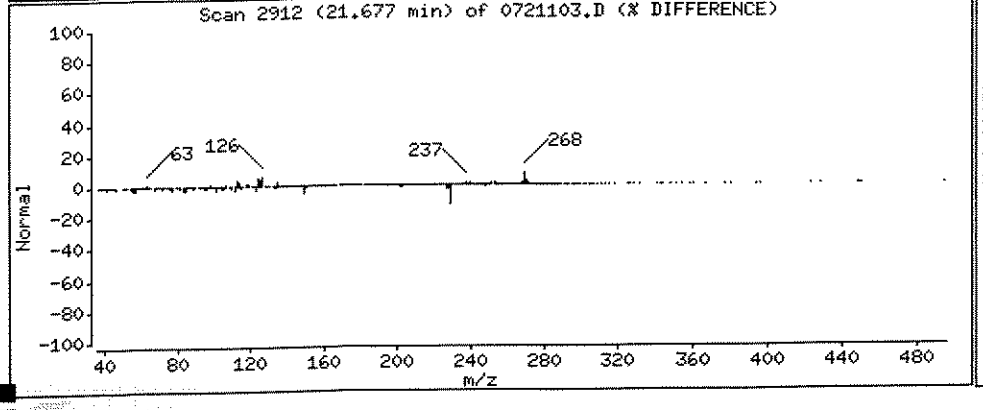
149 Benzo(a)pyrene

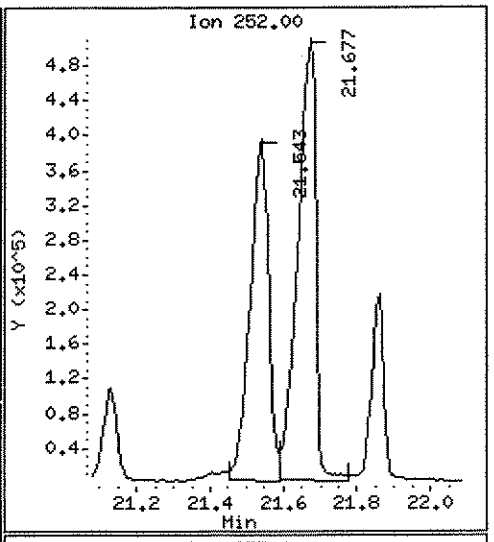
Concentration: 3635 UG/KG

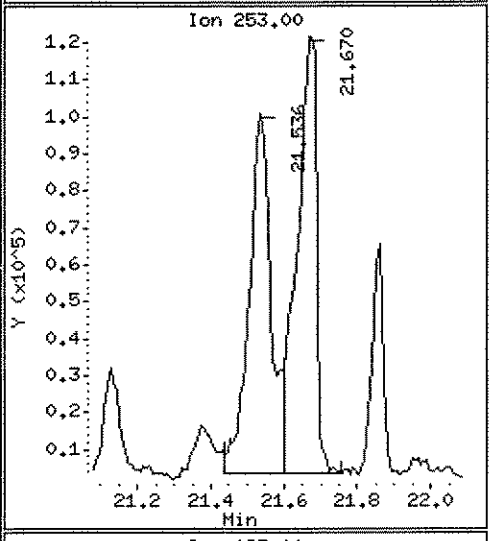


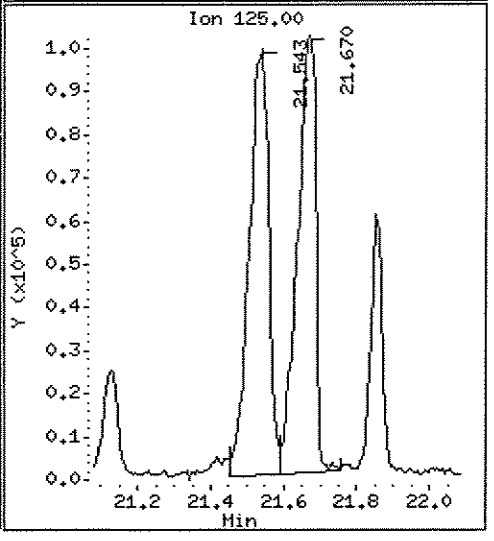












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

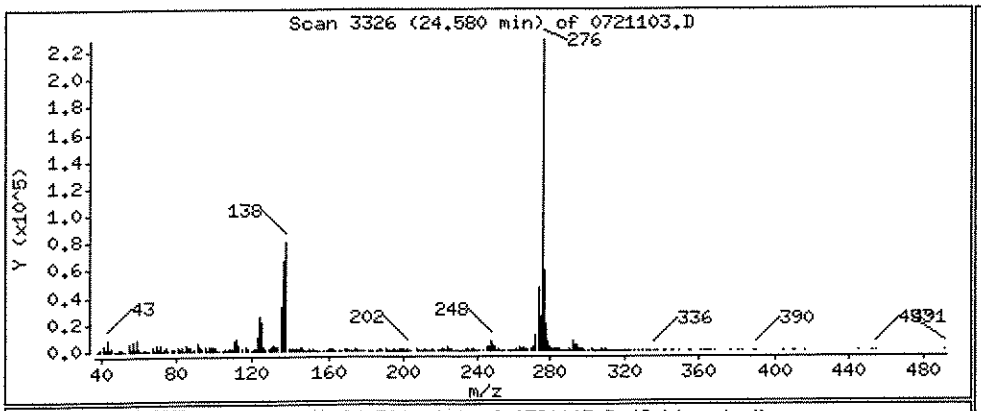
Operator: SDB

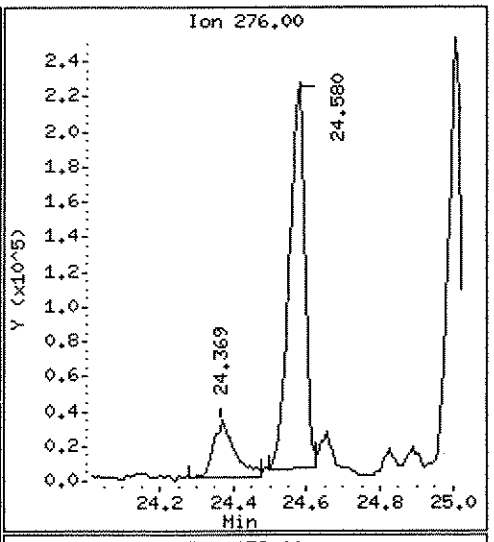
Column phase: fused silica

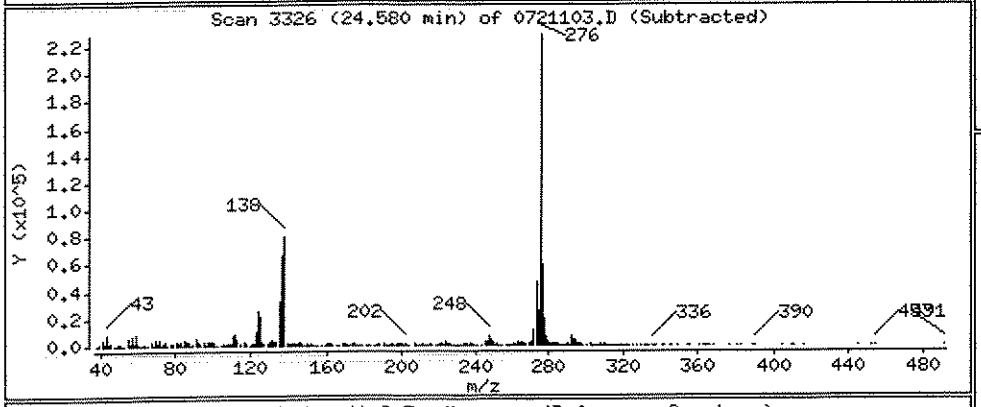
Column diameter: 0.25

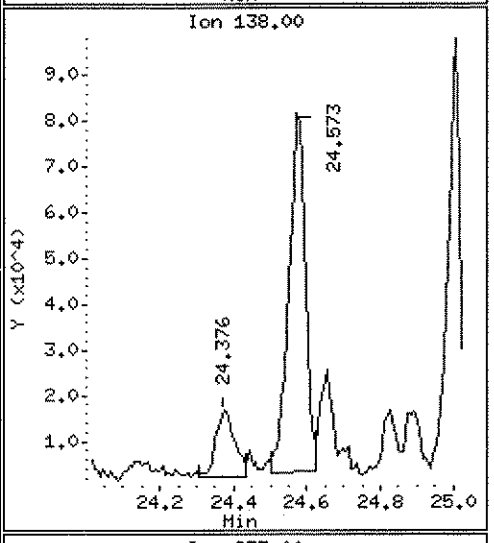
150 Indeno(1,2,3-cd)pyrene

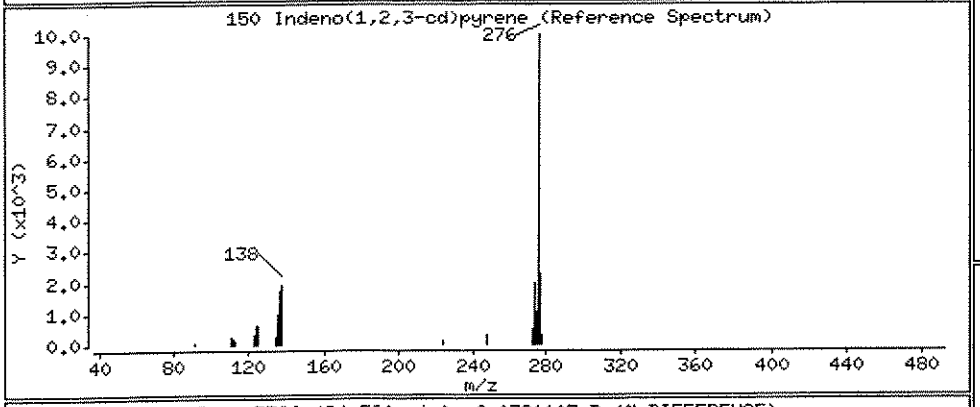
Concentration: 1597 UG/KG

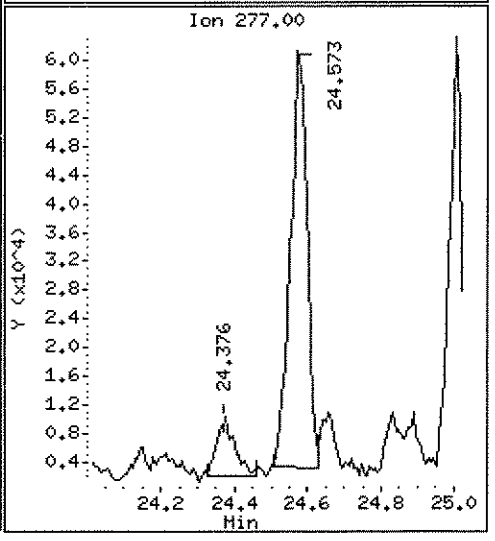


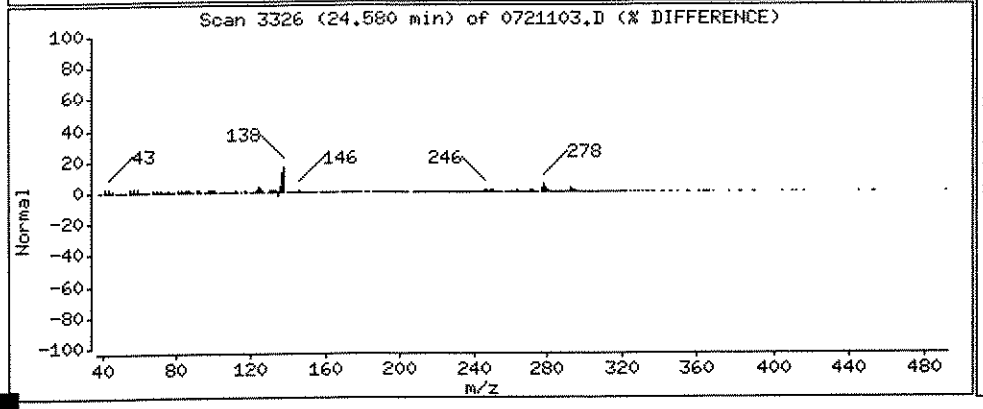












Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

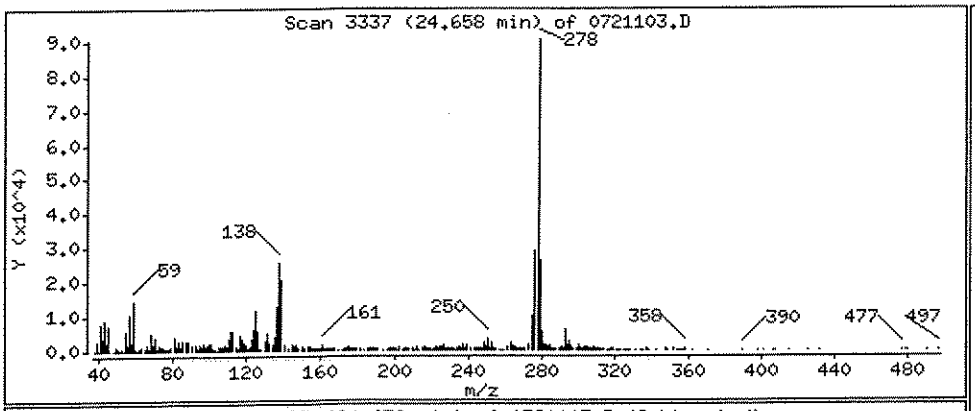
Client ID: 51CFM09S060725 Instrument: bna1.i

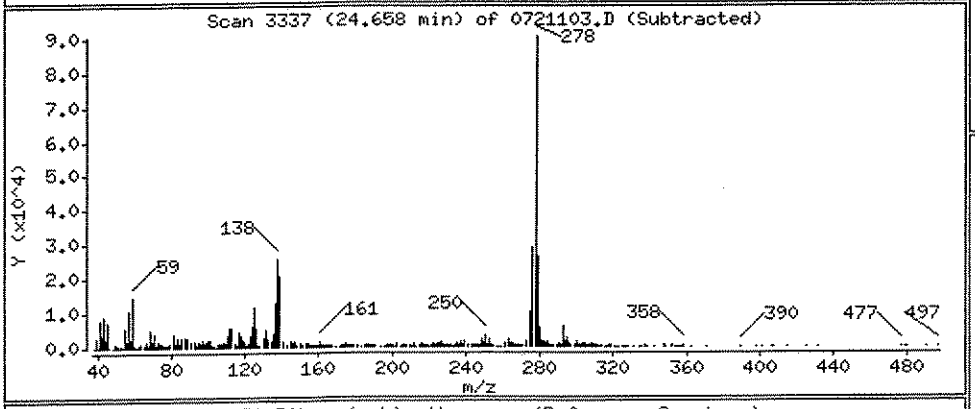
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

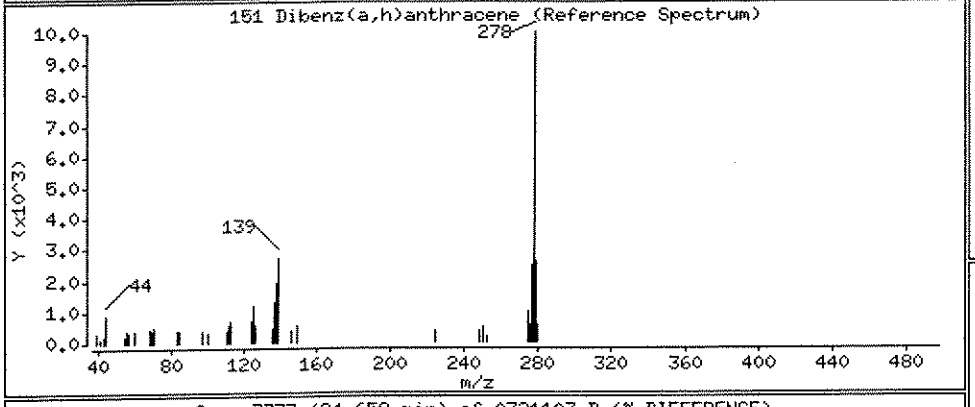
Volume Injected (uL): 0.5 Operator: SDB

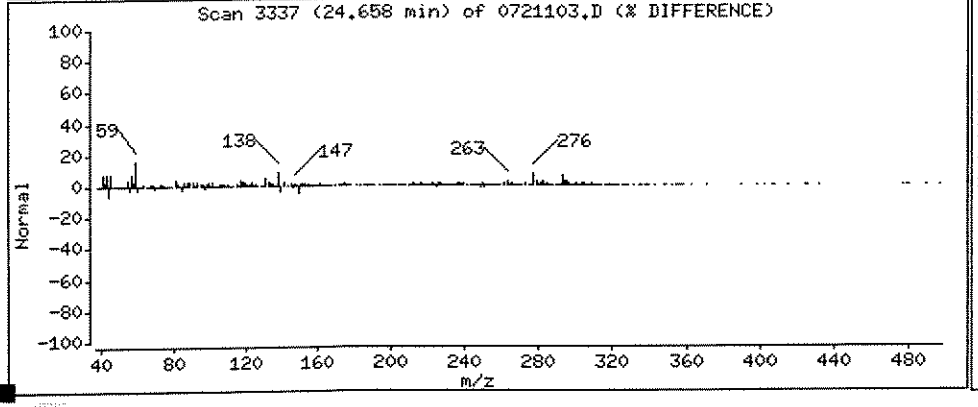
Column phase: fused silica Column diameter: 0.25

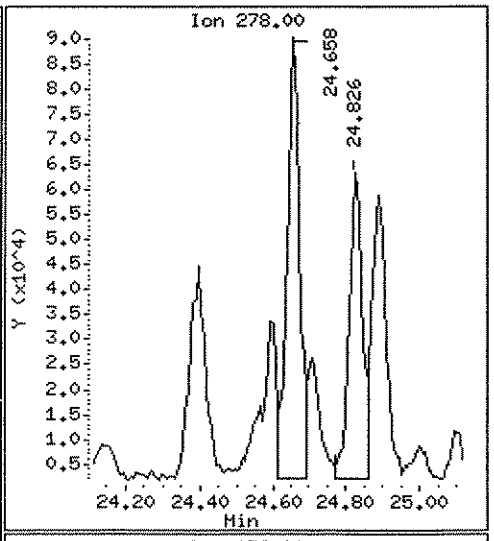
151 Dibenz(a,h)anthracene Concentration: 526.0 UG/KG

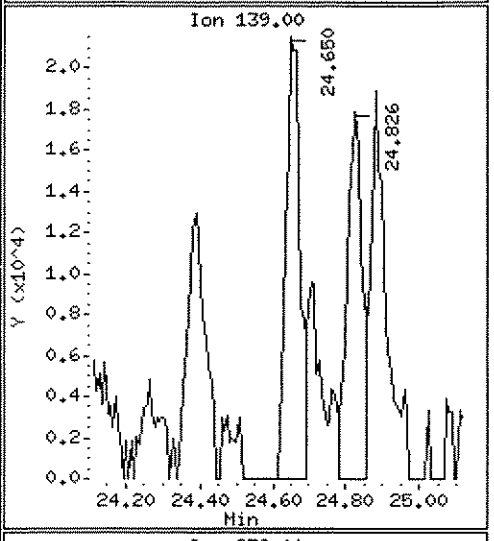


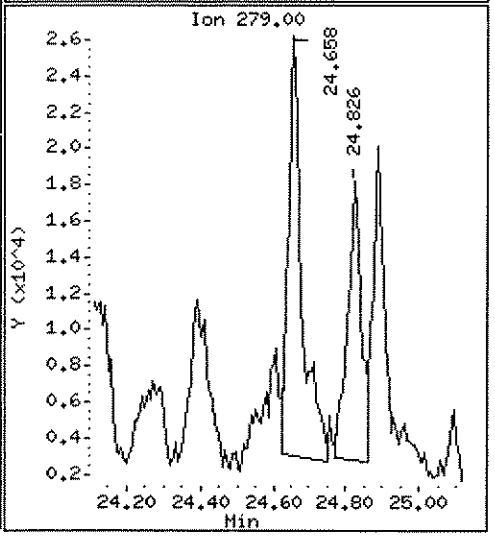












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721103.D

Date : 26-JUL-2006 15:44

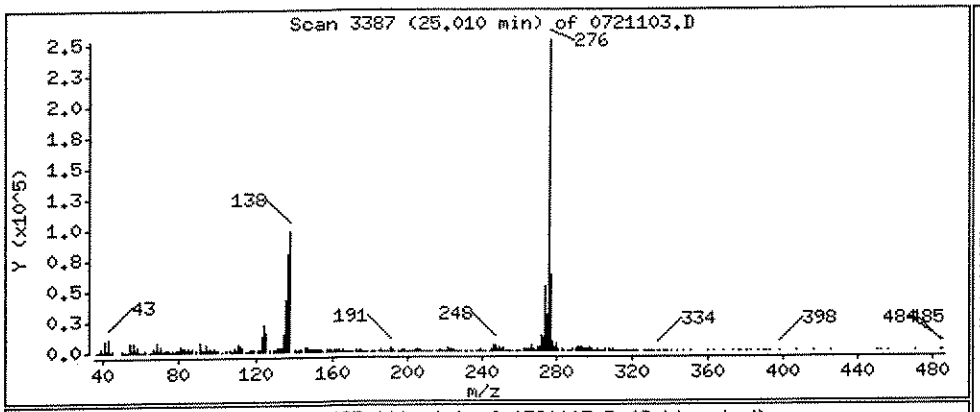
Client ID: 51CFM09S060725 Instrument: bna1.i

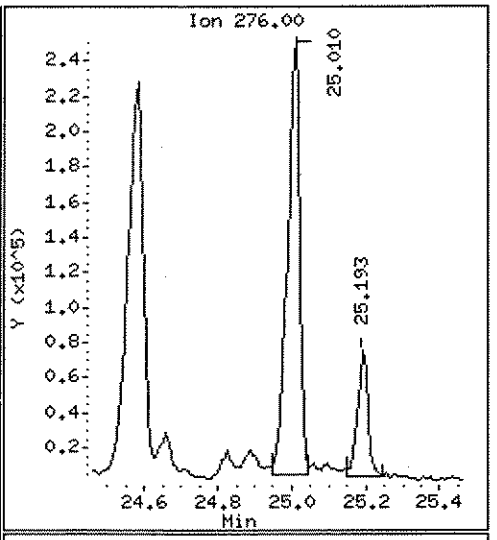
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

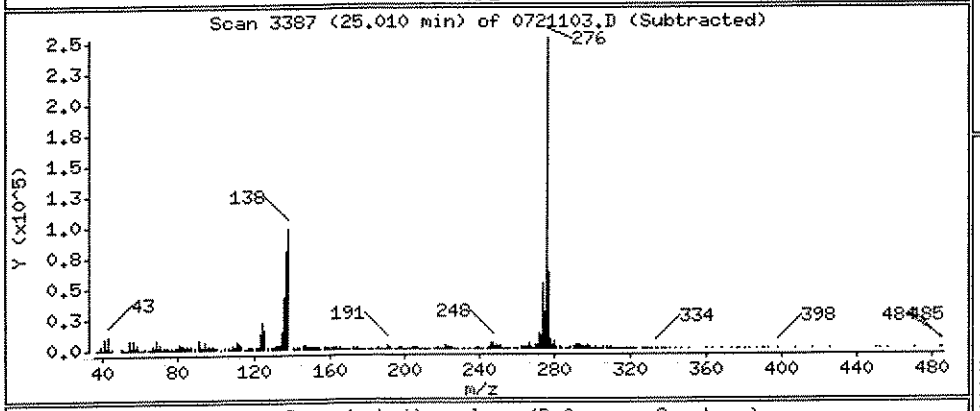
Volume Injected (uL): 0.5 Operator: SDB

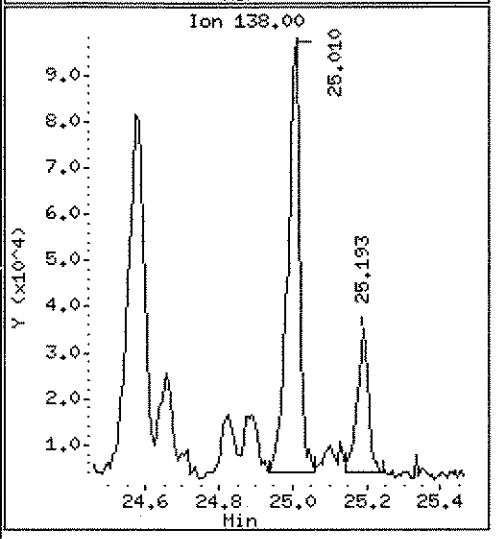
Column phase: fused silica Column diameter: 0.25

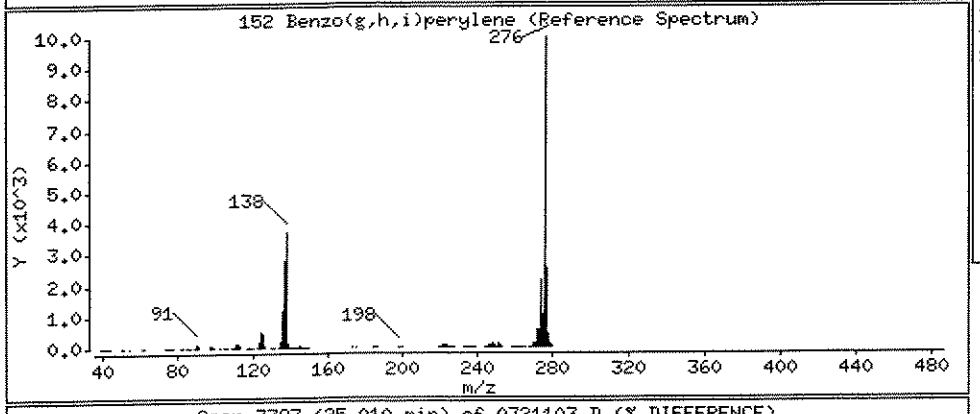
152 Benzo(g,h,i)perylene Concentration: 1351 UG/KG

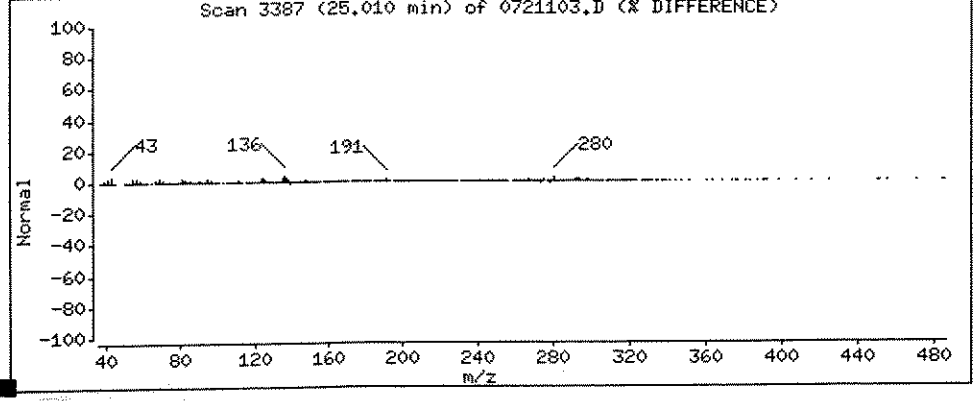












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM09S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103D

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 13:53

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	250	JD
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	570	JD
56-55-3	Benzo(a)anthracene	210	1700	4000	D
205-99-2	Benzo(b)fluoranthene	210	1700	6200	D*
207-08-9	Benzo(k)fluoranthene	210	1700	5700	D*
191-24-2	Benzo(g,h,i)perylene	210	1700	3400	D*
50-32-8	Benzo(a)pyrene	210	1000	6600	D*
218-01-9	Chrysene	210	1700	5100	D
53-70-3	Dibenz(a,h)anthracene	210	1000		UD*
206-44-0	Fluoranthene	210	1700	6600	D
86-73-7	Fluorene	210	1700		UD
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	3500	D*
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	4400	D
129-00-0	Pyrene	210	1700	8900	D

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D
Report Date: 28-Jul-2006 06:35

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725
Inj Date : 27-JUL-2006 13:53
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 28-Jul-2006 06:34 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.085	4.088	(1.000)	371997	40.0000	
* 31 Naphthalene-d8	136	5.050	5.055	(1.000)	1275860	40.0000	
$ 32 Nitrobenzene-d5	82	4.517	4.527	(0.895)	41081	2.94961	1021(a)
* 65 Acenaphthene-d10	164	7.319	7.324	(1.000)	597300	40.0000	
$ 70 2-Fluorobiphenyl	172	6.286	6.300	(0.859)	62253	3.27510	1134(a)
76 Acenaphthene	153	7.367	7.387	(1.007)	12600	0.73093	253.1(a)
* 97 Phenanthrene-d10	188	10.499	10.512	(1.000)	676934	40.0000	
106 Phenanthrene	178	10.548	10.568	(1.005)	247452	12.8208	4439
107 Anthracene	178	10.665	10.685	(1.016)	31635	1.66019	574.8(a)
110 Fluoranthene	202	13.721	13.736	(1.307)	362691	18.9805	6572
* 124 Chrysene-d12	240	17.831	17.850	(1.000)	346628	40.0000	
126 Pyrene	202	14.297	14.311	(0.802)	355815	25.7034	8900
$ 127 Terphenyl-d14	244	15.074	15.093	(0.845)	41143	4.70055	1628(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D
Report Date: 28-Jul-2006 06:35

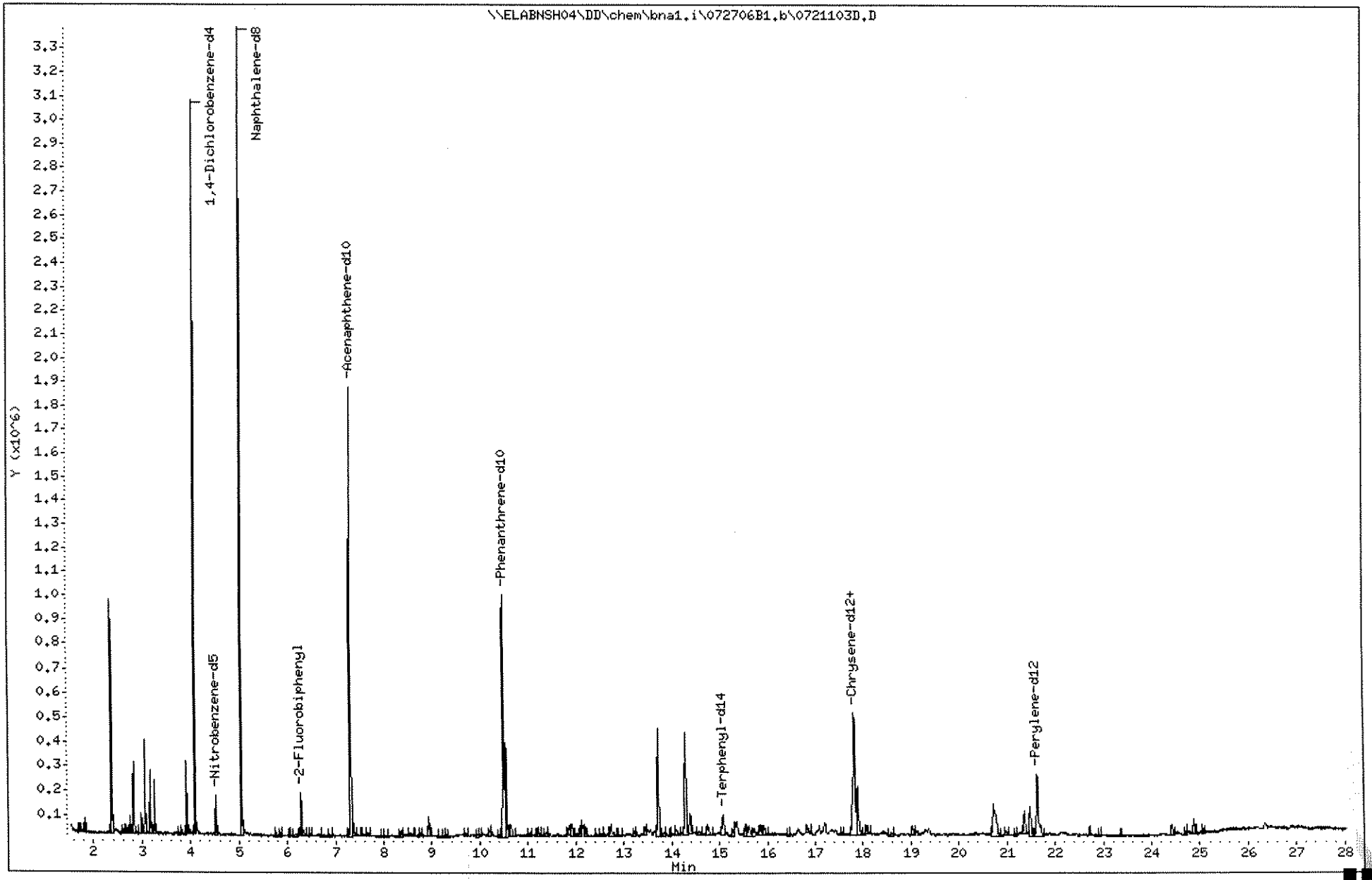
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
130 Benzo(a)anthracene	228	17.797	17.809	(0.998)	128649	11.5190	3988
131 Chrysene	228	17.900	17.927	(1.004)	149576	14.6634	5077
* 145 Perylene-d12	264	21.639	21.664	(1.000)	192844	40.0000	
147 Benzo(b)fluoranthene	252	20.733	20.746	(0.958)	107243	18.0531	6251(M)
148 Benzo(k)fluoranthene	252	20.753	20.822	(0.959)	101646	16.4923	5711(M)
149 Benzo(a)pyrene	252	21.482	21.512	(0.993)	98047	19.1406	6628
150 Indeno(1,2,3-cd)pyrene	276	24.416	24.452	(1.128)	43694	9.99772	3462
152 Benzo(g,h,i)perylene	276	24.876	24.910	(1.150)	45194	9.96483	3450

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D
Date : 27-JUL-2006 13:53
Client ID: 51CFM09S060725
Instrument: bna1.i
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000056



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Date : 27-JUL-2006 13:53

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

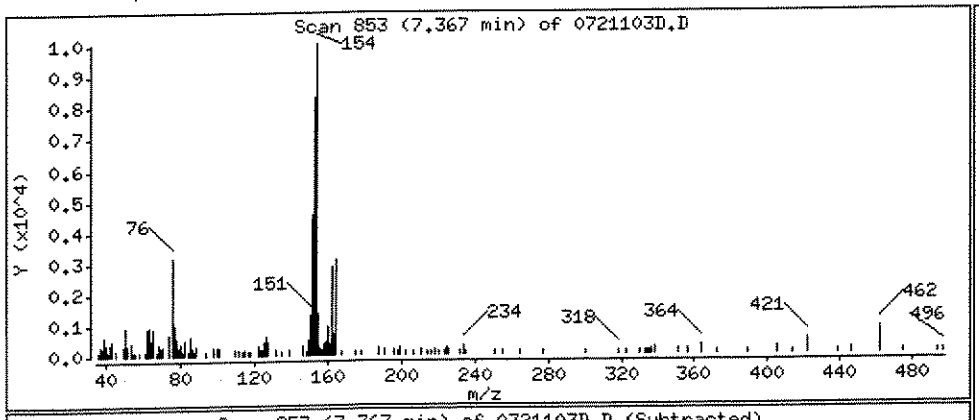
Operator: SDB

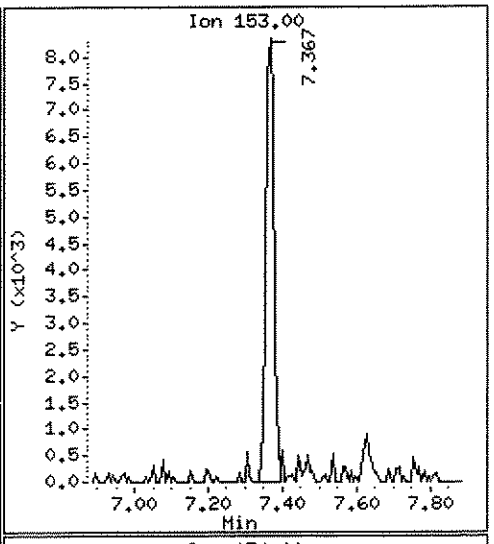
Column phase: fused silica

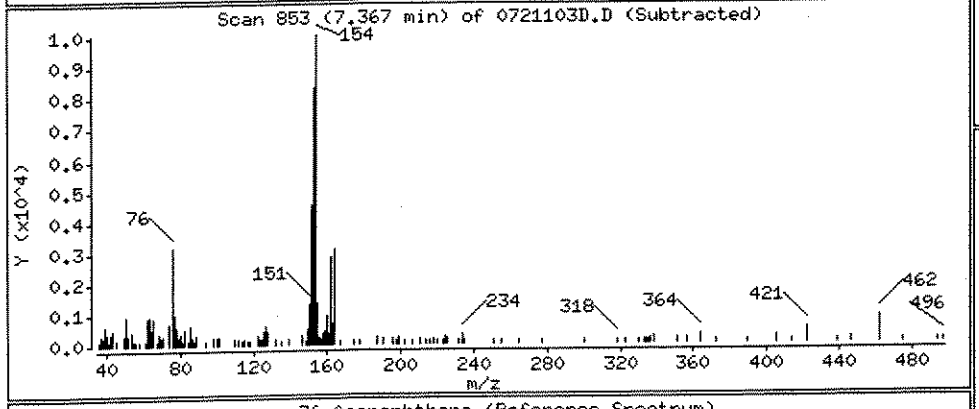
Column diameter: 0.25

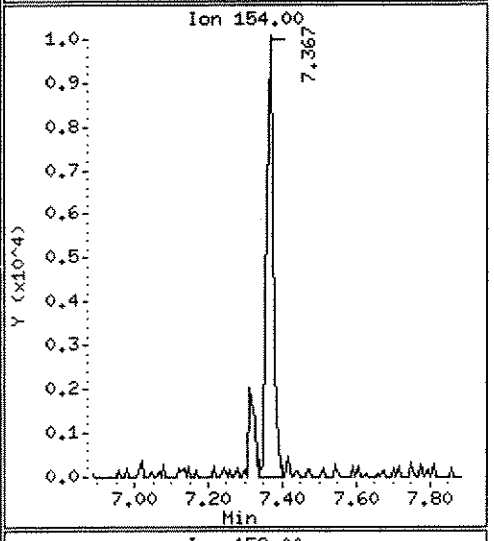
76 Acenaphthene

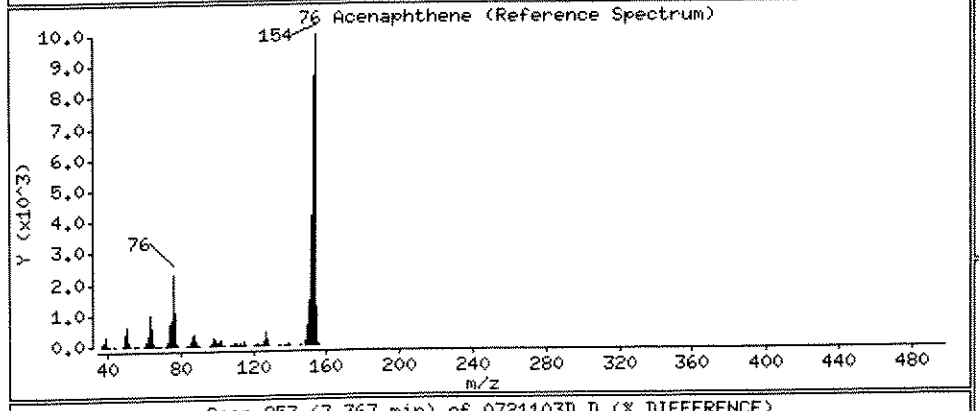
Concentration: 253.1 UG/KG

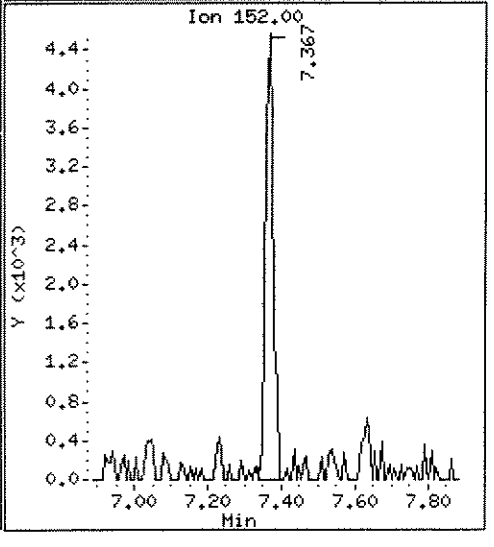


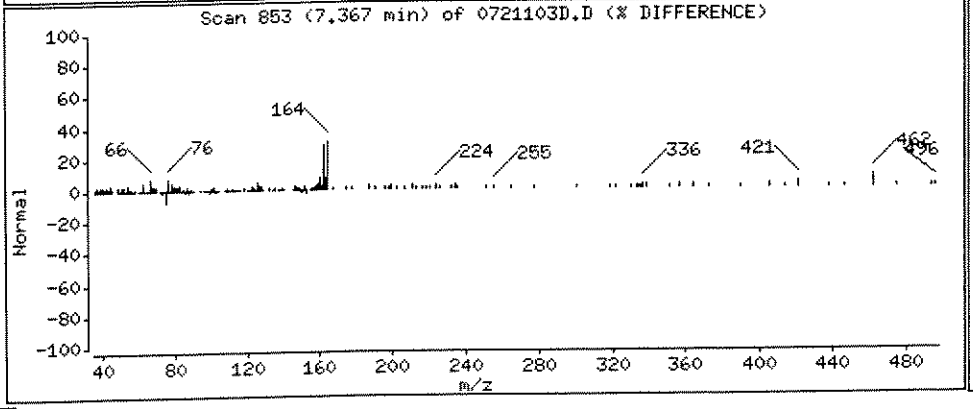












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

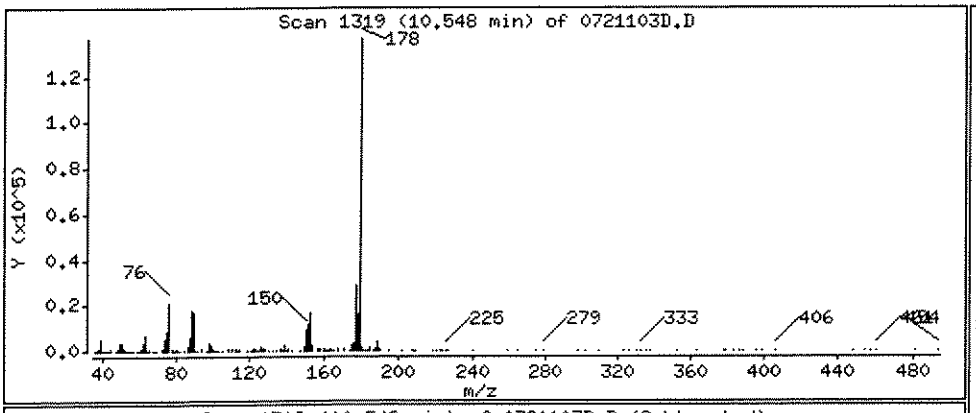
Client ID: 51CFM09S060725 Instrument: bna1.i

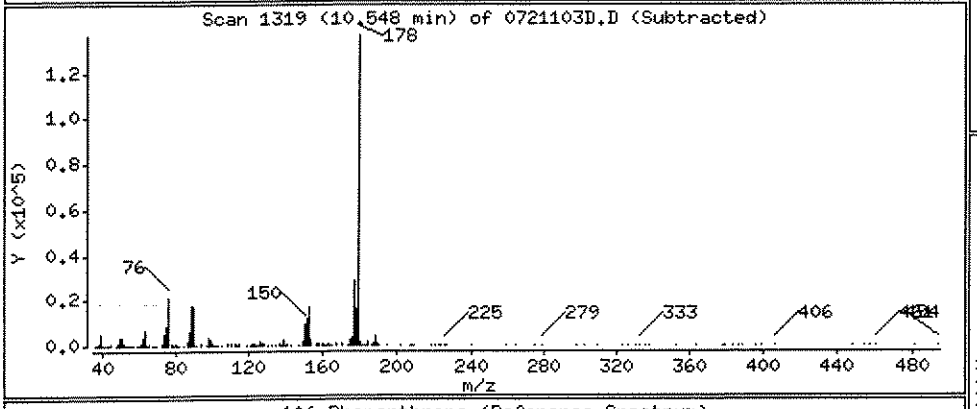
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

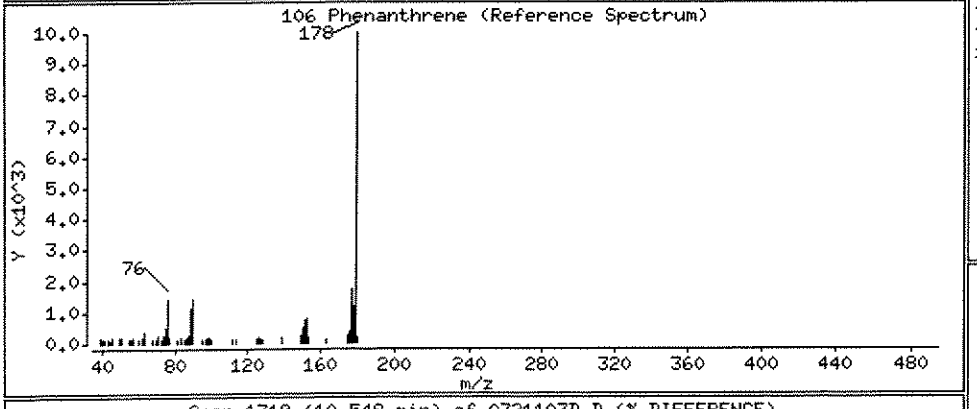
Volume Injected (uL): 0.5 Operator: SDB

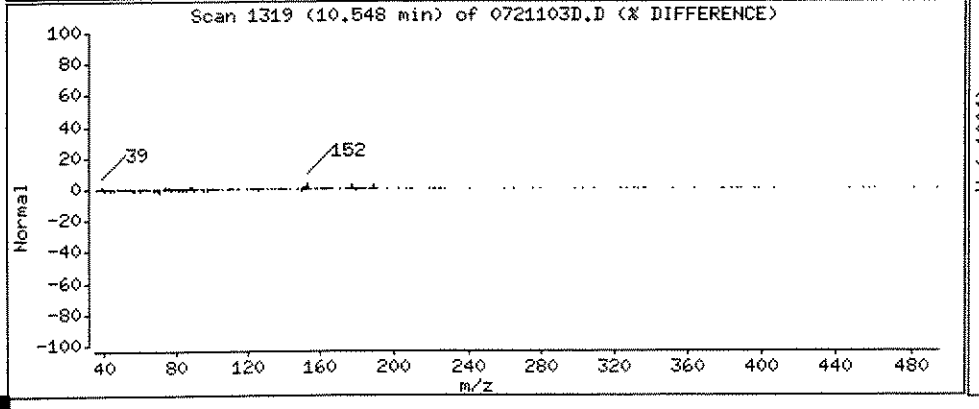
Column phase: fused silica Column diameter: 0.25

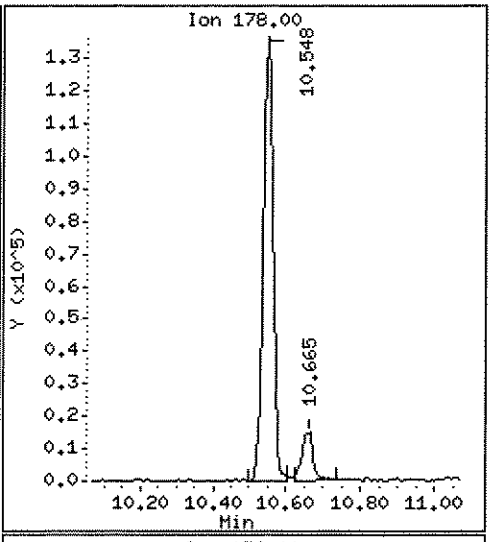
106 Phenanthrene Concentration: 4439 UG/KG

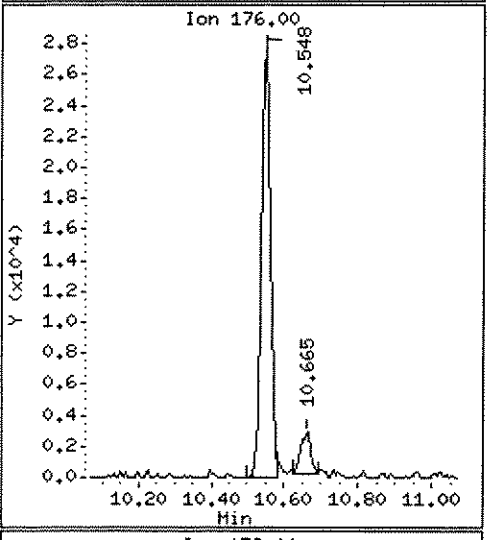


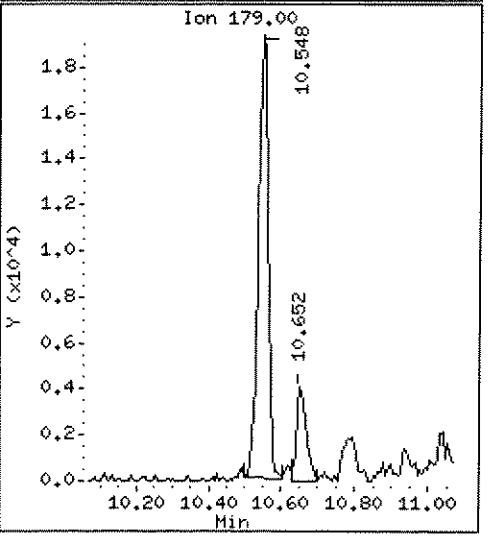












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

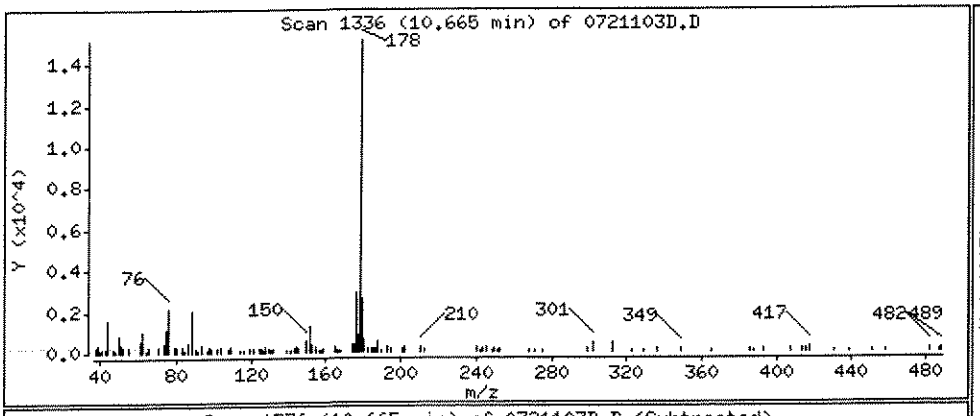
Client ID: 51CFM09S060725 Instrument: bna1.i

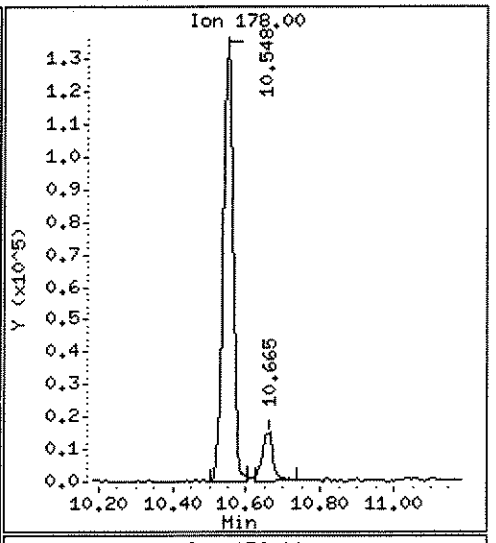
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

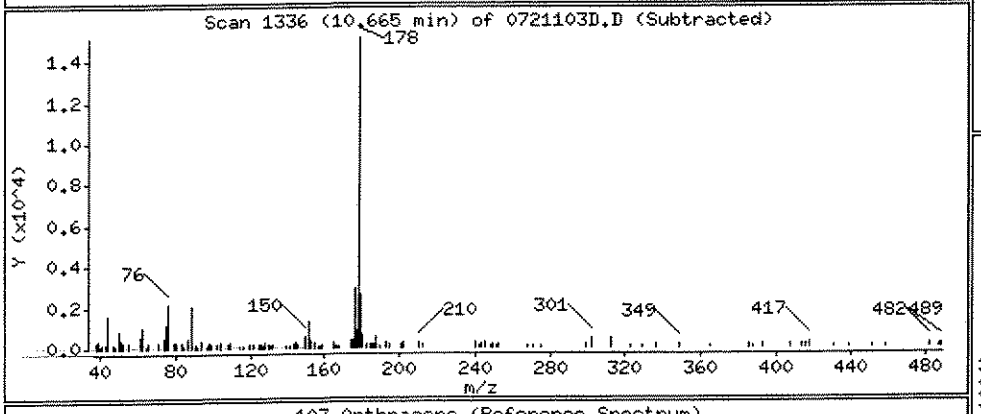
Volume Injected (uL): 0.5 Operator: SDB

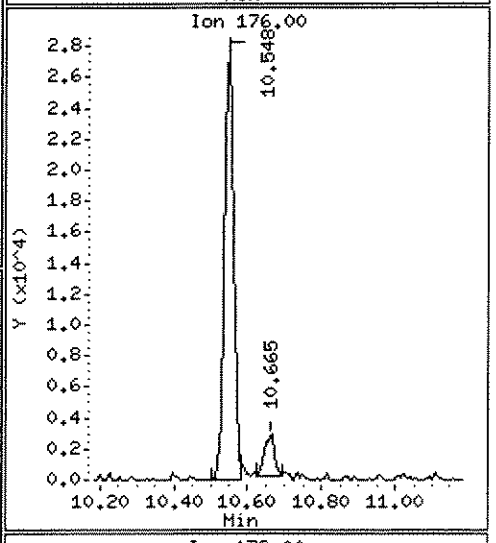
Column phase: fused silica Column diameter: 0.25

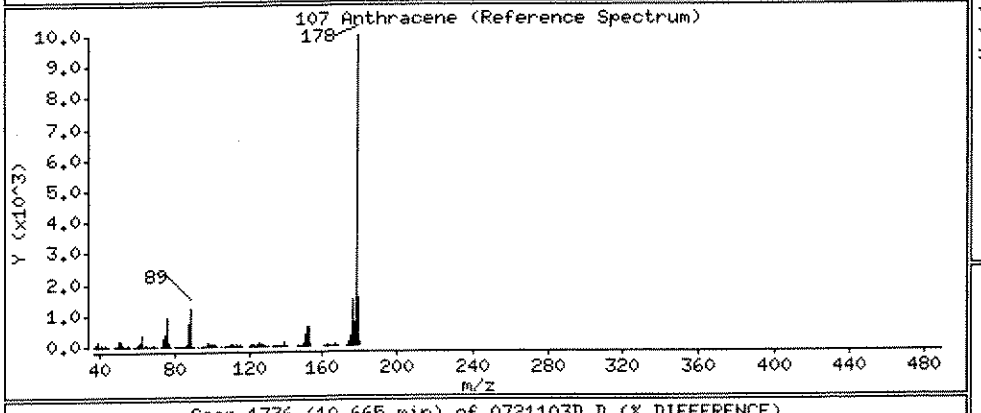
107 Anthracene Concentration: 574.8 UG/KG

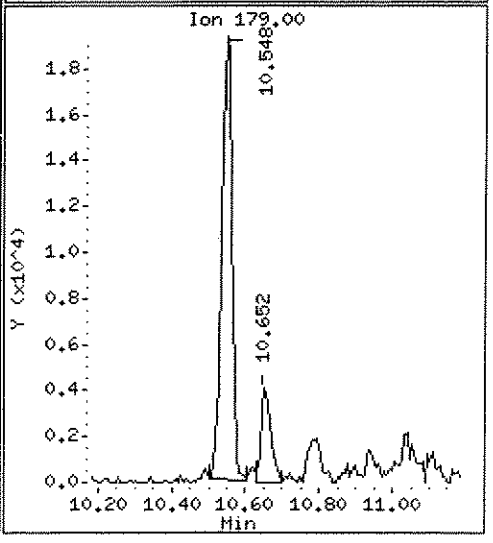


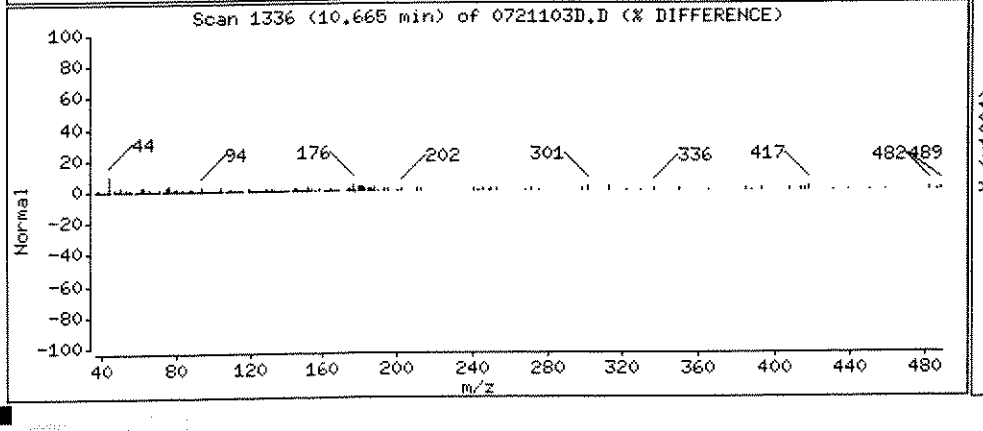












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

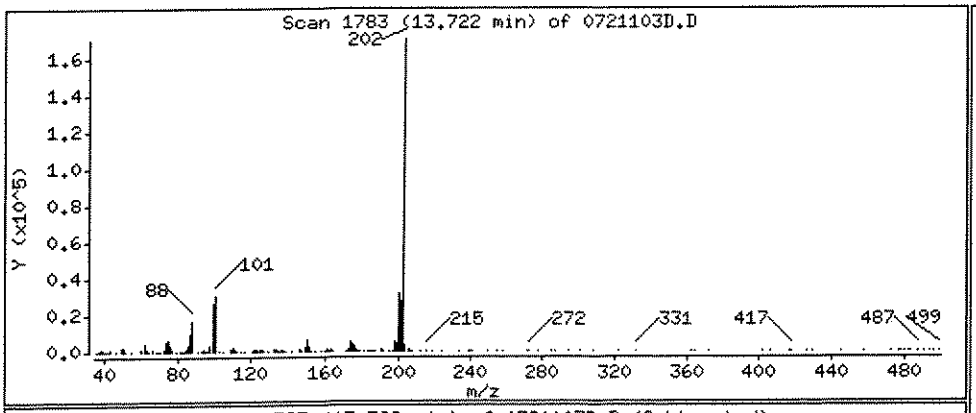
Client ID: 51CFM09S060725 Instrument: bna1.i

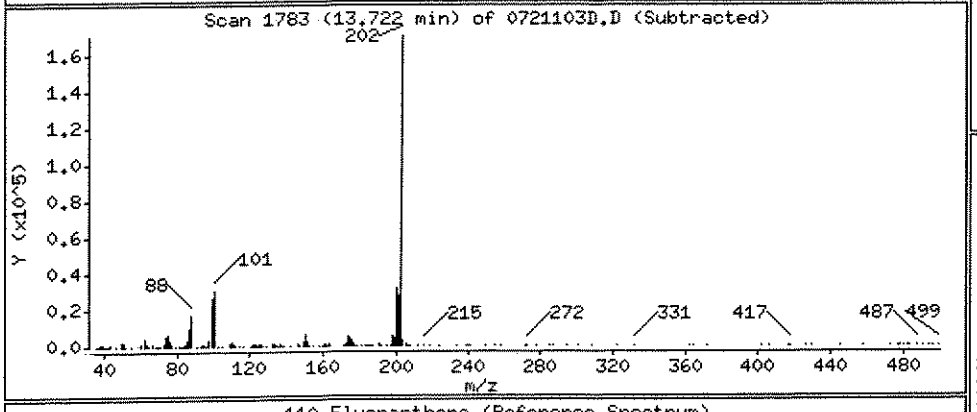
Sample Info: 0607211-03:15.2:500:1:UG/KG:26-JUL-2006

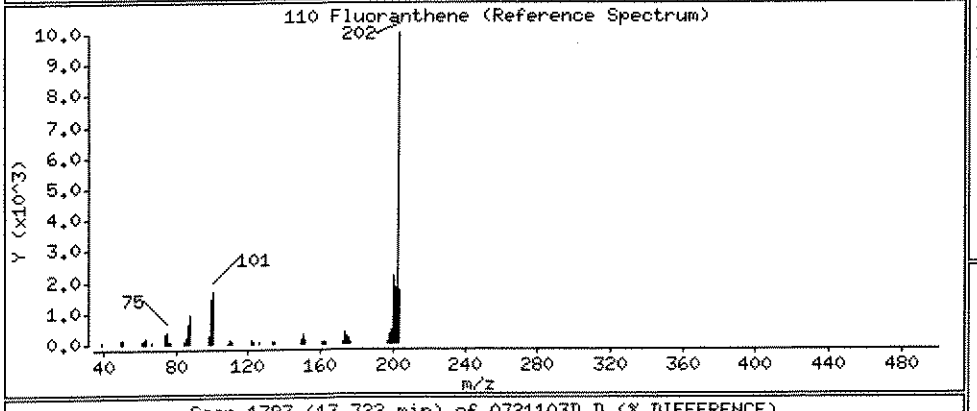
Volume Injected (uL): 0.5 Operator: SDB

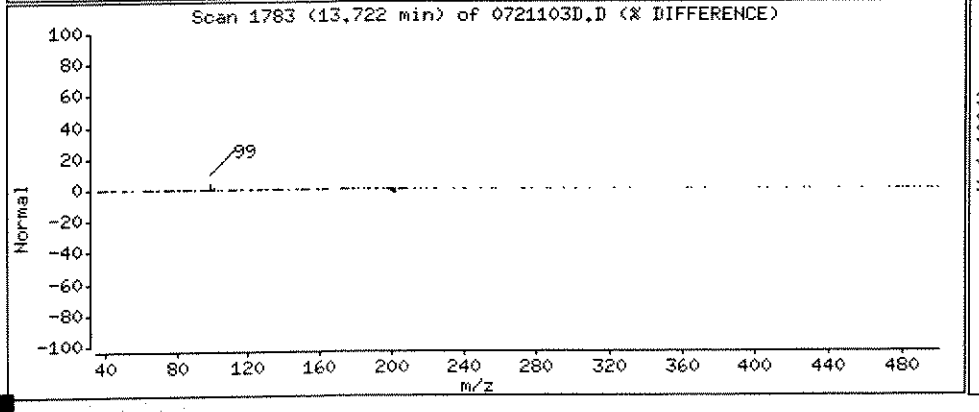
Column phase: fused silica Column diameter: 0.25

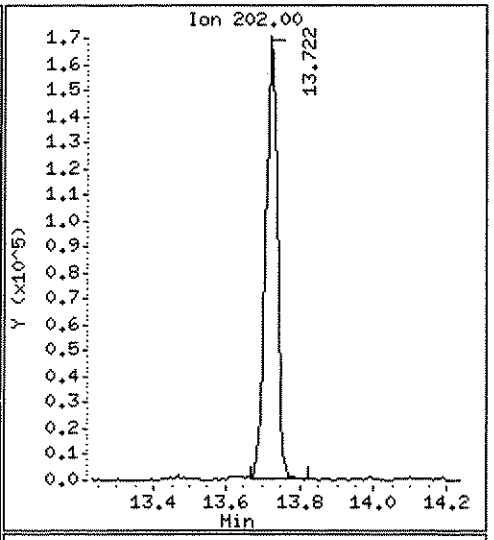
110 Fluoranthene Concentration: 6572 UG/KG

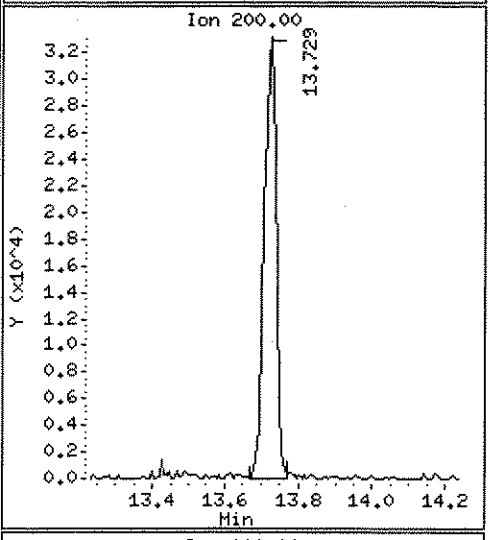


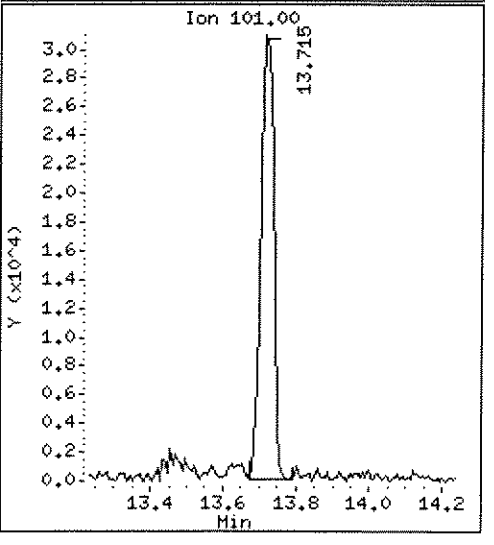












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

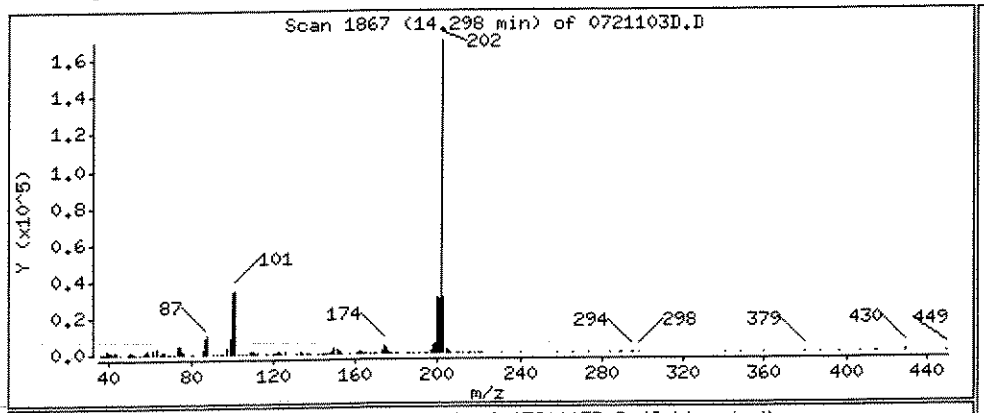
Client ID: 51CFM09S060725 Instrument: bna1.i

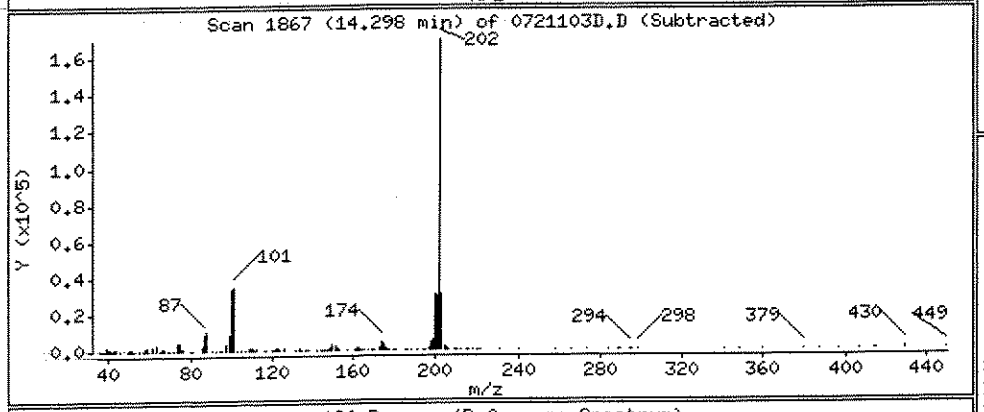
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

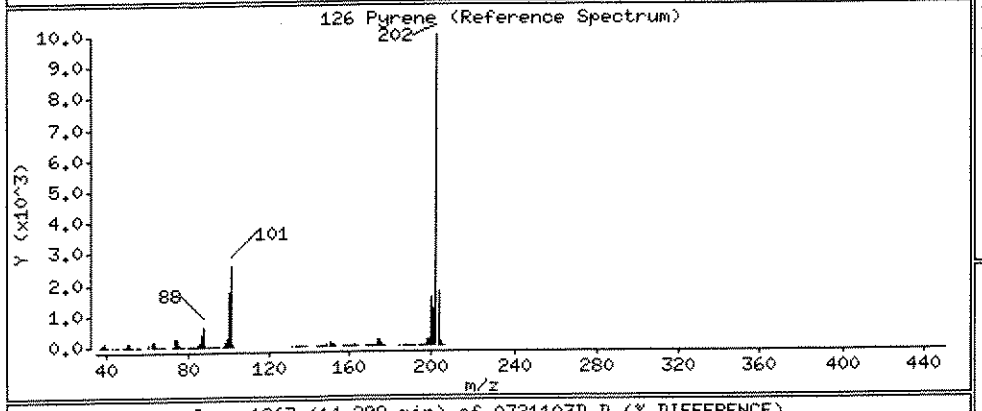
Volume Injected (uL): 0.5 Operator: SDB

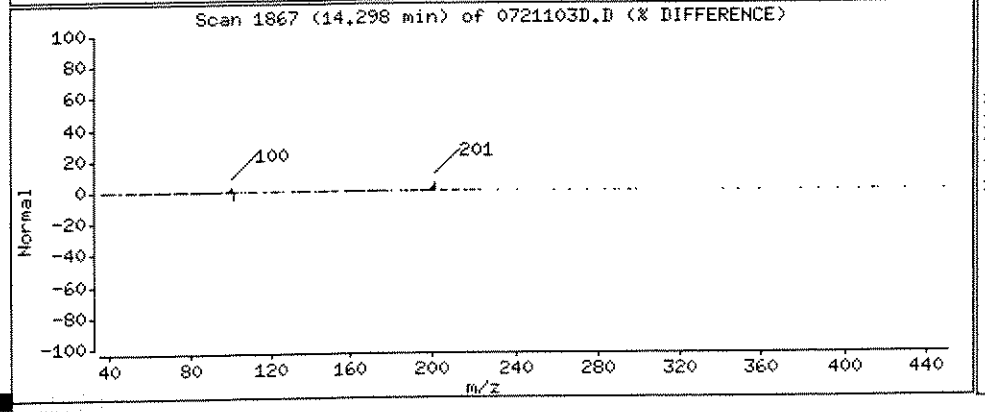
Column phase: fused silica Column diameter: 0.25

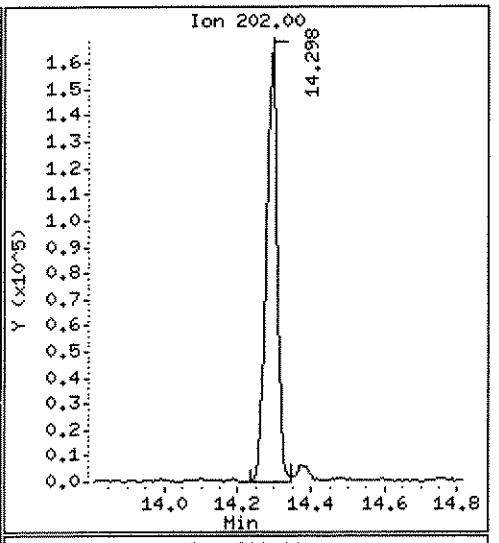
126 Pyrene Concentration: 8900 UG/KG

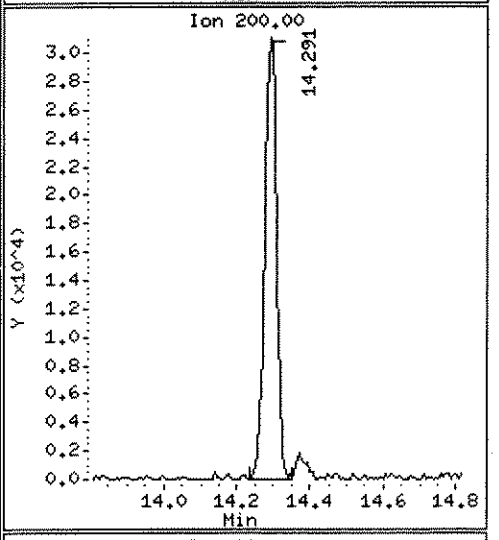


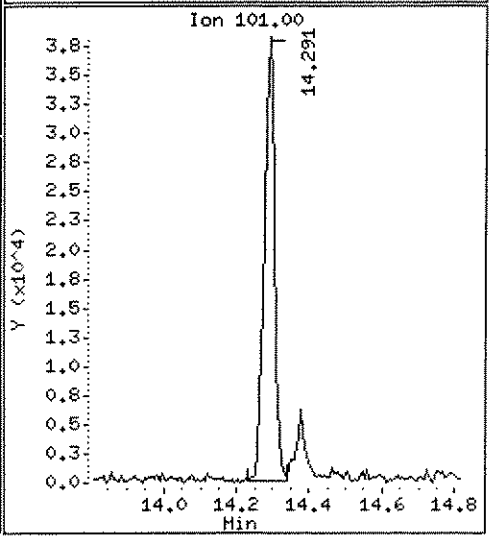












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

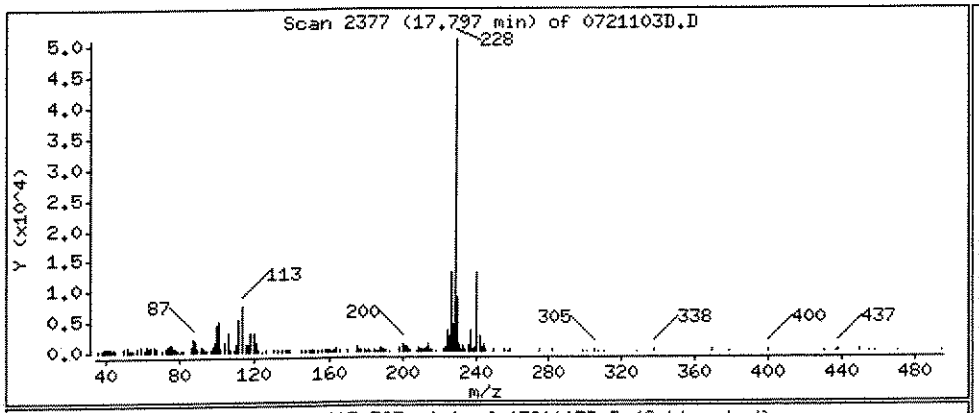
Client ID: 51CFM09S060725 Instrument: bna1.i

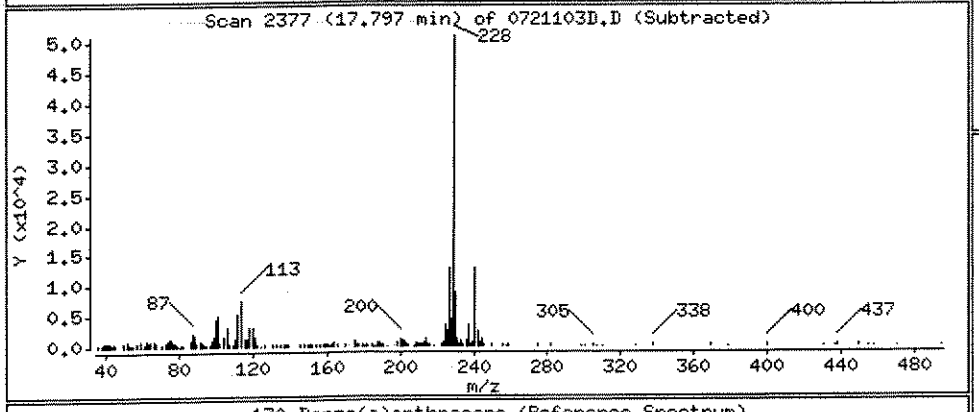
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

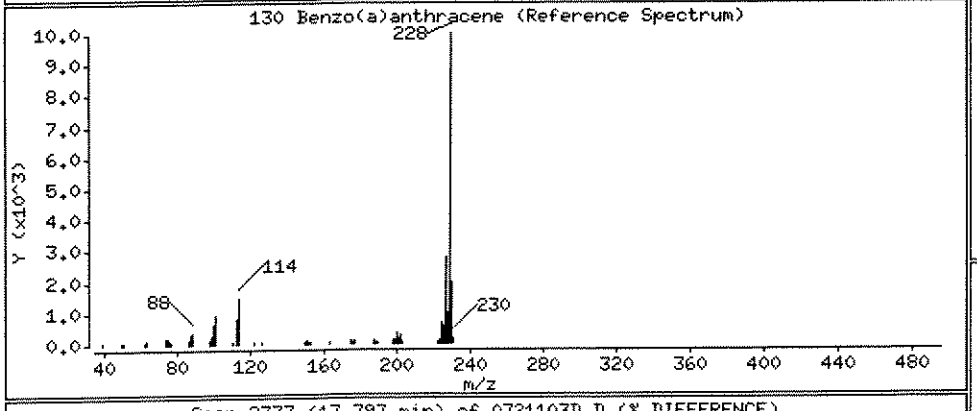
Volume Injected (uL): 0.5 Operator: SDB

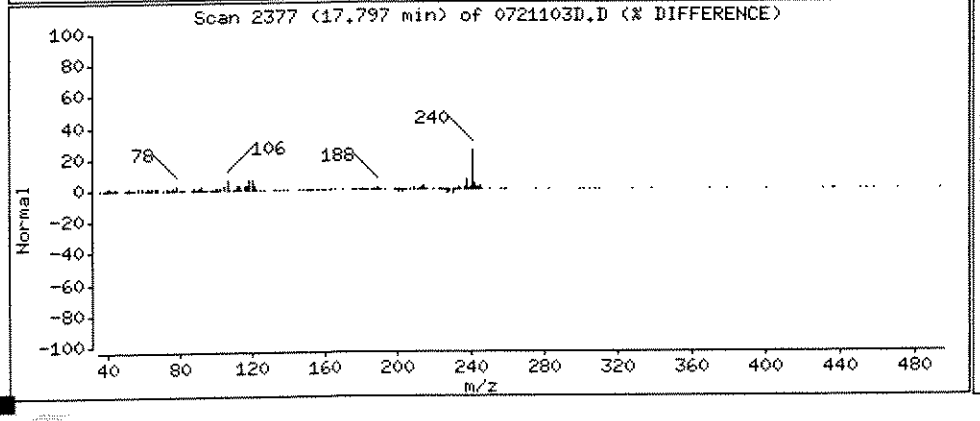
Column phase: fused silica Column diameter: 0.25

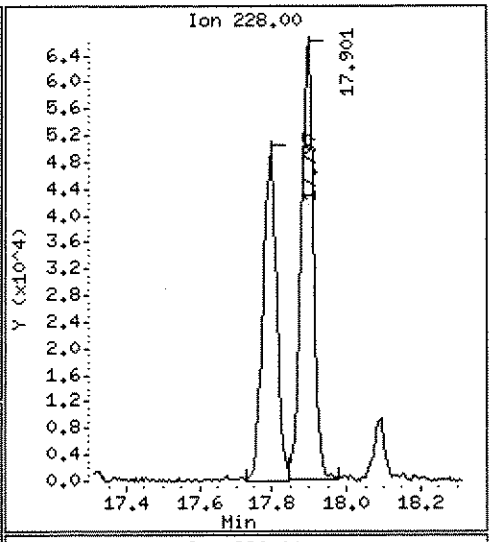
130 Benzo(a)anthracene Concentration: 3988 UG/KG

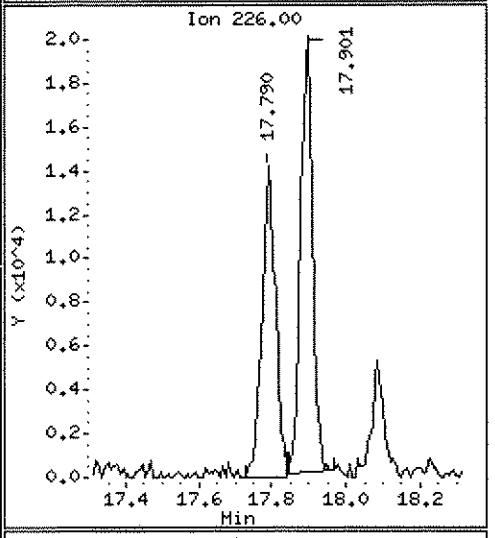


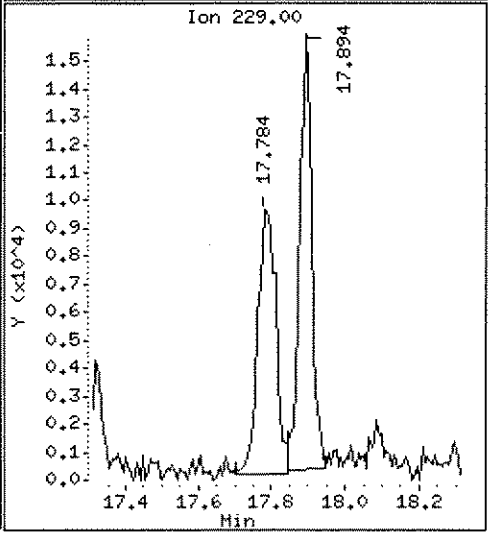












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

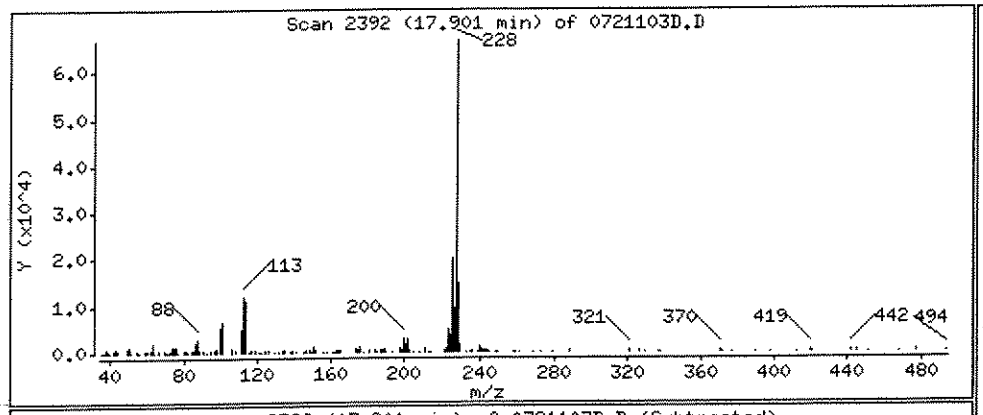
Client ID: 51CFM09S060725 Instrument: bna1.i

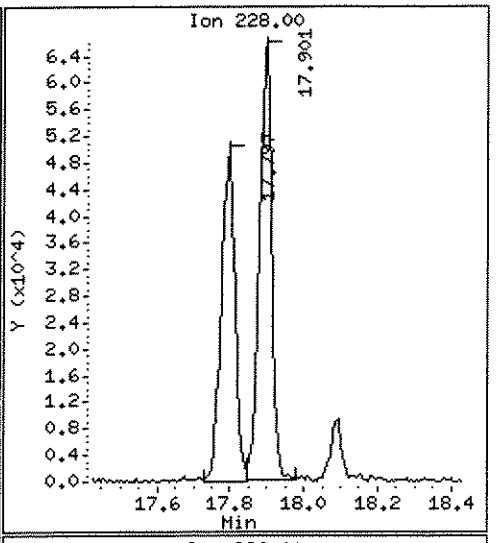
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

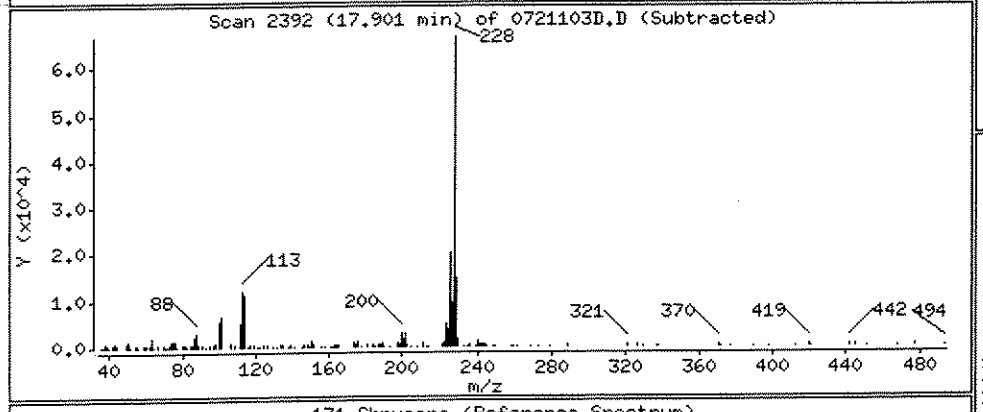
Volume Injected (uL): 0.5 Operator: SDB

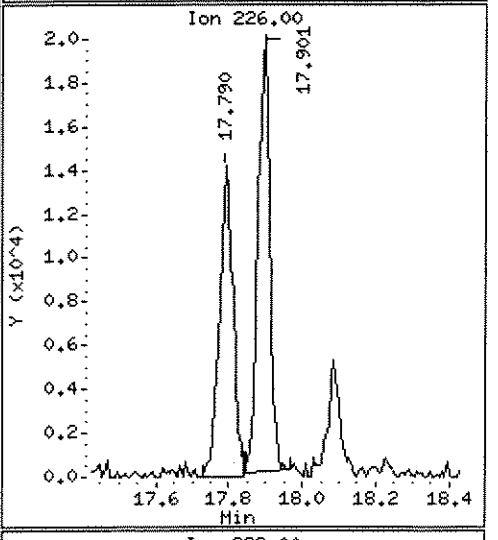
Column phase: fused silica Column diameter: 0.25

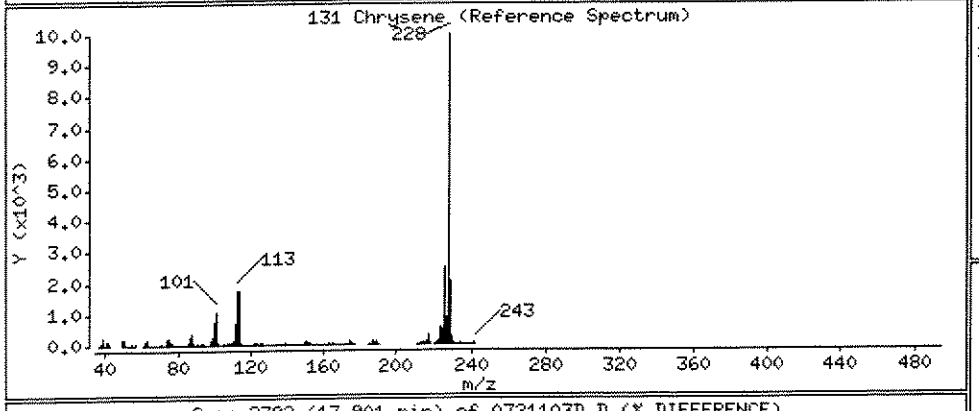
131 Chrysene Concentration: 5077 UG/KG

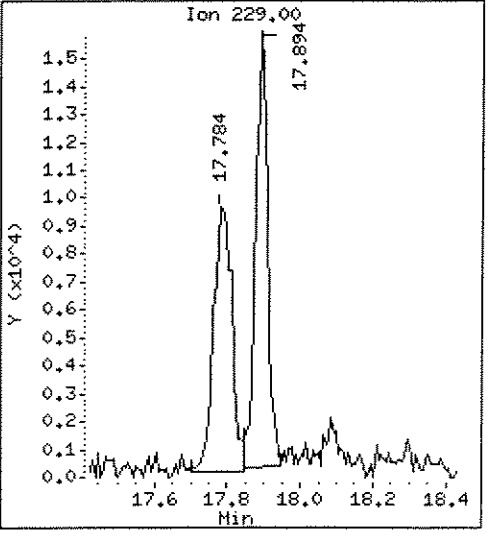


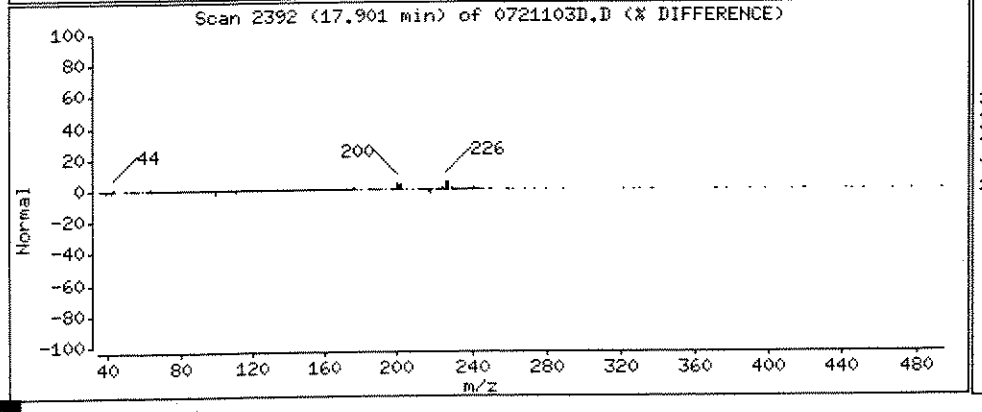












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

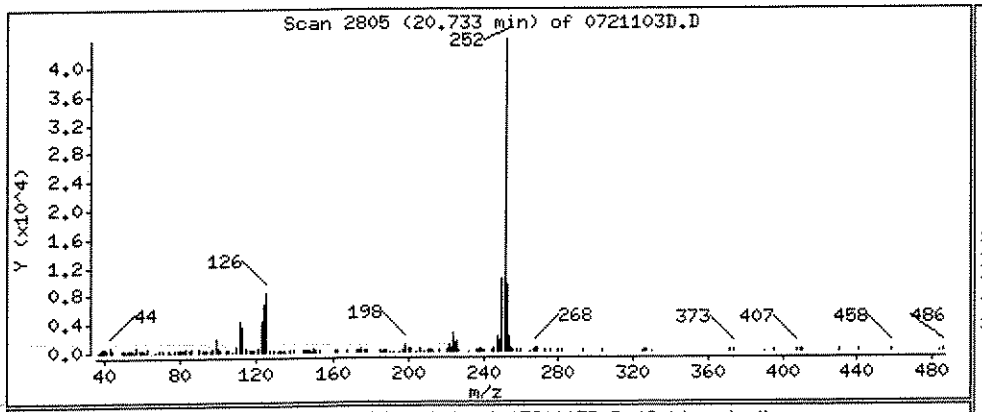
Client ID: 51CFM09S060725 Instrument: bna1.i

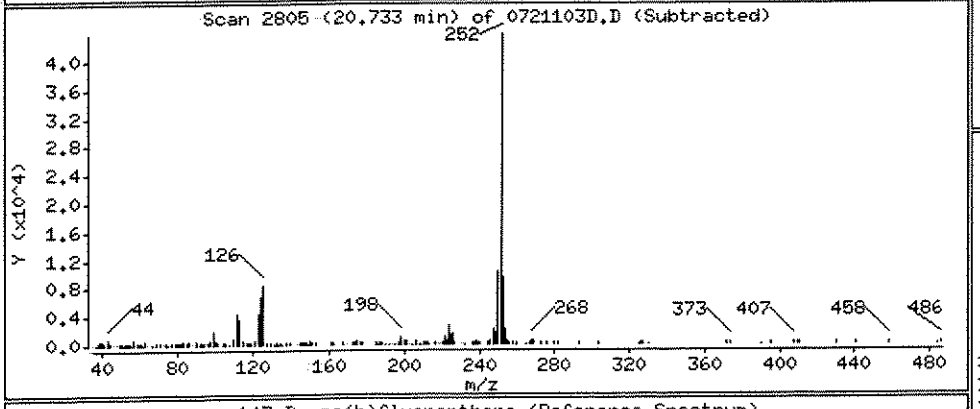
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

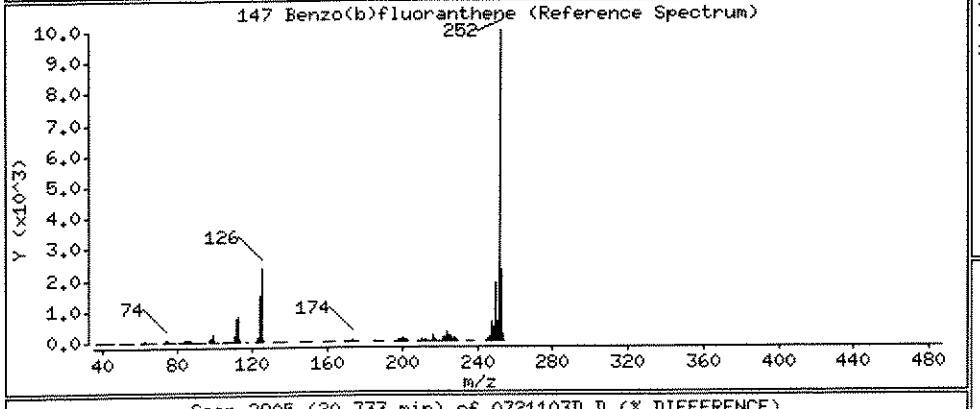
Volume Injected (uL): 0.5 Operator: SDB

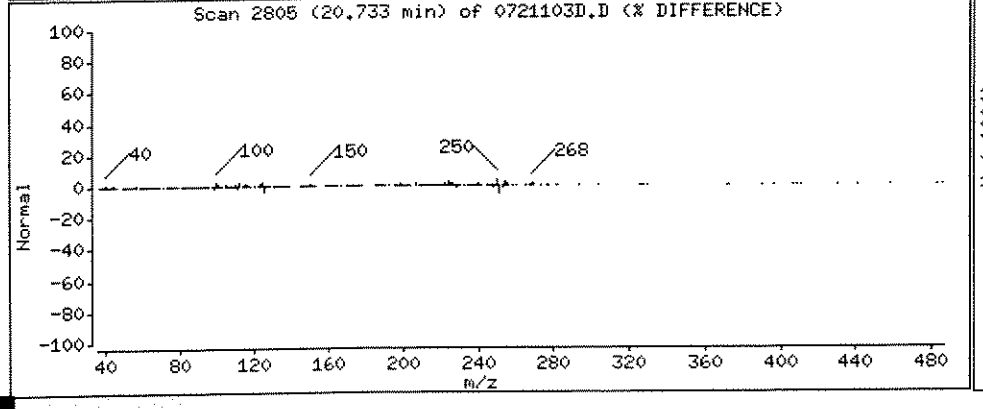
Column phase: fused silica Column diameter: 0.25

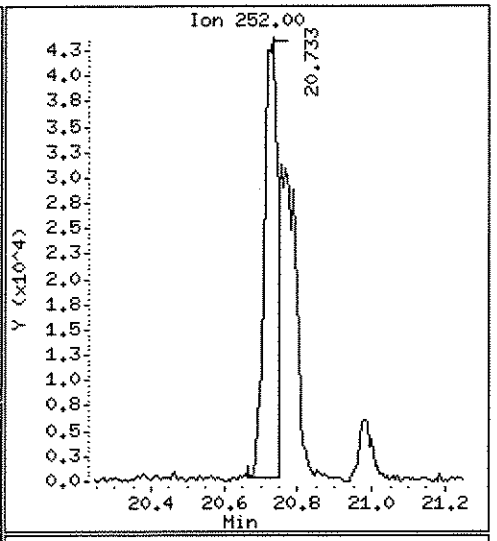
147 Benzo(b)fluoranthene Concentration: 6251 UG/KG

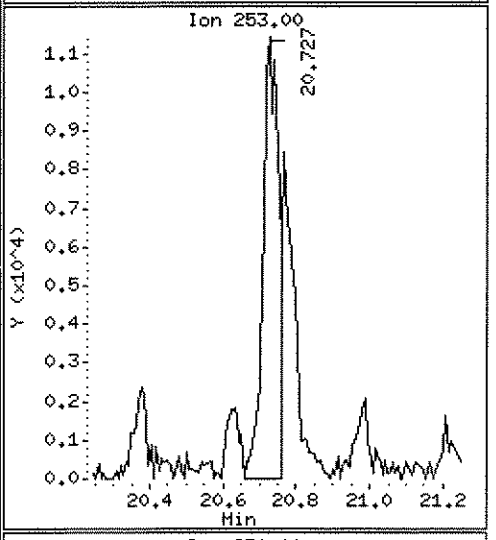


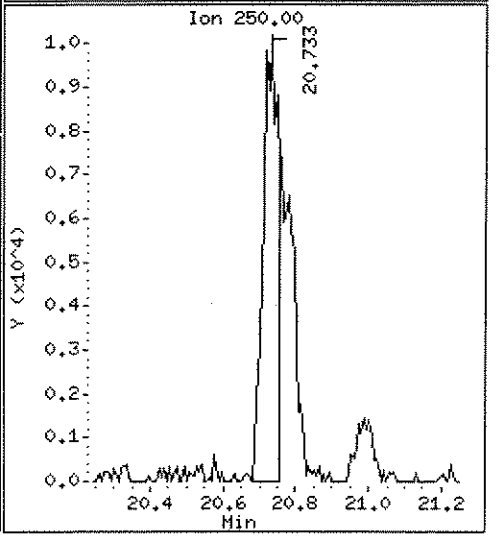












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

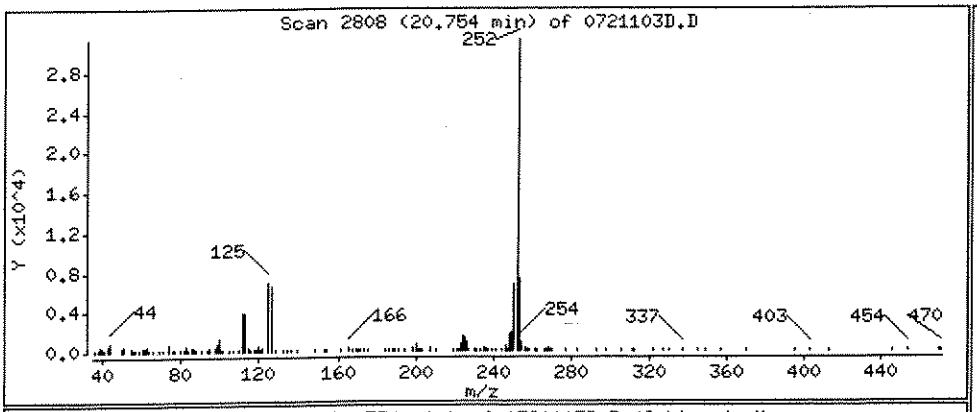
Client ID: 51CFM09S060725 Instrument: bna1.i

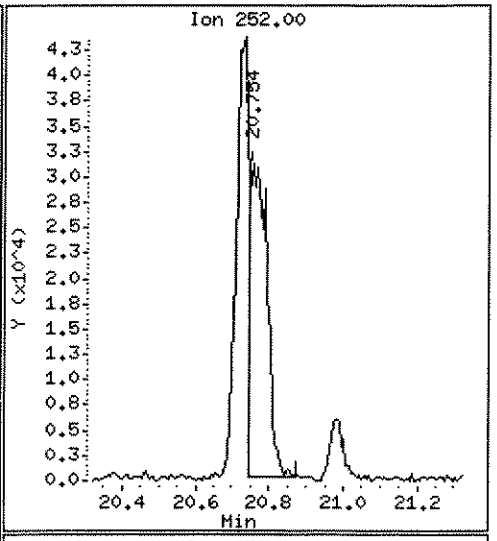
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

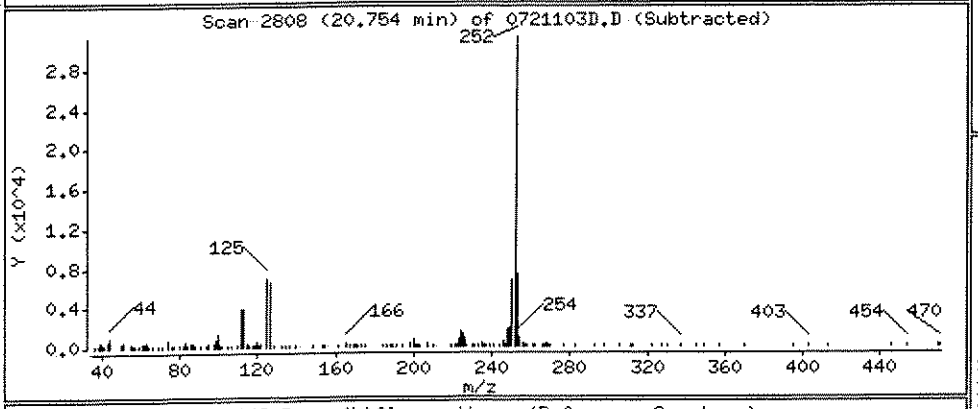
Volume Injected (uL): 0.5 Operator: SDB

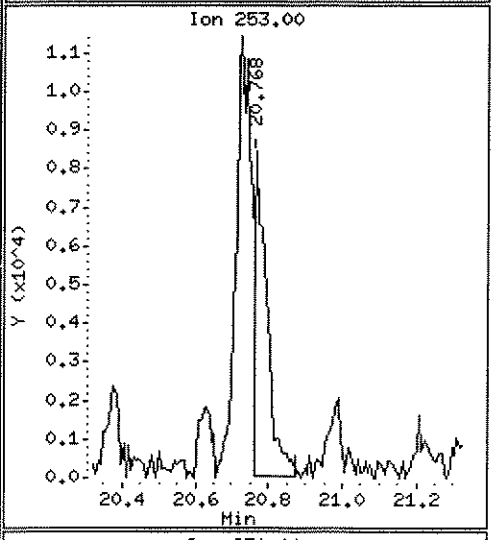
Column phase: fused silica Column diameter: 0.25

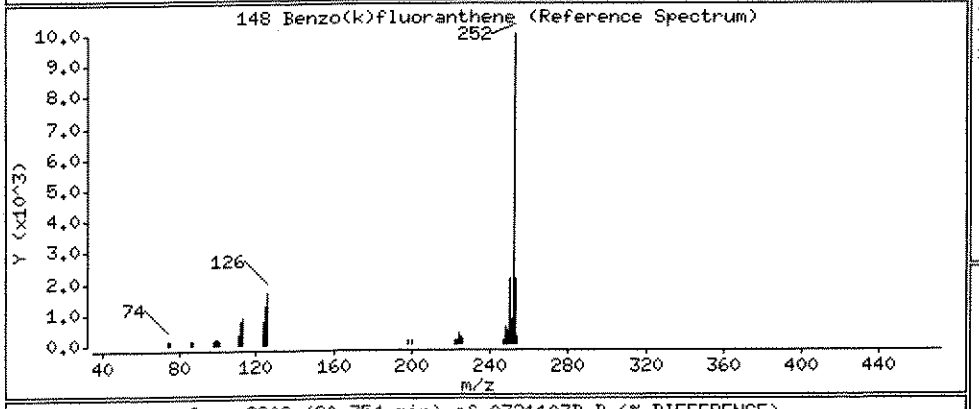
148 Benzo(k)fluoranthene Concentration: 5711 UG/KG

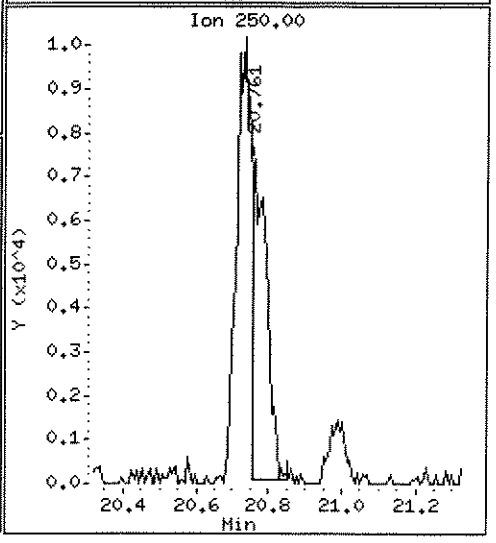


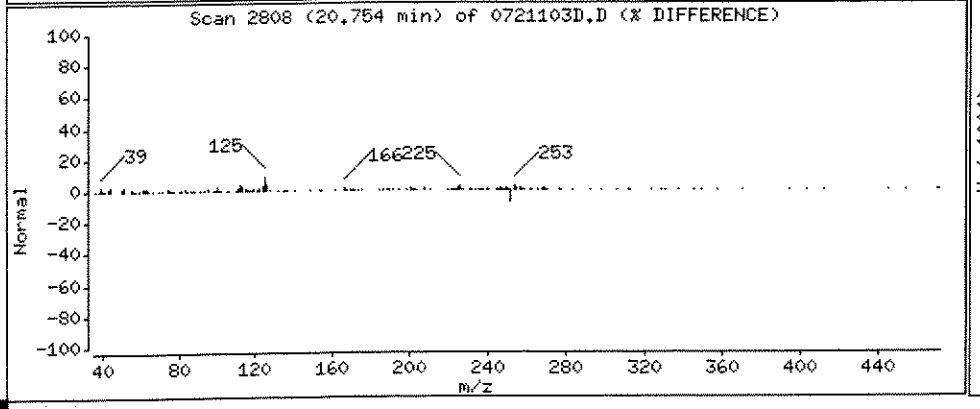












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

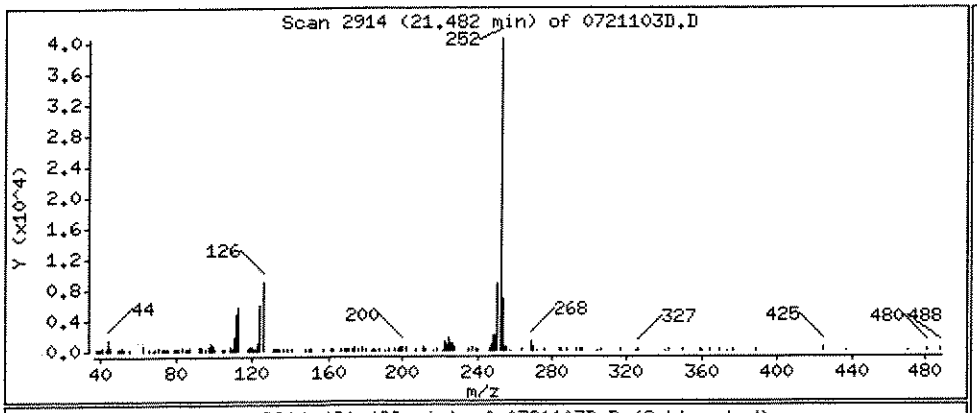
Client ID: 51CFM09S060725 Instrument: bna1.i

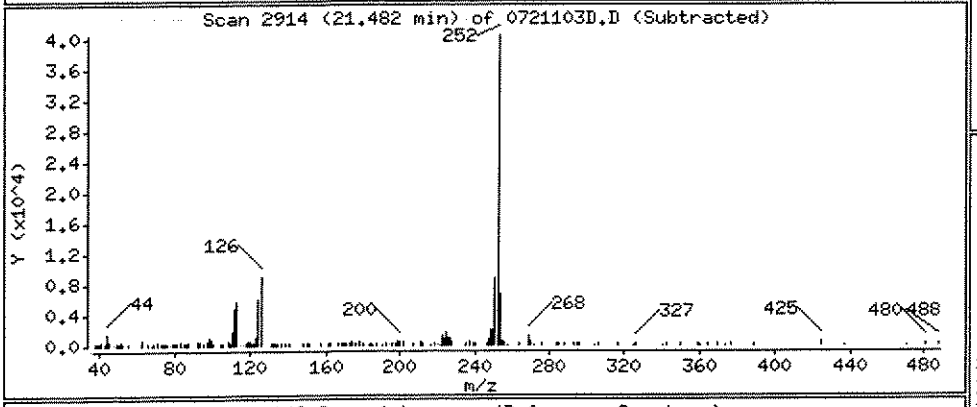
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

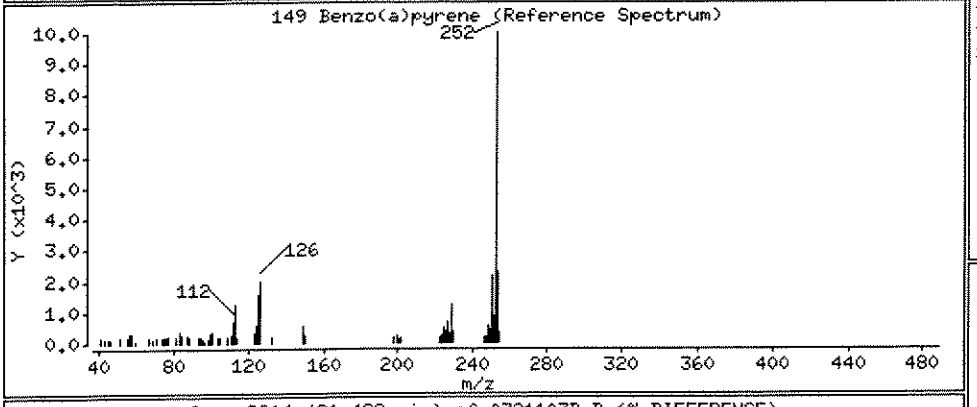
Volume Injected (uL): 0.5 Operator: SDB

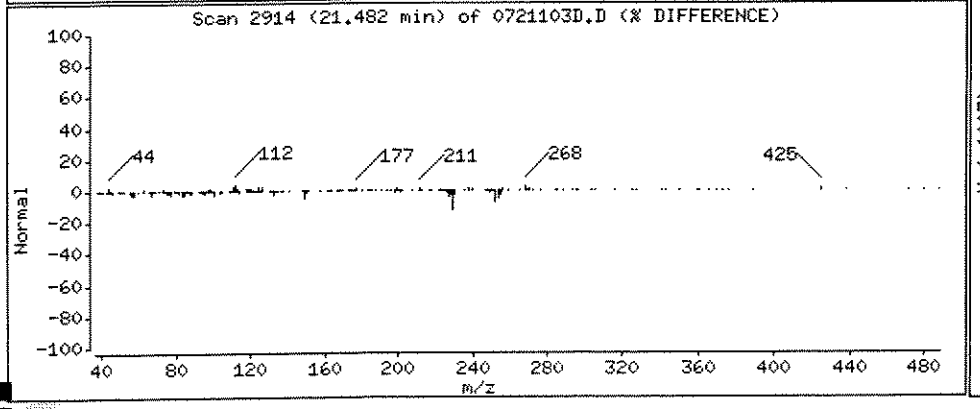
Column phase: fused silica Column diameter: 0.25

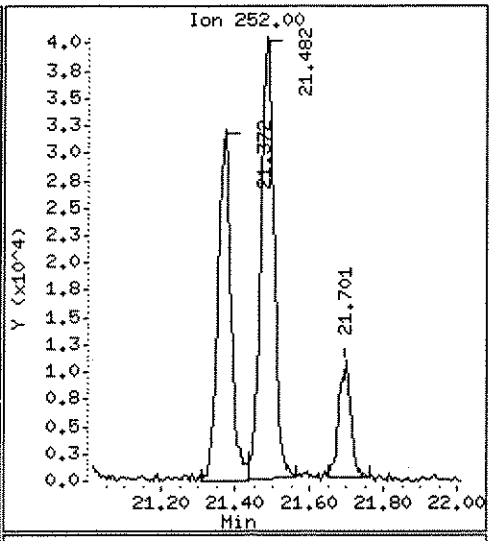
149 Benzo(a)pyrene Concentration: 6628 UG/KG

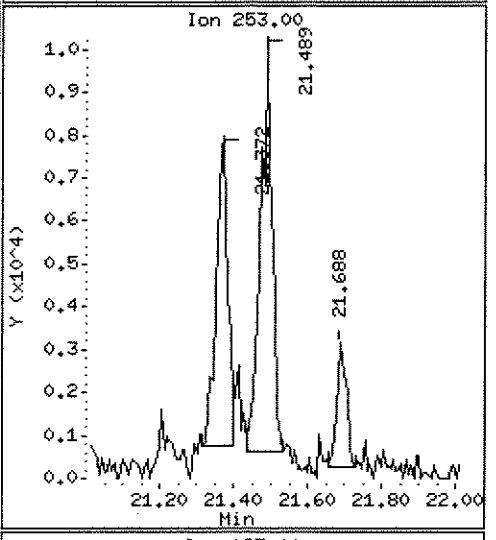


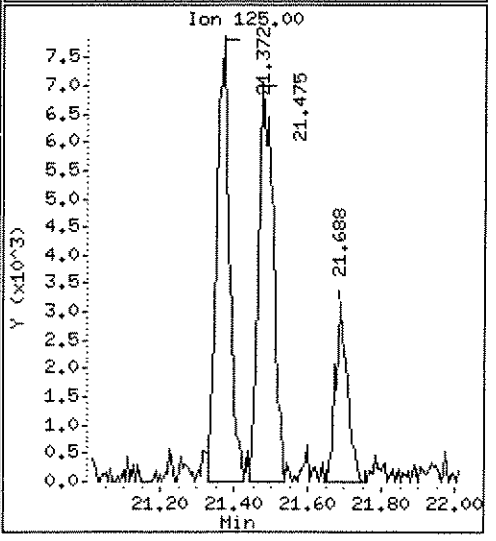












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Date : 27-JUL-2006 13:53

Client ID: 51CFM09S060725

Instrument: bna1.i

Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

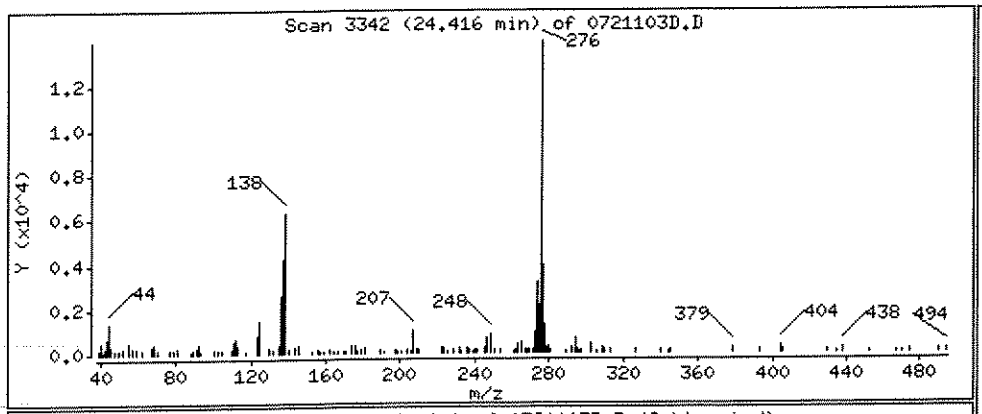
Operator: SDB

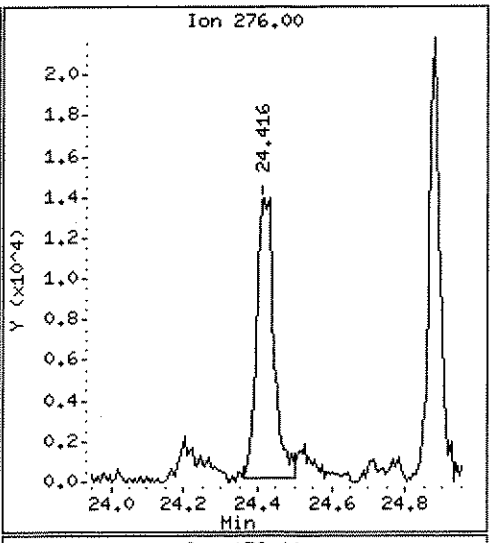
Column phase: fused silica

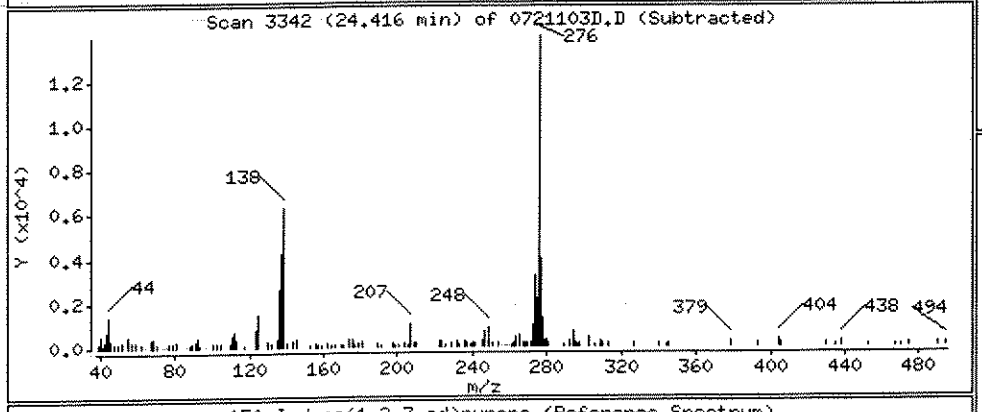
Column diameter: 0.25

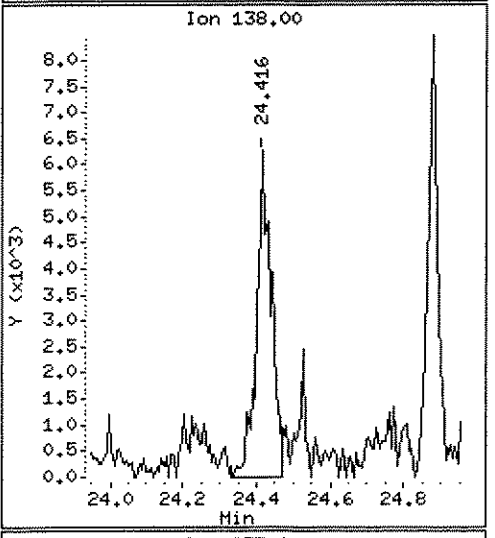
150 Indeno(1,2,3-cd)pyrene

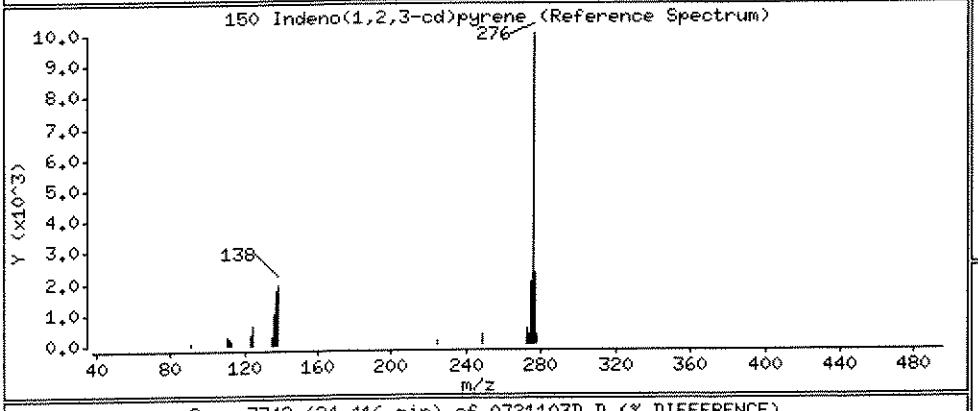
Concentration: 3462 UG/KG

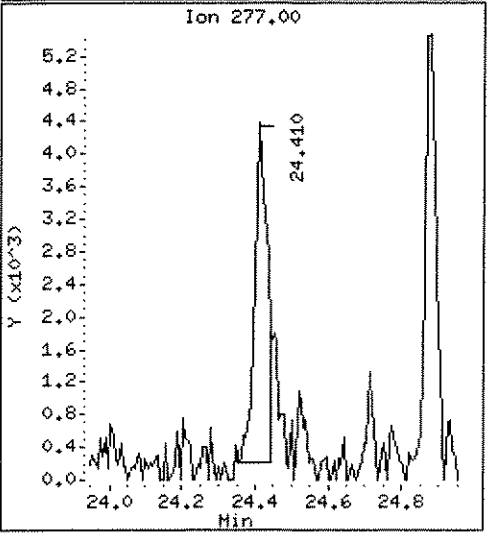


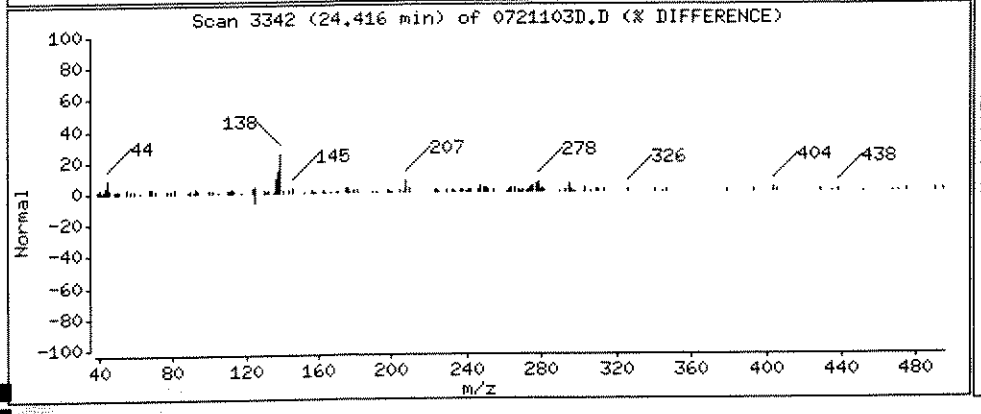












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721103D.D

Date : 27-JUL-2006 13:53

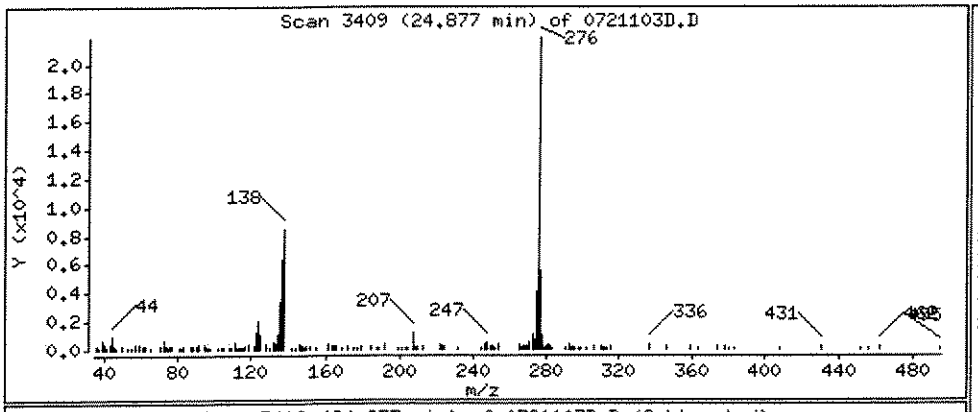
Client ID: 51CFM09S060725 Instrument: bna1.i

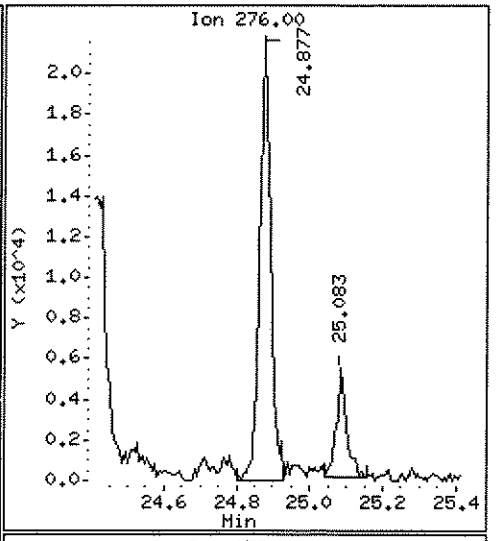
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006

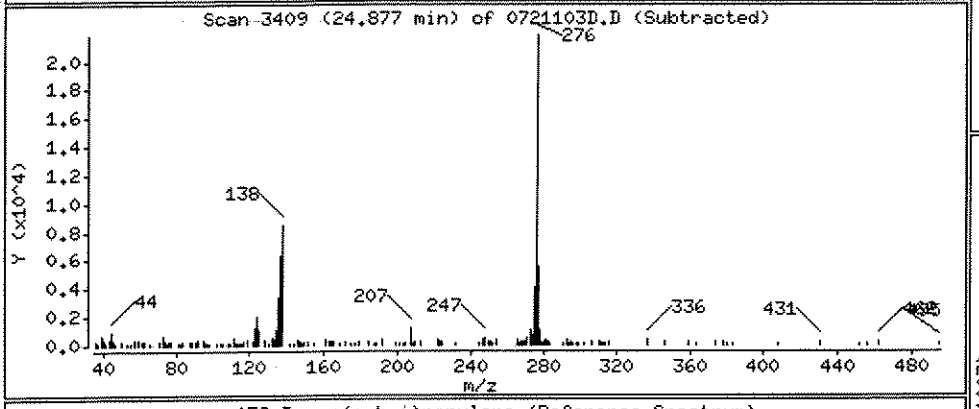
Volume Injected (uL): 0.5 Operator: SDB

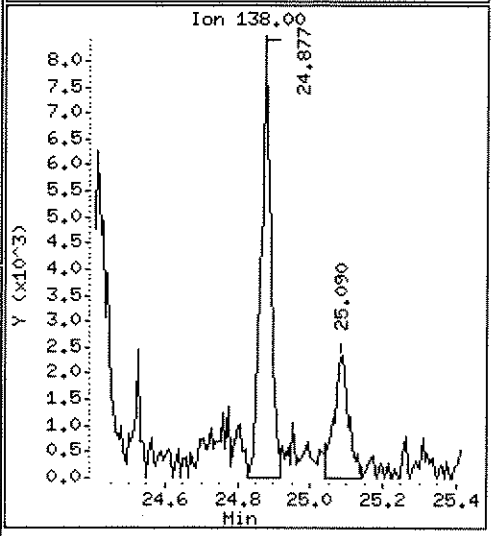
Column phase: fused silica Column diameter: 0.25

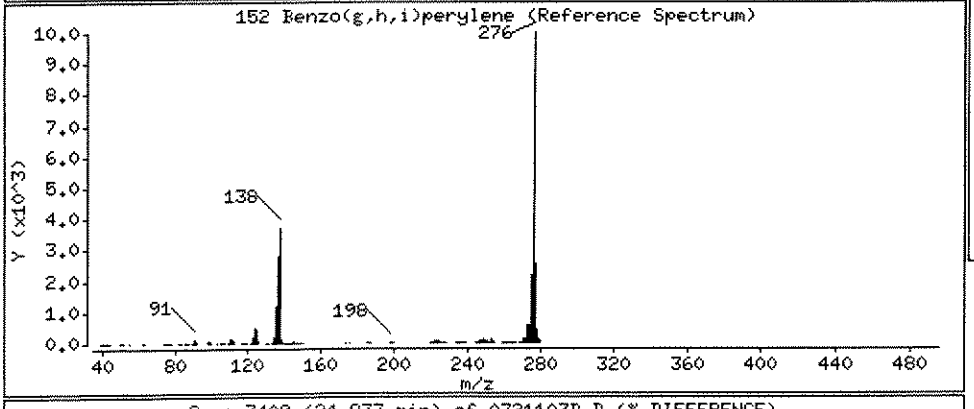
152 Benzo(g,h,i)perylene Concentration: 3450 UG/KG

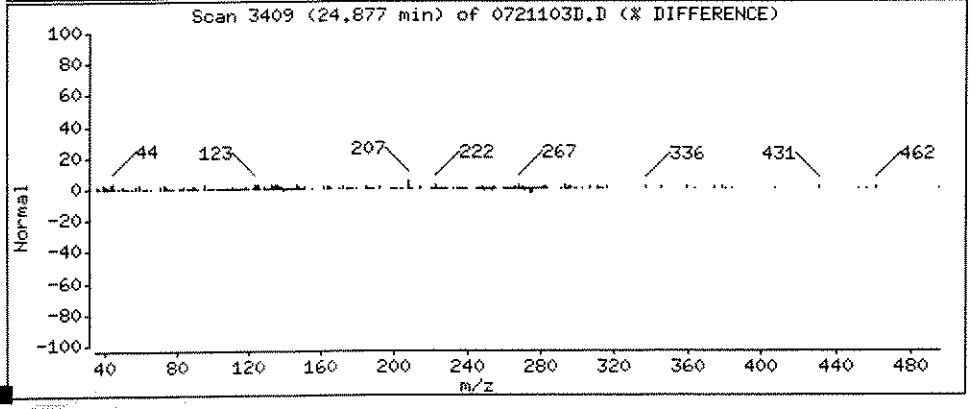












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721104

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 17:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180	300	
205-99-2	Benzo(b)fluoranthene	22	180	540	
207-08-9	Benzo(k)fluoranthene	22	180	380	
191-24-2	Benzo(g,h,i)perylene	22	180	180	J
50-32-8	Benzo(a)pyrene	22	110	460	
218-01-9	Chrysene	22	180	420	
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180	290	
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	190	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	65	J
129-00-0	Pyrene	22	180	380	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D
Report Date: 27-Jul-2006 09:06

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Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D
Lab Smp Id: 0607211-04 Client Smp ID: 51CFM10S060725
Inj Date : 26-JUL-2006 17:28
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-04;15.1;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	92.400	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	516363	40.0000	
* 31 Naphthalene-d8	136	5.089	5.088	(1.000)	1698673	40.0000	
$ 32 Nitrobenzene-d5	82	4.546	4.553	(0.893)	529378	28.5484	1023
* 65 Acenaphthene-d10	164	7.382	7.382	(1.000)	886038	40.0000	
$ 70 2-Fluorobiphenyl	172	6.338	6.345	(0.859)	808400	28.6702	1027
* 97 Phenanthrene-d10	188	10.588	10.583	(1.000)	1073107	40.0000	
106 Phenanthrene	178	10.636	10.645	(1.005)	55523	1.81468	65.03(a)
110 Fluoranthene	202	13.812	13.814	(1.305)	244790	8.08105	289.6
* 124 Chrysene-d12	240	17.946	17.933	(1.000)	650332	40.0000	
126 Pyrene	202	14.383	14.390	(0.801)	273452	10.5287	377.3
$ 127 Terphenyl-d14	244	15.191	15.177	(0.846)	713069	43.4223	1556
130 Benzo(a)anthracene	228	17.898	17.885	(0.997)	176444	8.42064	301.8
131 Chrysene	228	18.002	18.002	(1.003)	224552	11.7332	420.5

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D
Report Date: 27-Jul-2006 09:06

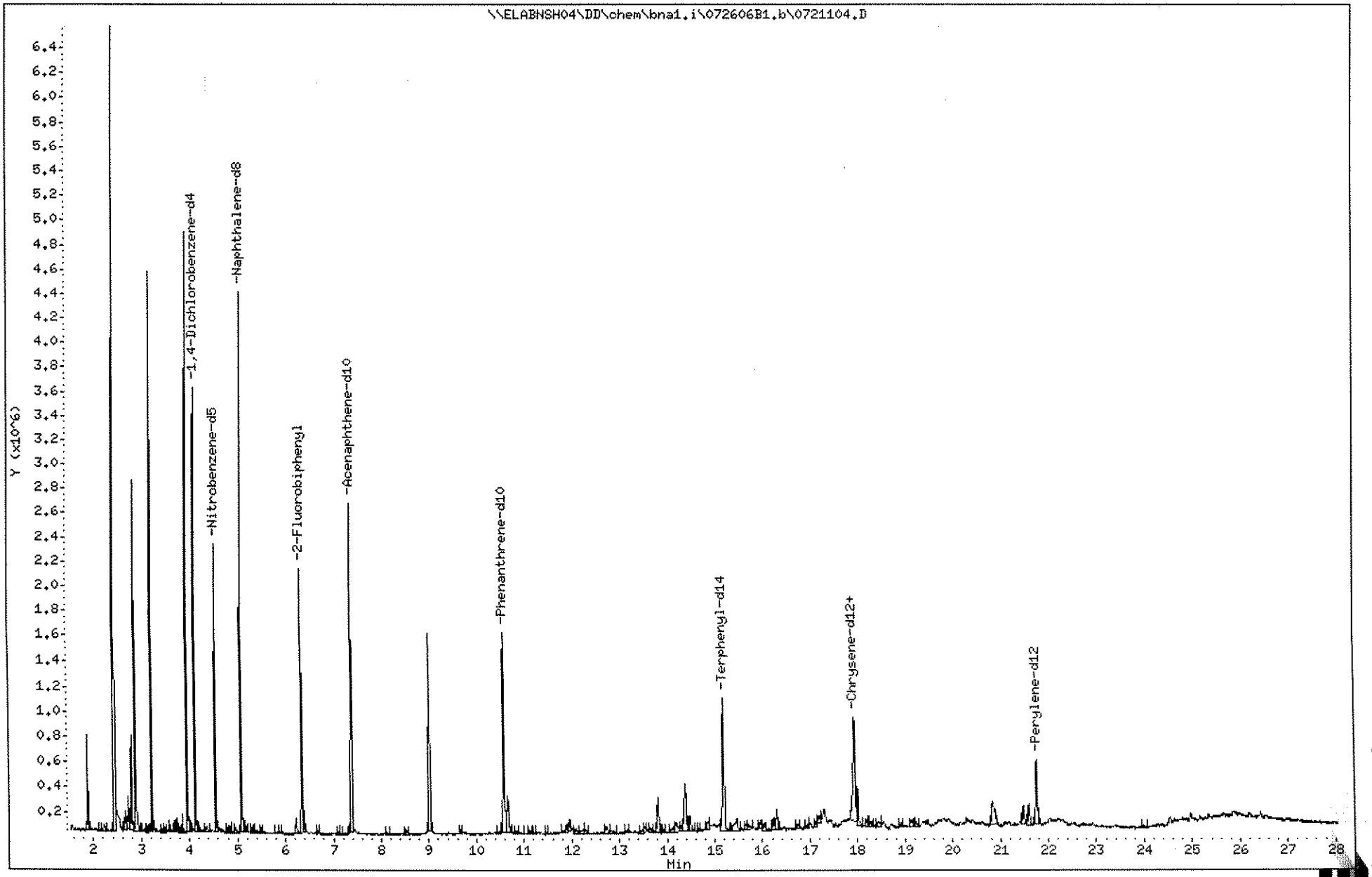
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	21.760	21.736	(1.000)	407368	40.0000	
147 Benzo(b)fluoranthene	252	20.841	20.823	(0.958)	189669	15.1146	541.6(M)
148 Benzo(k)fluoranthene	252	20.869	20.893	(0.959)	137540	10.5643	378.6(M)
149 Benzo(a)pyrene	252	21.592	21.584	(0.992)	139962	12.9345	463.5
150 Indeno(1,2,3-cd)pyrene	276	24.528	24.521	(1.127)	49960	5.41154	193.9
152 Benzo(g,h,i)perylene	276	24.969	24.961	(1.147)	47108	4.91703	176.2(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D
Date : 26-JUL-2006 17:28
Client ID: 51CFM10S060725
Instrument: bna1.i
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000072



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Date : 26-JUL-2006 17:28

Client ID: 51CFM10S060725

Instrument: bna1.i

Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

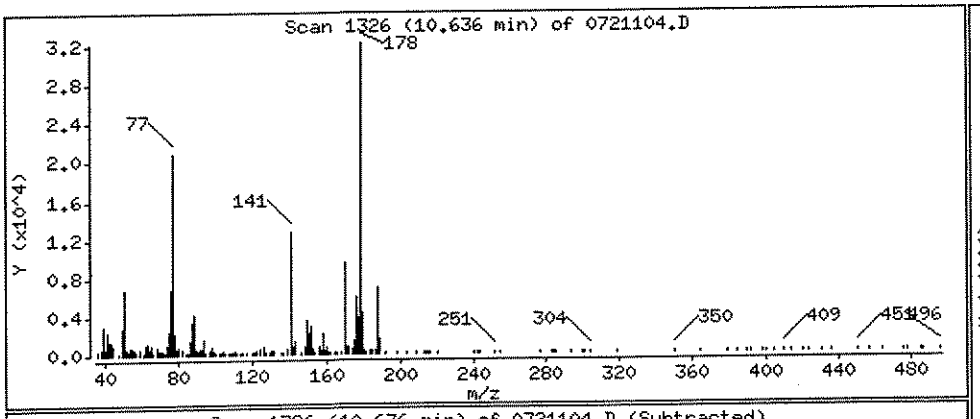
Operator: SDB

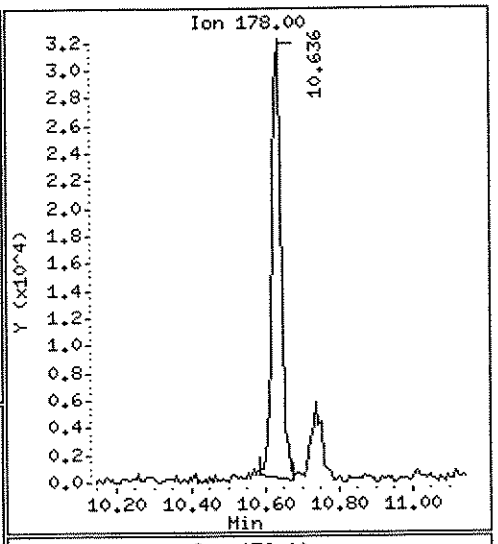
Column phase: fused silica

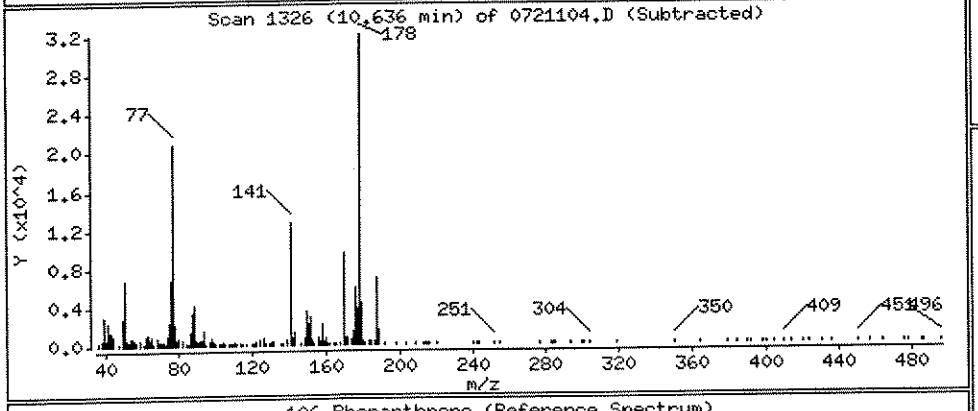
Column diameter: 0.25

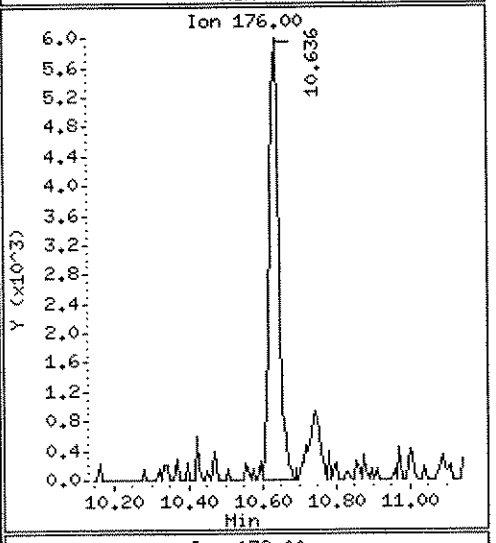
106 Phenanthrene

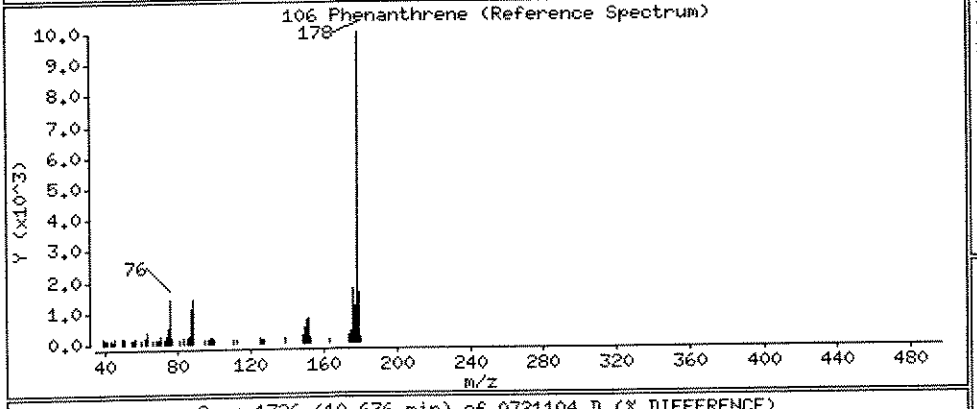
Concentration: 60.09 UG/KG

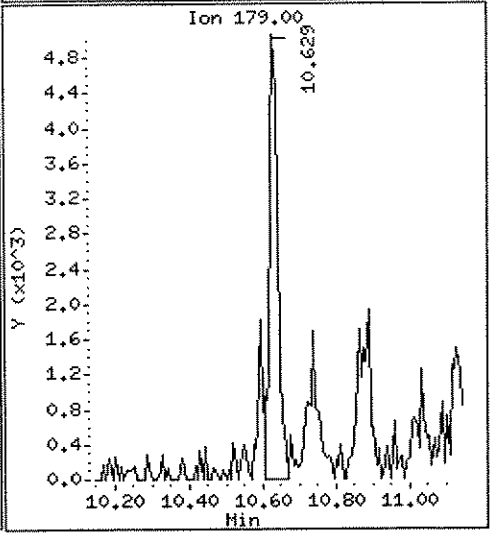


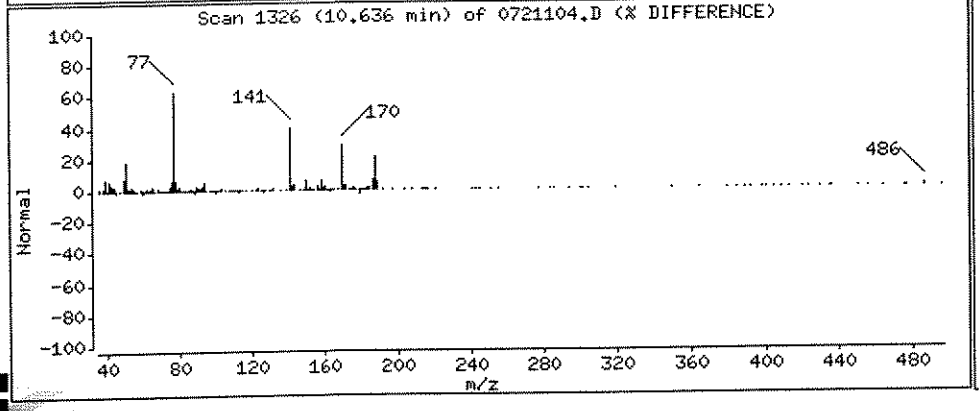












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Date : 26-JUL-2006 17:28

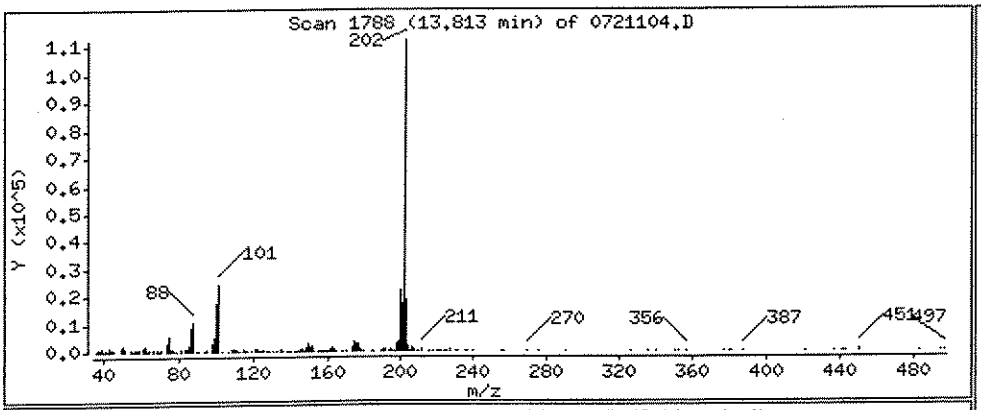
Client ID: 51CFM10S060725 Instrument: bna1.i

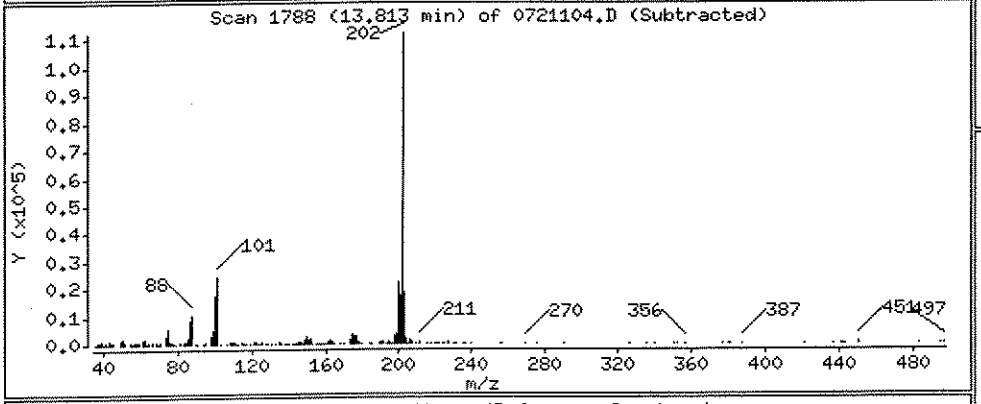
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

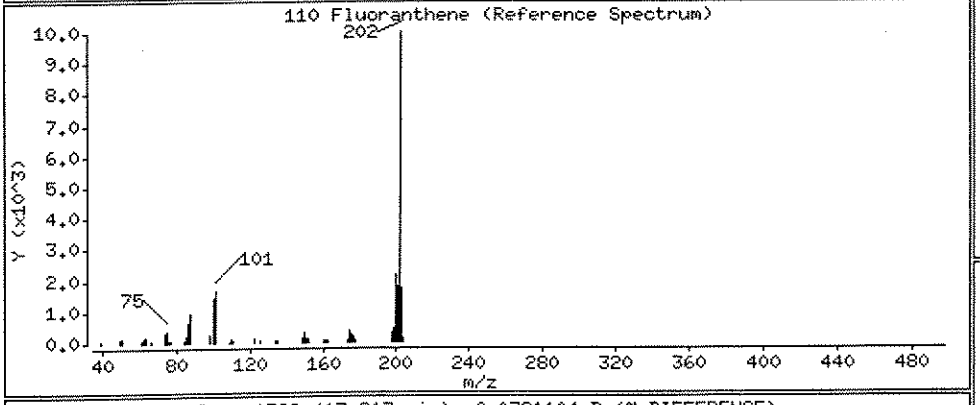
Volume Injected (uL): 0.5 Operator: SDB

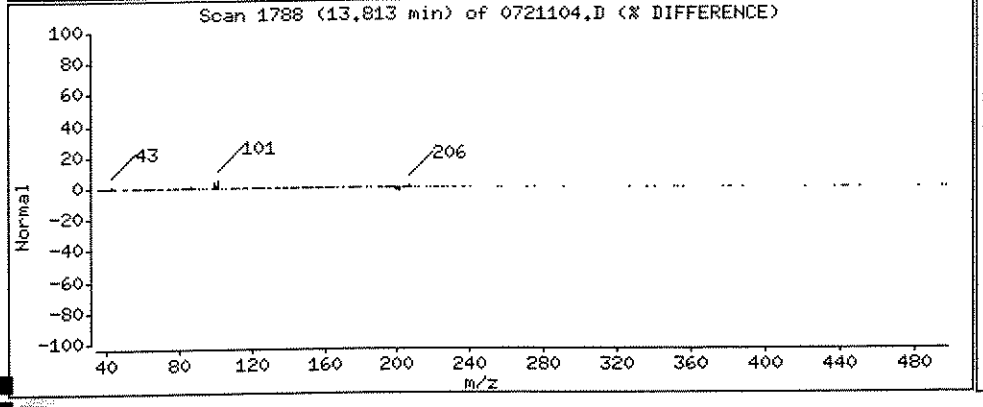
Column phase: fused silica Column diameter: 0.25

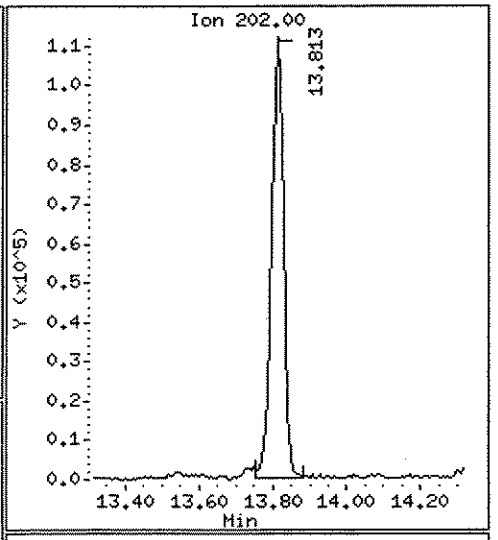
110 Fluoranthene Concentration: 267.6 UG/KG

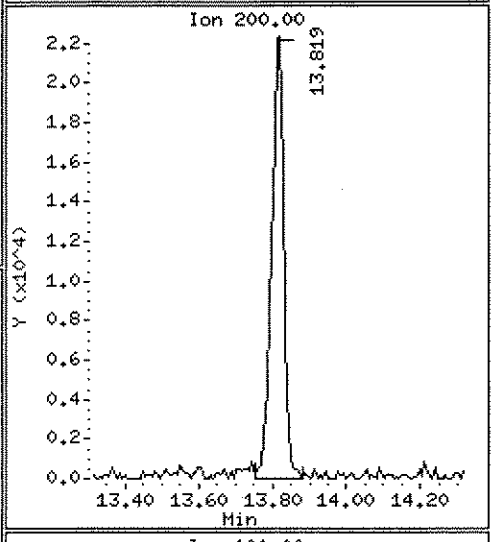


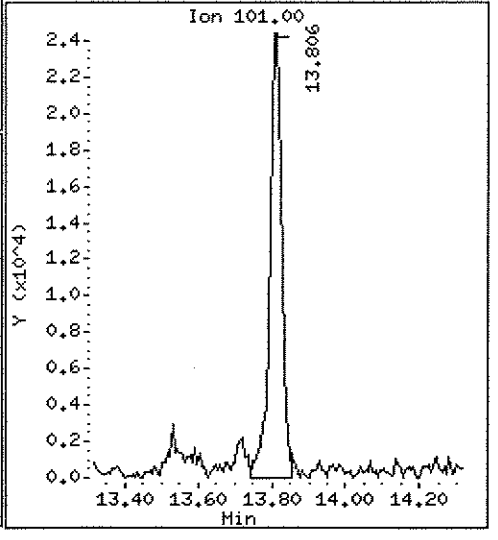












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Date : 26-JUL-2006 17:28

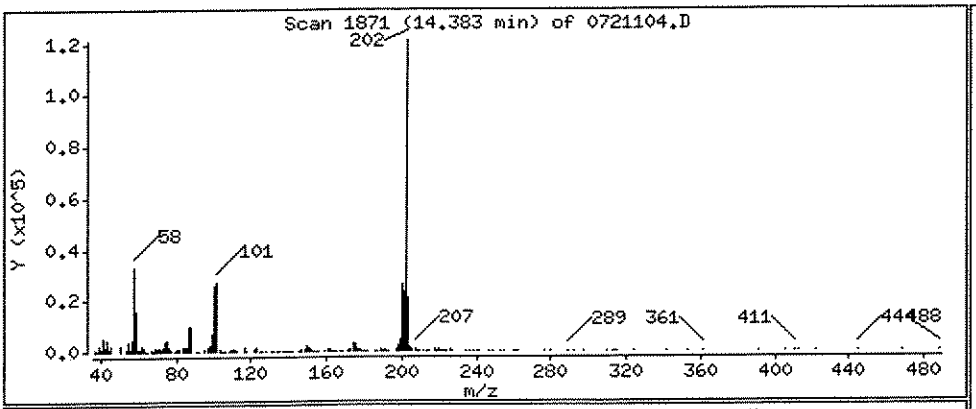
Client ID: 51CFM10S060725 Instrument: bna1.i

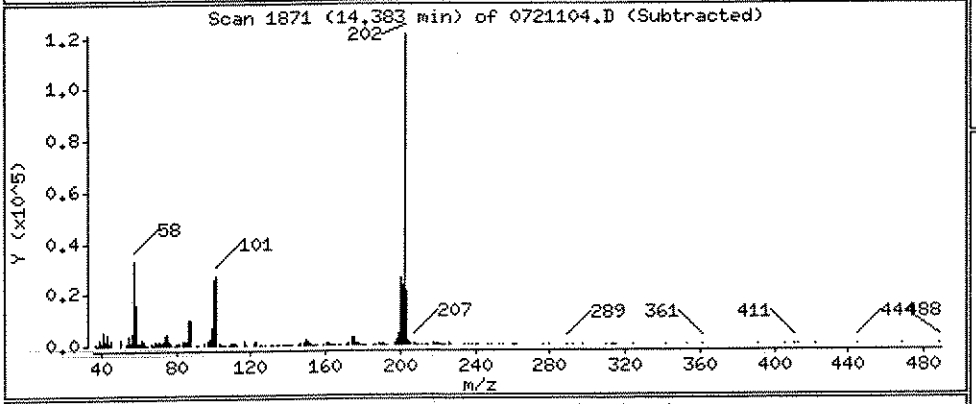
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

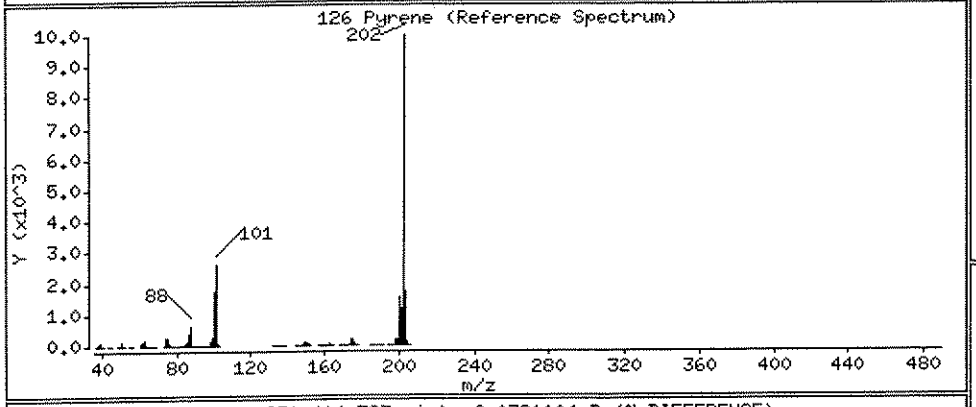
Volume Injected (uL): 0.5 Operator: SDB

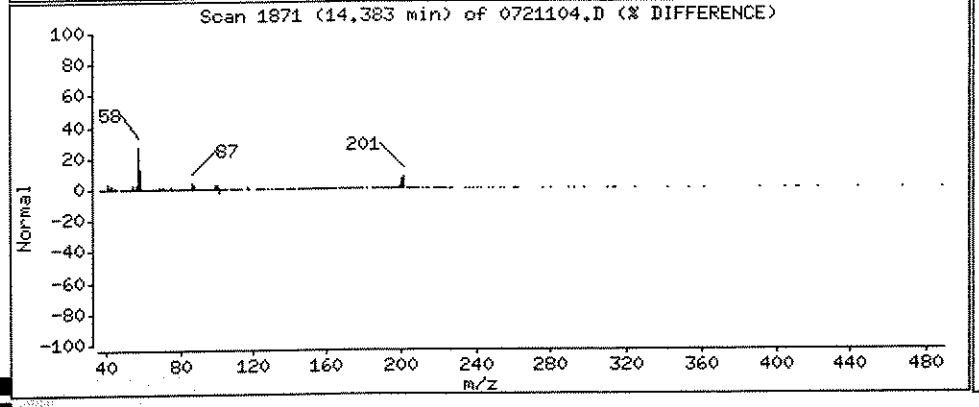
Column phase: fused silica Column diameter: 0.25

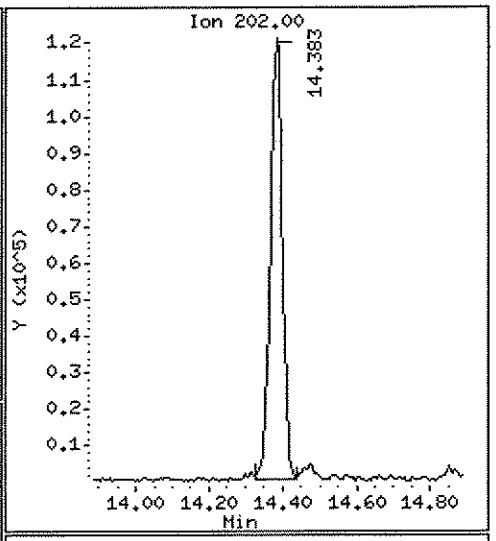
126 Pyrene Concentration: 348.6 UG/KG

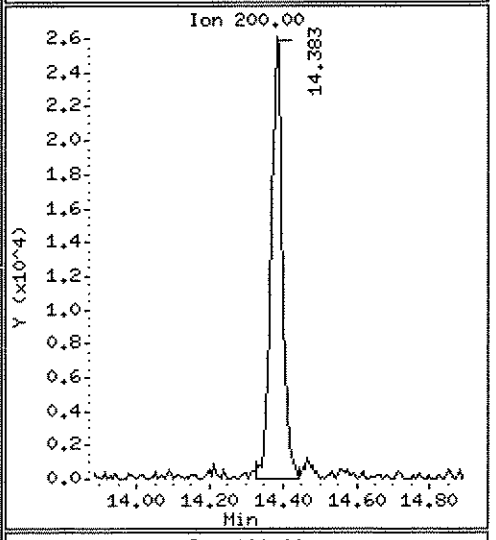


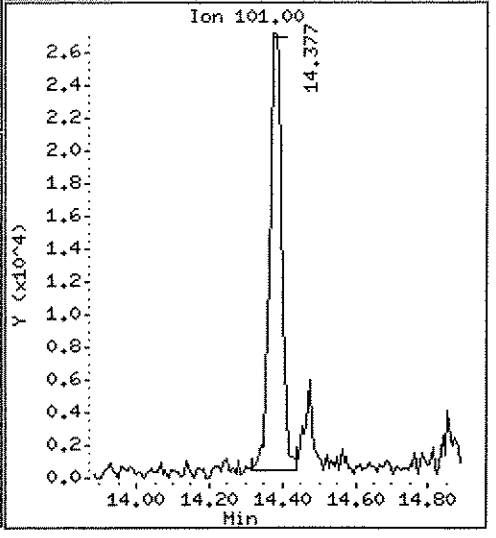












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Date : 26-JUL-2006 17:28

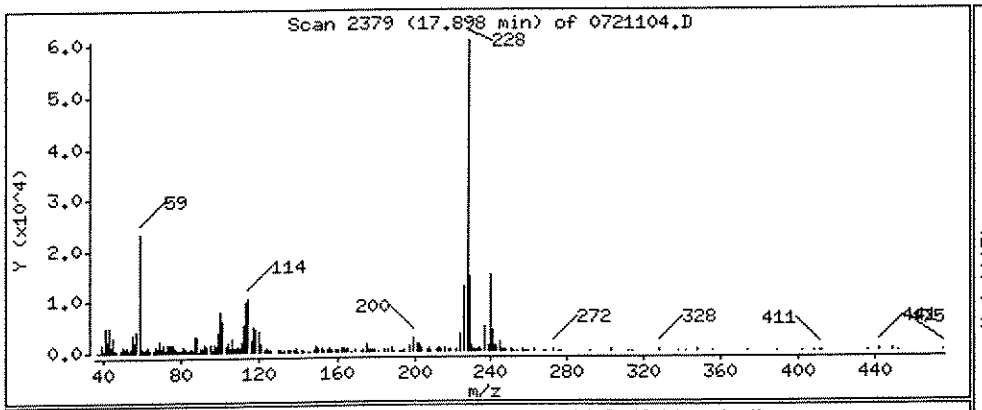
Client ID: 51CFM10S060725 Instrument: bna1.i

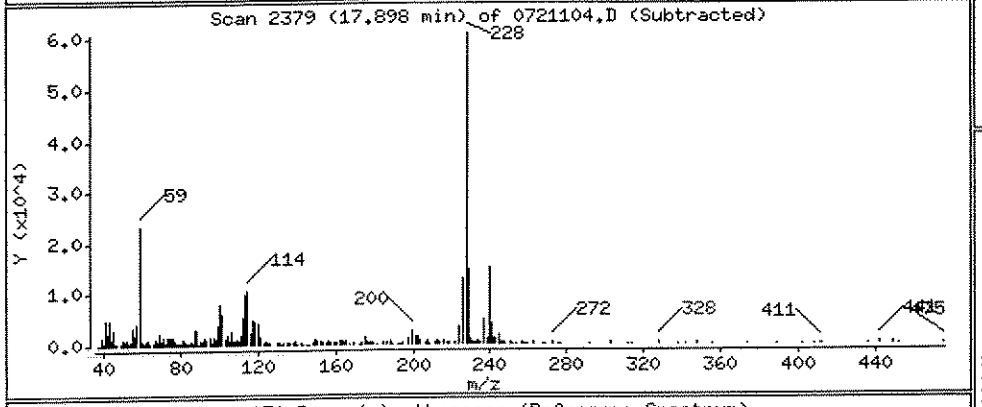
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

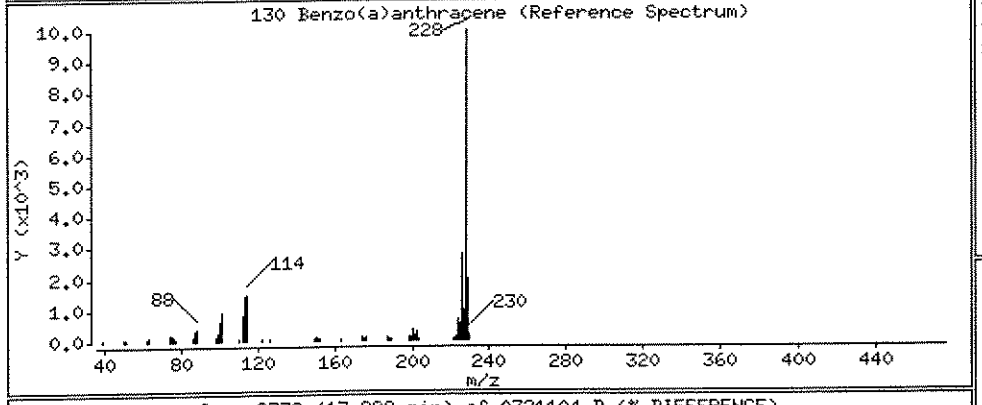
Volume Injected (uL): 0.5 Operator: SDB

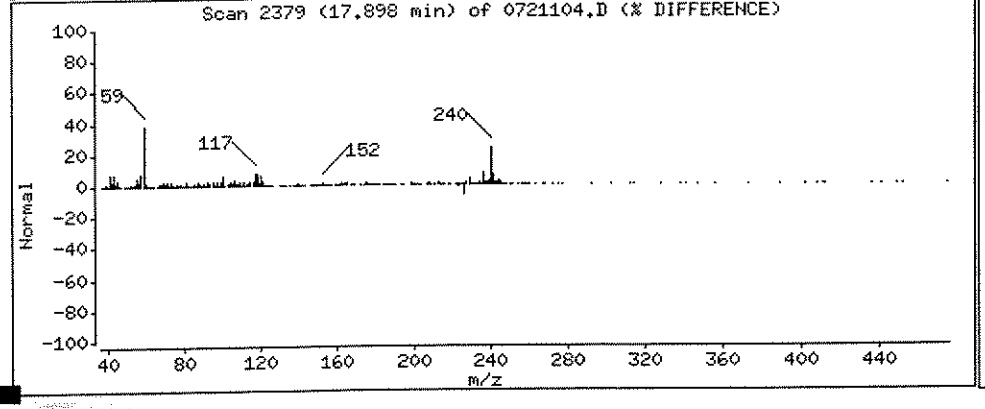
Column phase: fused silica Column diameter: 0.25

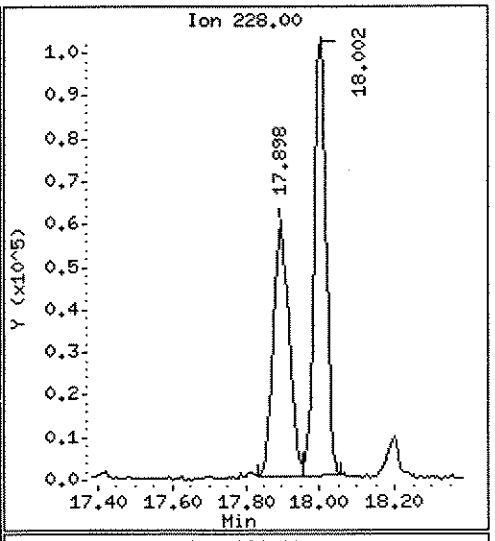
130 Benzo(a)anthracene Concentration: 278.8 UG/KG

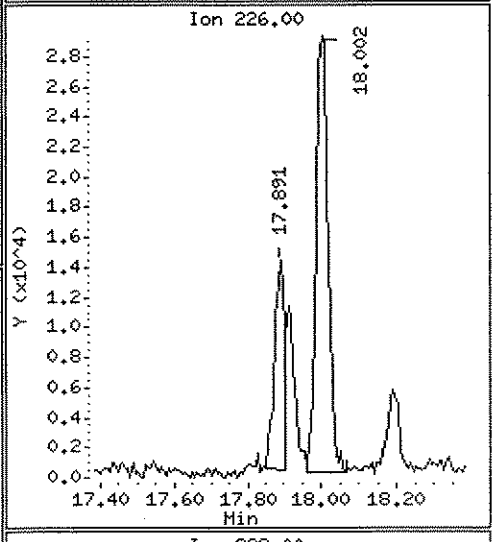


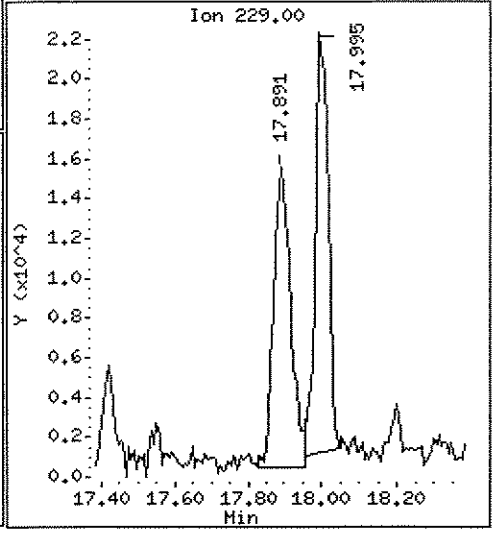












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Date : 26-JUL-2006 17:28

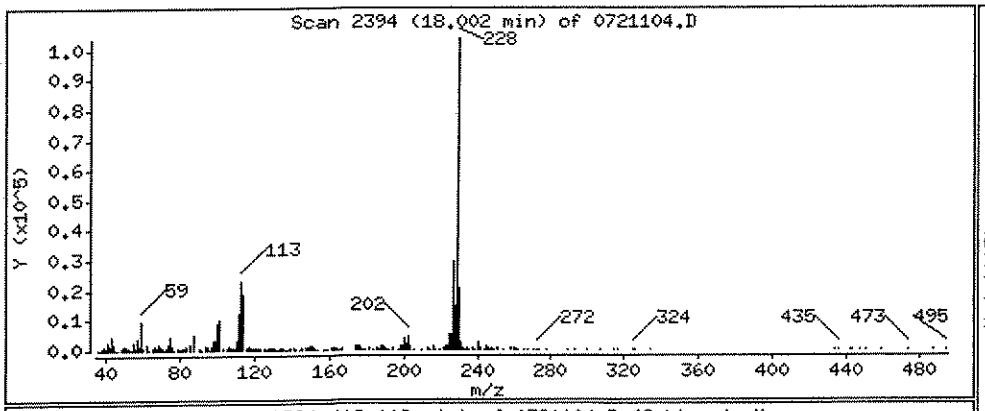
Client ID: 51CFM10S060725 Instrument: bna1.i

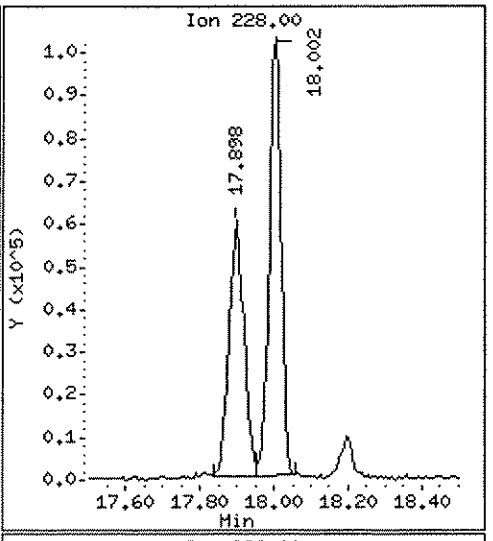
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

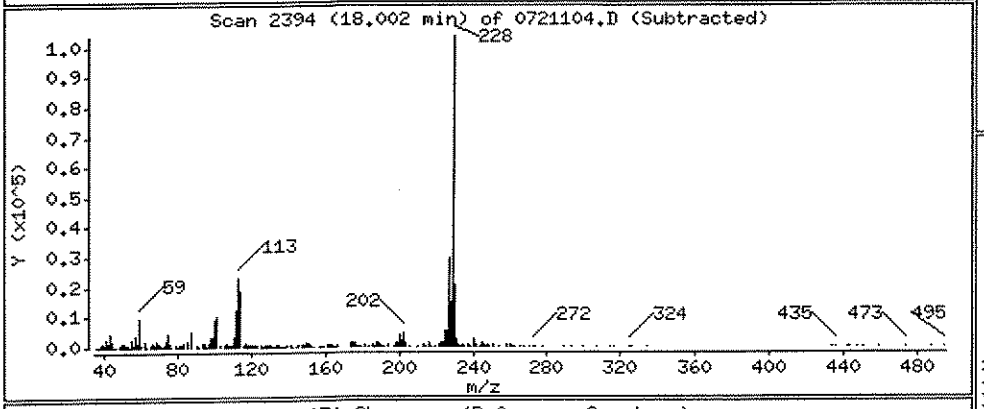
Volume Injected (uL): 0.5 Operator: SDB

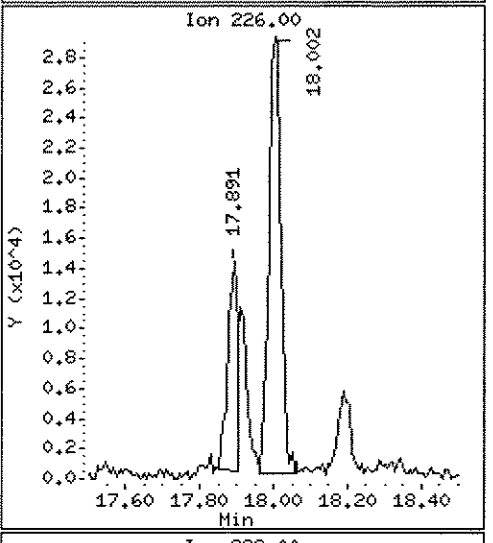
Column phase: fused silica Column diameter: 0.25

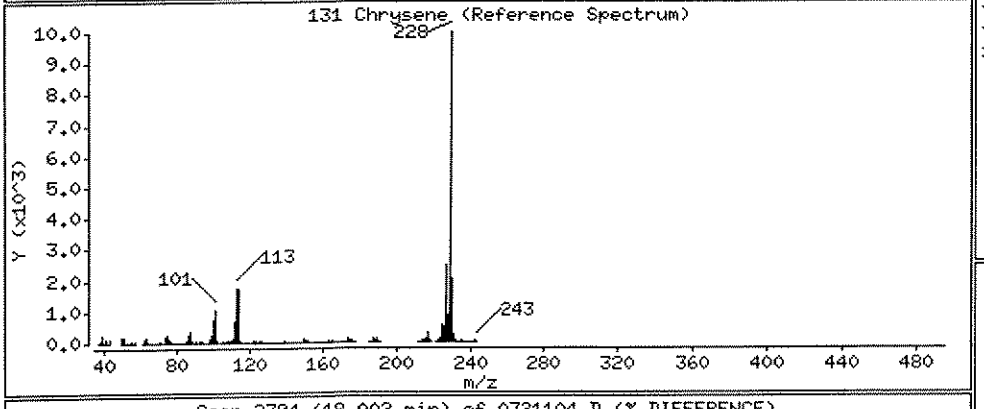
131 Chrysene Concentration: 388.5 UG/KG

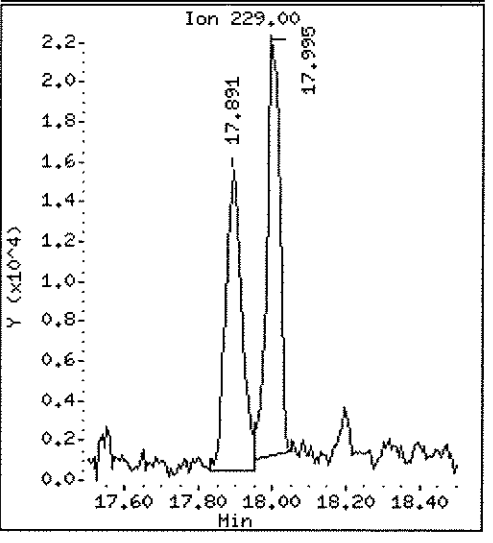


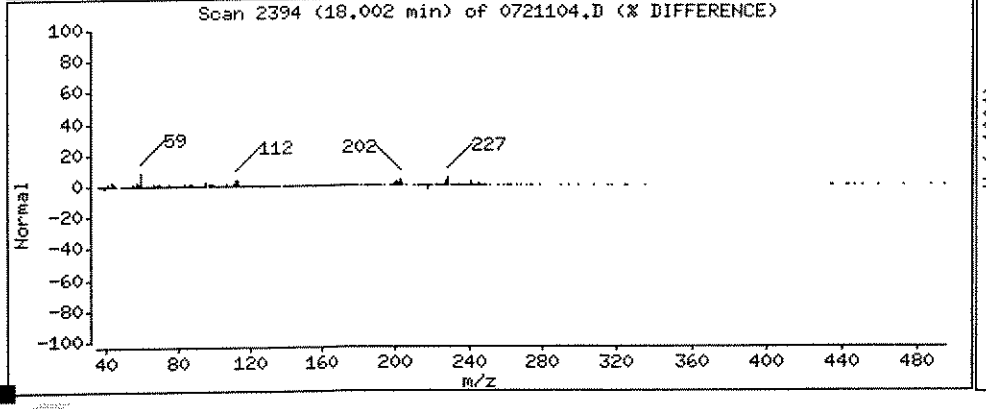












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Date : 26-JUL-2006 17:28

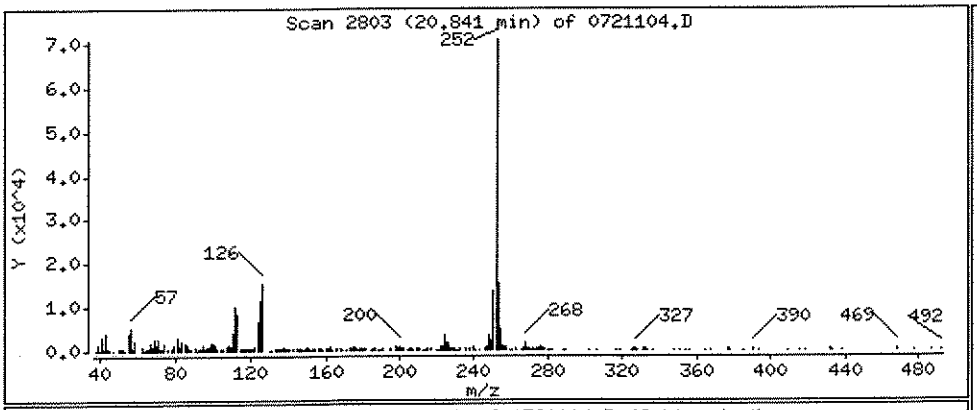
Client ID: 51CFM10S060725 Instrument: bna1.i

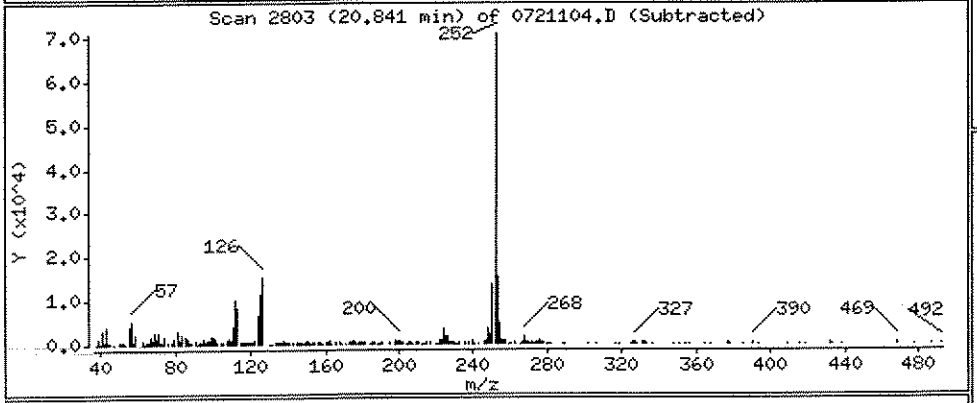
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

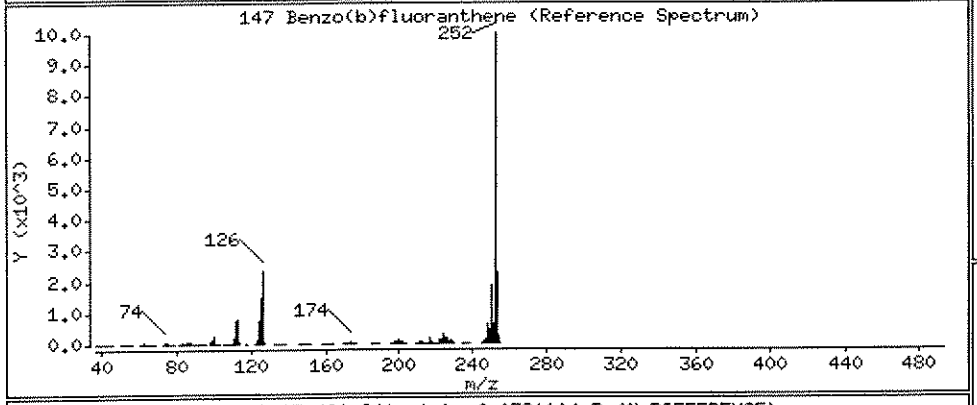
Volume Injected (uL): 0.5 Operator: SDB

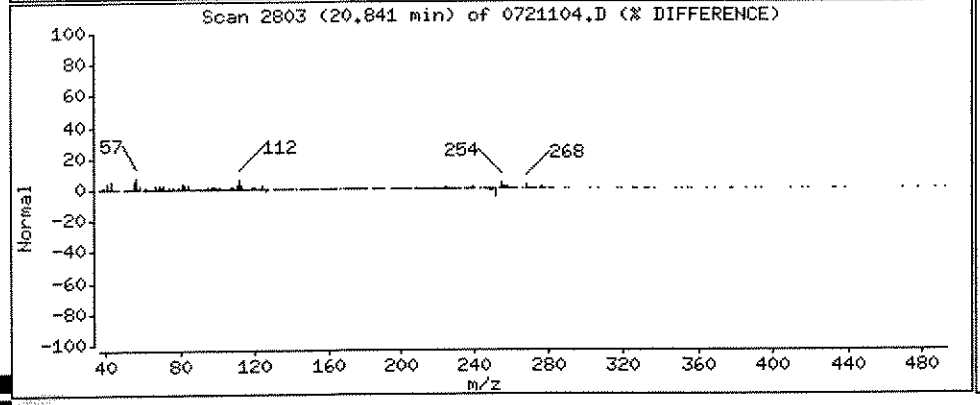
Column phase: fused silica Column diameter: 0.25

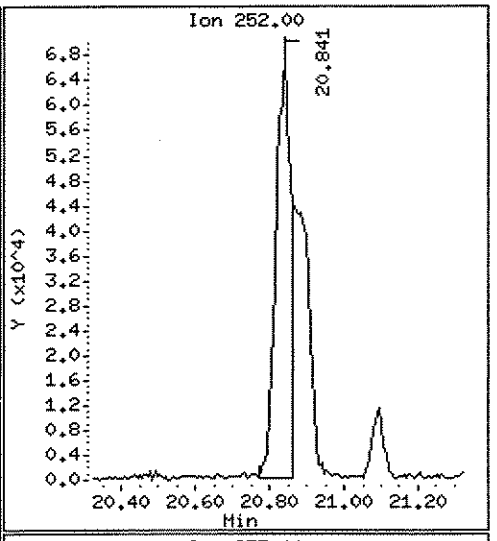
147 Benzo(b)fluoranthene Concentration: 500.5 UG/KG

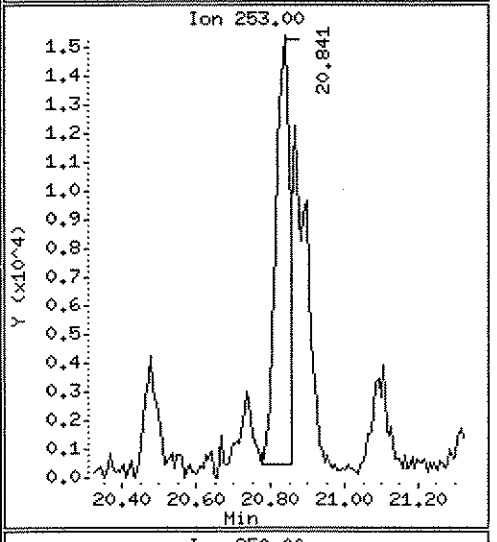


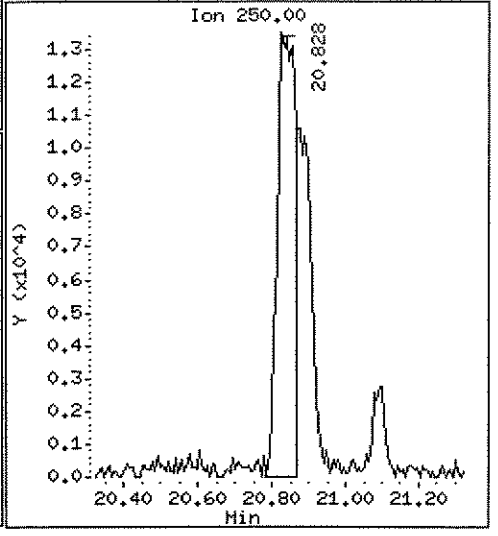












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D

Date : 26-JUL-2006 17:28

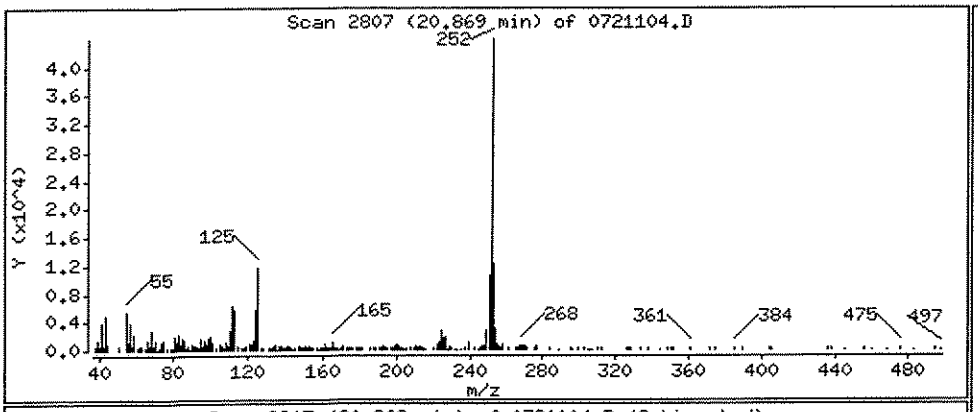
Client ID: 51CFM10S060725 Instrument: bna1.i

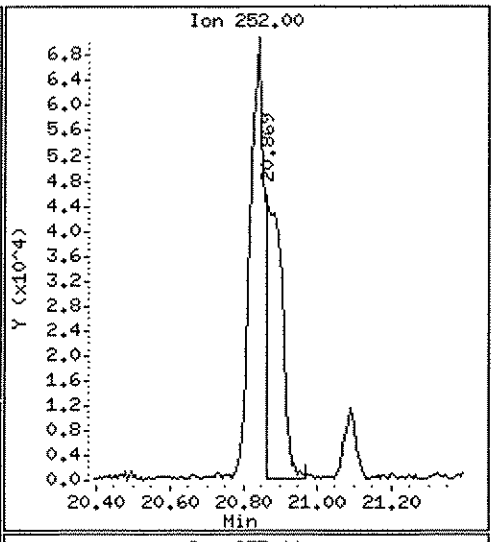
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

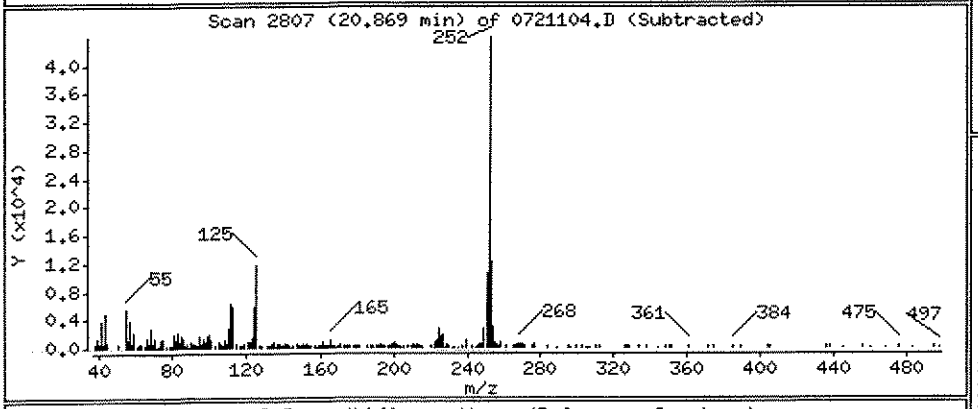
Volume Injected (uL): 0.5 Operator: SDB

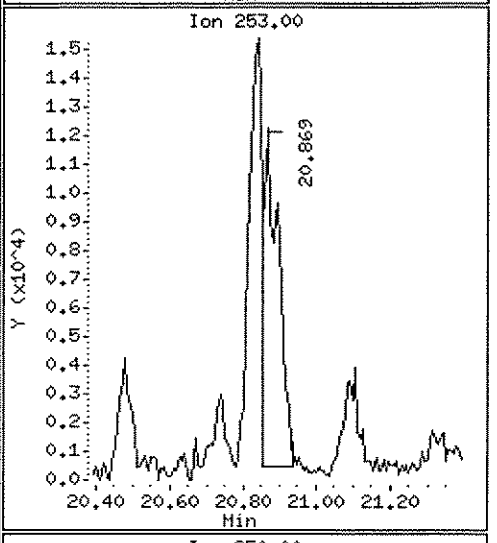
Column phase: fused silica Column diameter: 0.25

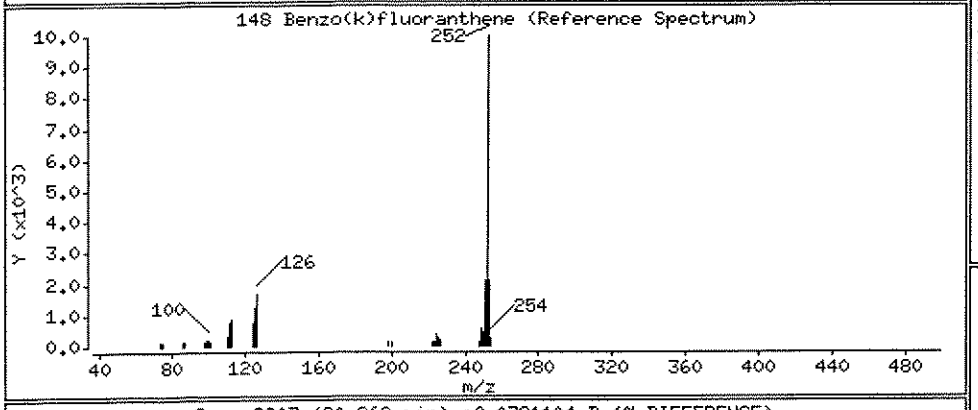
148 Benzo(k)fluoranthene Concentration: 349.8 UG/KG

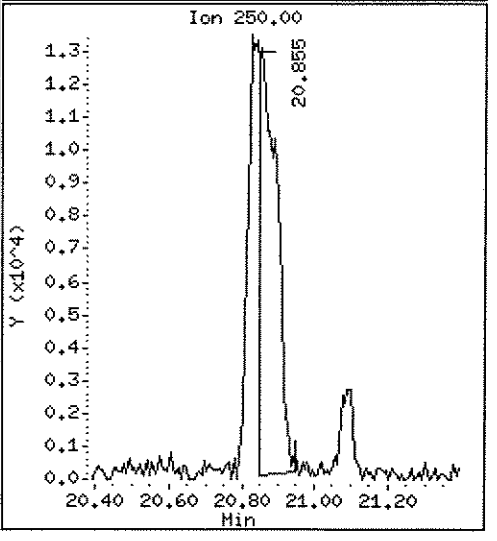


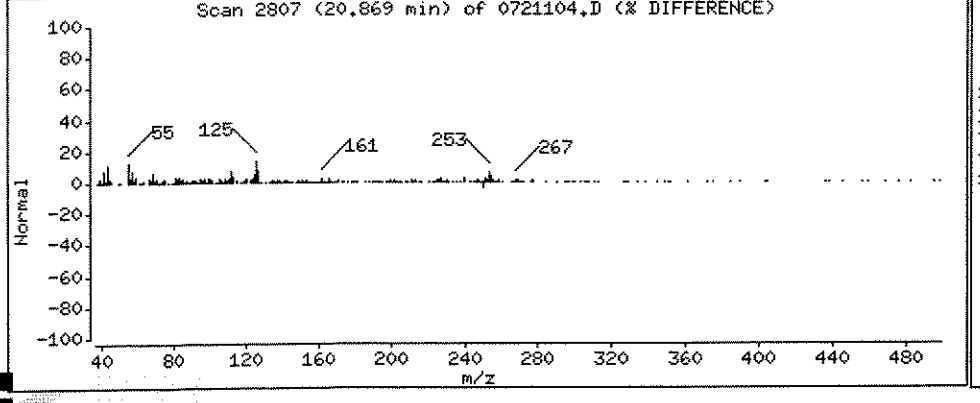












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D

Date : 26-JUL-2006 17:28

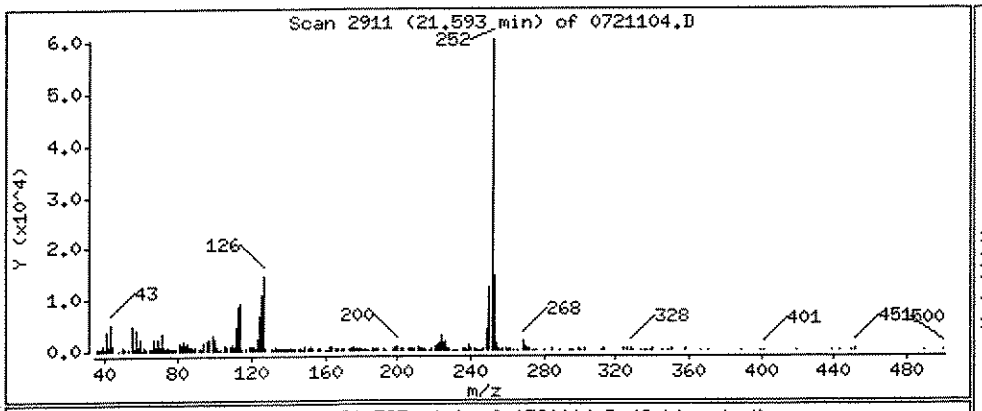
Client ID: 51CFM10S060725 Instrument: bna1.i

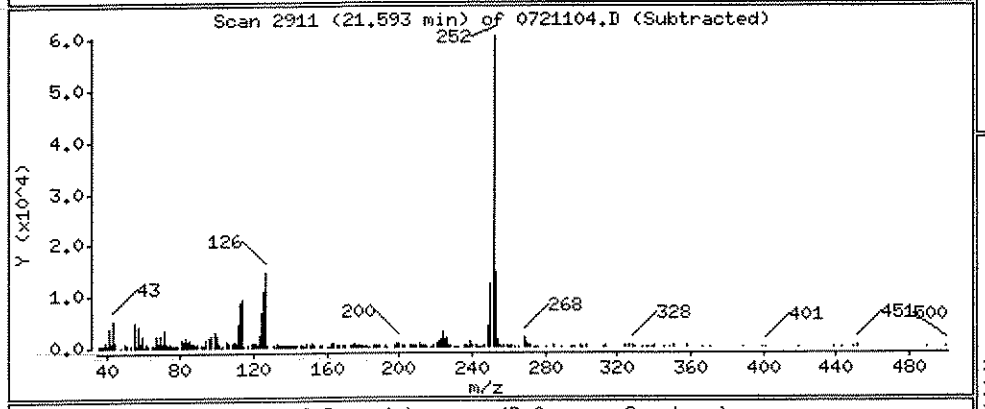
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

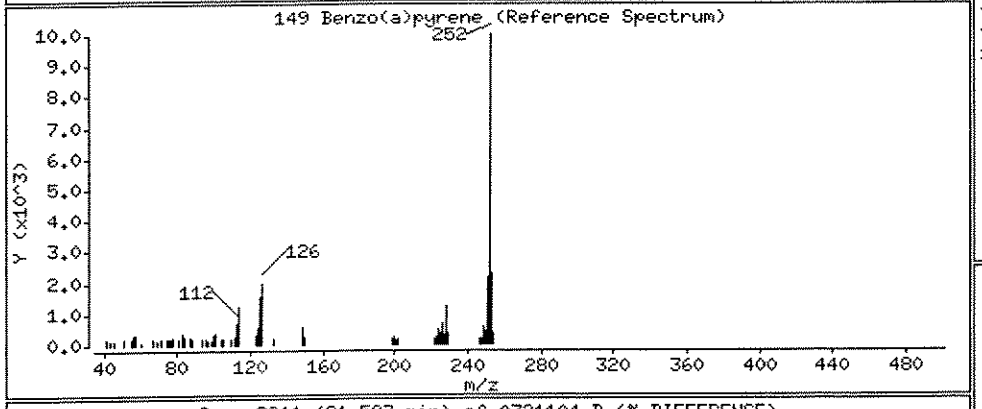
Volume Injected (uL): 0.5 Operator: SDB

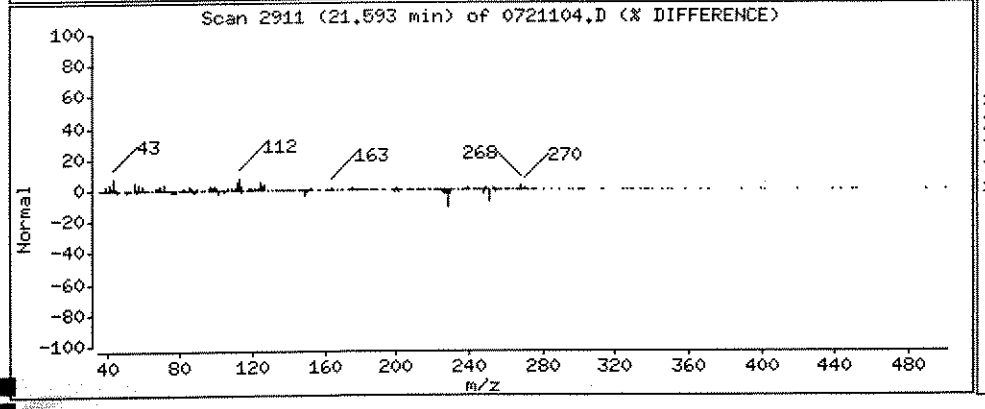
Column phase: fused silica Column diameter: 0.25

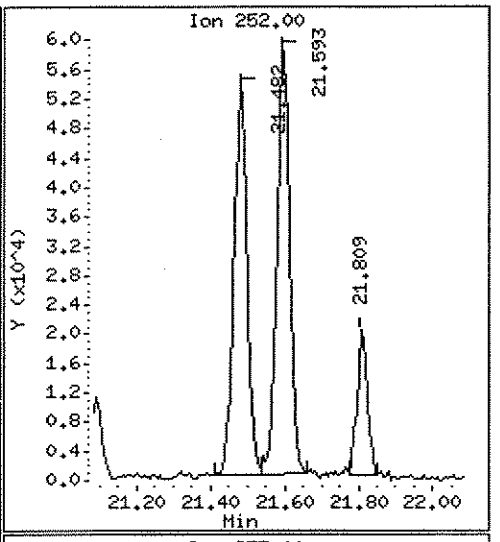
149 Benzo(a)pyrene Concentration: 428.3 UG/KG

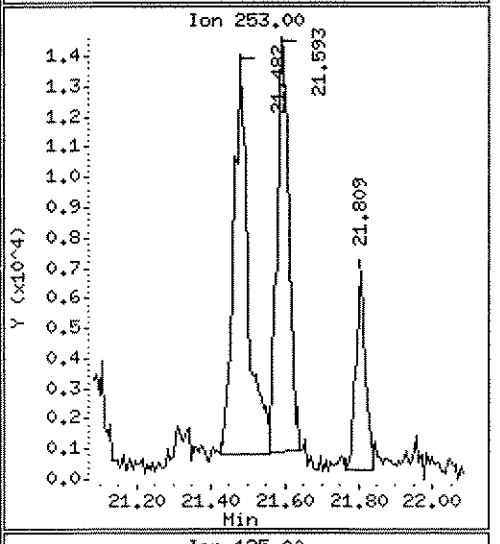


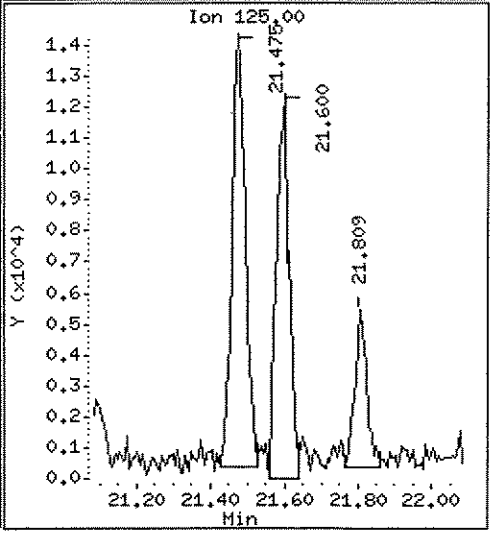












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D

Date : 26-JUL-2006 17:28

Client ID: 51CFM10S060725

Instrument: bna1.i

Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

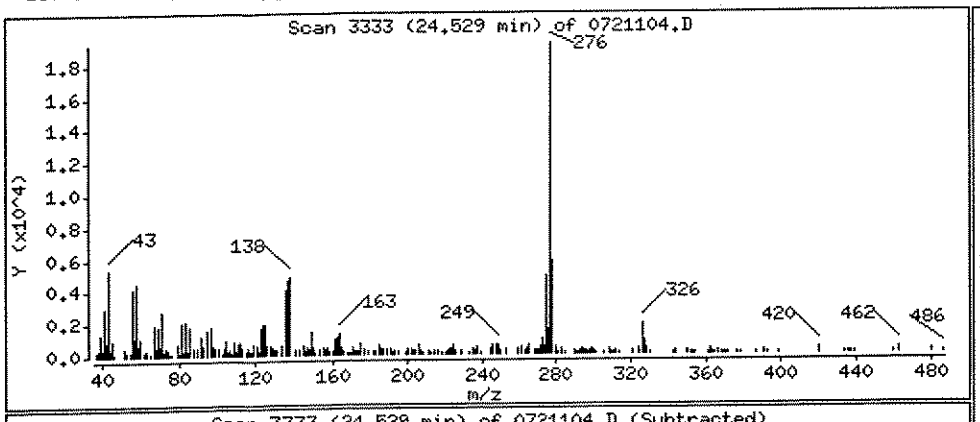
Operator: SDB

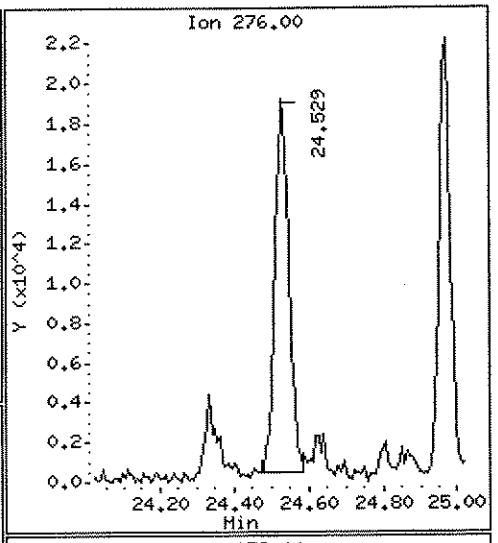
Column phase: fused silica

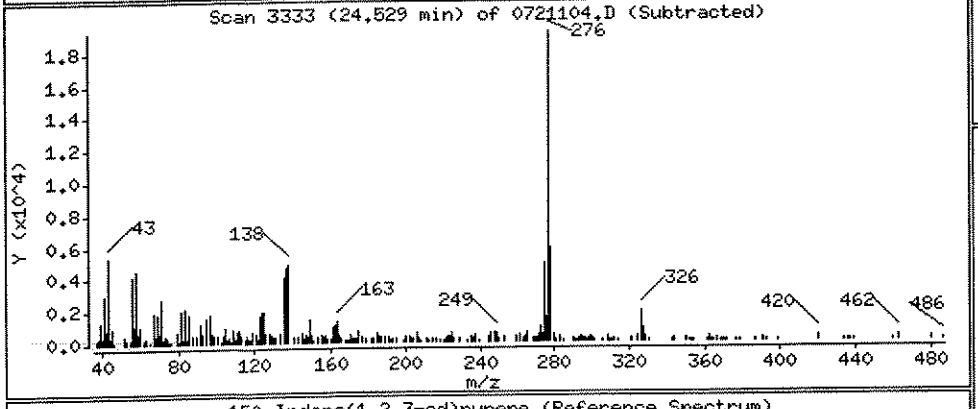
Column diameter: 0.25

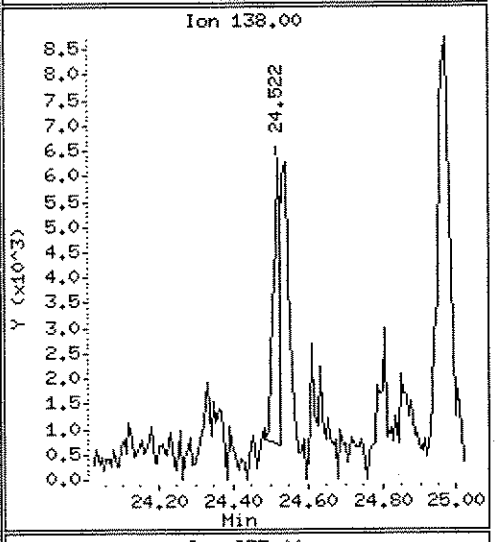
150 Indeno(1,2,3-cd)pyrene

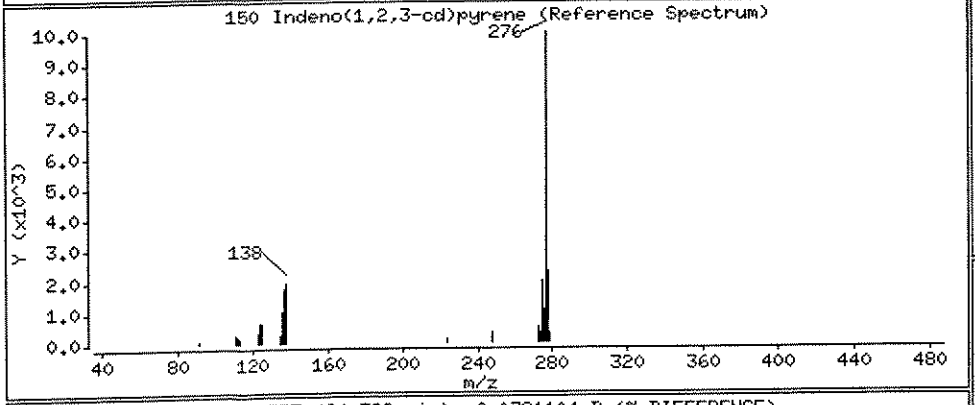
Concentration: 179.2 UG/KG

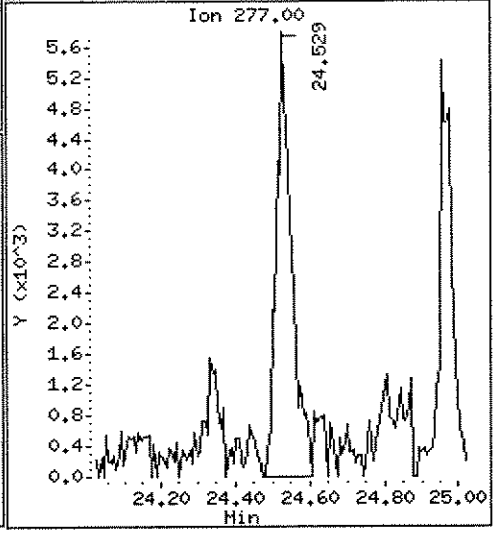


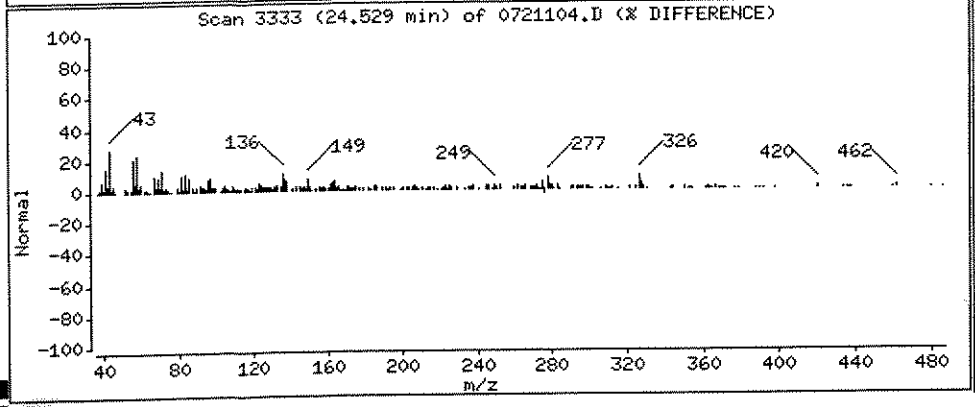












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721104.D

Date : 26-JUL-2006 17:28

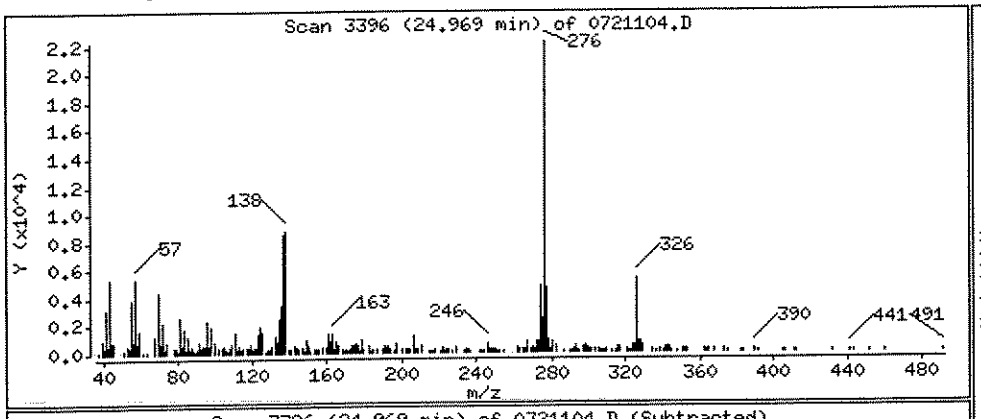
Client ID: 51CFM10S060725 Instrument: bna1.i

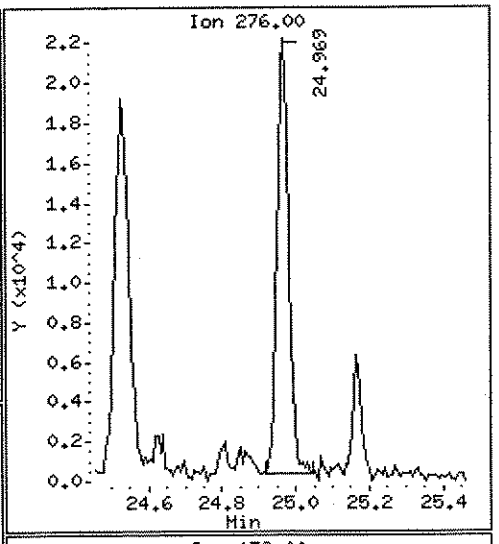
Sample Info: 0607211-04;15.1;500;1;UG/KG;26-JUL-2006

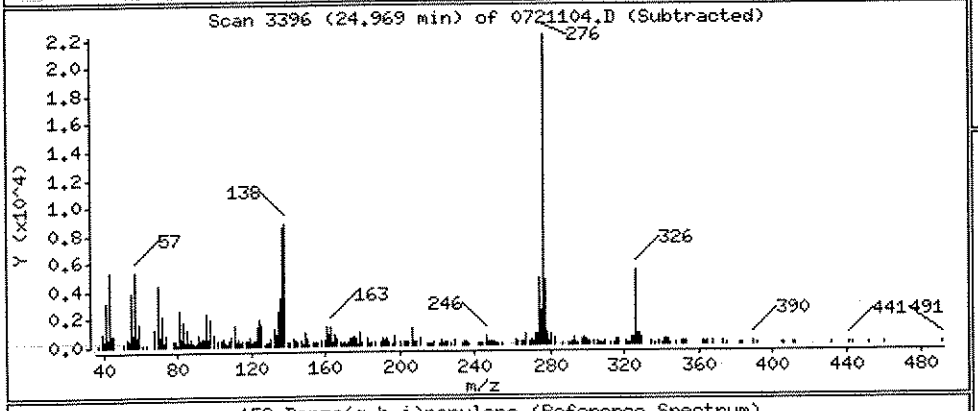
Volume Injected (uL): 0.5 Operator: SDB

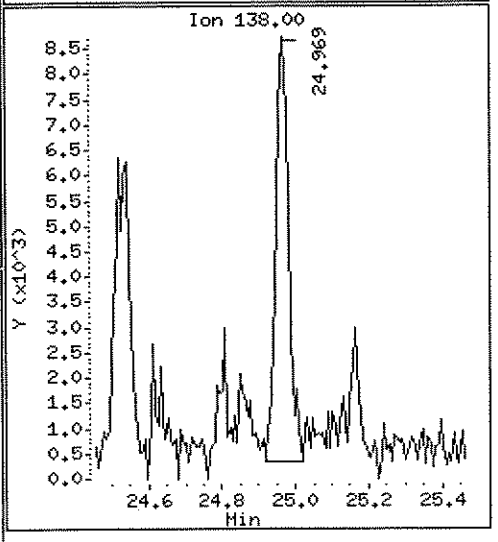
Column phase: fused silica Column diameter: 0.25

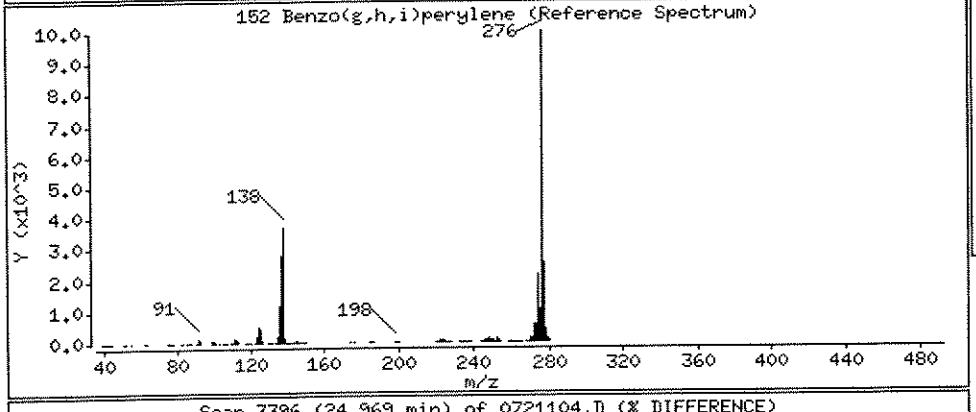
152 Benzo(g,h,i)perylene Concentration: 162.8 UG/KG

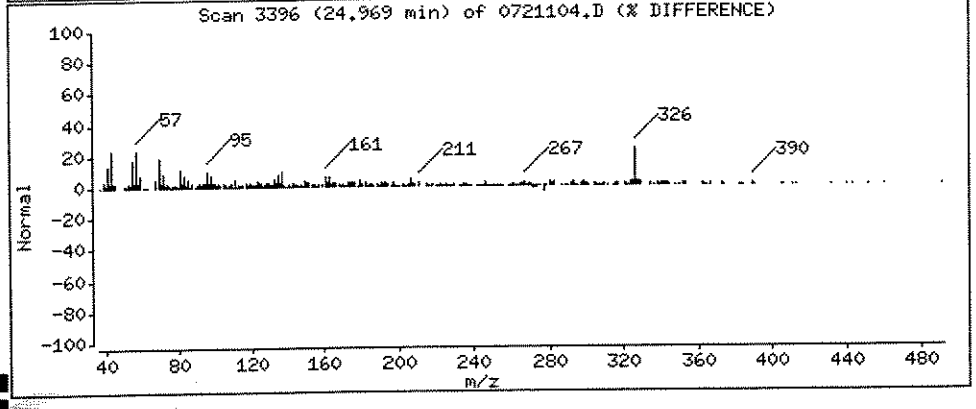












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:02

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	1800	
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	4000	E
56-55-3	Benzo(a)anthracene	21	180	25000	E
205-99-2	Benzo(b)fluoranthene	21	180	34000	E*
207-08-9	Benzo(k)fluoranthene	21	180	29000	E*
191-24-2	Benzo(g,h,i)perylene	21	180	6800	E*
50-32-8	Benzo(a)pyrene	21	100	36000	E*
218-01-9	Chrysene	21	180	21000	E
53-70-3	Dibenz(a,h)anthracene	21	100	4000	E*
206-44-0	Fluoranthene	21	180	29000	E
86-73-7	Fluorene	21	180	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	8200	E*
91-57-6	2-Methylnaphthalene	21	180	160	J
90-12-0	1-Methylnaphthalene	52	180	140	J
91-20-3	Naphthalene	21	180	110	J
85-01-8	Phenanthrene	21	180	21000	E
129-00-0	Pyrene	21	180	46000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 26-JUL-2006 18:02
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-05;15.1;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	94.600	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	571644	40.0000	
* 31 Naphthalene-d8	136	5.091	5.088	(1.000)	1829331	40.0000	
$ 32 Nitrobenzene-d5	82	4.548	4.553	(0.893)	576280	28.8581	1010
47 Naphthalene	128	5.105	5.108	(1.003)	141368	3.10817	108.8(a)
51 2-Methylnaphthalene	141	5.814	5.815	(1.142)	119196	4.56080	159.6(a)
52 1-Methylnaphthalene	141	5.944	5.939	(1.168)	97351	3.90206	136.6(a)
* 65 Acenaphthene-d10	164	7.386	7.382	(1.000)	945386	40.0000	
$ 70 2-Fluorobiphenyl	172	6.344	6.345	(0.859)	859361	28.5643	999.8
76 Acenaphthene	153	7.448	7.437	(1.008)	1442998	52.8876	1851
84 Fluorene	166	8.452	8.434	(1.144)	1265021	43.3493	1517
* 97 Phenanthrene-d10	188	10.681	10.583	(1.000)	901903	40.0000	(M)
106 Phenanthrene	178	10.792	10.645	(1.000)	15204693	591.273	20700(A)
107 Anthracene	178	10.854	10.755	(1.000)	2869385	113.023	3956(AH)

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D
Report Date: 27-Jul-2006 09:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.094	13.814	(1.320)	21174013	831.688	29110(AM)
* 124 Chrysene-d12	240	18.195	17.933	(1.000)	436477	40.0000	(M)
126 Pyrene	202	14.680	14.390	(0.807)	22837622	1310.14	45860(AM)
$ 127 Terphenyl-d14	244	15.316	15.177	(1.000)	574590	52.1330	1825
130 Benzo(a)anthracene	228	18.174	17.885	(0.999)	9930976	706.161	24720(AM)
131 Chrysene	228	18.272	18.002	(1.004)	7748860	603.270	21120(AM)
* 145 Perylene-d12	264	21.910	21.736	(1.000)	240130	40.0000	
147 Benzo(b)fluoranthene	252	21.085	20.823	(0.962)	7190995	972.144	34030(AM)
148 Benzo(k)fluoranthene	252	21.085	20.893	(0.962)	6282901	818.676	28660(A)
149 Benzo(a)pyrene	252	21.826	21.584	(0.996)	6541406	1025.54	35900(AM)
150 Indeno(1,2,3-cd)pyrene	276	24.672	24.521	(1.126)	1272942	233.909	8187(AH)
151 Dibenz(a,h)anthracene	278	24.728	24.618	(1.129)	627004	114.446	4006(AM)
152 Benzo(g,h,i)perylene	276	25.090	24.961	(1.145)	1097824	194.393	6804(A)

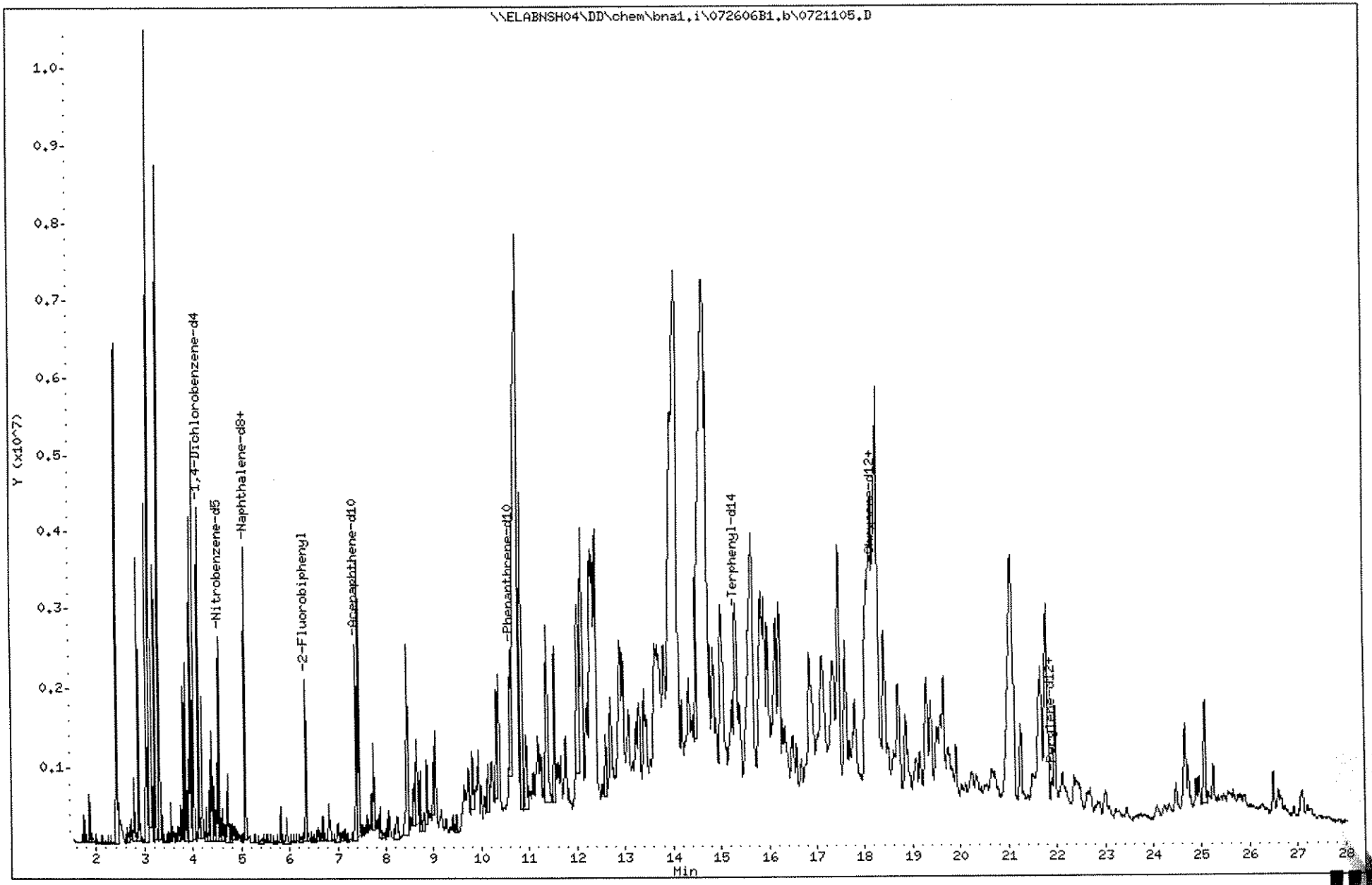
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D
Date : 26-JUL-2006 18:02
Client ID: 51CFM11S060725
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: SDB
Column diameter: 0.25

000086



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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

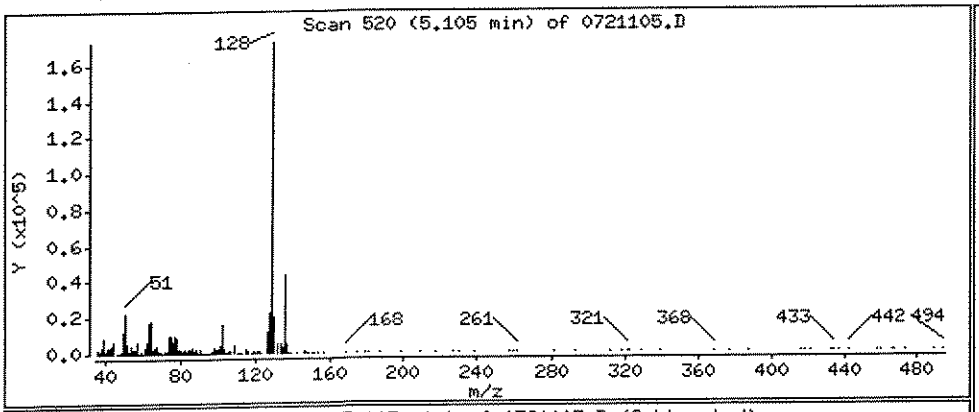
Client ID: 51CFH11S060725 Instrument: bna1.i

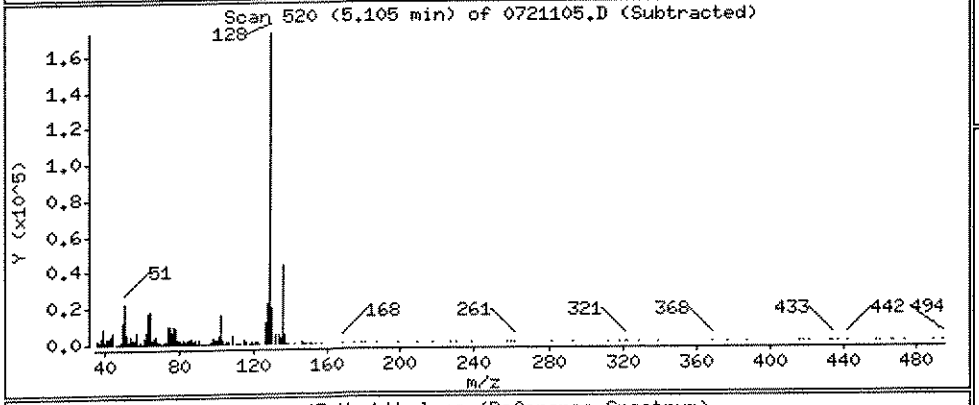
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

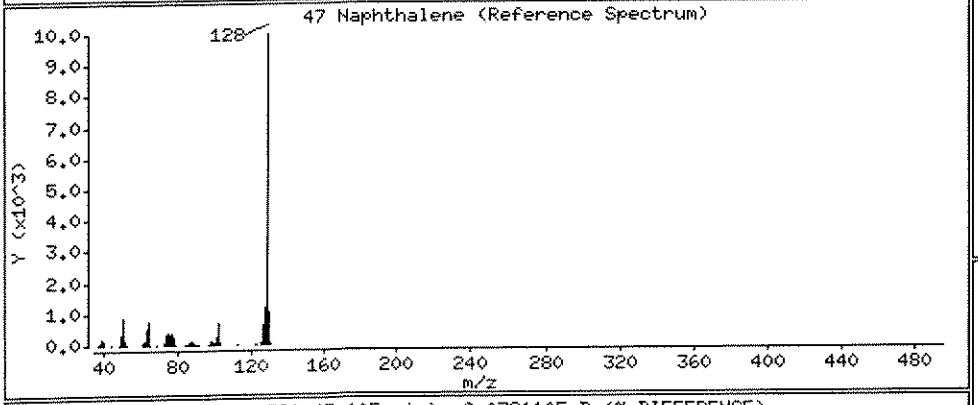
Volume Injected (uL): 0.5 Operator: SDB

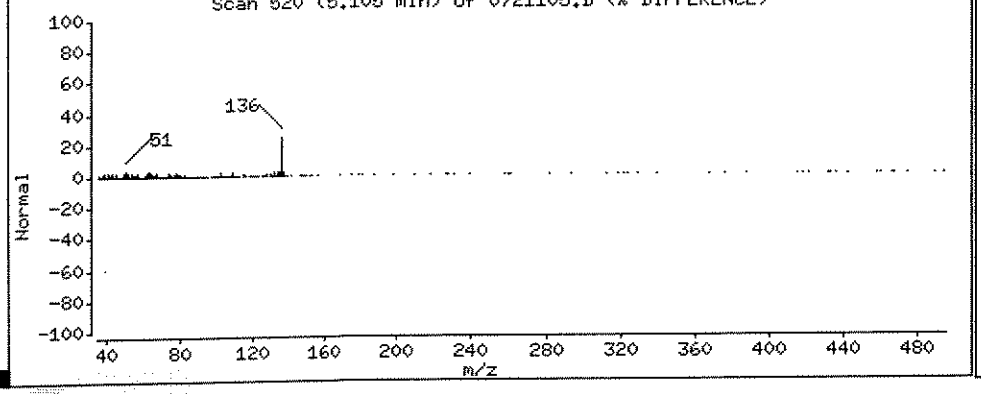
Column phase: fused silica Column diameter: 0.25

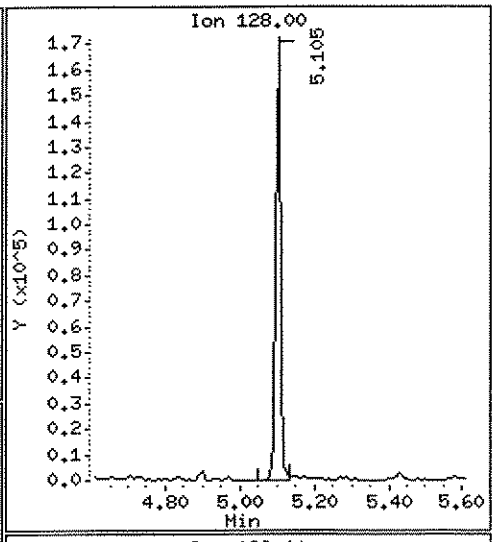
47 Naphthalene Concentration: 102.9 UG/KG

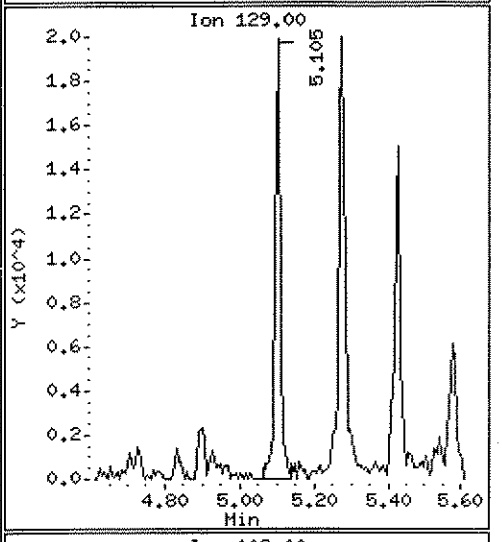


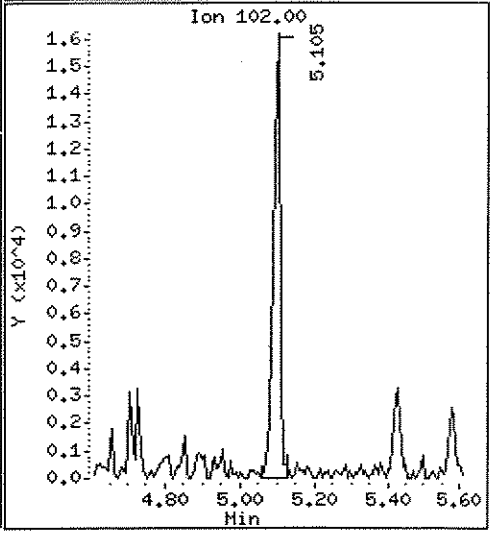












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

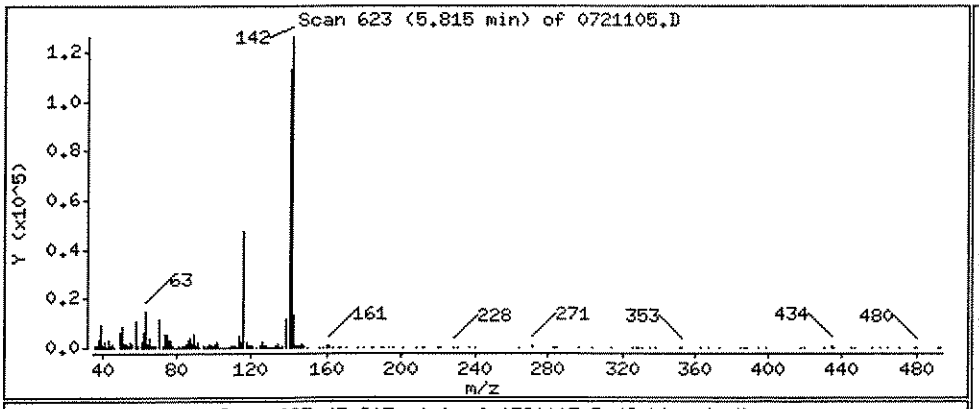
Client ID: 51CFM11S060725 Instrument: bna1.i

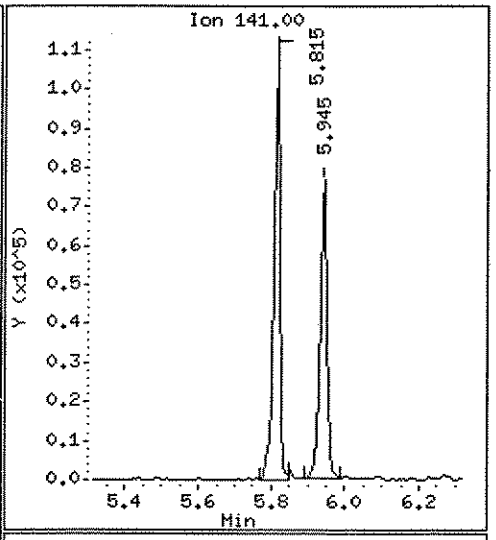
Sample Info: 0607211-05:15.1:500:1:UG/KG:26-JUL-2006

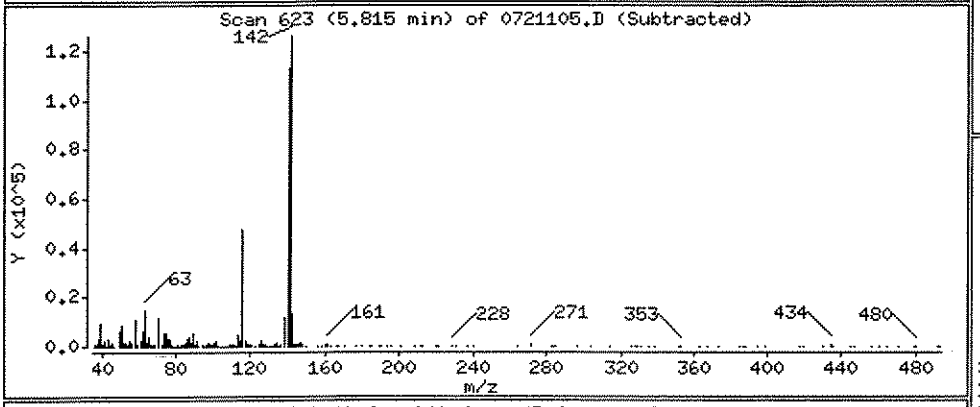
Volume Injected (uL): 0.5 Operator: SDB

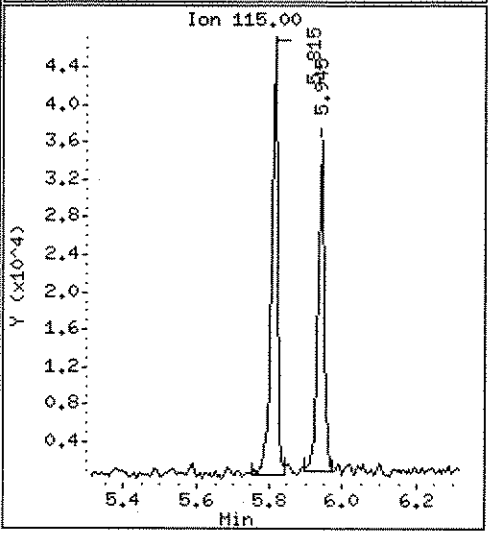
Column phase: fused silica Column diameter: 0.25

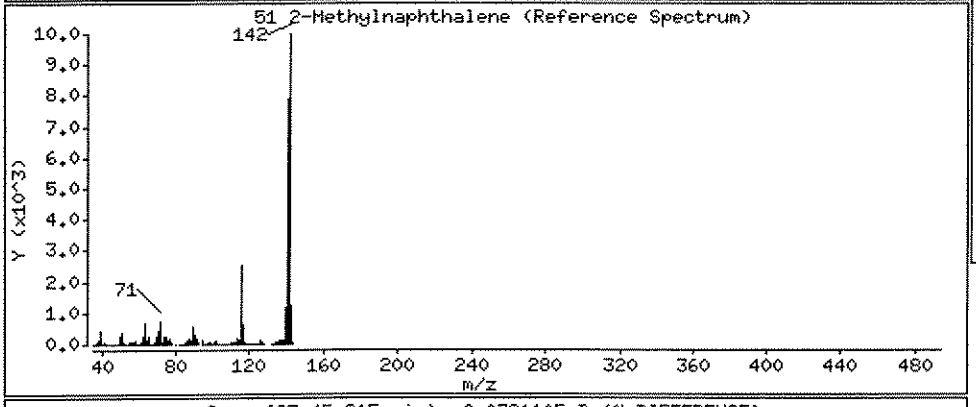
51 2-Methylnaphthalene Concentration: 151.0 UG/KG

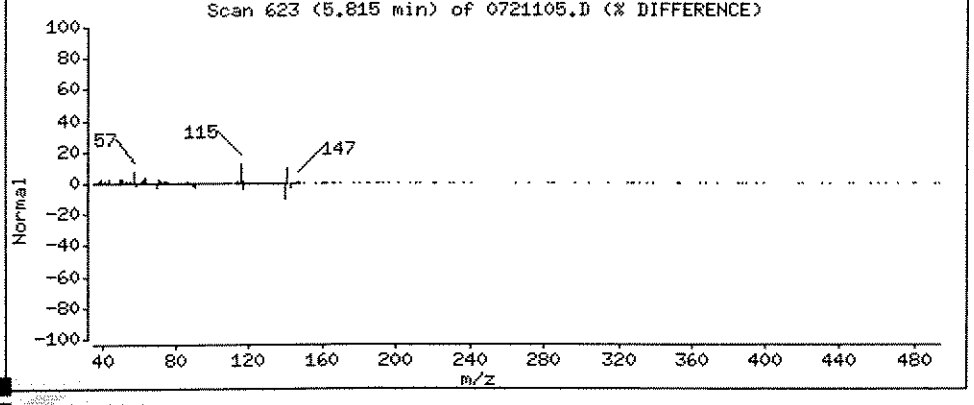












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

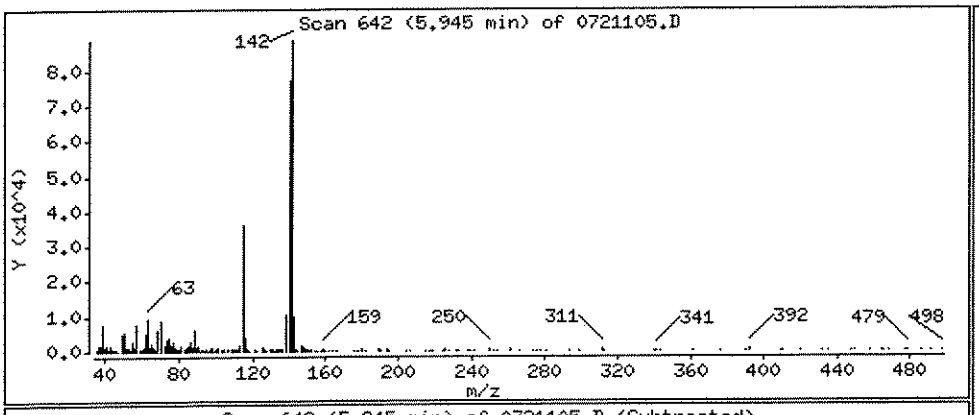
Client ID: 51CFM11S060725 Instrument: bna1.i

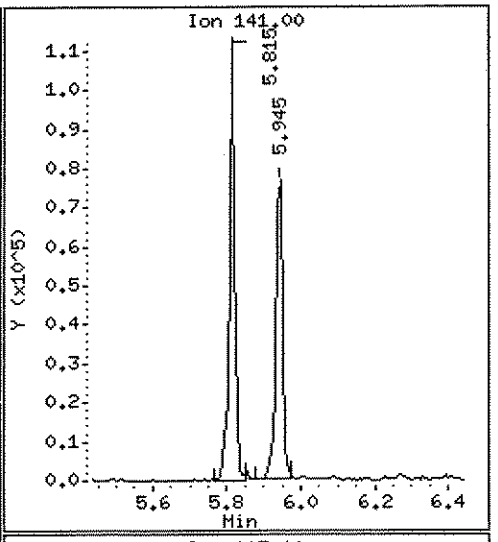
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

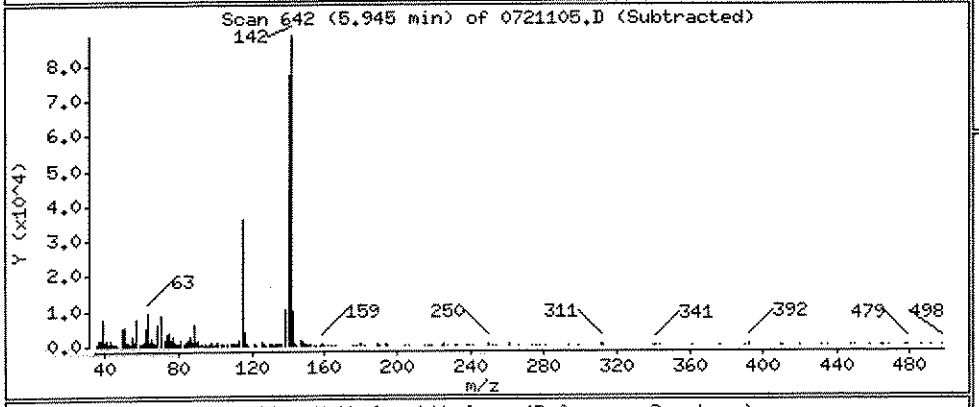
Volume Injected (uL): 0.5 Operator: SDB

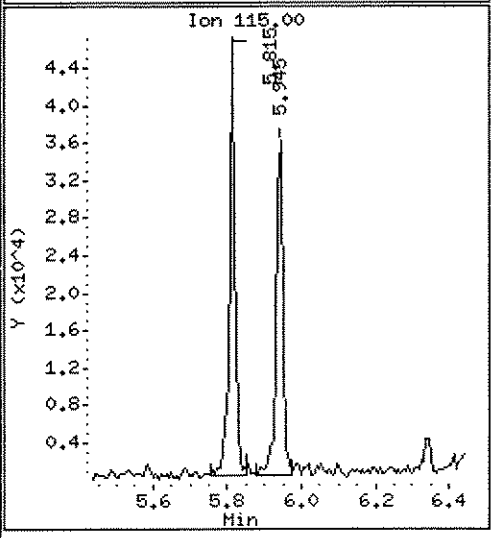
Column phase: fused silica Column diameter: 0.25

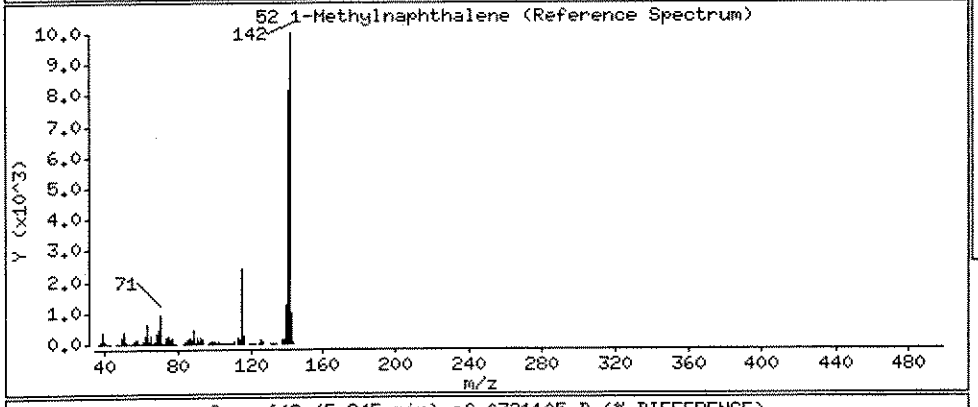
52 1-Methylnaphthalene Concentration: 129.2 UG/KG

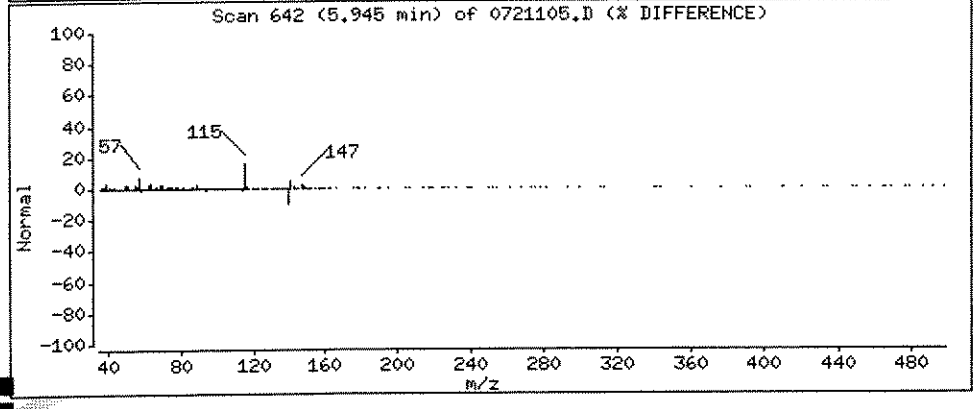












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

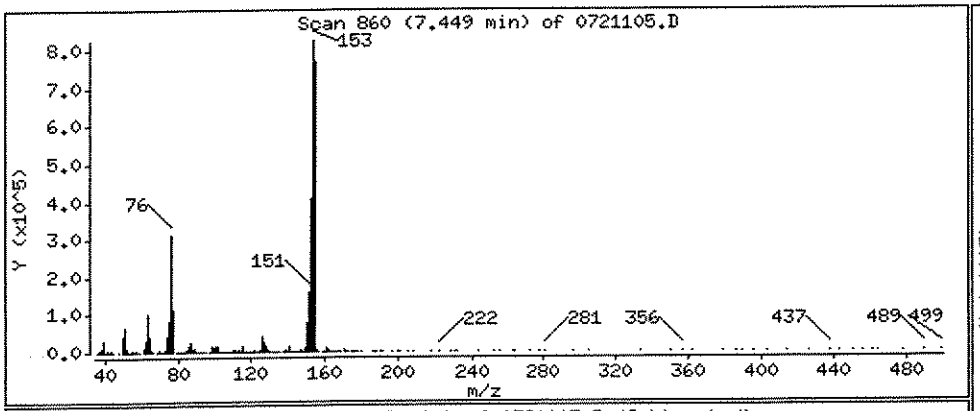
Client ID: 51CFM11S060725 Instrument: bna1.i

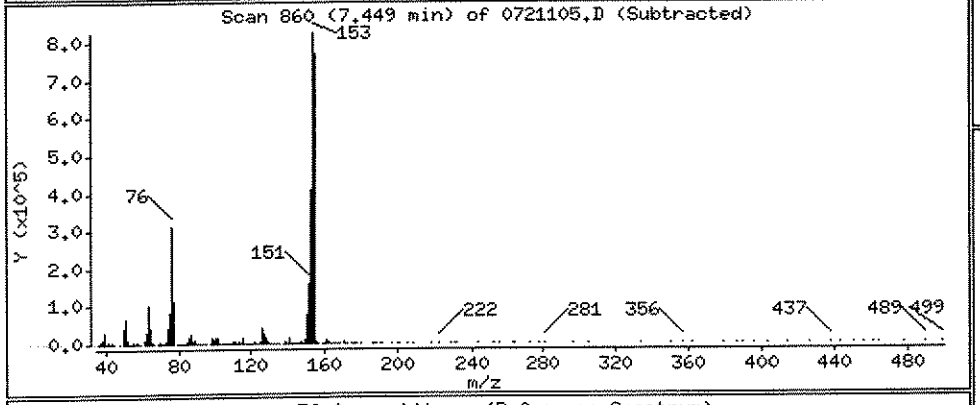
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

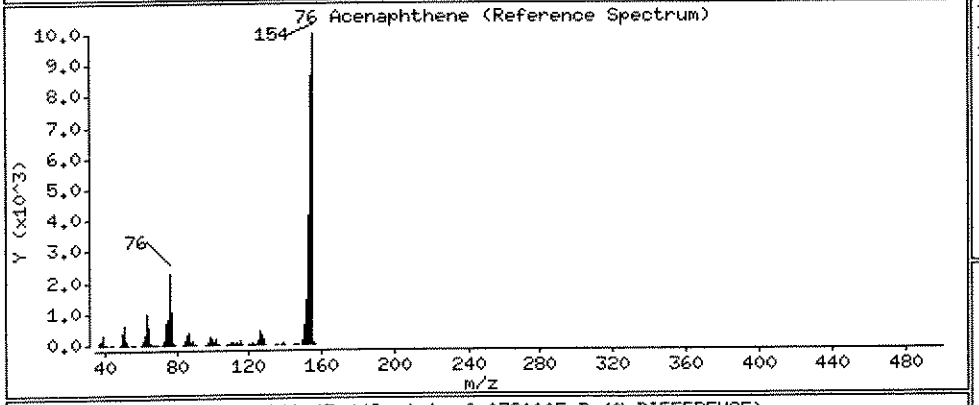
Volume Injected (uL): 0.5 Operator: SDB

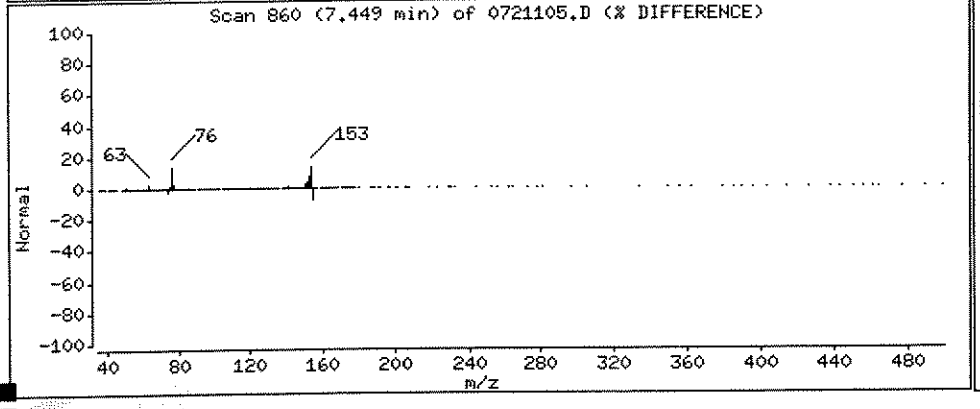
Column phase: fused silica Column diameter: 0.25

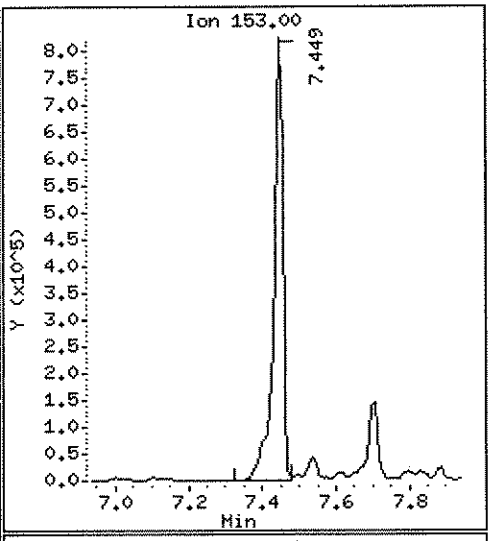
76 Acenaphthene Concentration: 1751 UG/KG

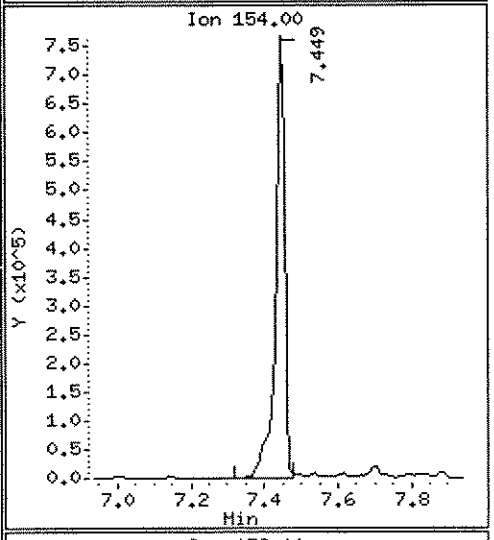


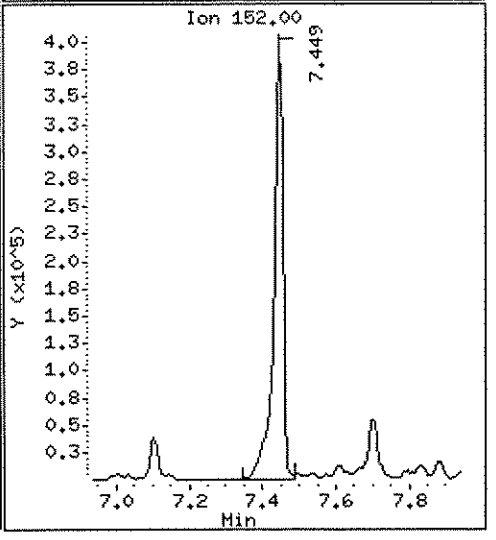












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

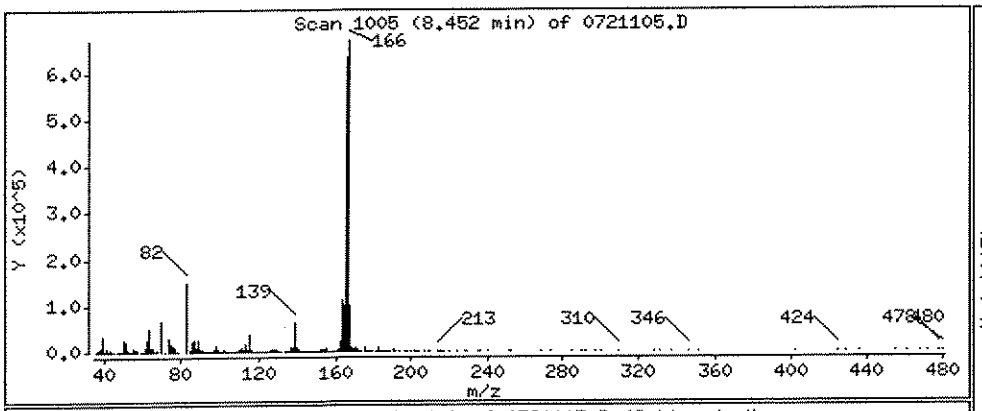
Client ID: 51CFM11S060725 Instrument: bna1.i

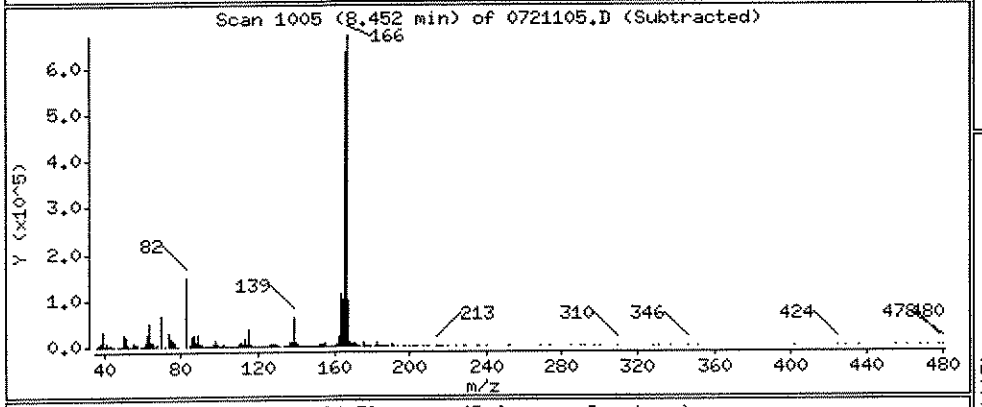
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

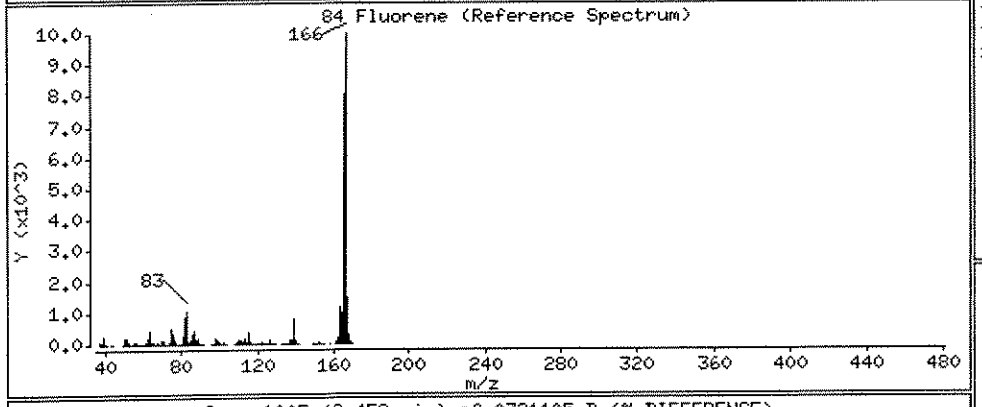
Volume Injected (uL): 0.5 Operator: SDB

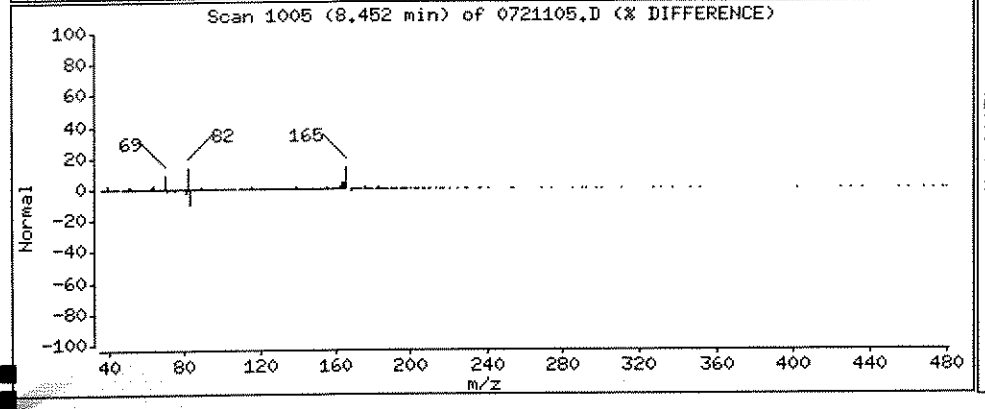
Column phase: fused silica Column diameter: 0.25

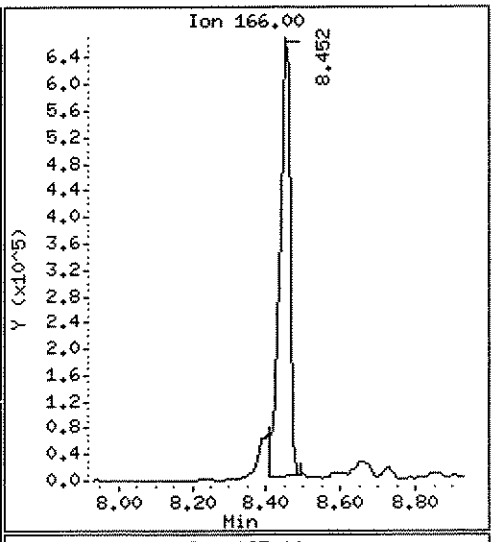
84 Fluorene Concentration: 1435 UG/KG

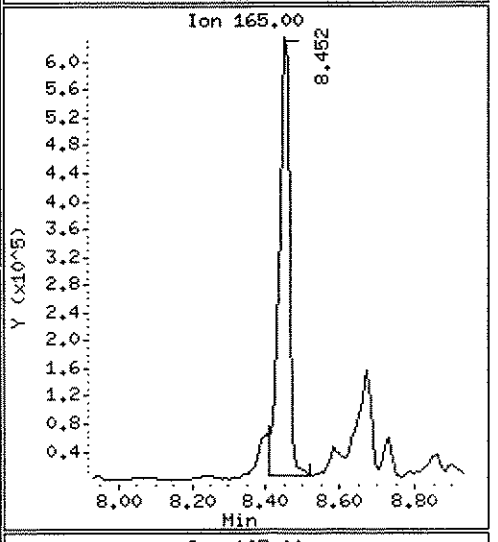


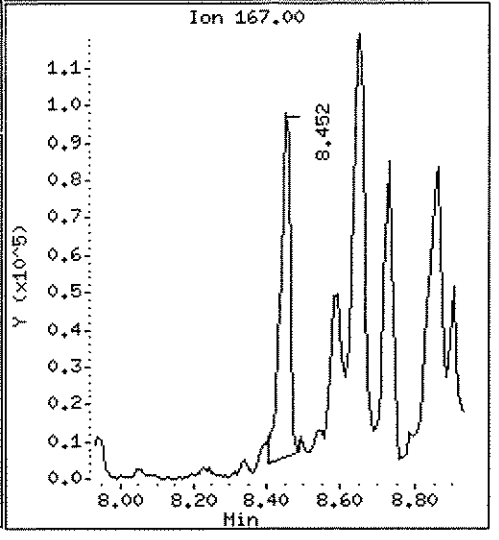












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

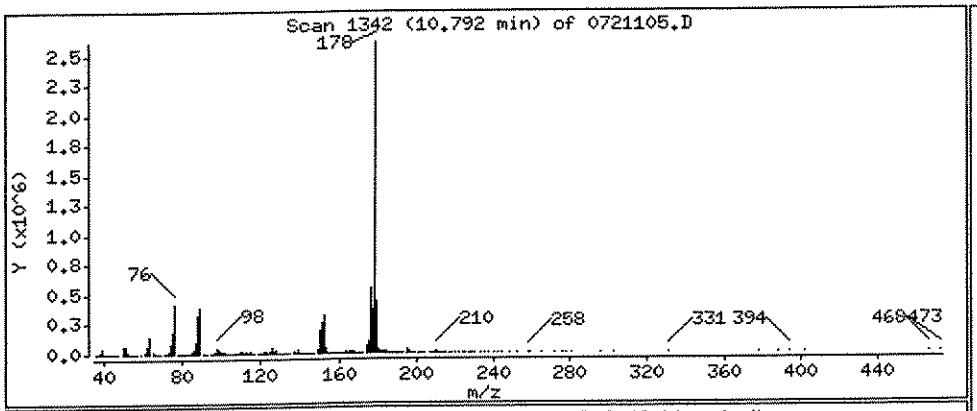
Operator: SDB

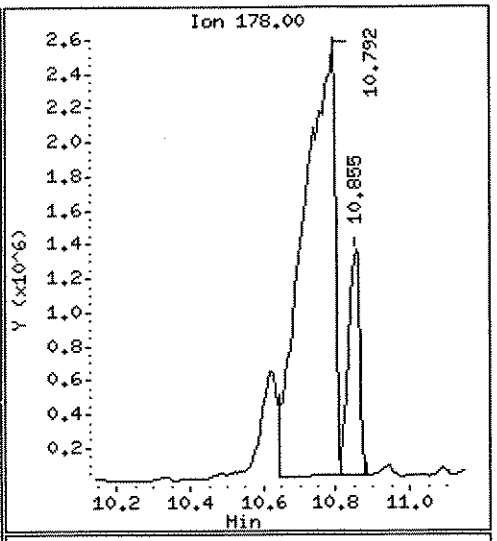
Column phase: fused silica

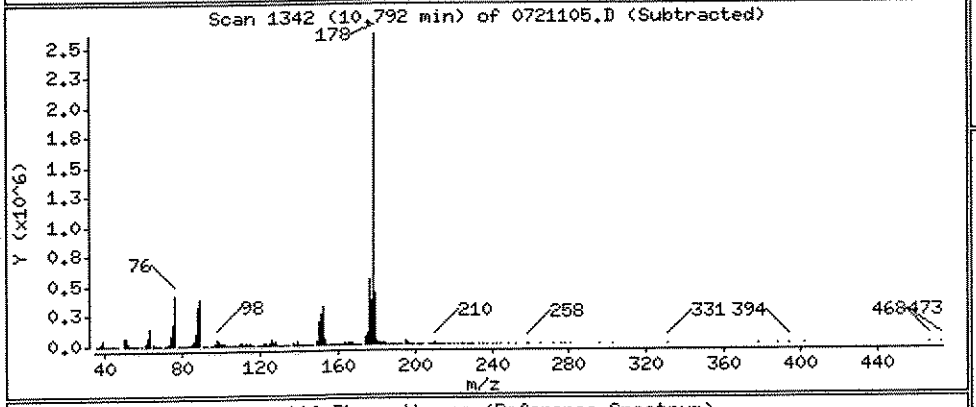
Column diameter: 0.25

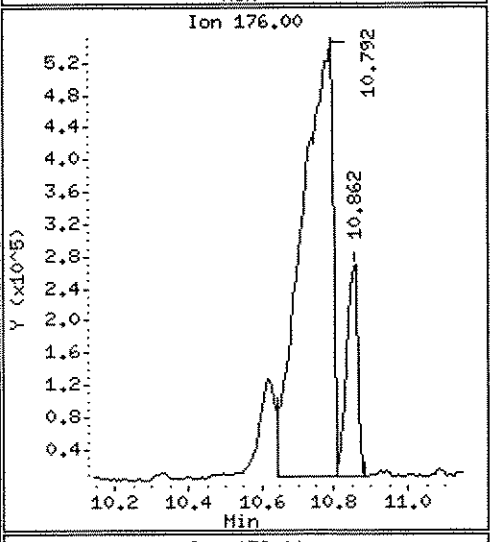
106 Phenanthrene

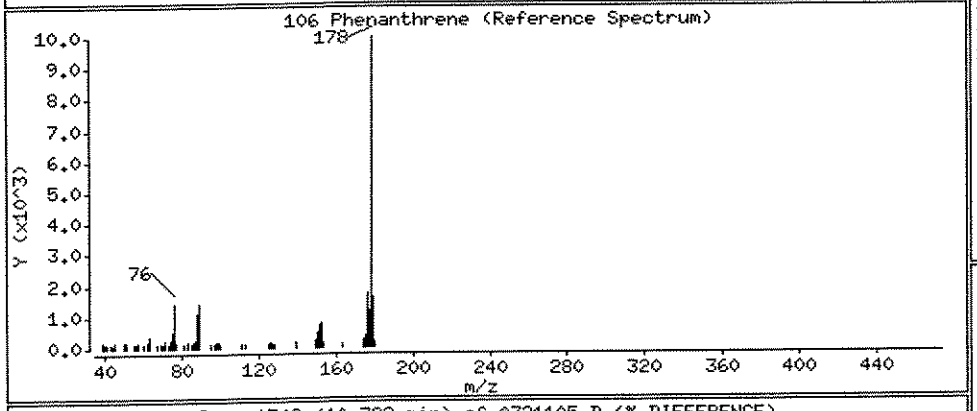
Concentration: 19580 UG/KG

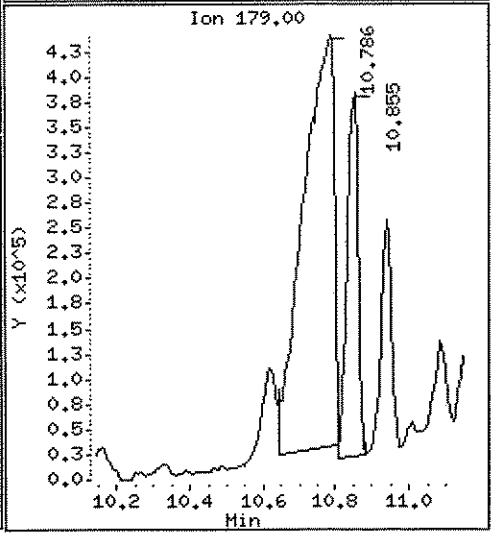


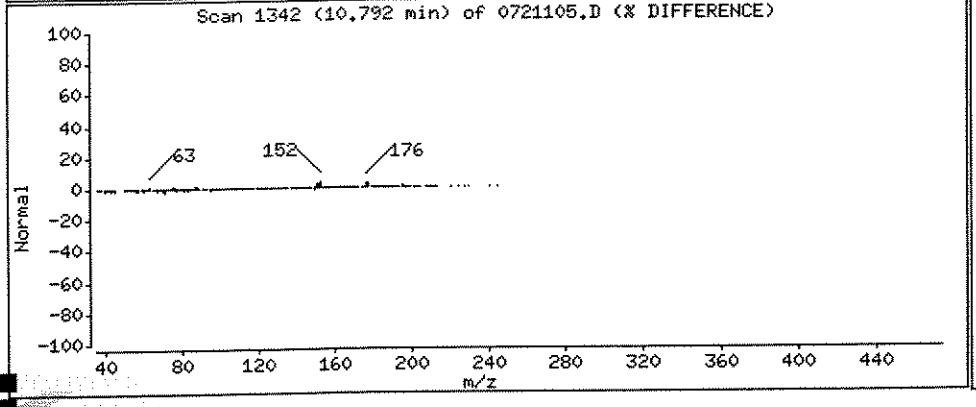












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

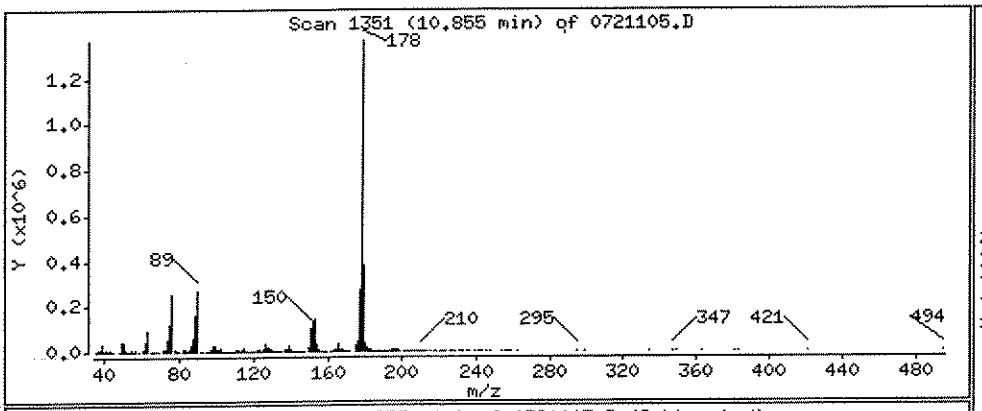
Client ID: 51CFM11S060725 Instrument: bna1.i

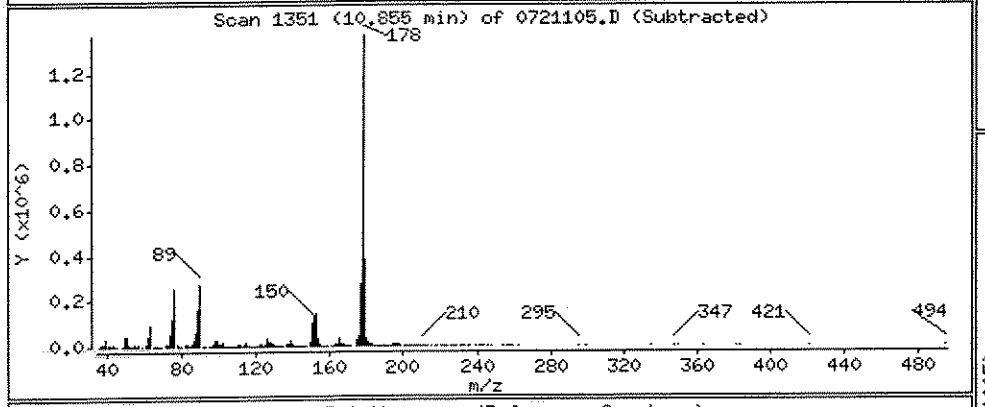
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

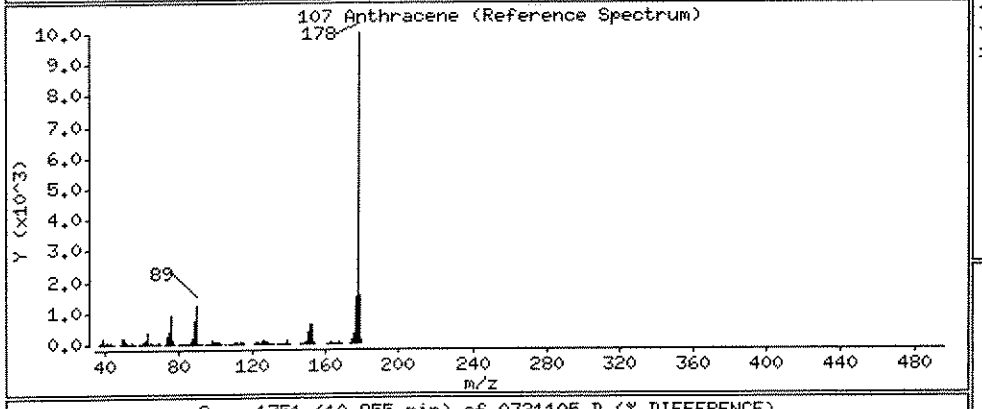
Volume Injected (uL): 0.5 Operator: SDB

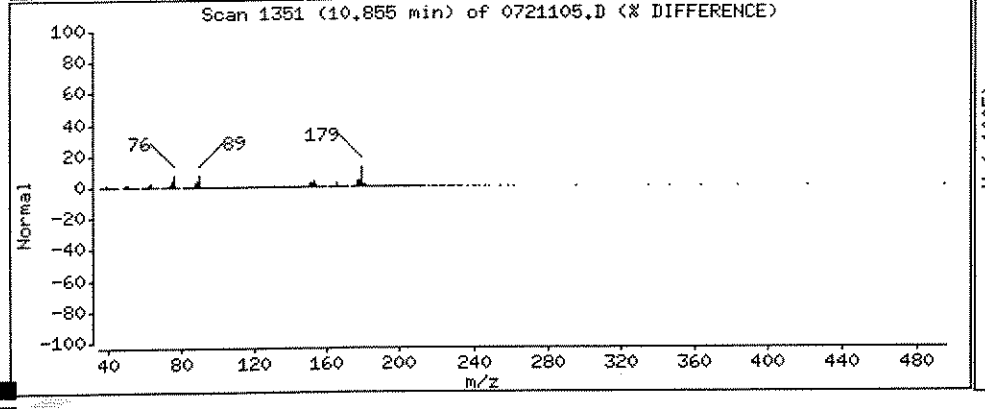
Column phase: fused silica Column diameter: 0.25

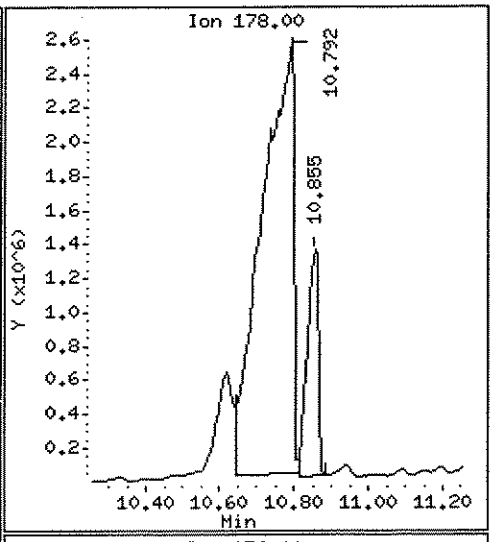
107 Anthracene Concentration: 3742 UG/KG

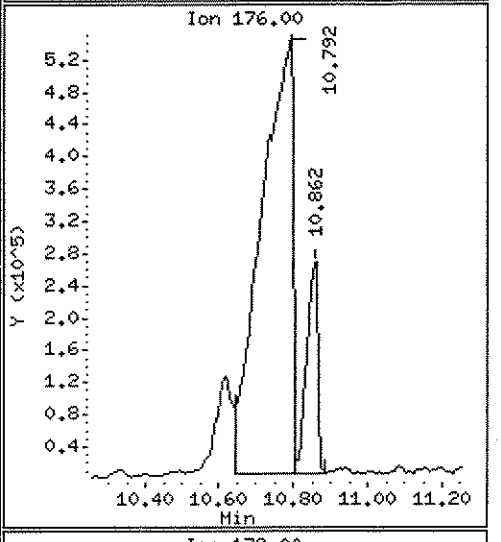


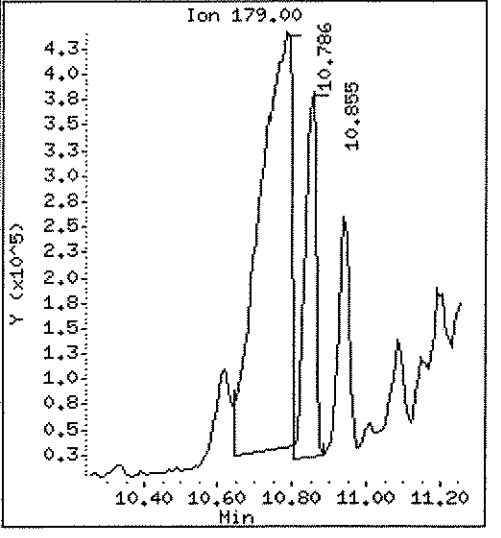












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

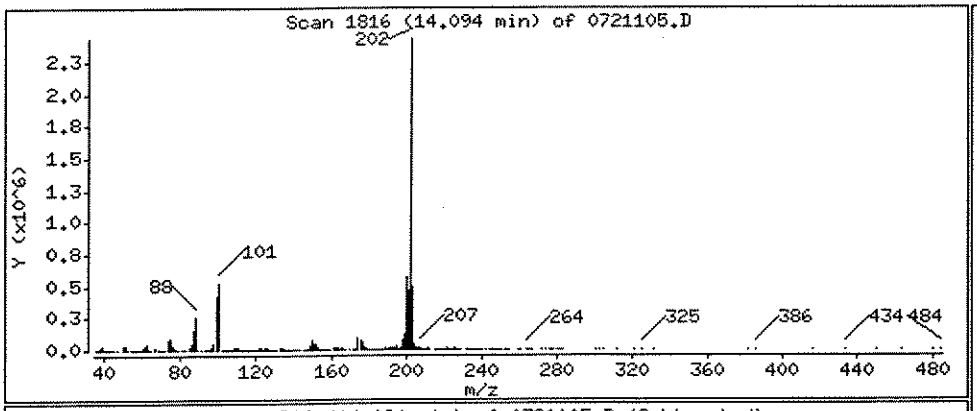
Client ID: 51CFM11S060725 Instrument: bna1.i

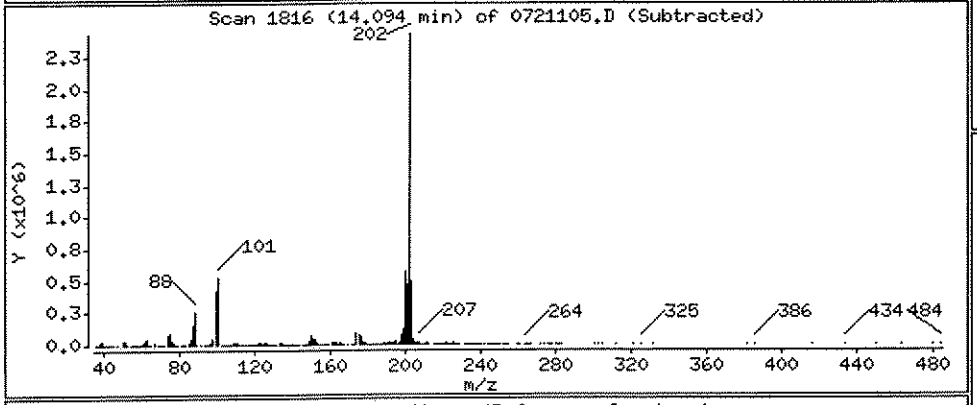
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

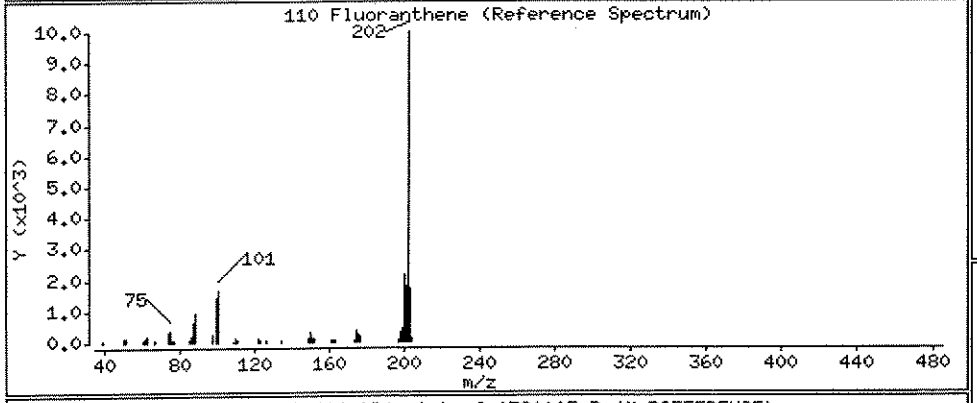
Volume Injected (uL): 0.5 Operator: SDB

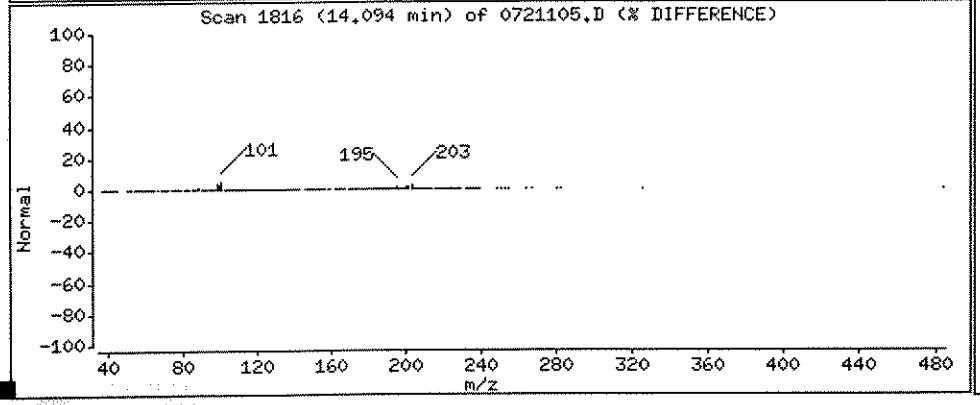
Column phase: fused silica Column diameter: 0.25

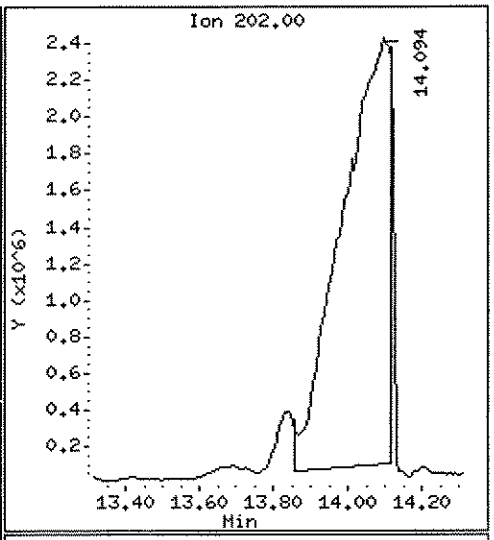
110 Fluoranthene Concentration: 27540 UG/KG

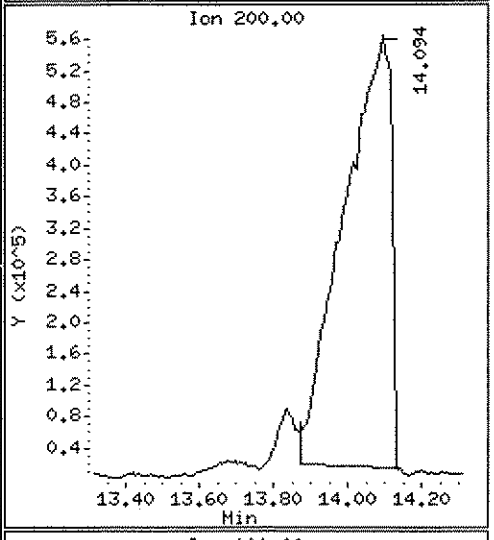


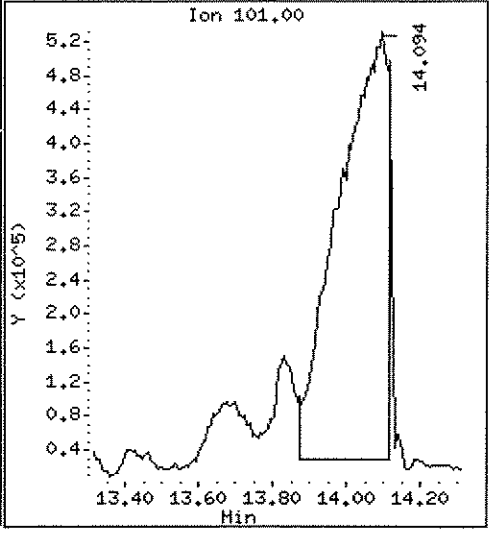












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

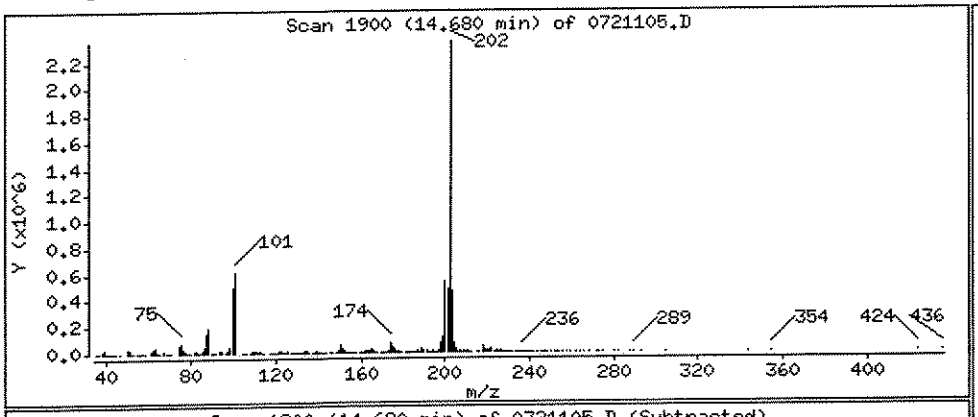
Operator: SDB

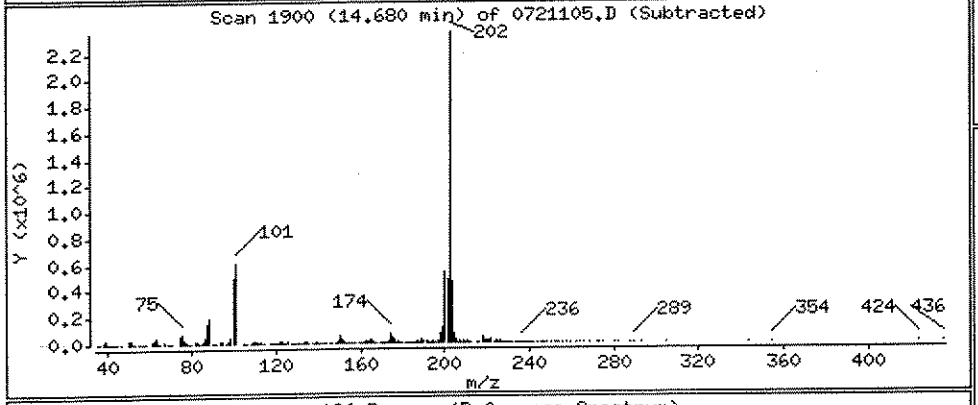
Column phase: fused silica

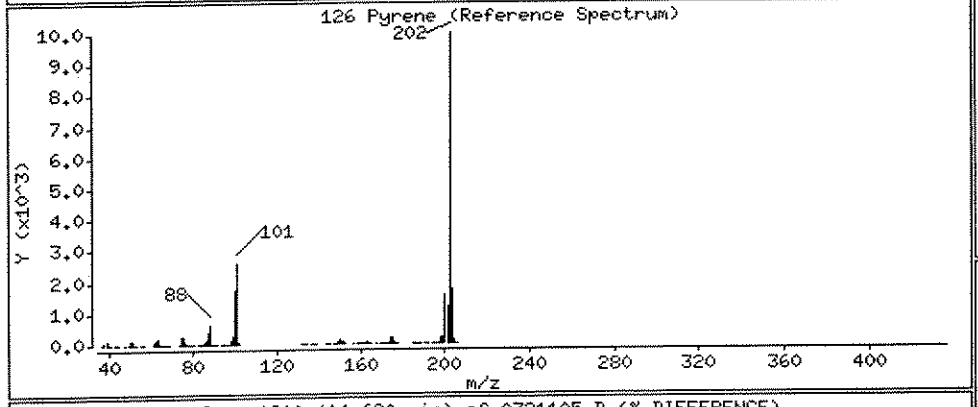
Column diameter: 0.25

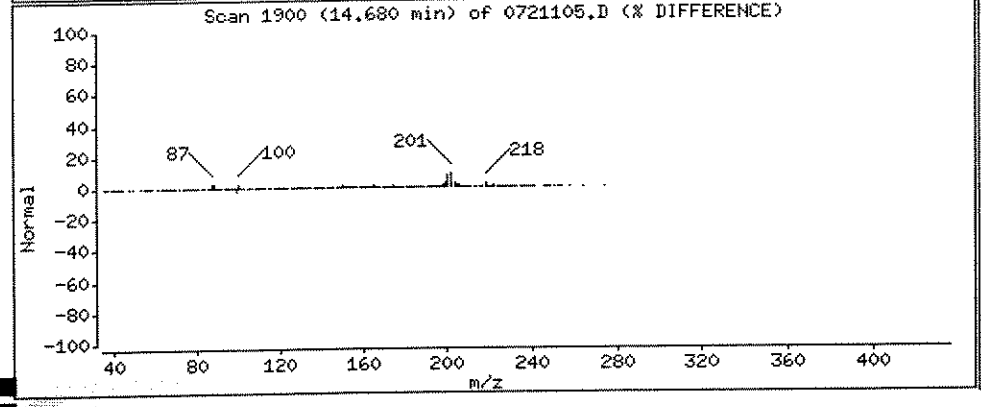
126 Pyrene

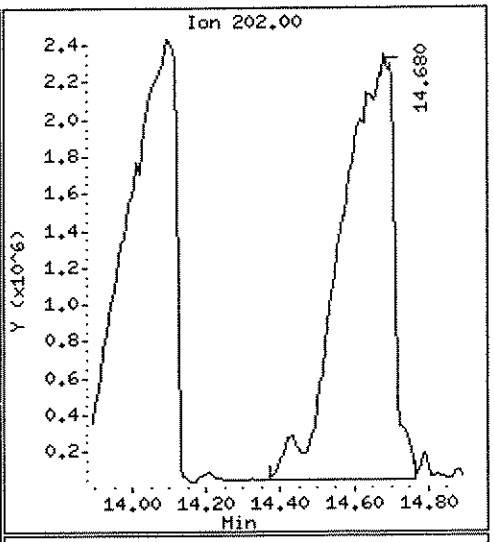
Concentration: 43380 UG/KG

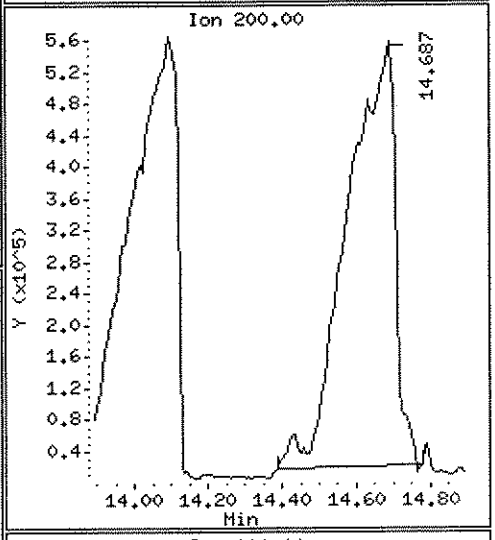


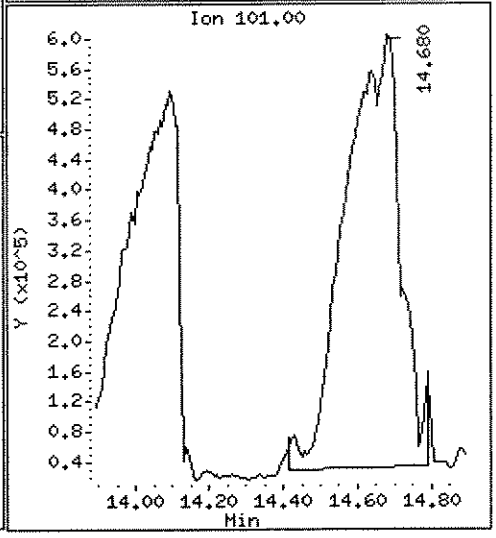












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

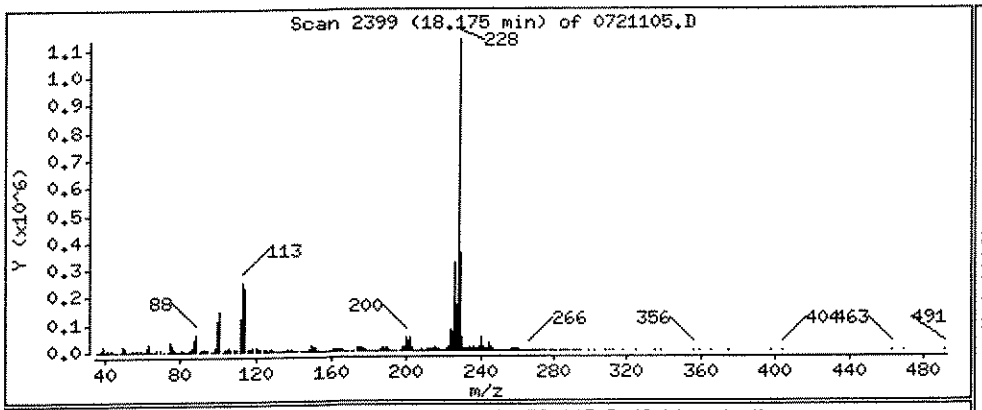
Client ID: 51CFM11S060725 Instrument: bna1.i

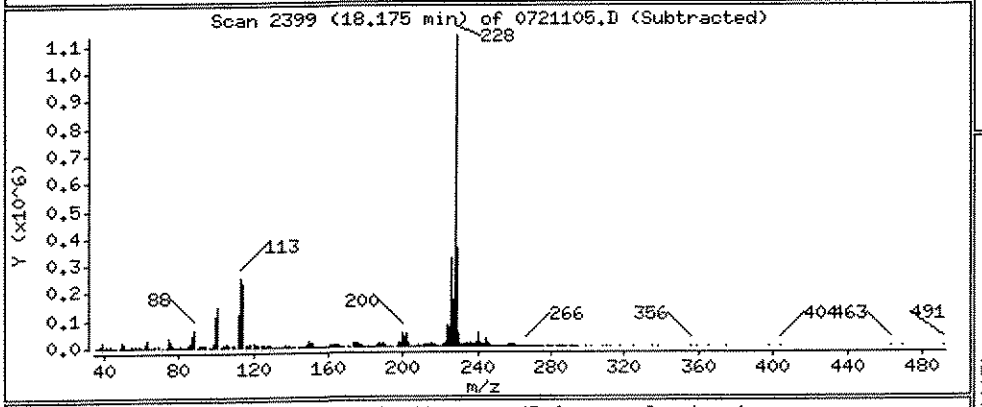
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

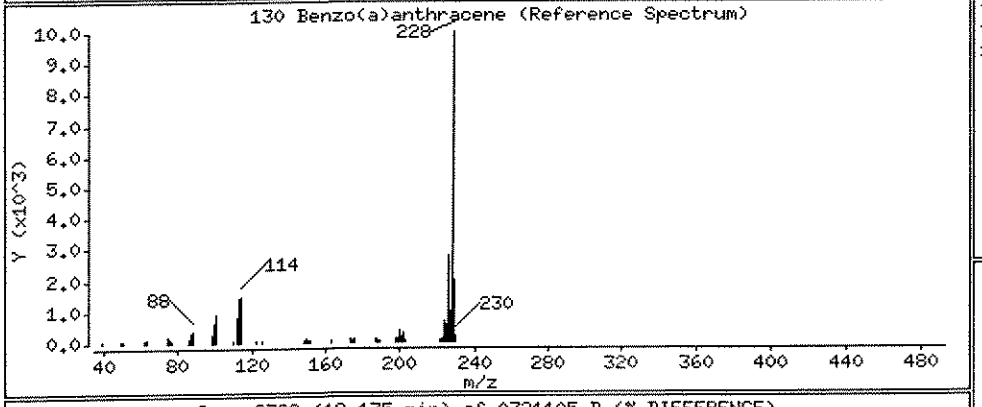
Volume Injected (uL): 0.5 Operator: SDB

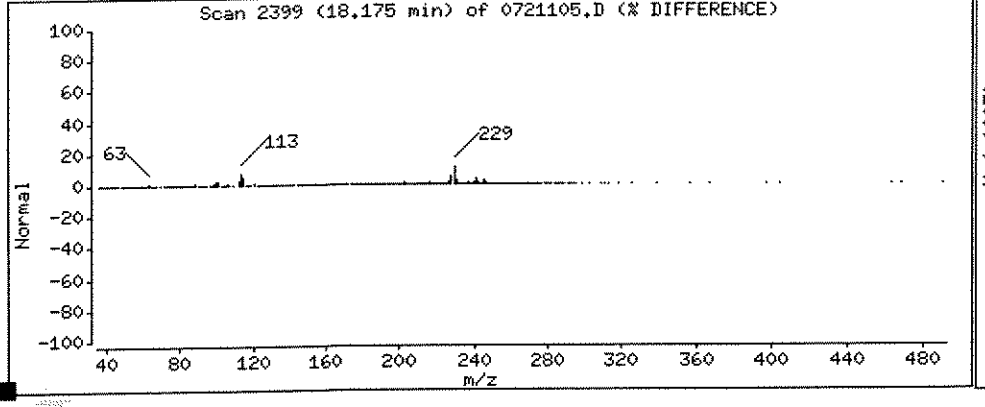
Column phase: fused silica Column diameter: 0.25

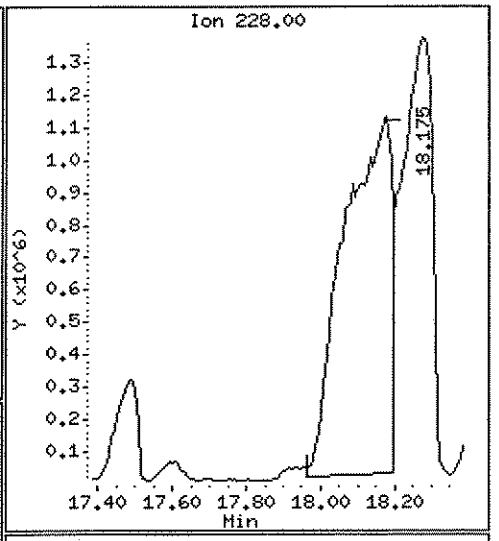
130 Benzo(a)anthracene Concentration: 23380 UG/KG

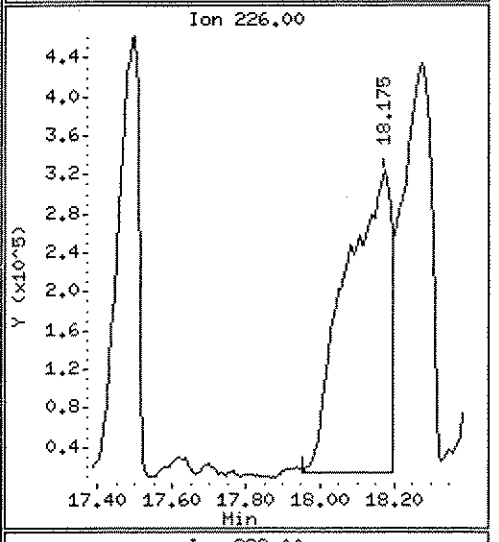


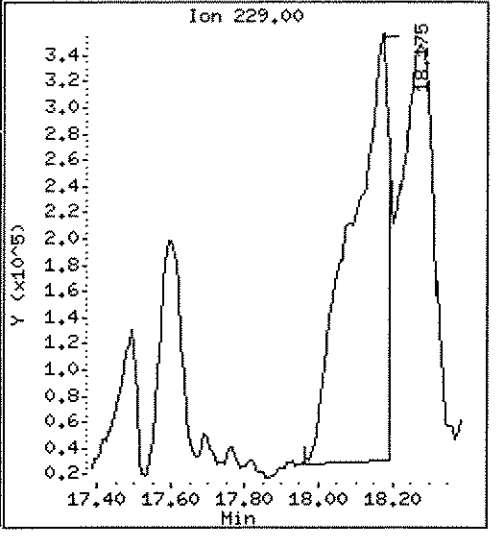












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

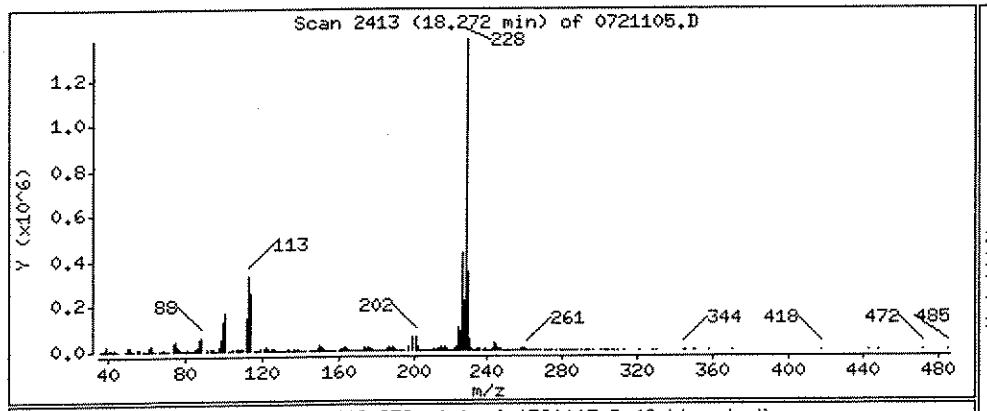
Client ID: 51CFM11S060725 Instrument: bna1.i

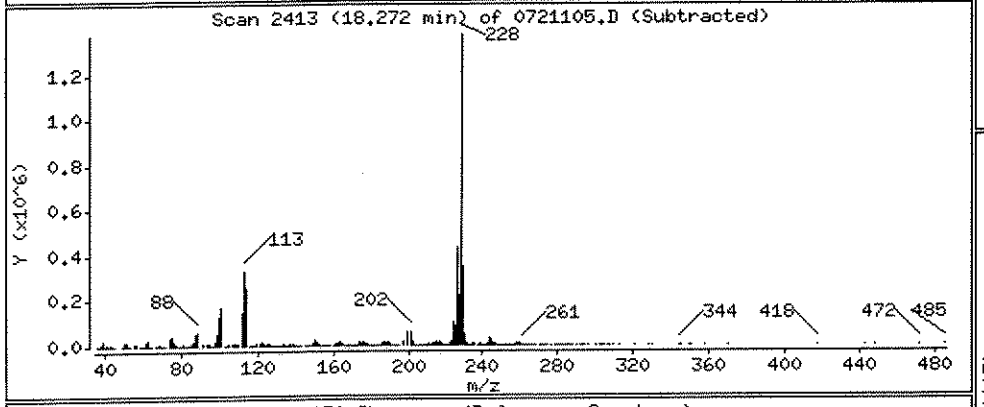
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

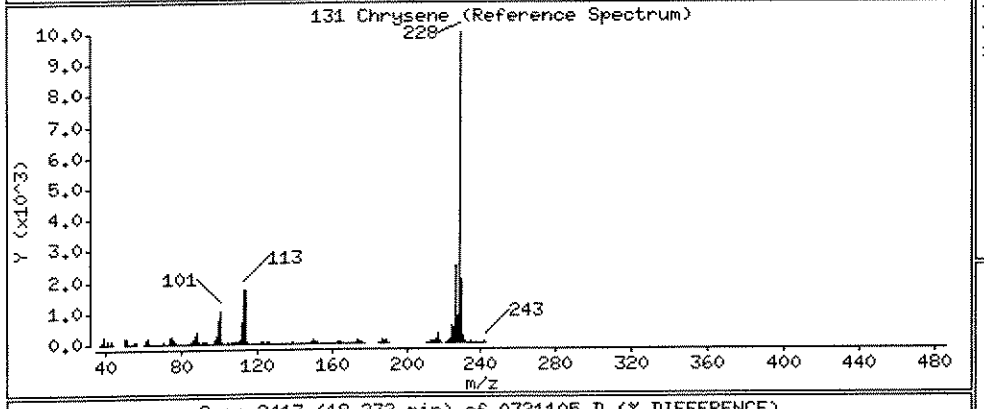
Volume Injected (uL): 0.5 Operator: SDB

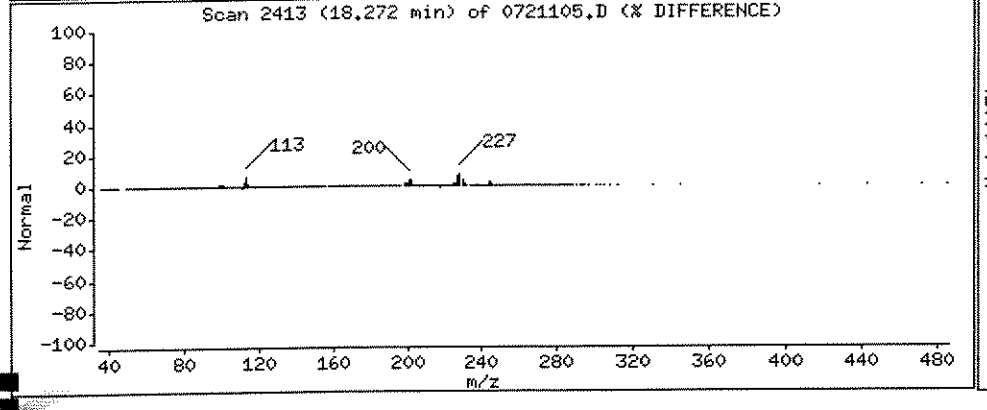
Column phase: fused silica Column diameter: 0.25

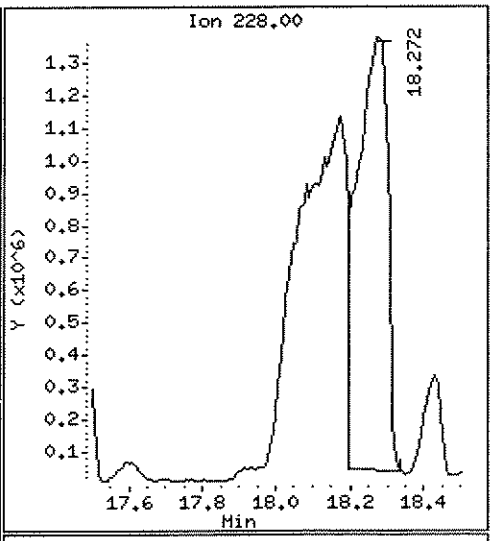
131 Chrysene Concentration: 19980 UG/KG

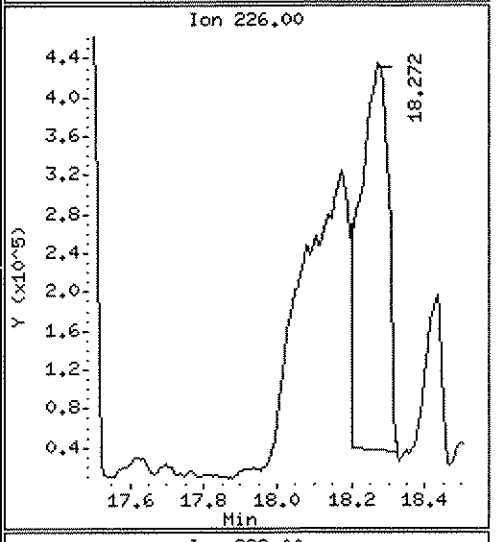


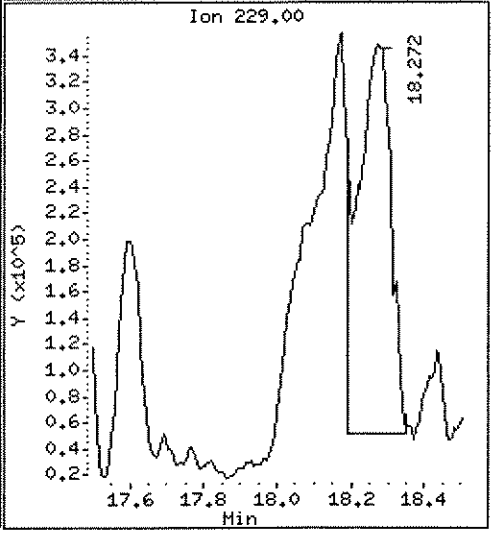












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

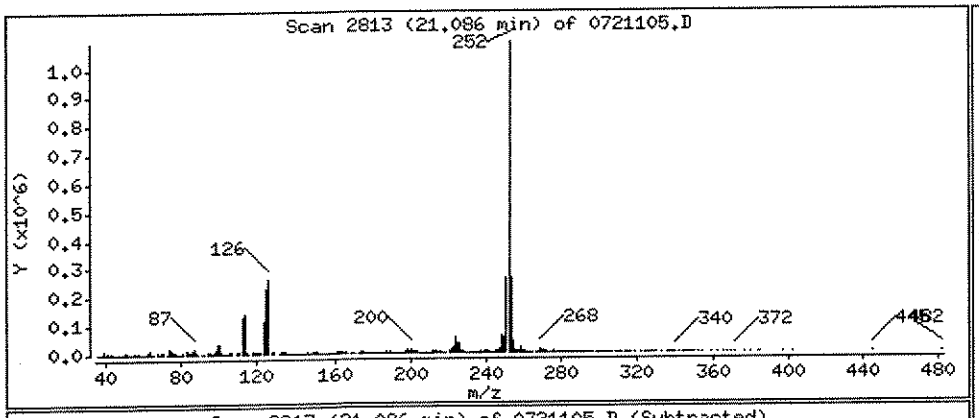
Operator: SDB

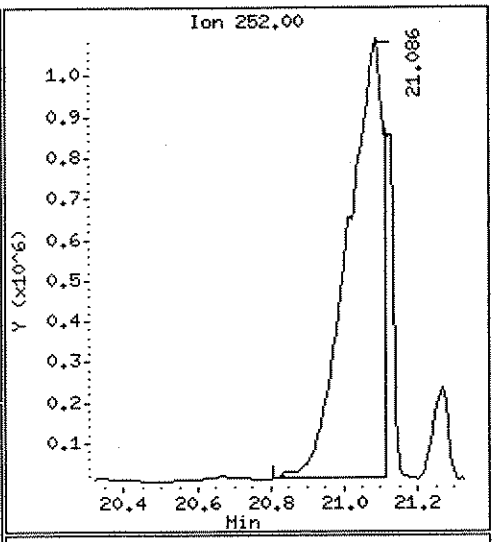
Column phase: fused silica

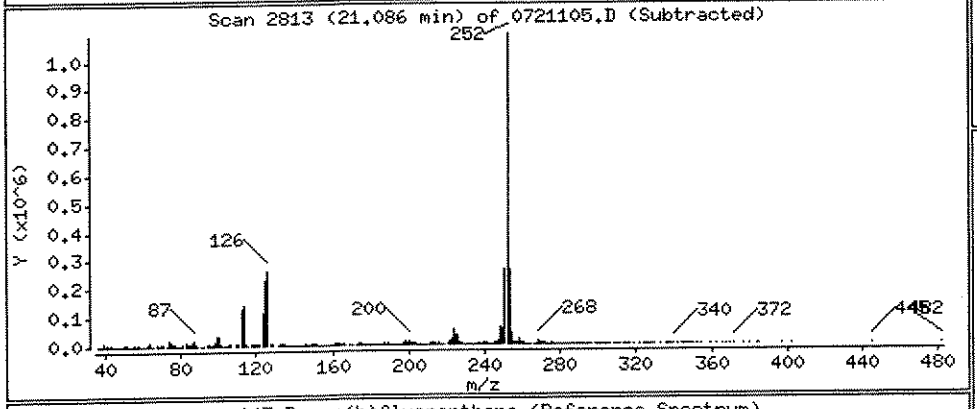
Column diameter: 0.25

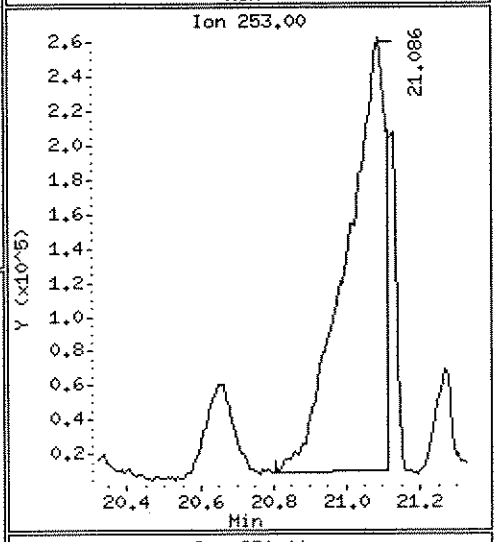
147 Benzo(b)fluoranthene

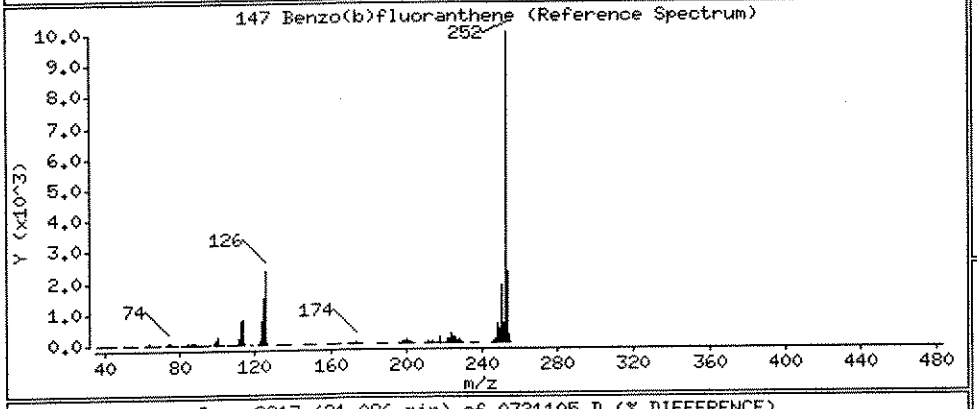
Concentration: 32190 UG/KG

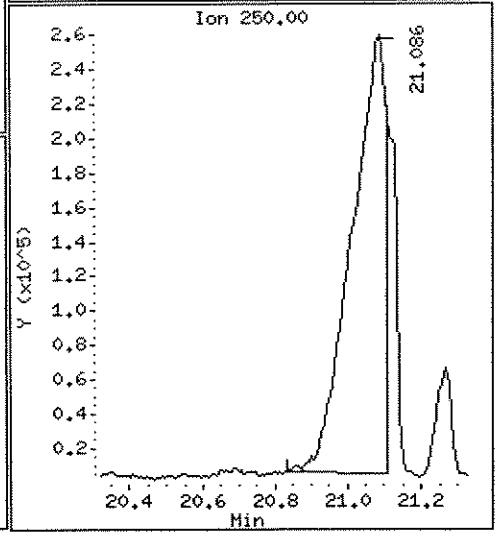


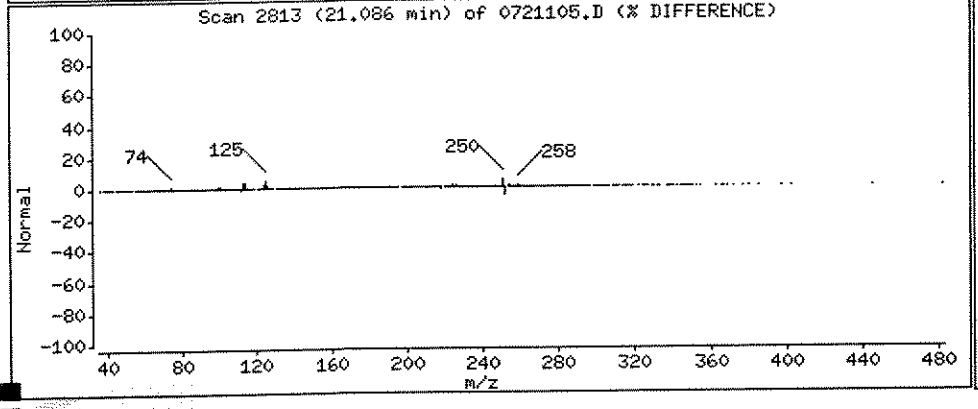












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

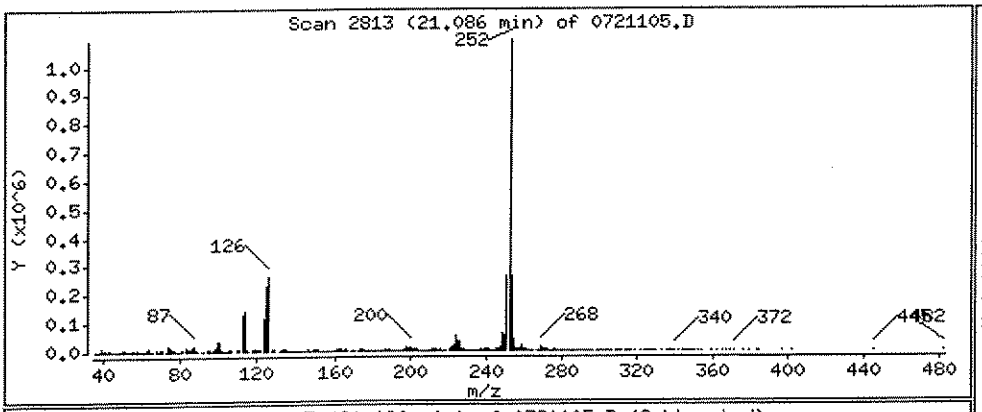
Client ID: 51CFM11S060725 Instrument: bna1.i

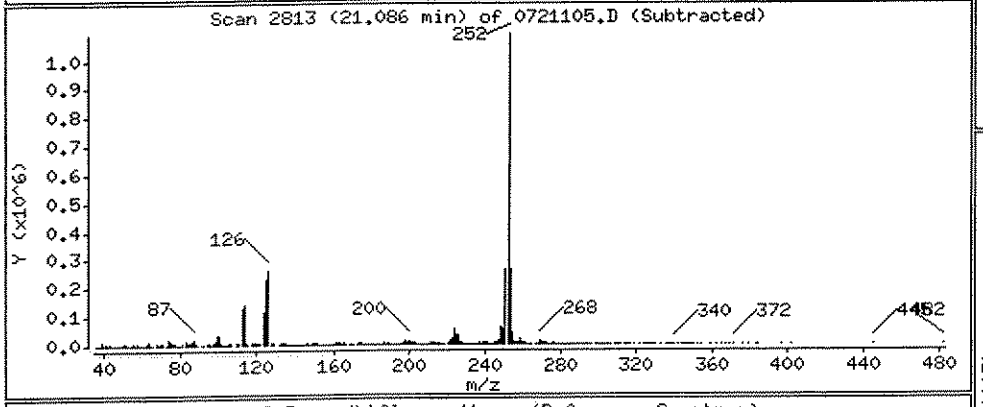
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

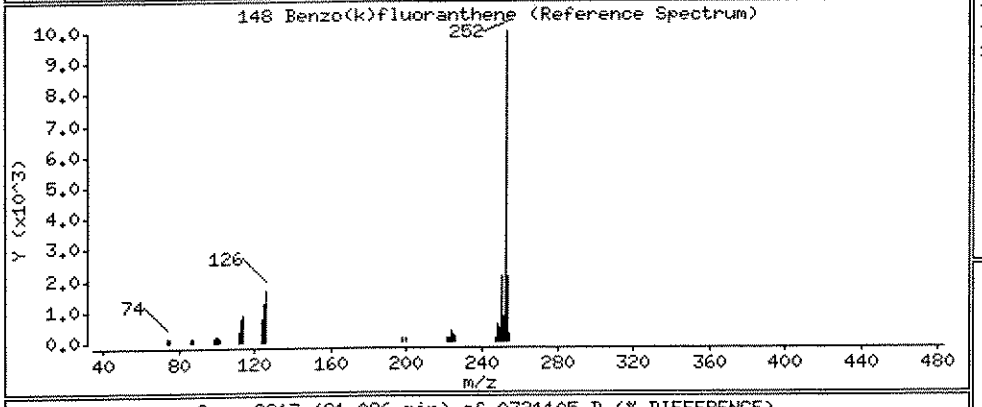
Volume Injected (uL): 0.5 Operator: SDB

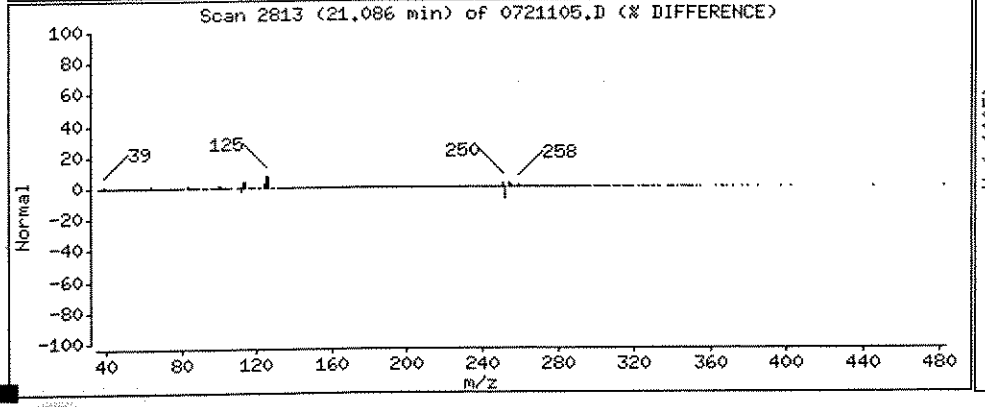
Column phase: fused silica Column diameter: 0.25

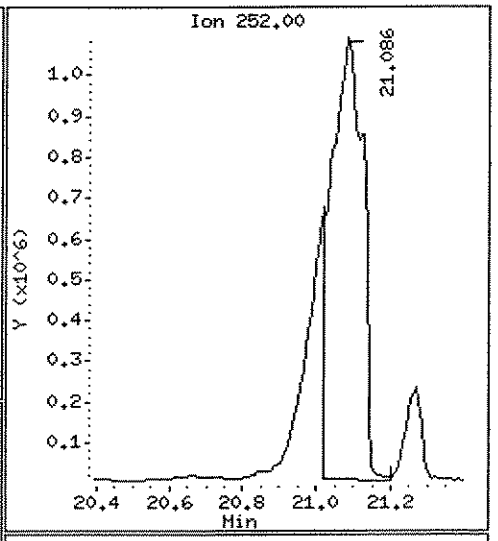
148 Benzo(k)fluoranthene Concentration: 27110 UG/KG

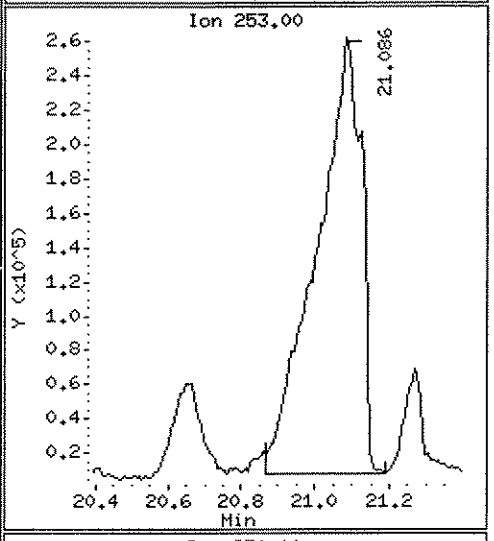


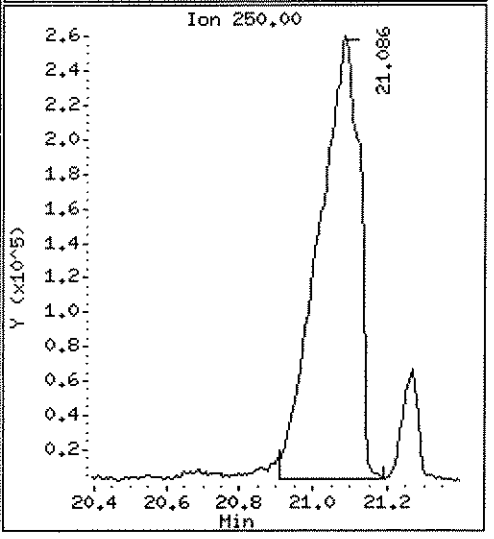












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

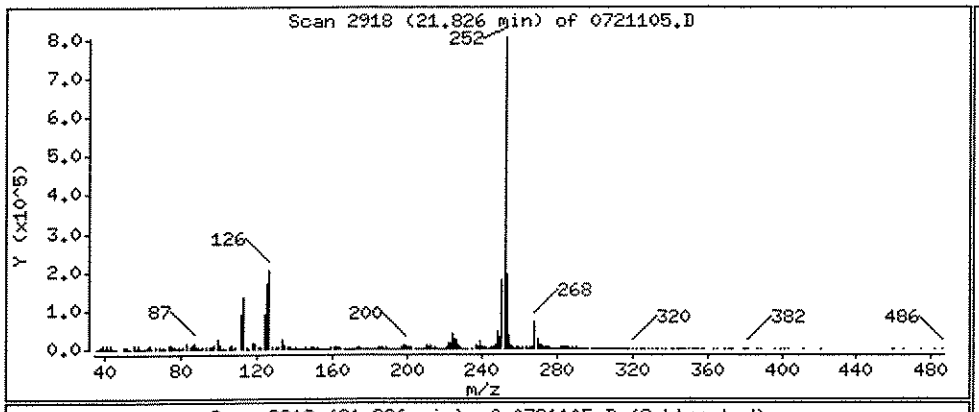
Client ID: 51CFM11S060725 Instrument: bna1.i

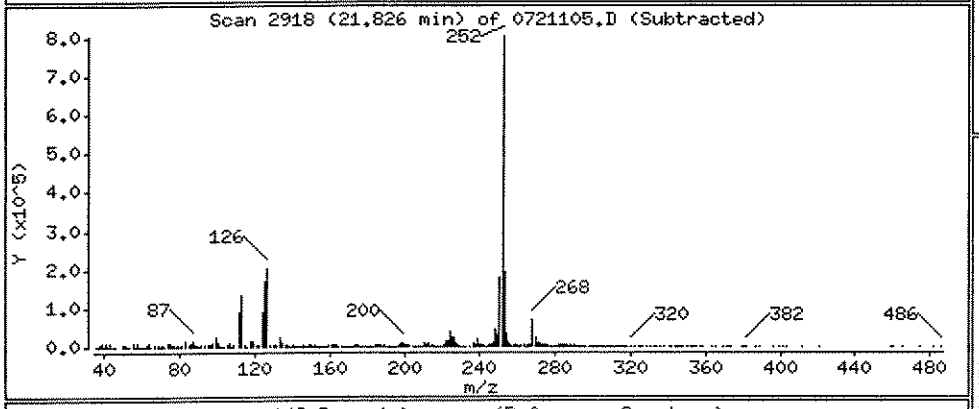
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

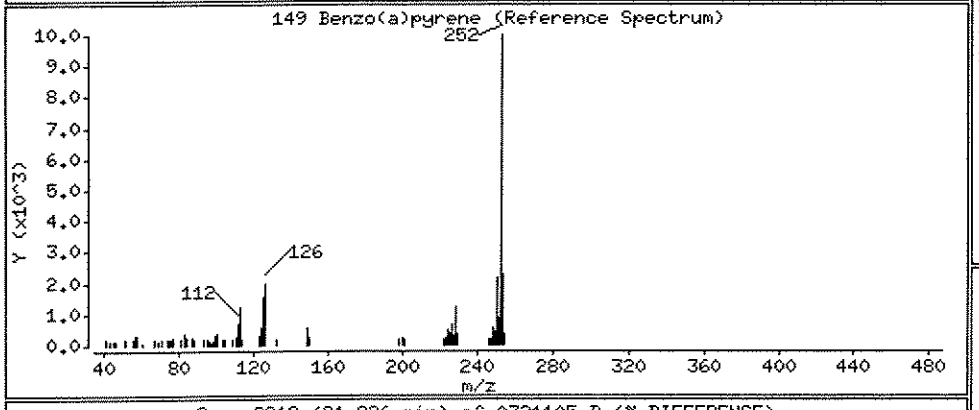
Volume Injected (uL): 0.5 Operator: SDB

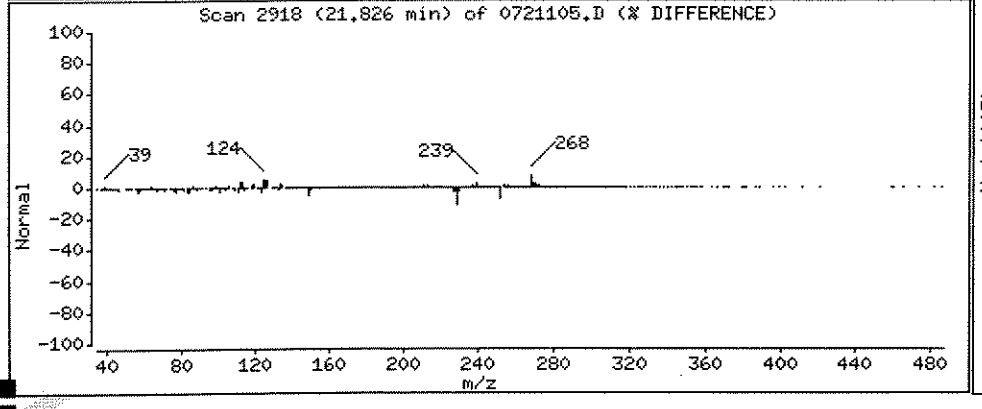
Column phase: fused silica Column diameter: 0.25

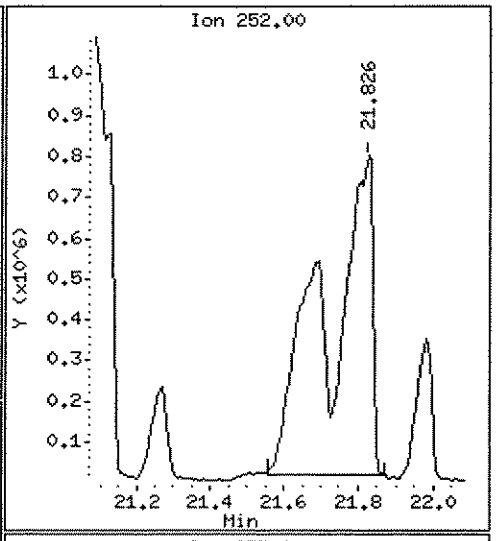
149 Benzo(a)pyrene Concentration: 33960 UG/KG

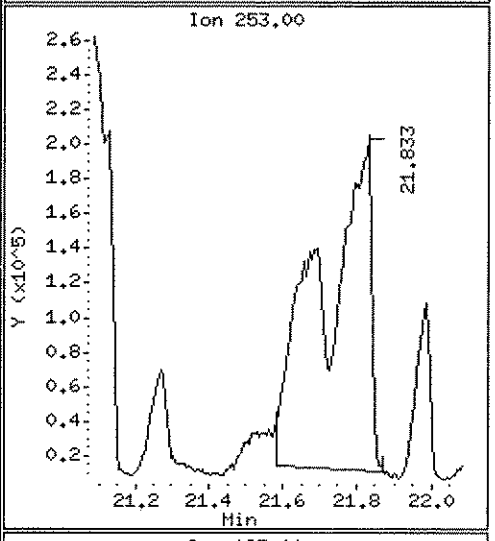


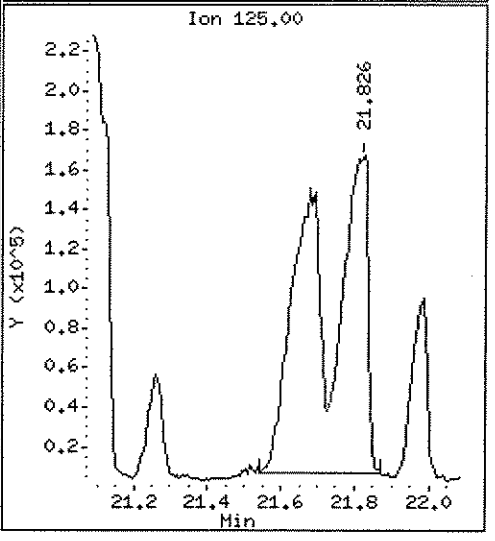












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

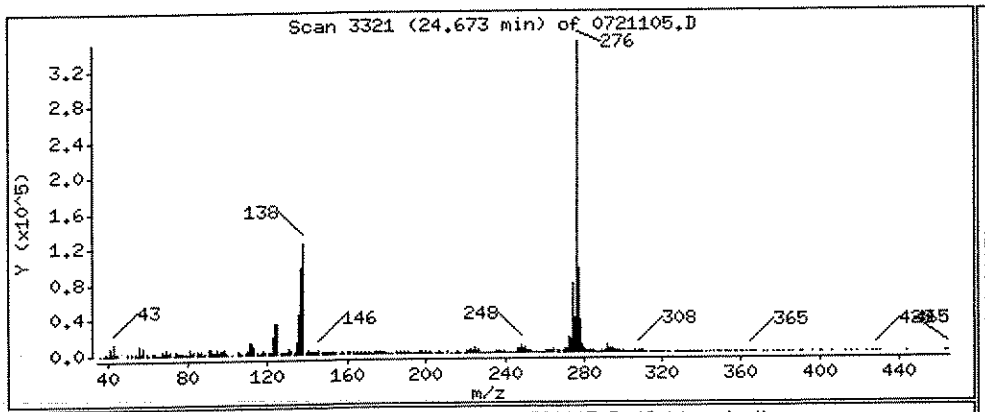
Operator: SDB

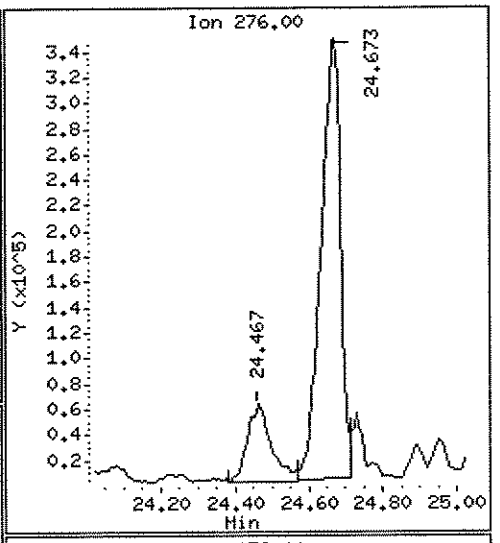
Column phase: fused silica

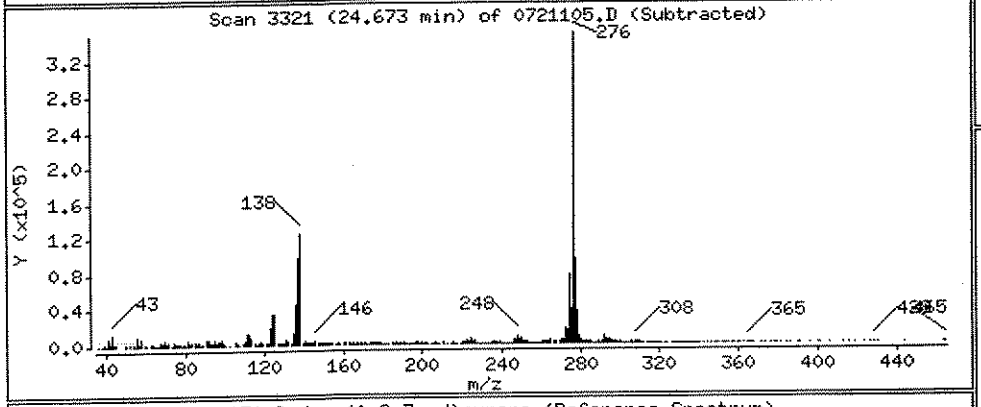
Column diameter: 0.25

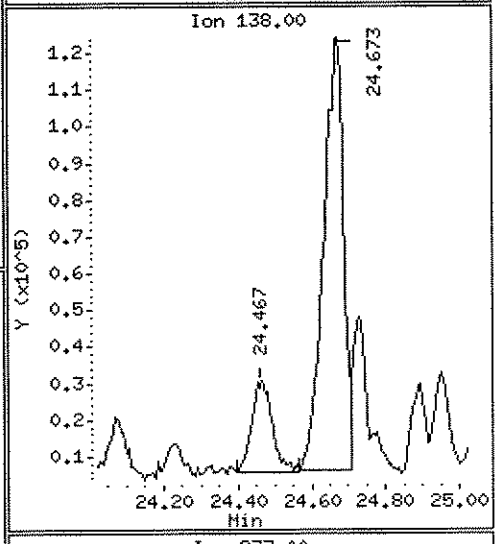
150 Indeno(1,2,3-cd)pyrene

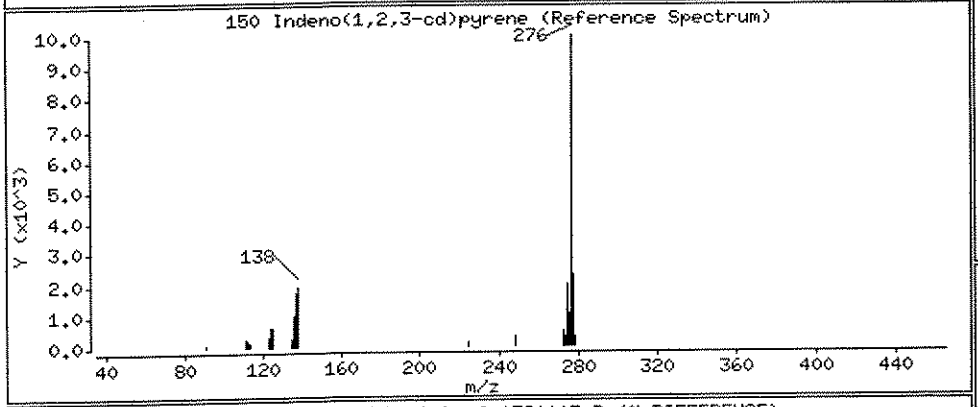
Concentration: 7745 UG/KG

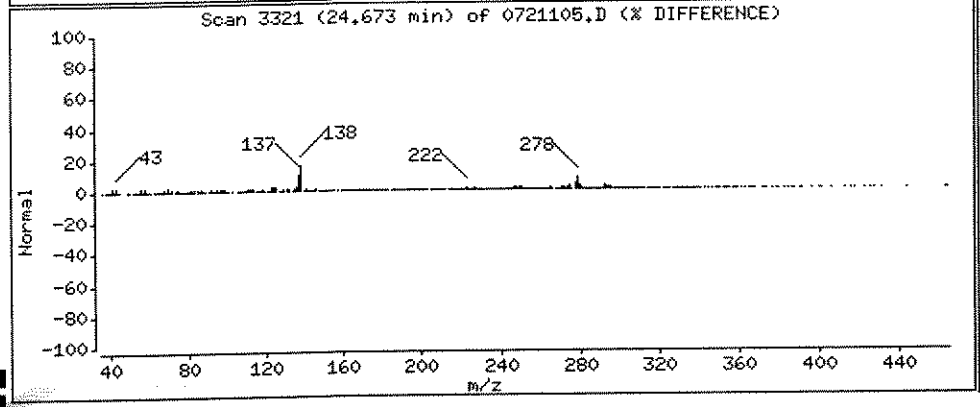


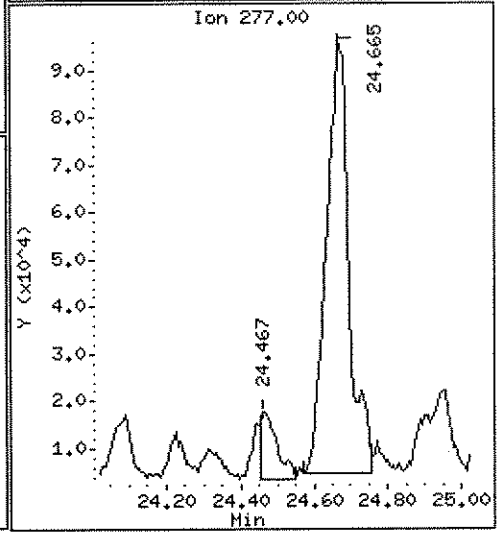












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

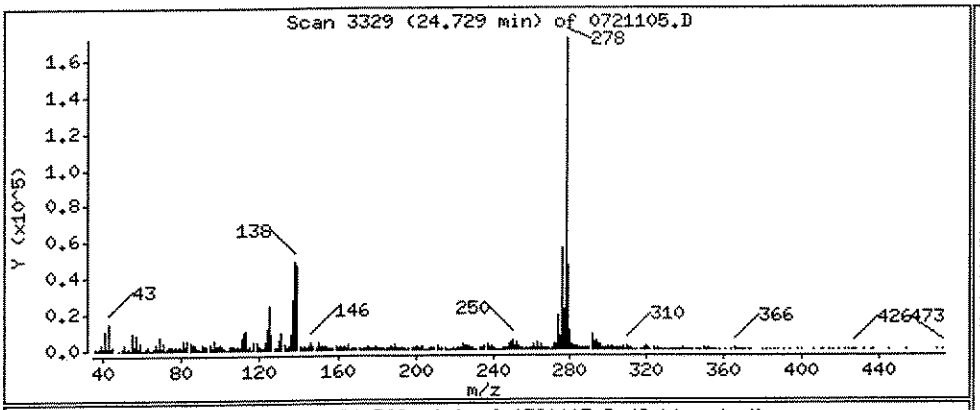
Client ID: 51CFM11S060725 Instrument: bna1.i

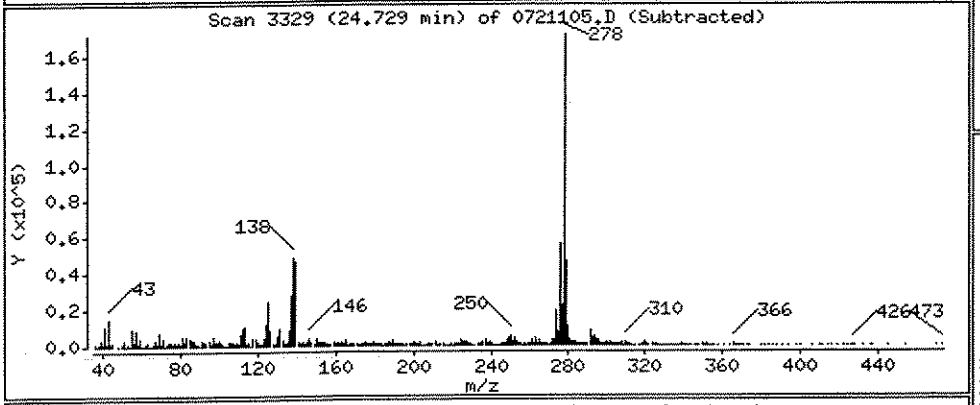
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

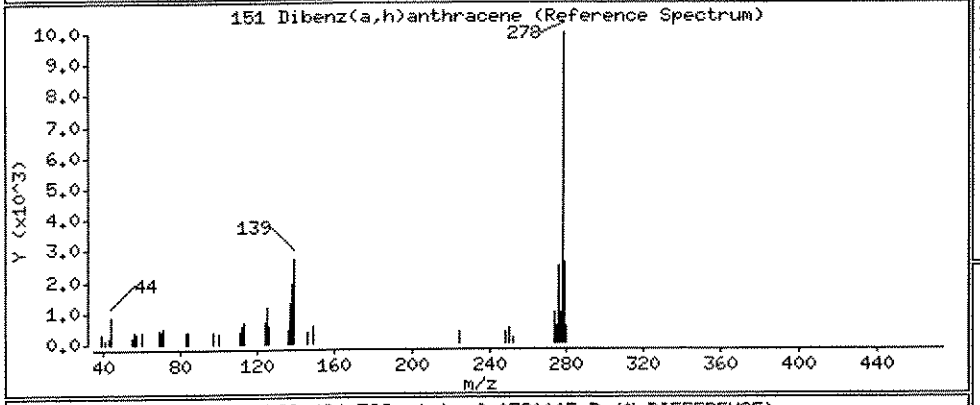
Volume Injected (uL): 0.5 Operator: SDB

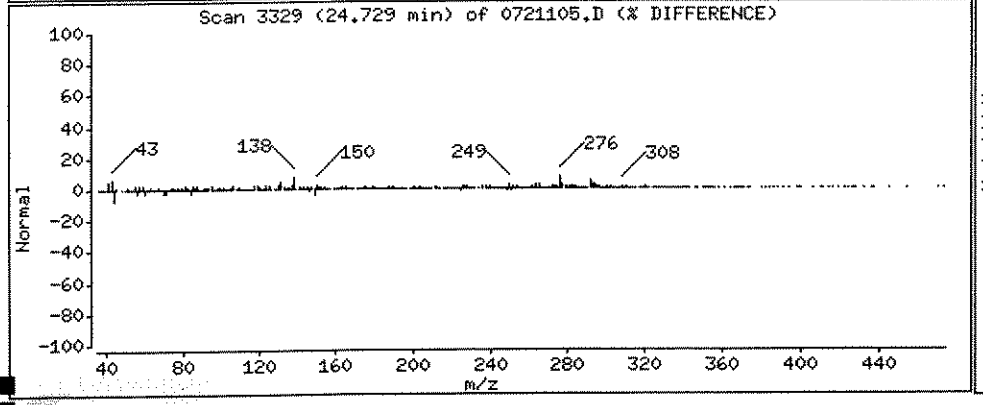
Column phase: fused silica Column diameter: 0.25

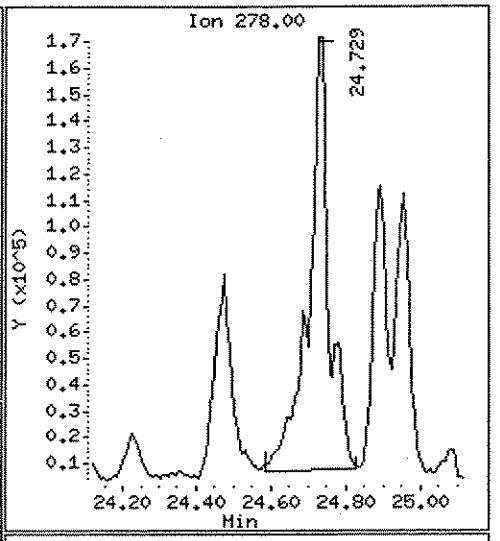
151 Dibenz(a,h)anthracene Concentration: 3790 UG/KG

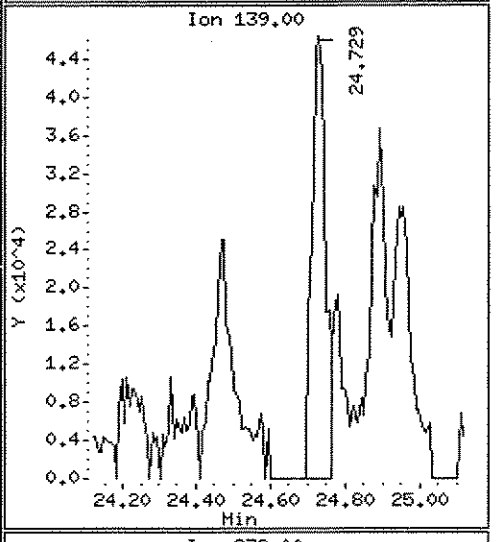


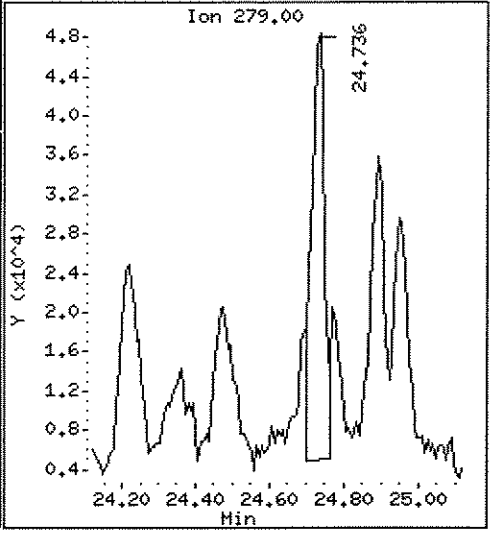












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D

Date : 26-JUL-2006 18:02

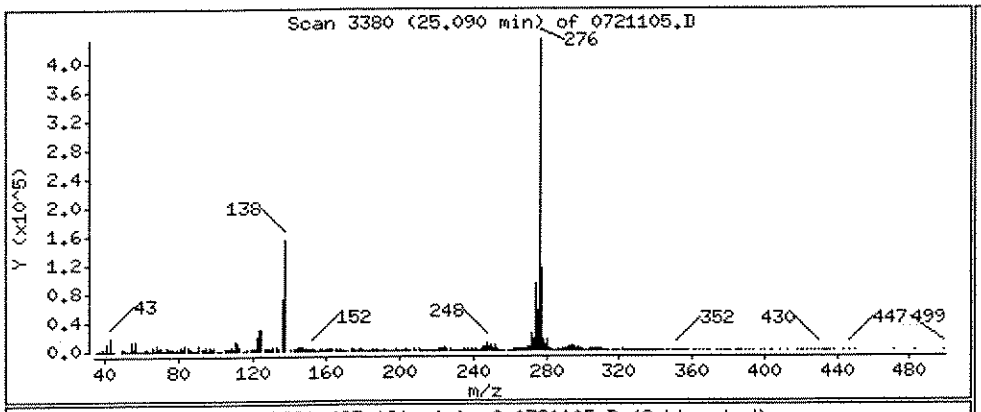
Client ID: 51CFM11S060725 Instrument: bna1.i

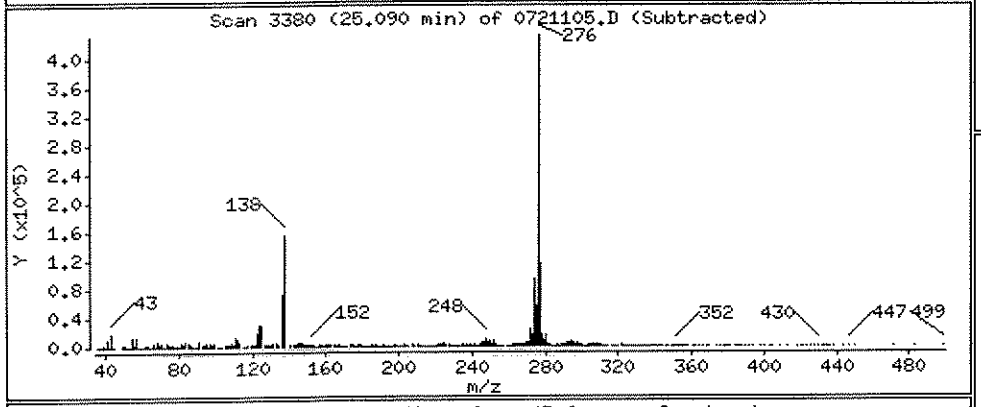
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

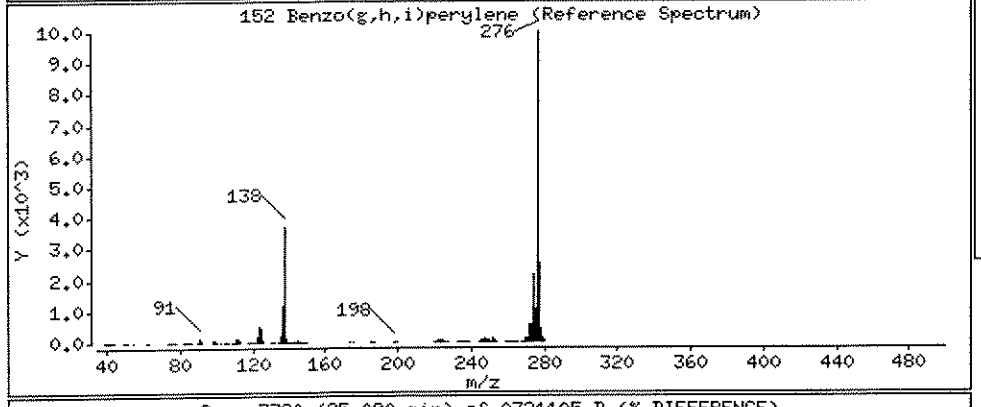
Volume Injected (uL): 0.5 Operator: SDB

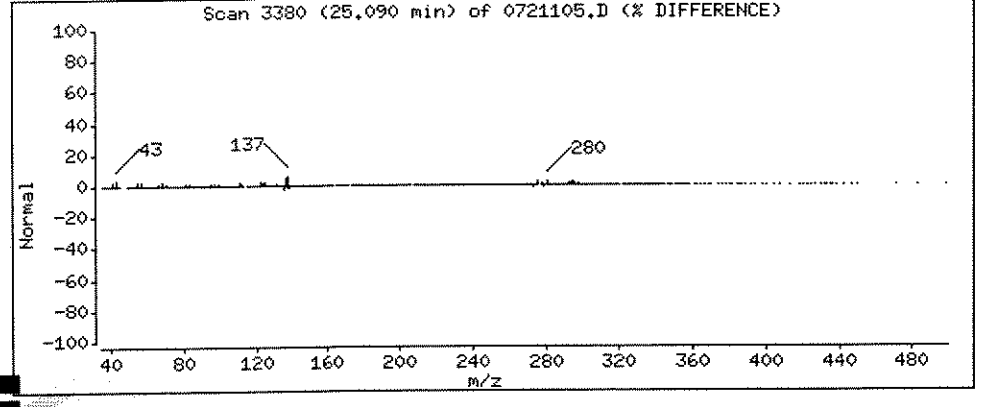
Column phase: fused silica Column diameter: 0.25

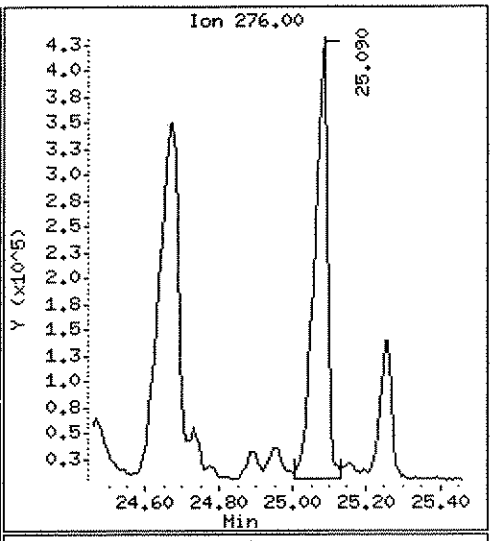
152 Benzo(g,h,i)perylene Concentration: 6437 UG/KG

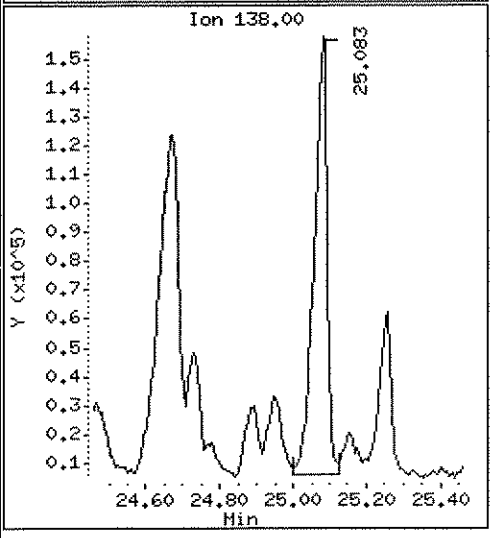








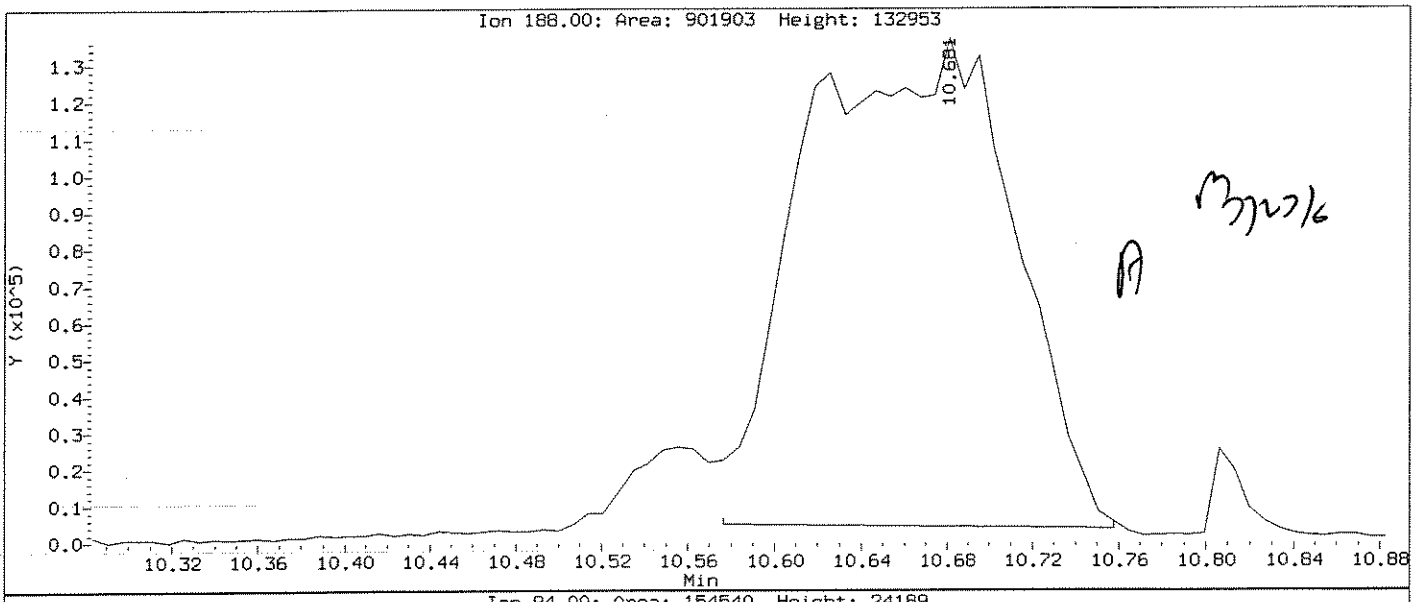


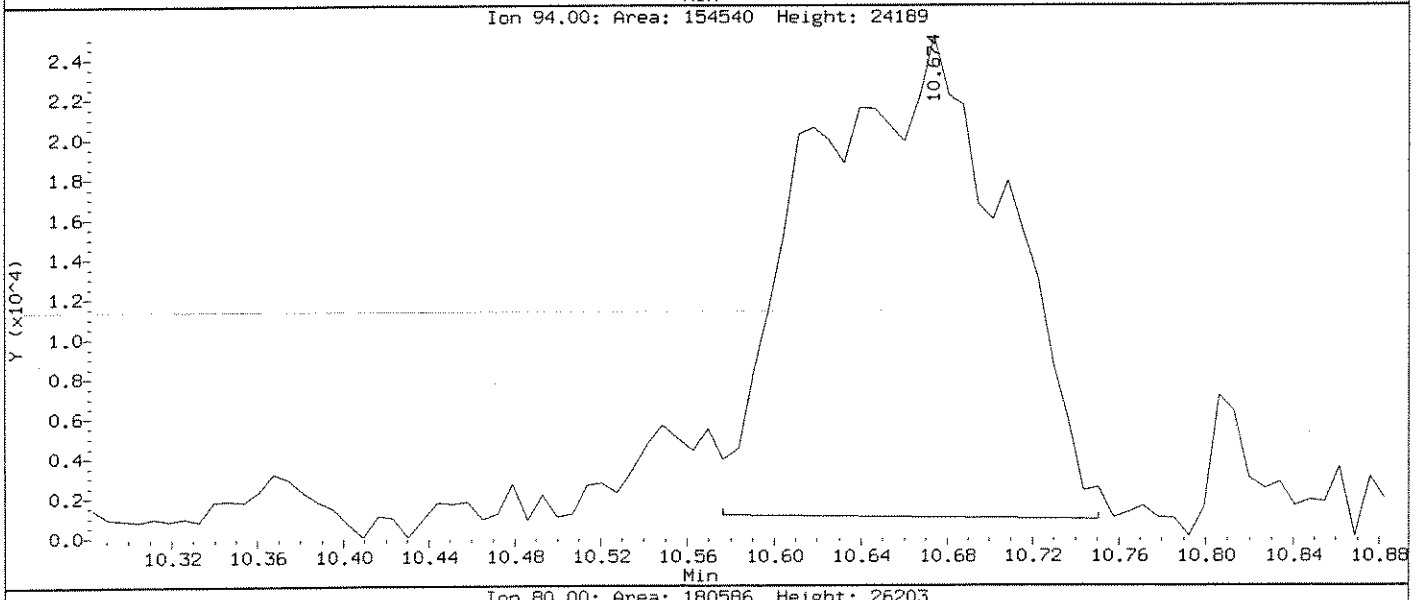


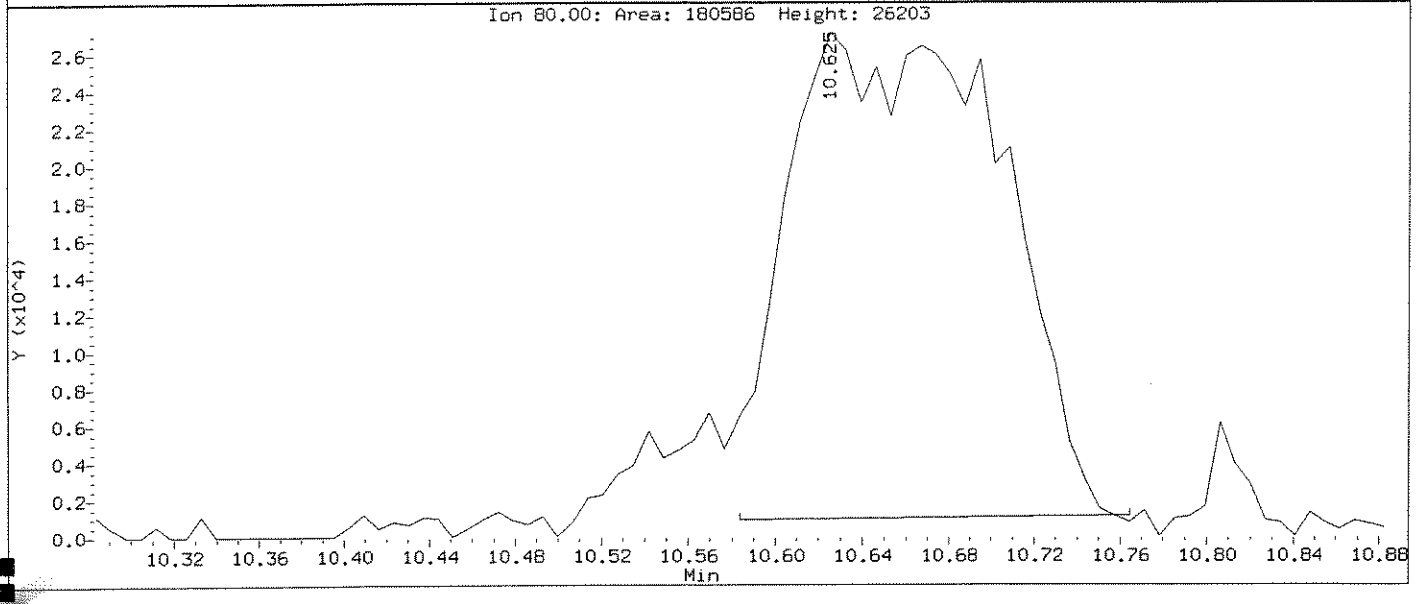
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721105.D
Injection Date: 26-JUL-2006 18:02
Instrument: bna1.i
Client Sample ID: 51CFM11S060725

Compound: Phenanthrene-d10
CAS Number: 1517-22-2







Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 721105D1

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 15:03

Injection Volume: 0.5(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	4200	35000		UD
208-96-8	Acenaphthylene	4200	35000		UD
120-12-7	Anthracene	4200	35000	4700	JD
56-55-3	Benzo(a)anthracene	4200	35000	28000	JD
205-99-2	Benzo(b)fluoranthene	4200	35000	41000	D
207-08-9	Benzo(k)fluoranthene	4200	35000	29000	JD
191-24-2	Benzo(g,h,i)perylene	4200	35000	15000	JD
50-32-8	Benzo(a)pyrene	4200	21000	37000	D
218-01-9	Chrysene	4200	35000	34000	JD
53-70-3	Dibenz(a,h)anthracene	4200	21000	4900	JD
206-44-0	Fluoranthene	4200	35000	57000	D
86-73-7	Fluorene	4200	35000		UD
193-39-5	Indeno(1,2,3-cd)pyrene	4200	35000	16000	JD
91-57-6	2-Methylnaphthalene	4200	35000		UD
90-12-0	1-Methylnaphthalene	10000	35000		UD
91-20-3	Naphthalene	4200	35000		UD
85-01-8	Phenanthrene	4200	35000	34000	JD
129-00-0	Pyrene	4200	35000	63000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D
Report Date: 28-Jul-2006 09:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 27-JUL-2006 15:03
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-05;15.1;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 28-Jul-2006 06:52 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	200.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	94.600	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.084	4.088	(1.000)	459373	40.0000	
* 31 Naphthalene-d8	136	5.048	5.055	(1.000)	1452943	40.0000	
* 65 Acenaphthene-d10	164	7.320	7.324	(1.000)	721294	40.0000	
* 97 Phenanthrene-d10	188	10.501	10.512	(1.000)	814002	40.0000	
106 Phenanthrene	178	10.550	10.568	(1.005)	114603	4.93788	34570(a)
107 Anthracene	178	10.659	10.685	(1.015)	15287	0.66717	4670(aM)
110 Fluoranthene	202	13.716	13.736	(1.306)	187267	8.14991	57050
* 124 Chrysene-d12	240	17.837	17.850	(1.000)	483363	40.0000	
126 Pyrene	202	14.284	14.311	(0.801)	174523	9.04084	63290
130 Benzo(a)anthracene	228	17.789	17.809	(0.997)	61957	3.97823	27850(a)
131 Chrysene	228	17.892	17.927	(1.003)	69404	4.87917	34160(a)
* 145 Perylene-d12	264	21.638	21.664	(1.000)	271869	40.0000	
147 Benzo(b)fluoranthene	252	20.727	20.746	(0.958)	49255	5.88137	41170(M)

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D
Report Date: 28-Jul-2006 09:16

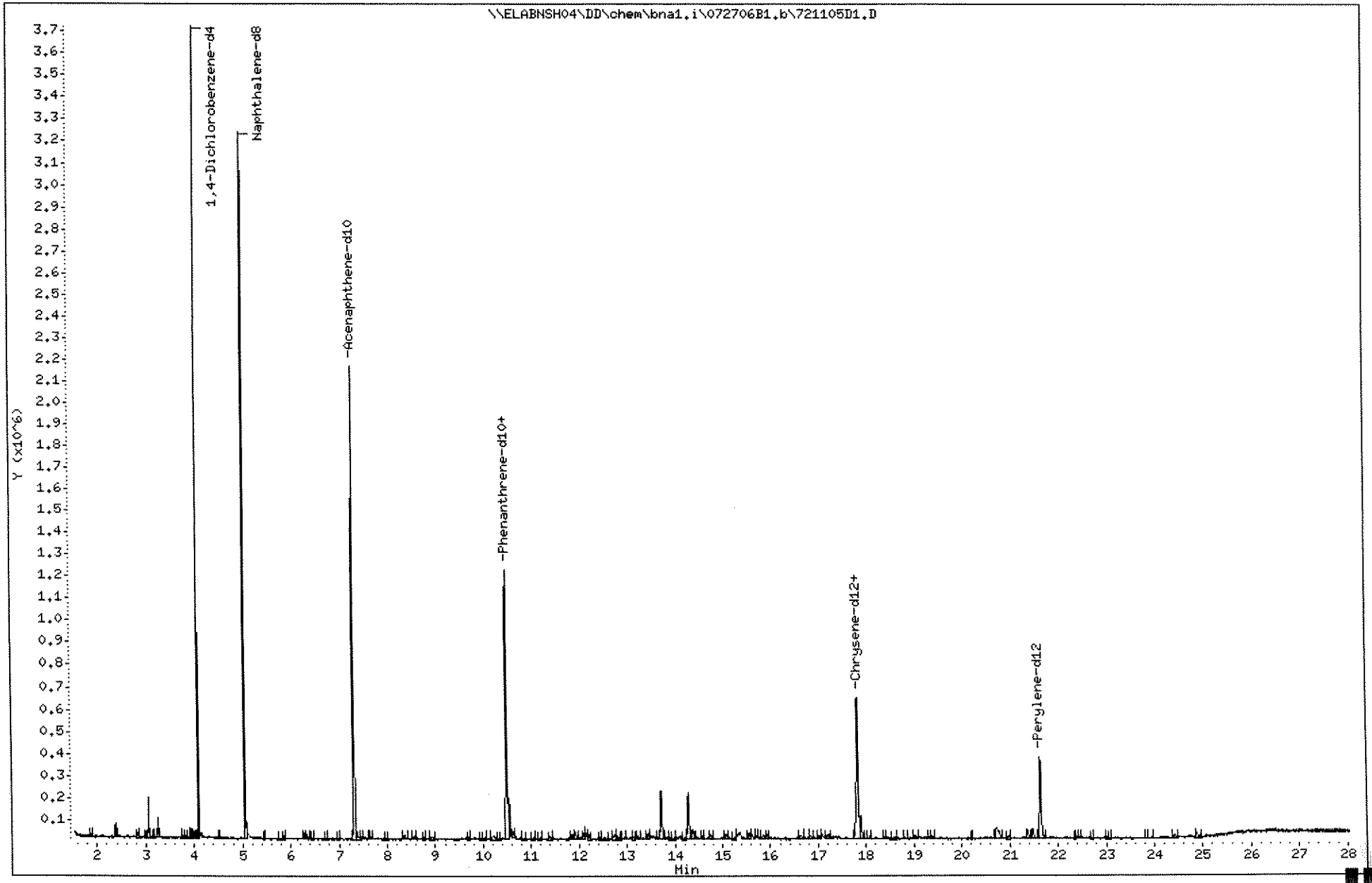
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
148 Benzo(k)fluoranthene	252	20.754	20.822	(0.959)	36111	4.15613	29100(aM)
149 Benzo(a)pyrene	252	21.481	21.512	(0.993)	38382	5.31491	37210
150 Indeno(1,2,3-cd)pyrene	276	24.414	24.452	(1.128)	14298	2.32060	16240(aM)
151 Dibenz(a,h)anthracene	278	24.517	24.554	(1.133)	4380	0.70614	4943(aM)
152 Benzo(g,h,i)perylene	276	24.874	24.910	(1.150)	13875	2.17004	15190(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D
Date : 27-JUL-2006 15:03
Client ID: 51CFM11S060725 Instrument: bna1.i
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5 Operator: SDB
Column phase: fused silica Column diameter: 0.25

000108



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Date : 27-JUL-2006 15:03

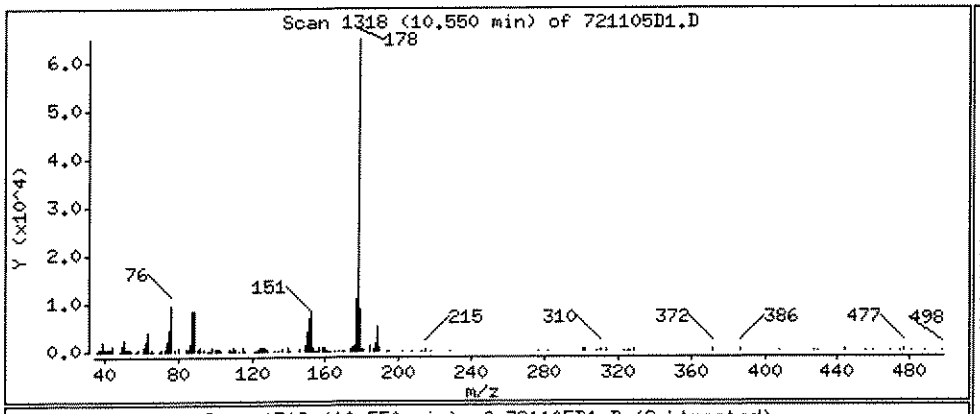
Client ID: 51CFM11S060725 Instrument: bna1.i

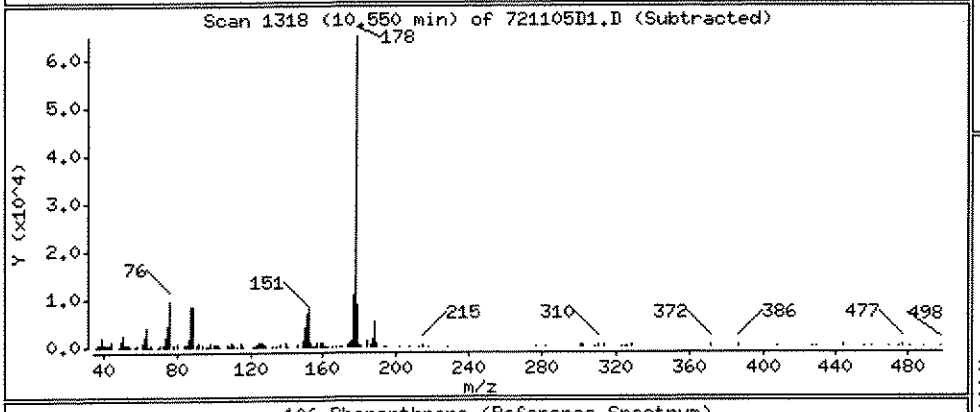
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

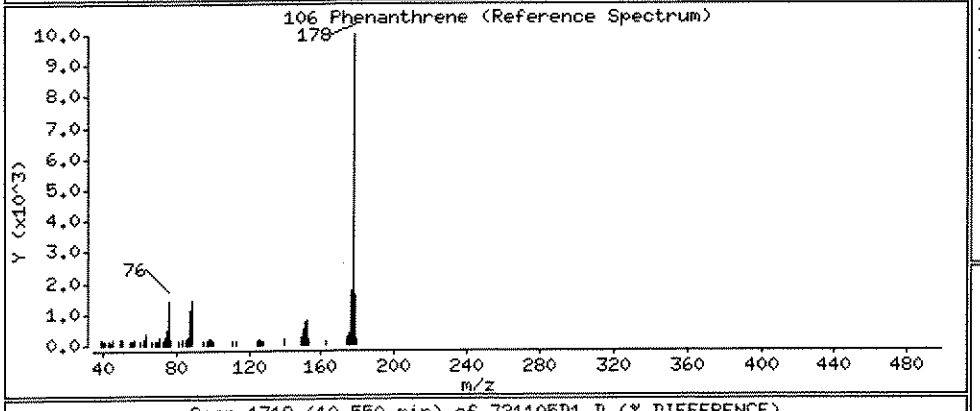
Volume Injected (uL): 0.5 Operator: SDB

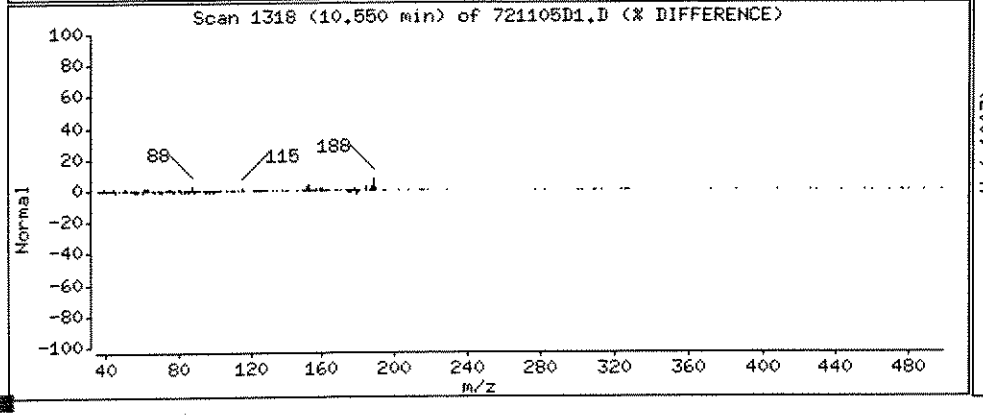
Column phase: fused silica Column diameter: 0.25

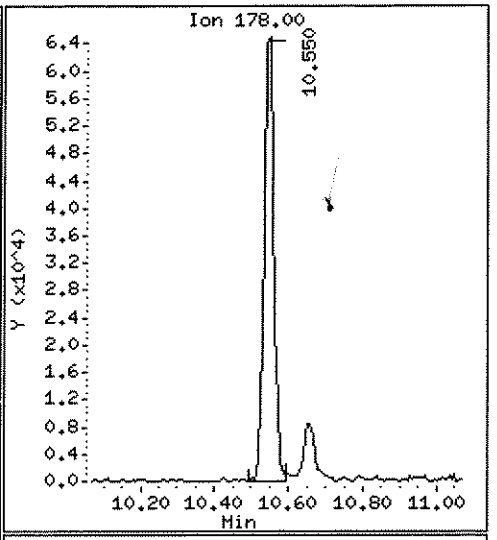
106 Phenanthrene Concentration: 34570 UG/KG

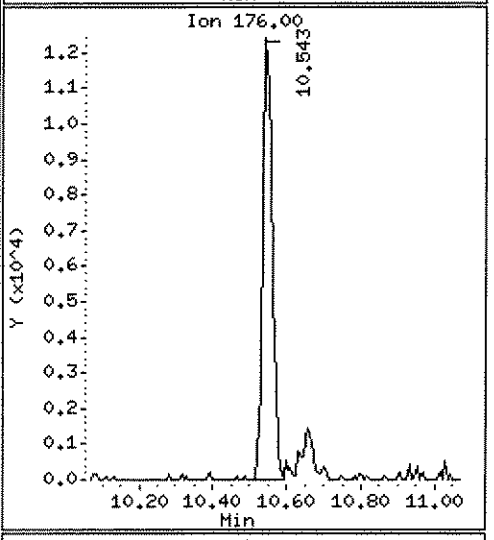


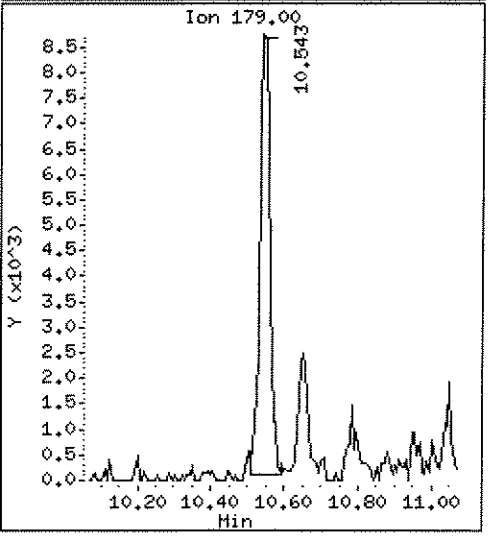












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Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

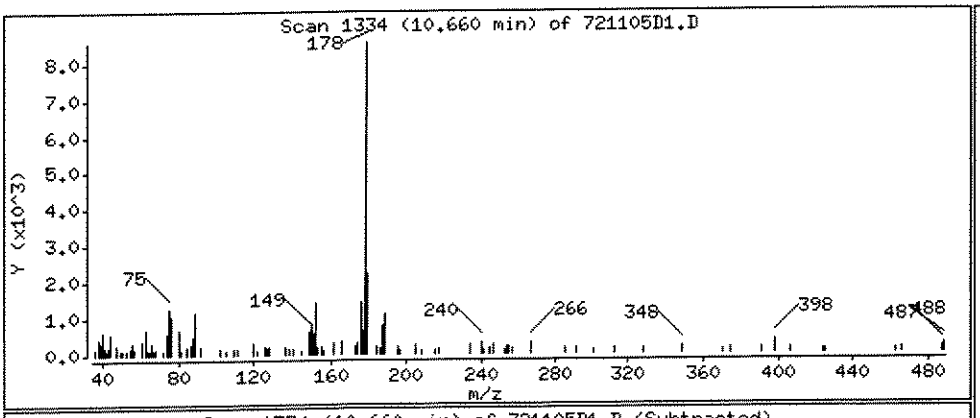
Operator: SDB

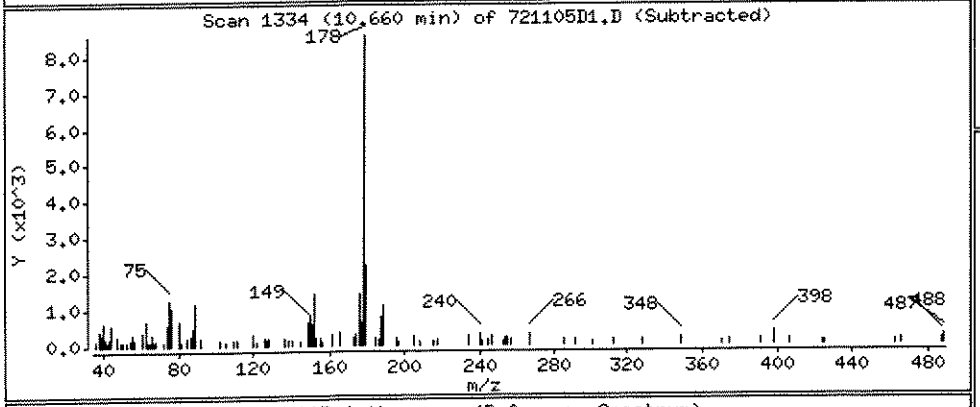
Column phase: fused silica

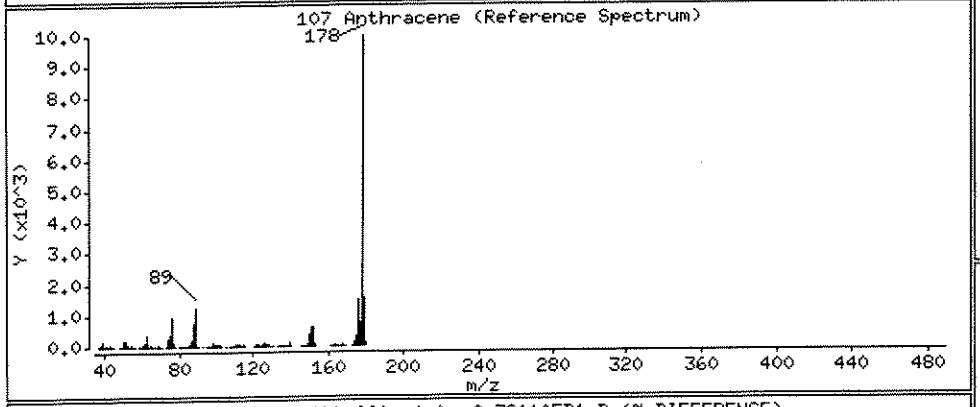
Column diameter: 0.25

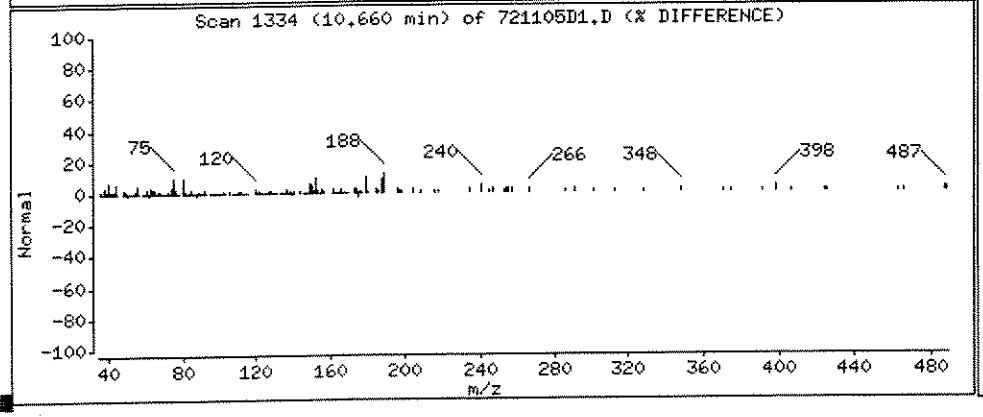
107 Anthracene

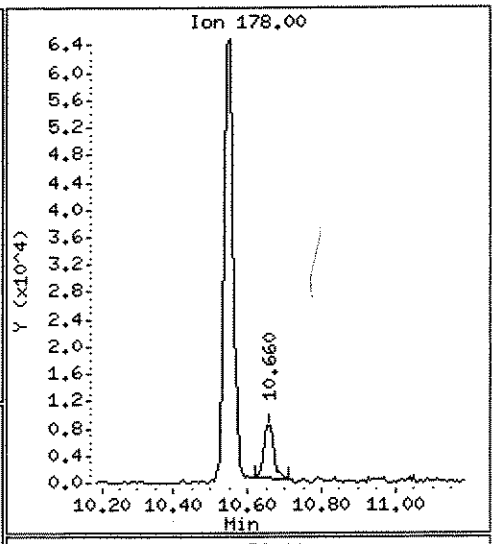
Concentration: 4670 UG/KG

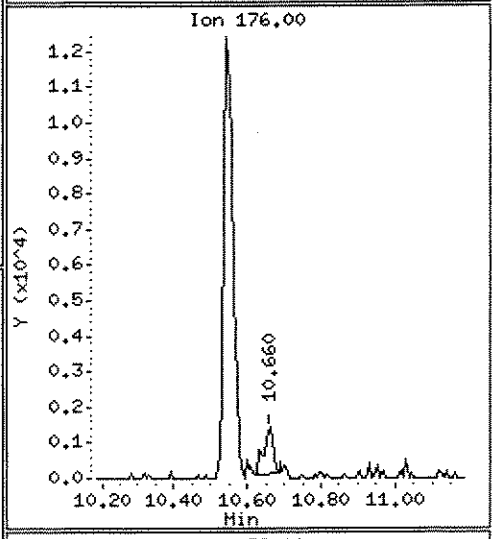


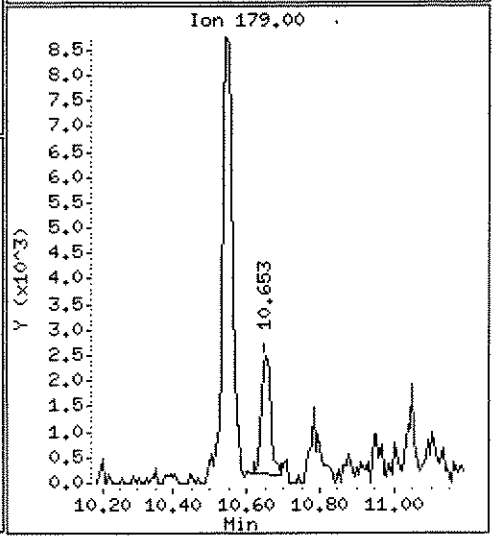












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Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

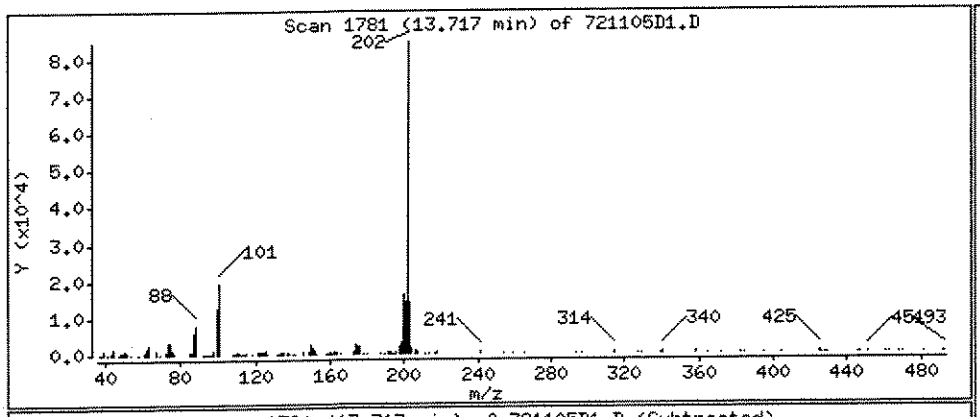
Operator: SDB

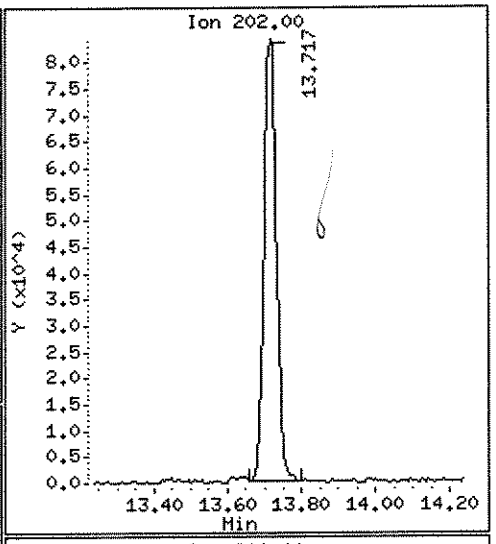
Column phase: fused silica

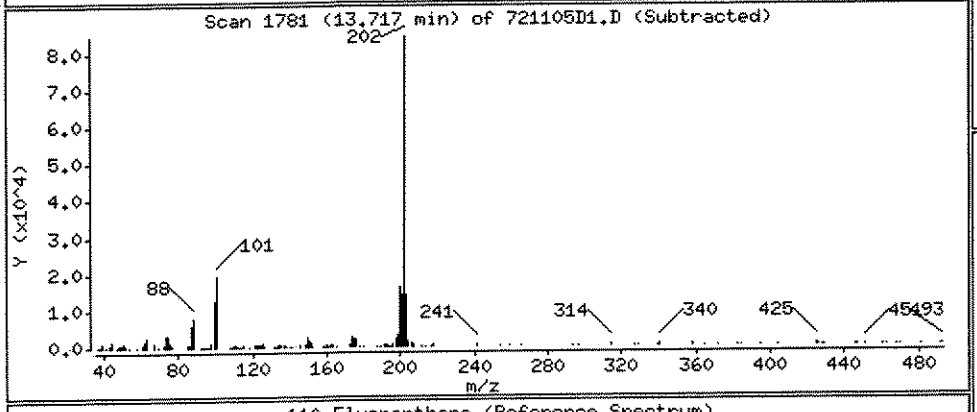
Column diameter: 0.25

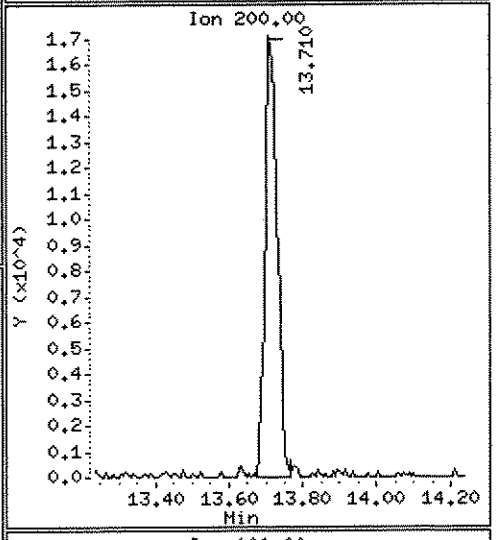
110 Fluoranthene

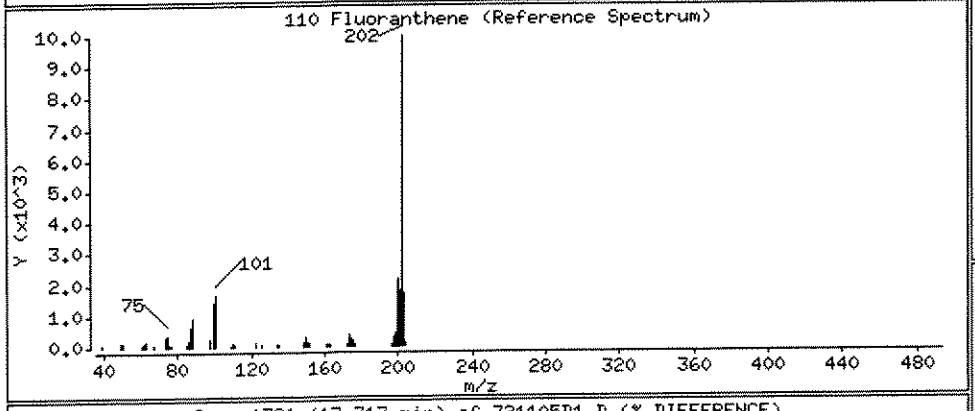
Concentration: 57050 UG/KG

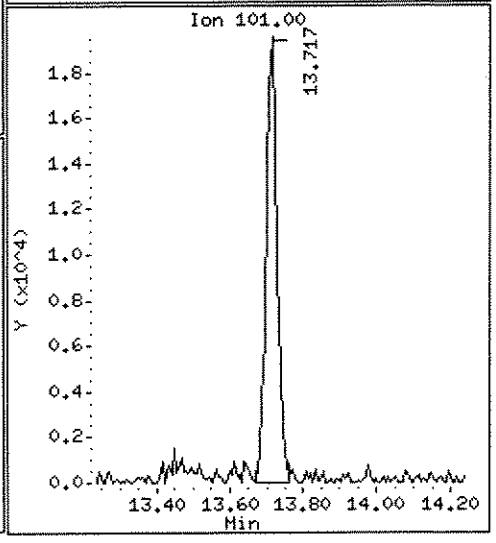


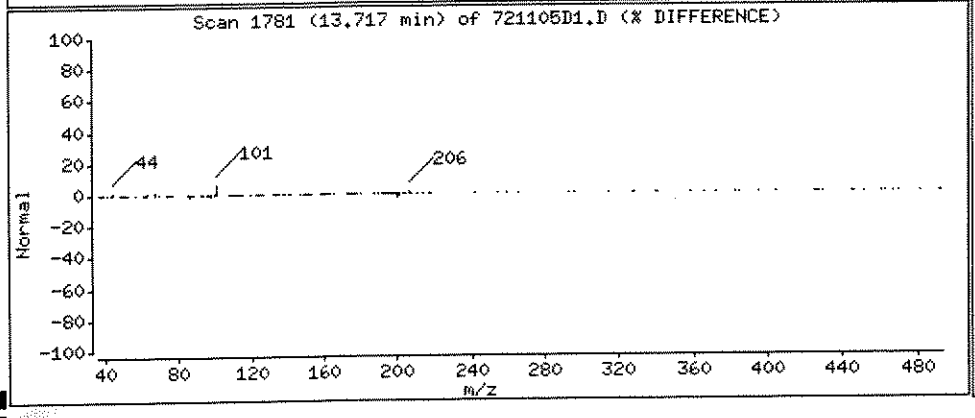












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

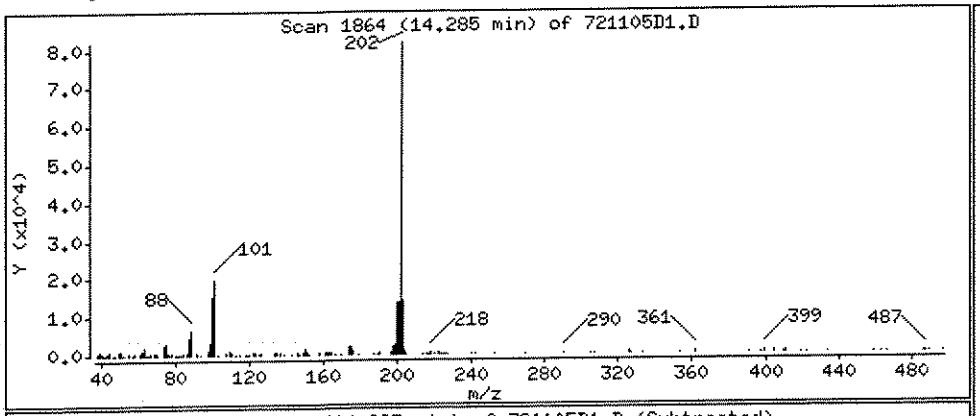
Operator: SDB

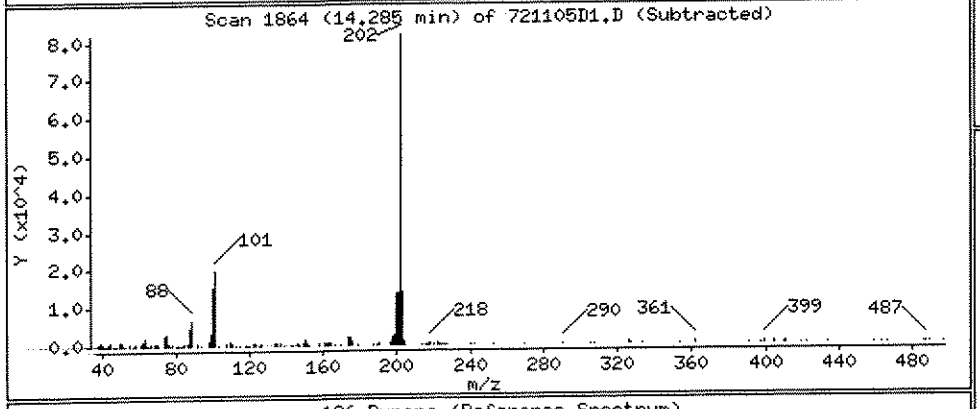
Column phase: fused silica

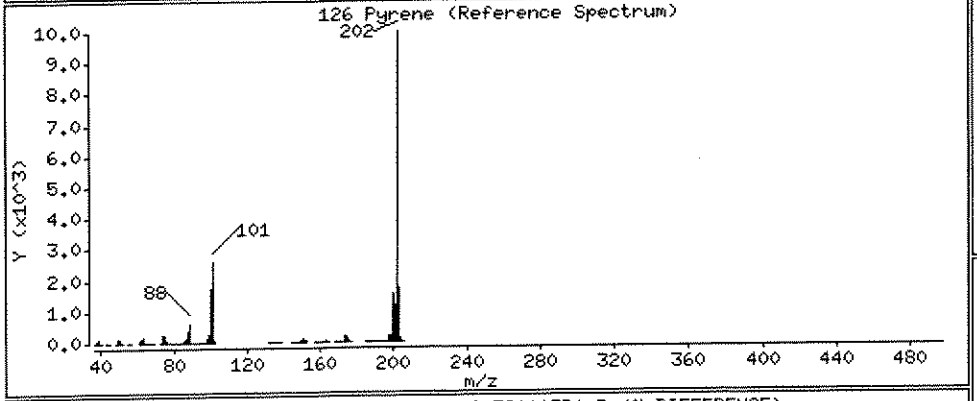
Column diameter: 0.25

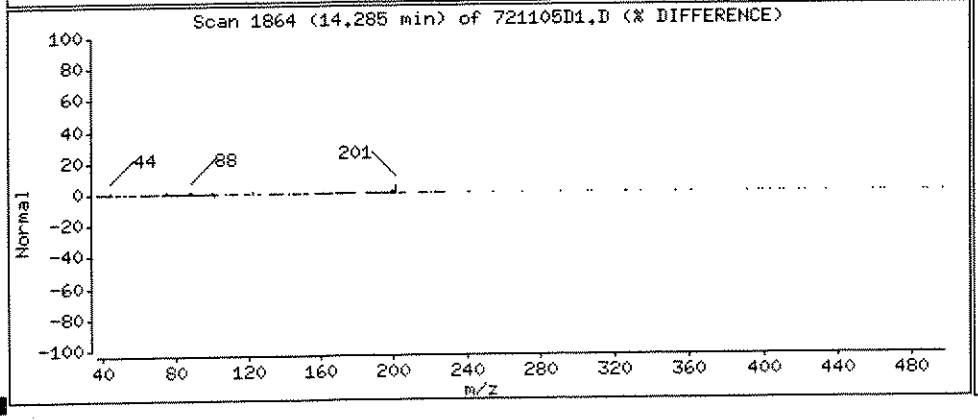
126 Pyrene

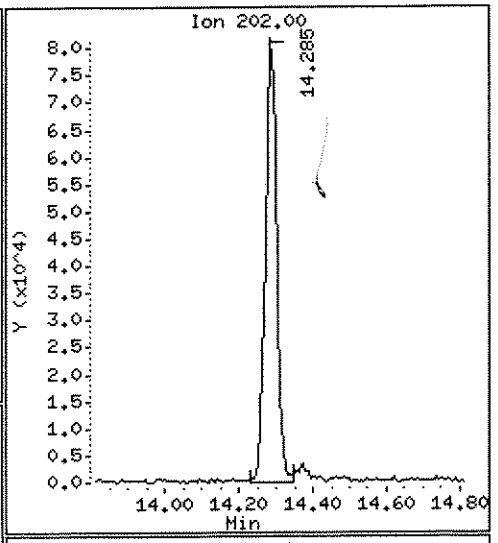
Concentration: 63290 UG/KG

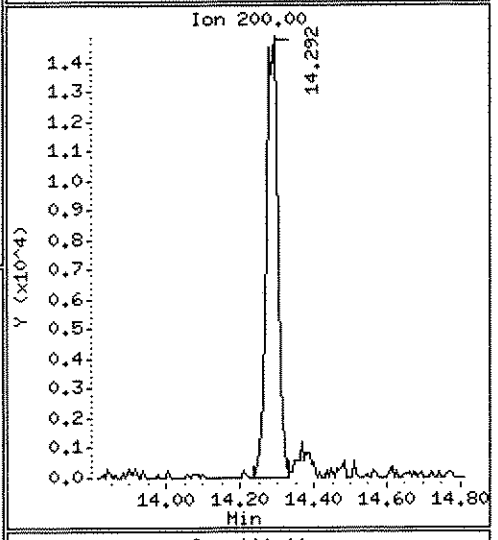


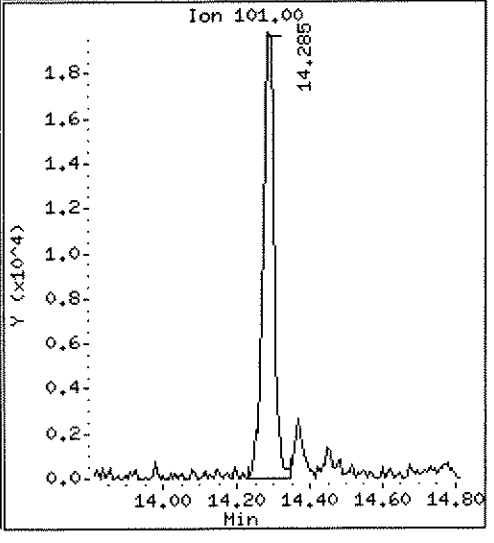












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

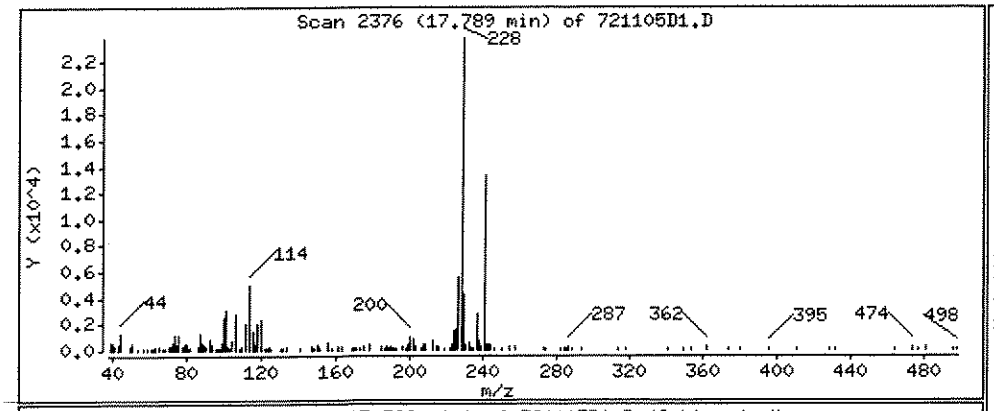
Client ID: 51CFM11S060725 Instrument: bna1.i

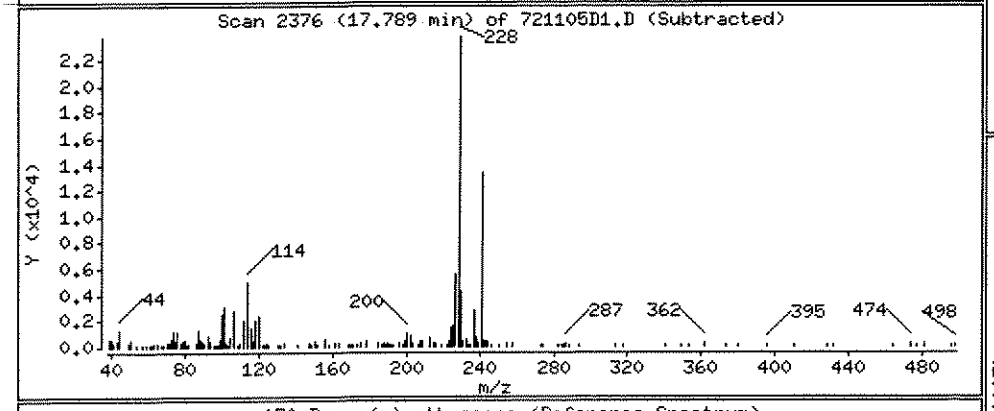
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

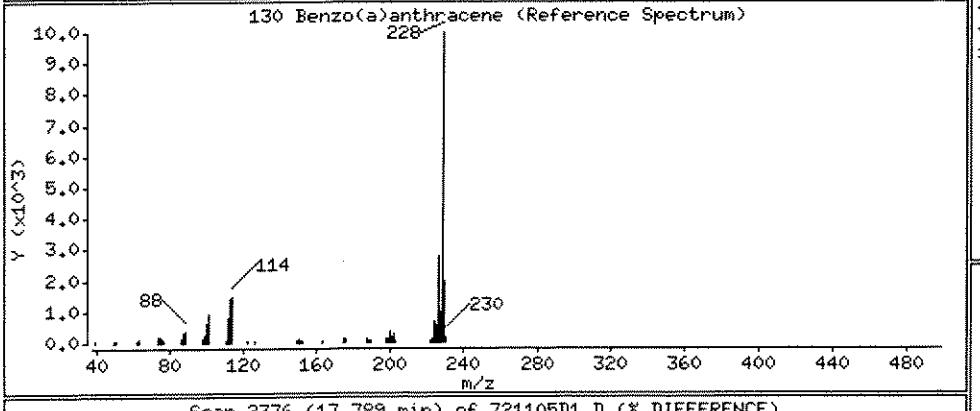
Volume Injected (uL): 0.5 Operator: SDB

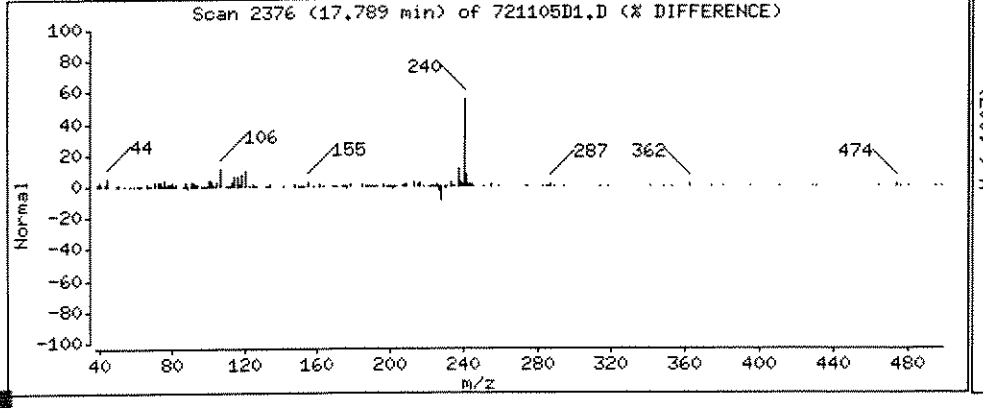
Column phase: fused silica Column diameter: 0.25

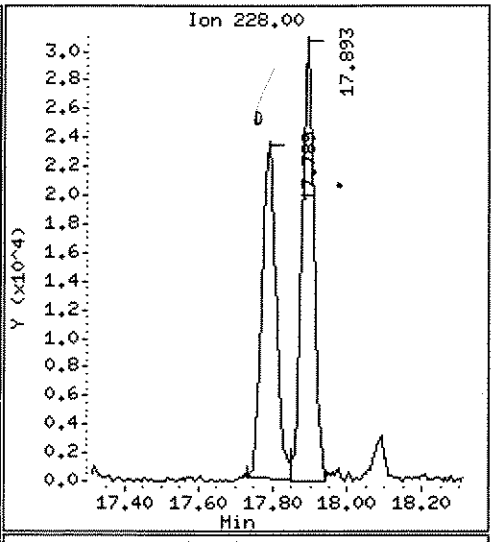
130 Benzo(a)anthracene Concentration: 27850 UG/KG

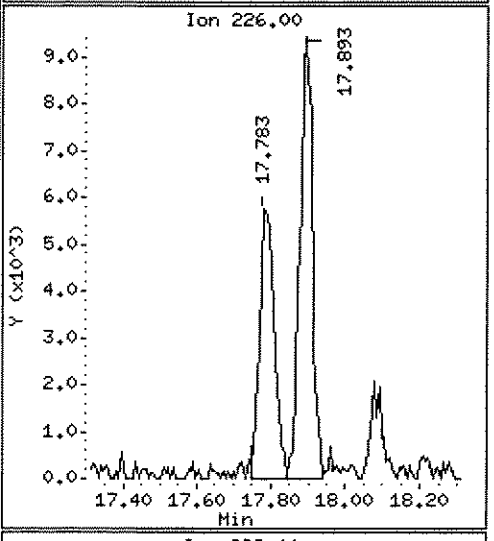


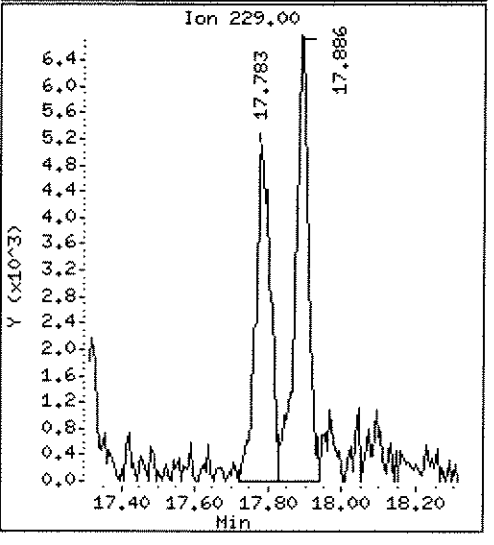












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

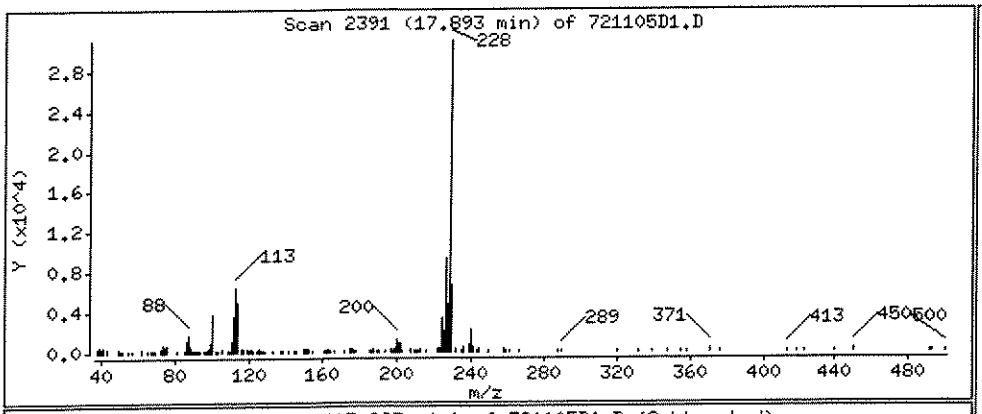
Client ID: 51CFM11S060725 Instrument: bna1.i

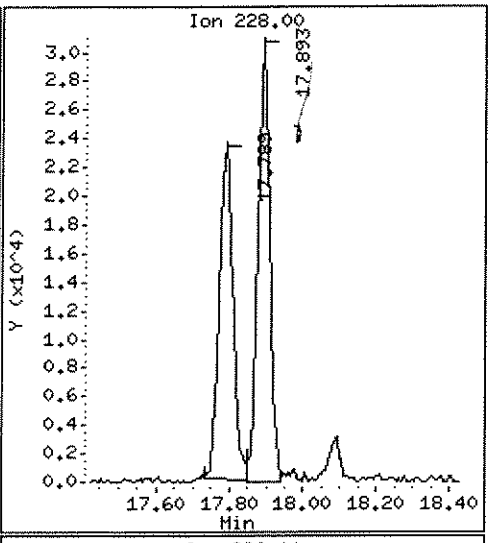
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

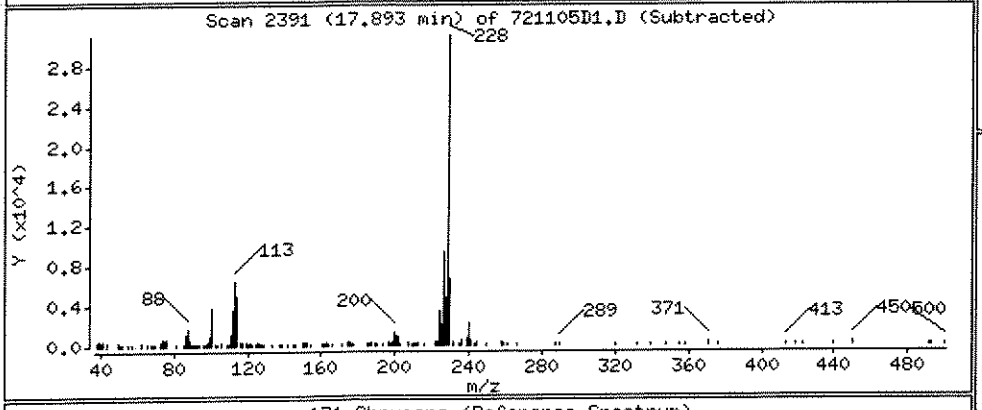
Volume Injected (uL): 0.5 Operator: SDB

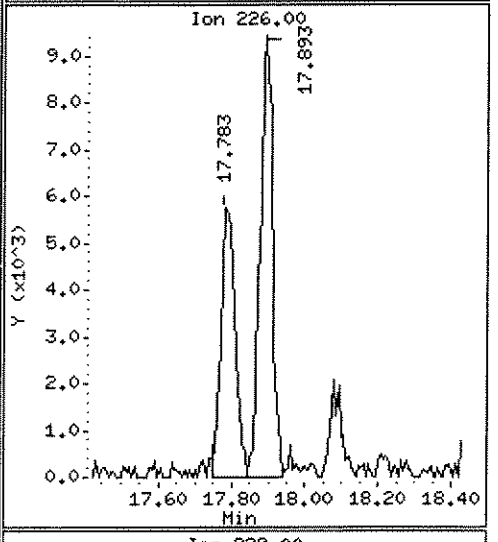
Column phase: fused silica Column diameter: 0.25

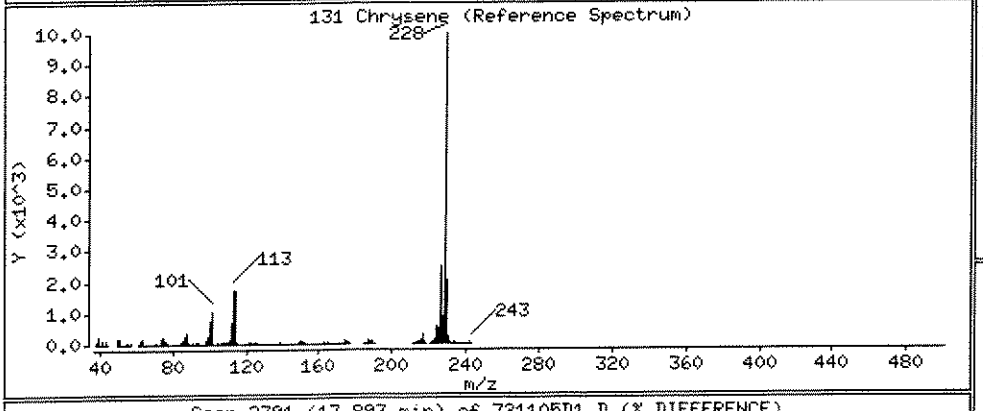
131 Chrysene Concentration: 34160 UG/KG

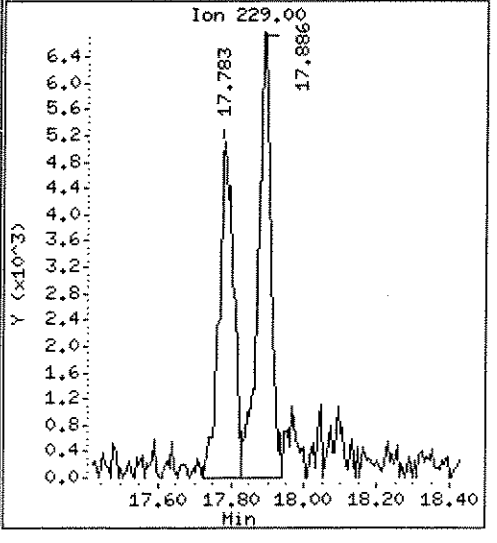


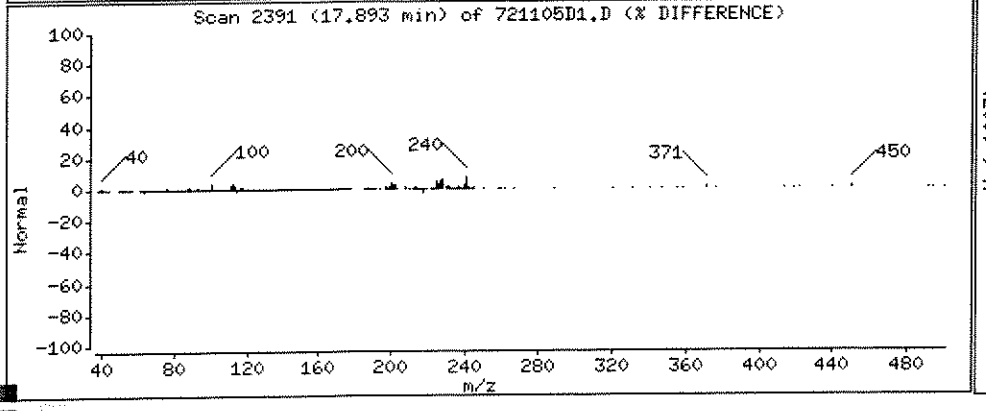












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

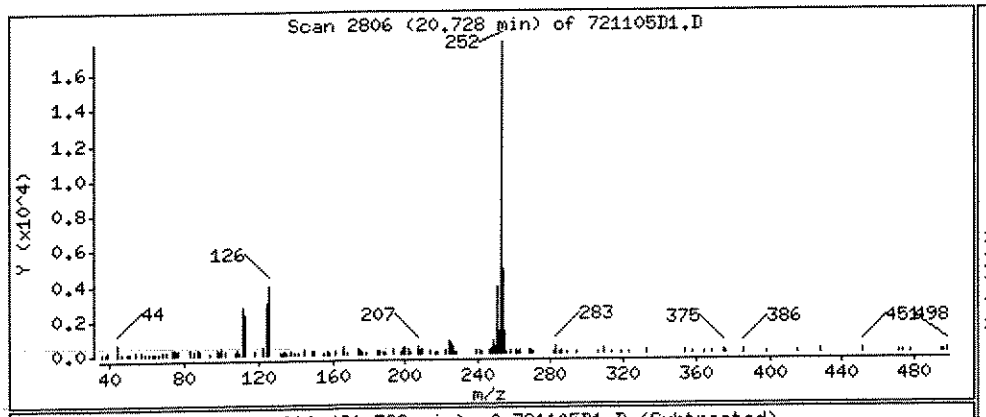
Operator: SDB

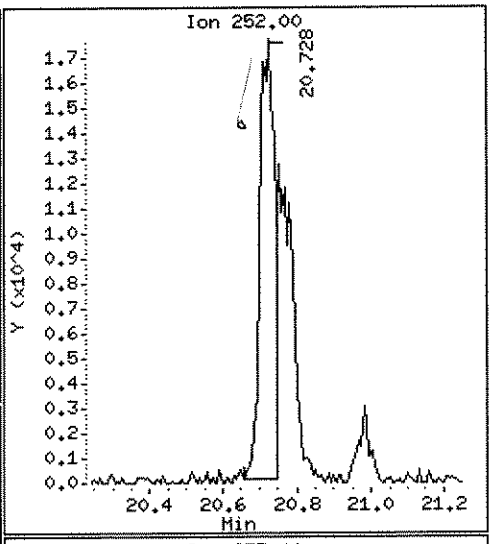
Column phase: fused silica

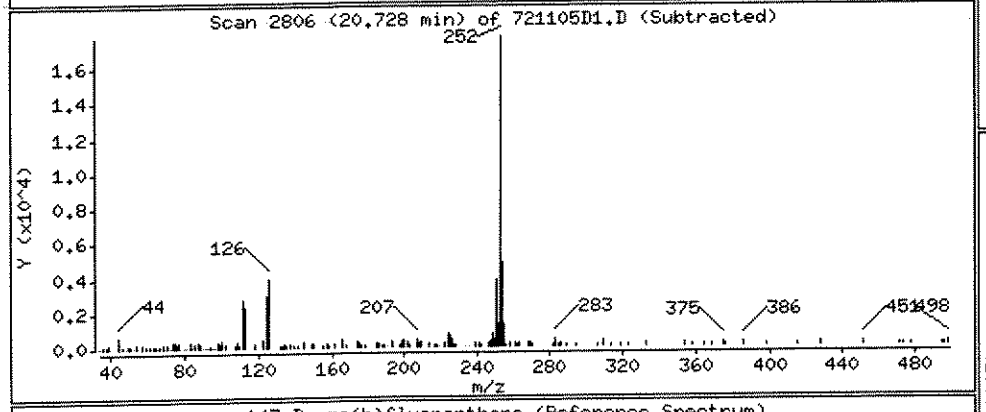
Column diameter: 0.25

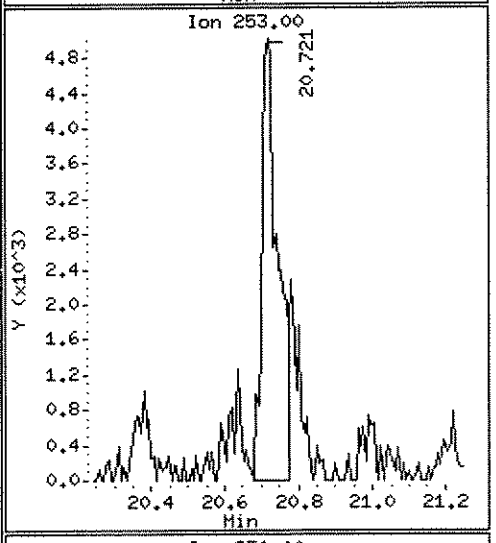
147 Benzo(b)fluoranthene

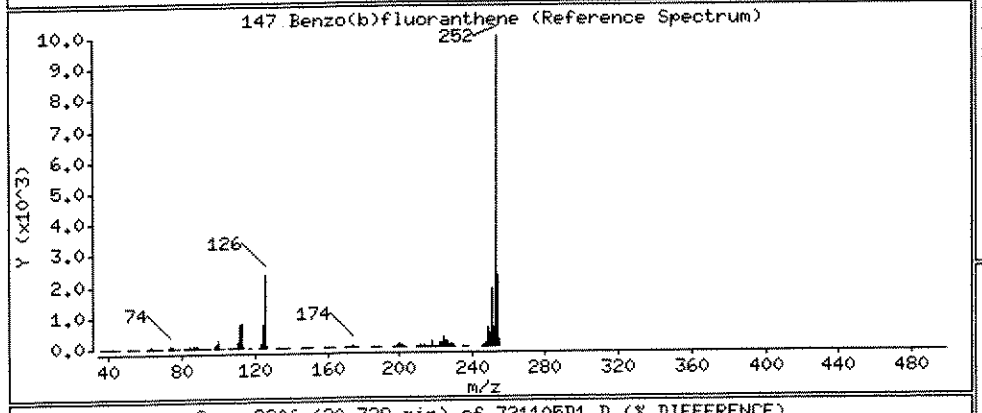
Concentration: 41170 UG/KG

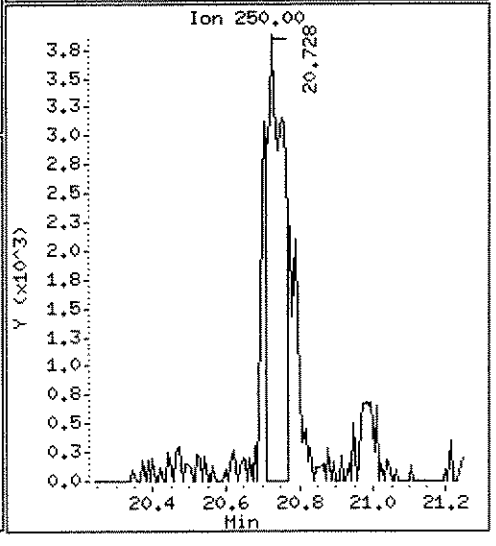


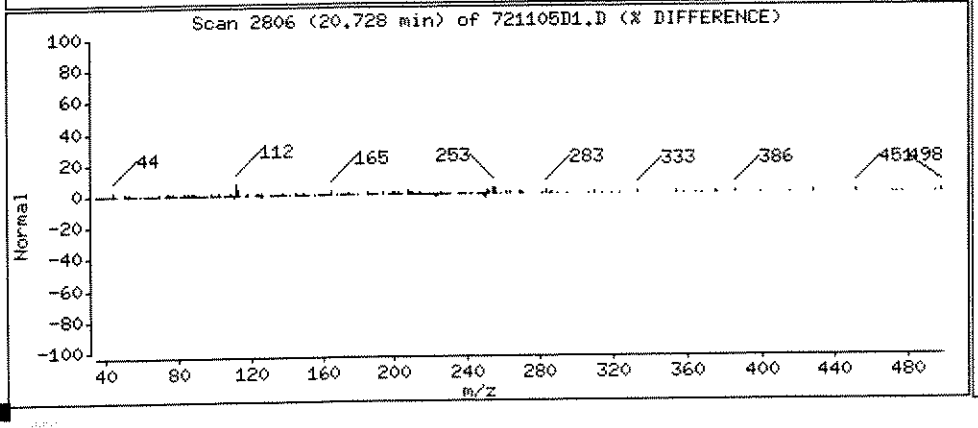












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

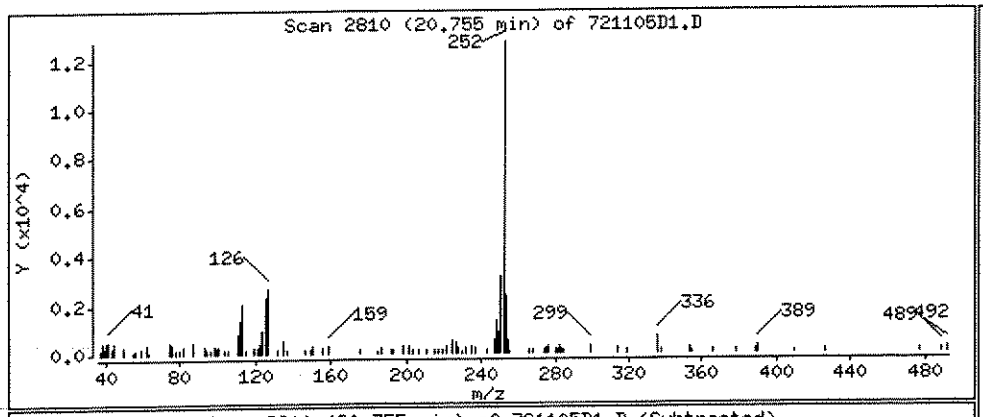
Operator: SDB

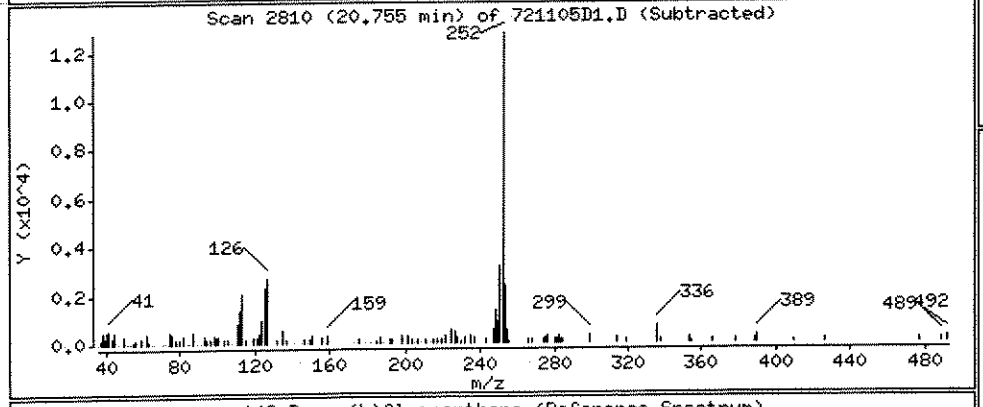
Column phase: fused silica

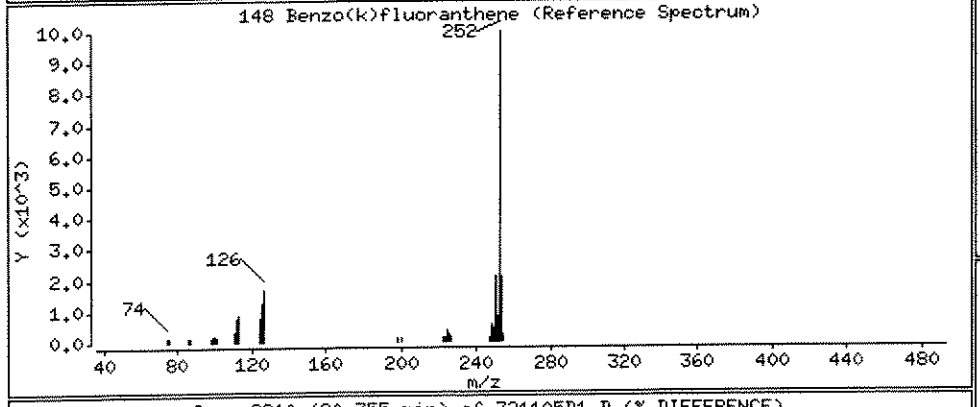
Column diameter: 0.25

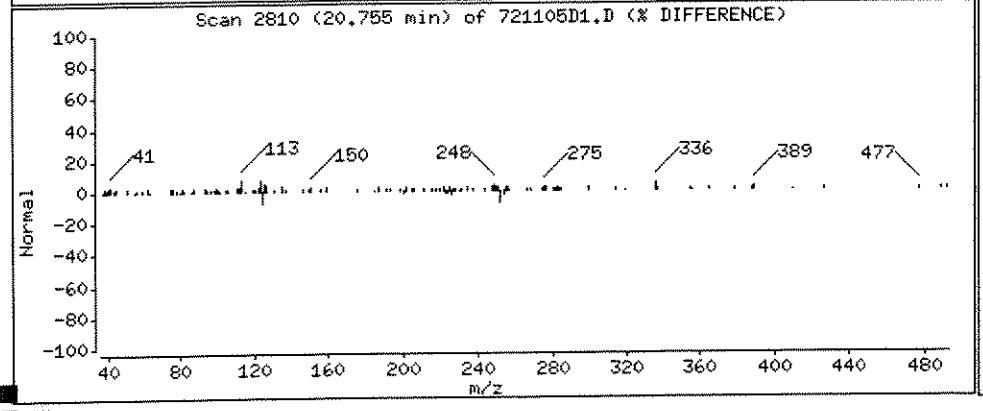
148 Benzo(k)fluoranthene

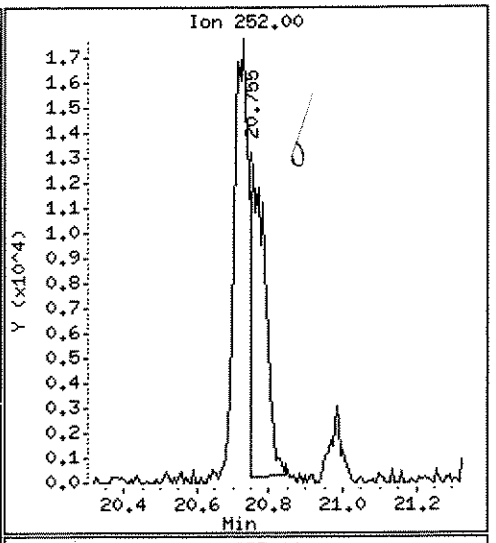
Concentration: 29100 UG/KG

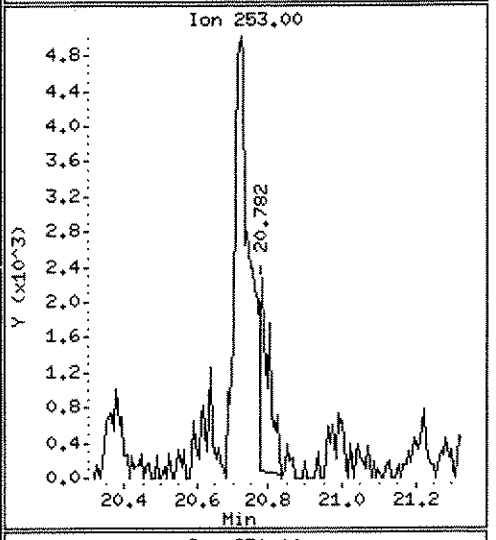


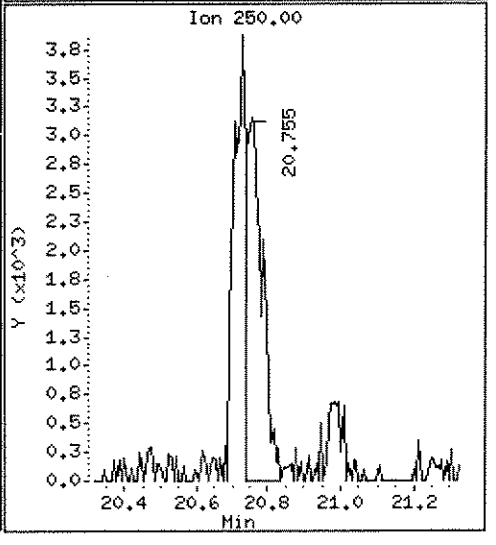












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

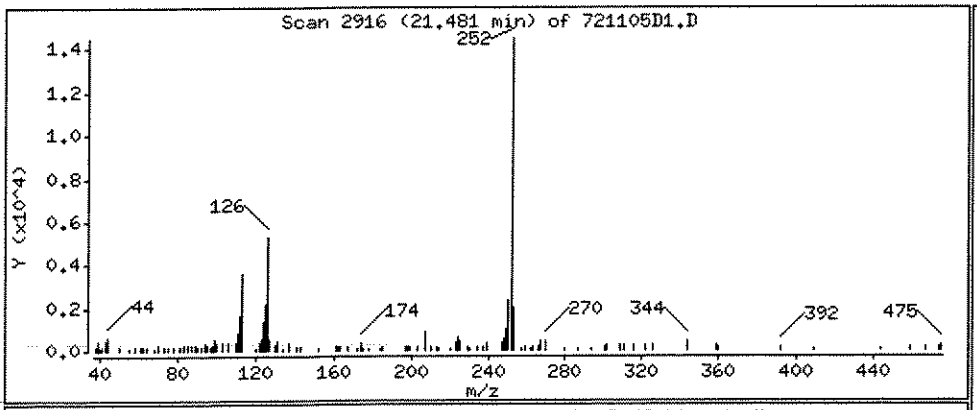
Client ID: 51CFM11S060725 Instrument: bna1.i

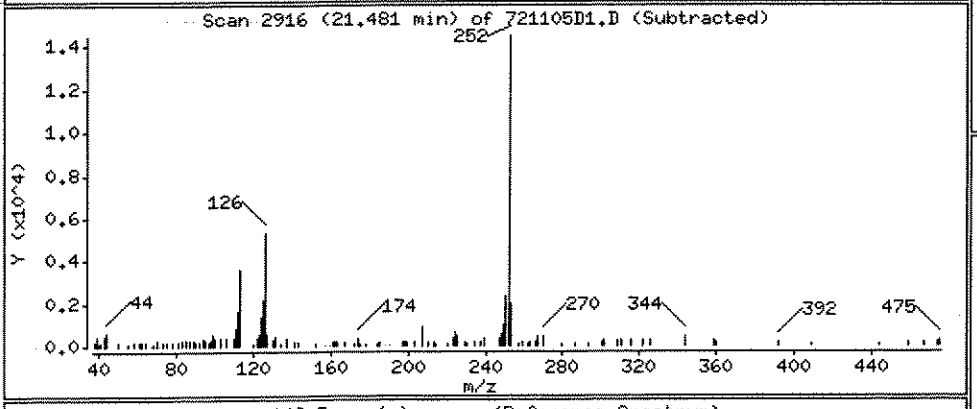
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

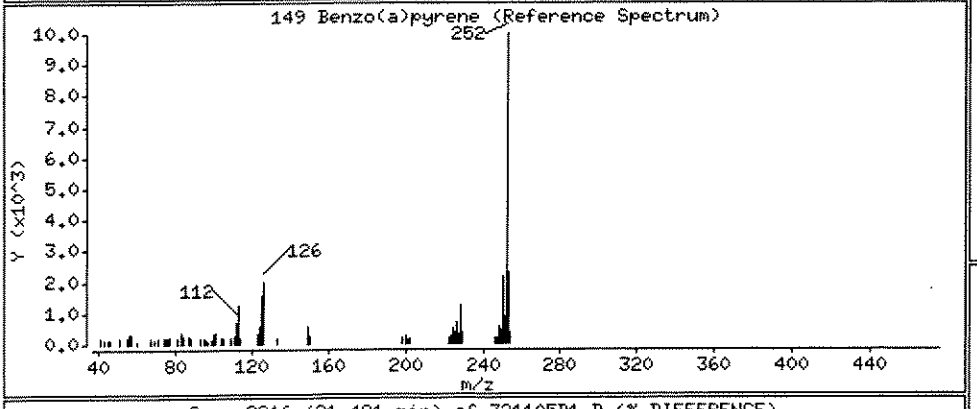
Volume Injected (uL): 0.5 Operator: SDB

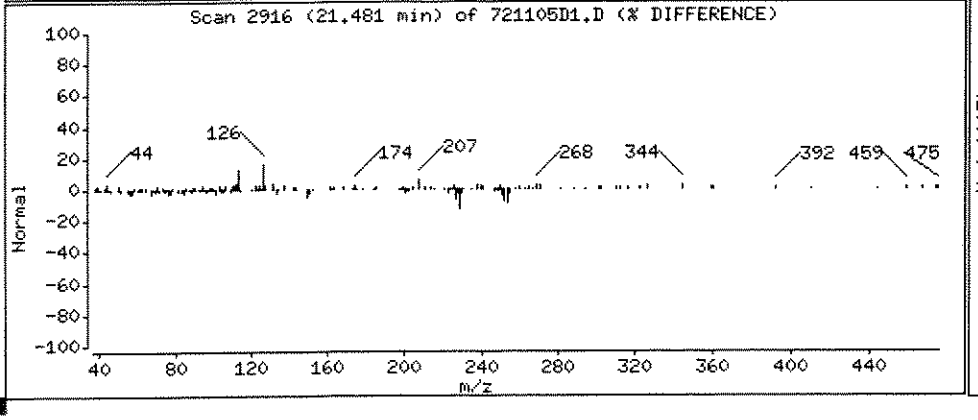
Column phase: fused silica Column diameter: 0.25

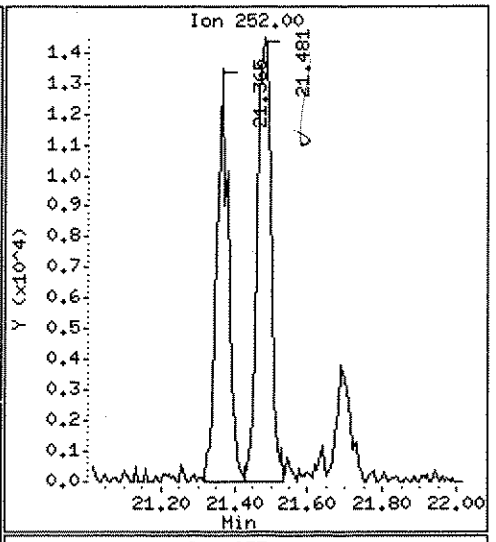
149 Benzo(a)pyrene Concentration: 37210 UG/KG

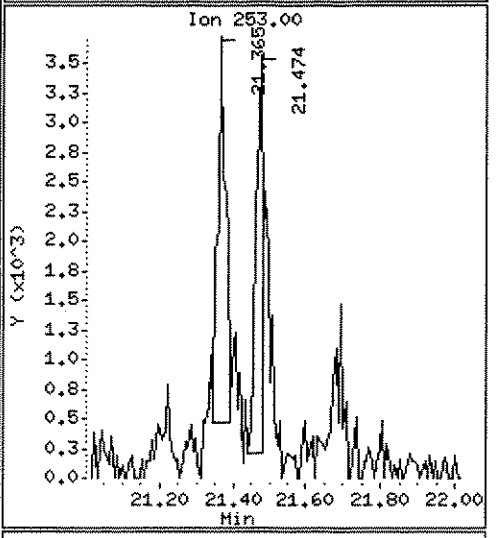


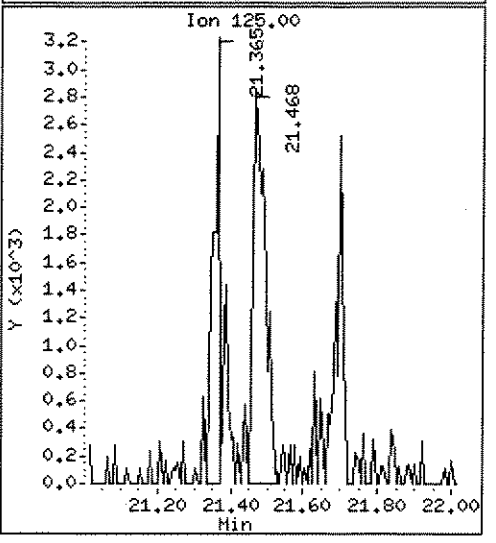












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

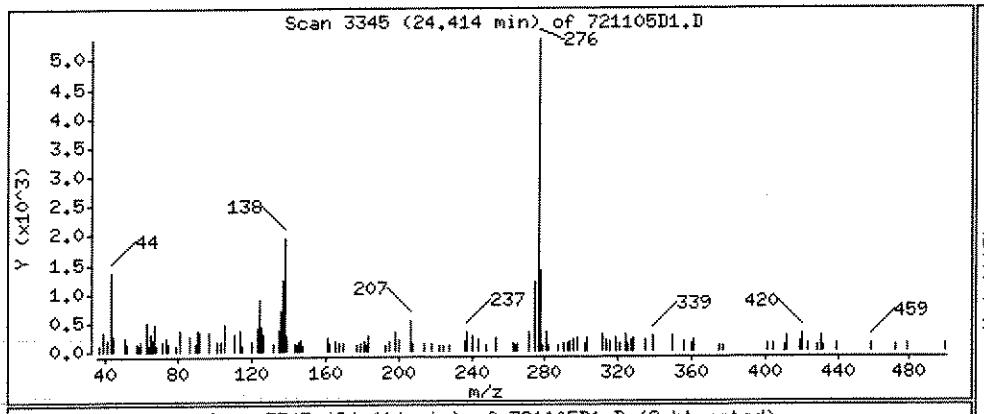
Client ID: 51CFM11S060725 Instrument: bna1.i

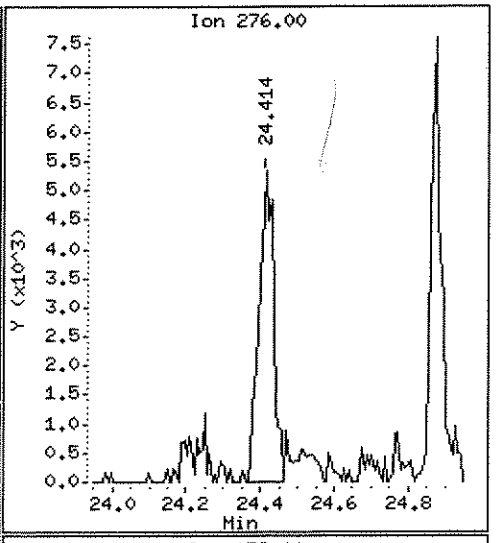
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

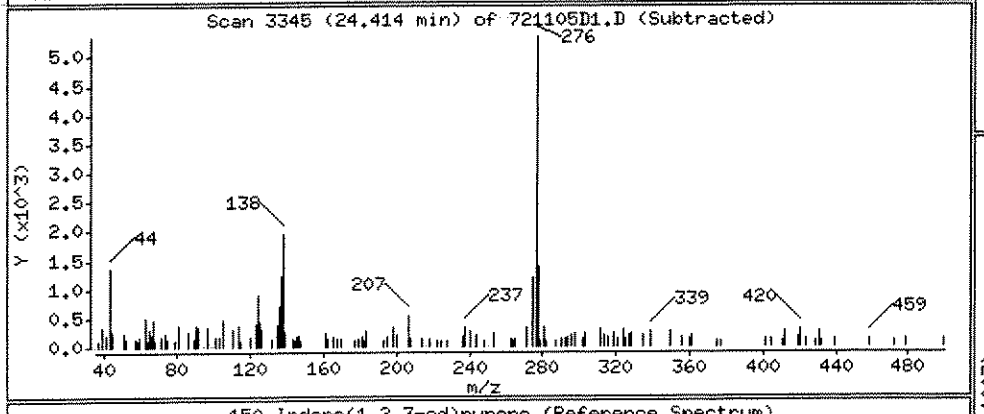
Volume Injected (uL): 0.5 Operator: SDB

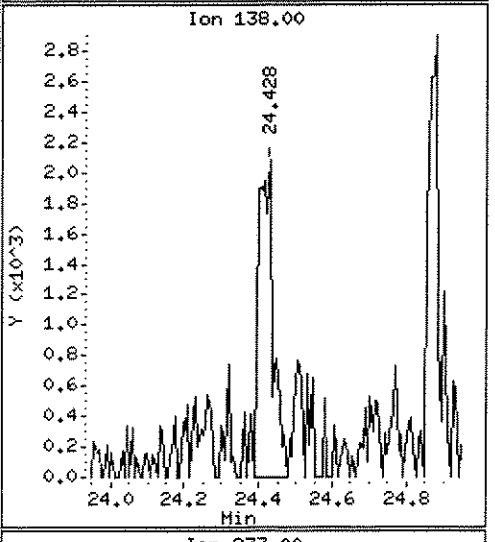
Column phase: fused silica Column diameter: 0.25

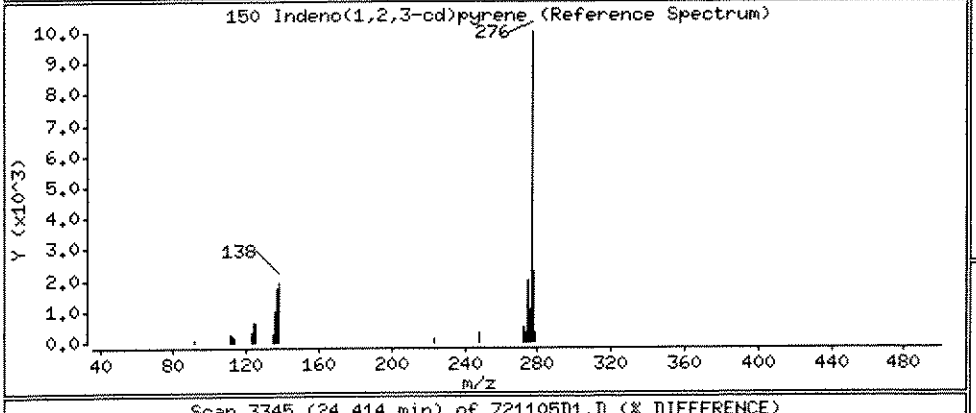
150 Indeno(1,2,3-cd)pyrene Concentration: 16240 UG/KG

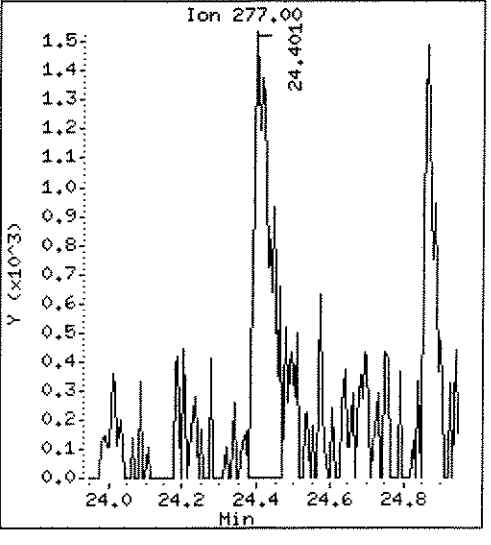


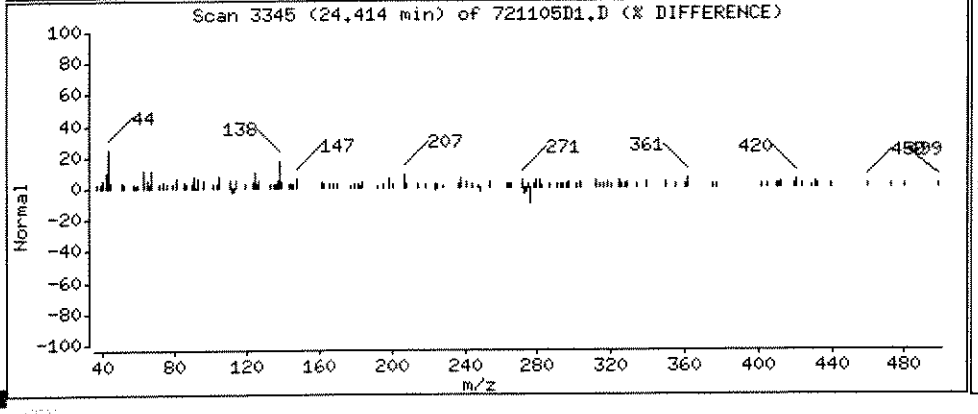












Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

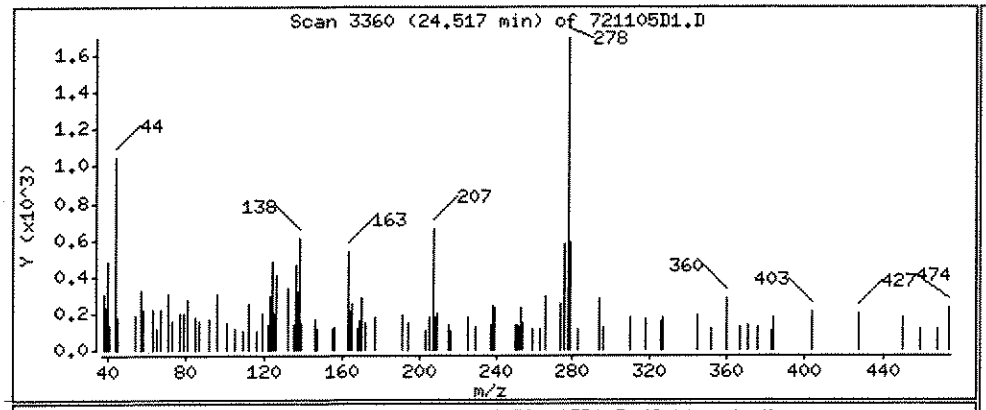
Client ID: 51CFM11S060725 Instrument: bna1.i

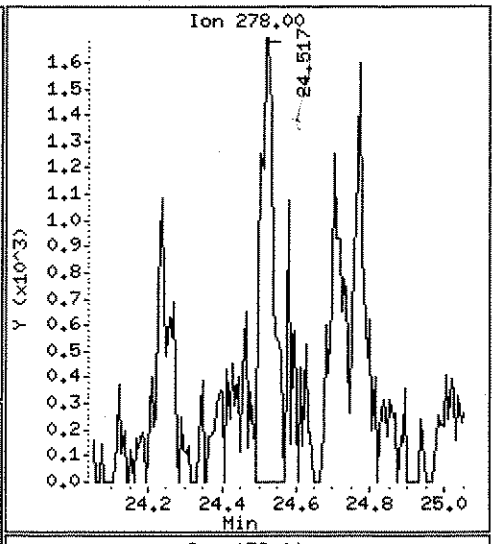
Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

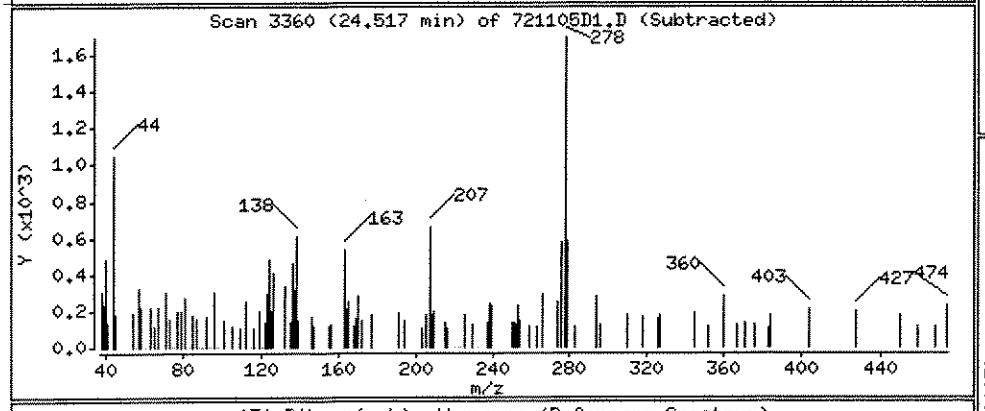
Volume Injected (uL): 0.5 Operator: SDB

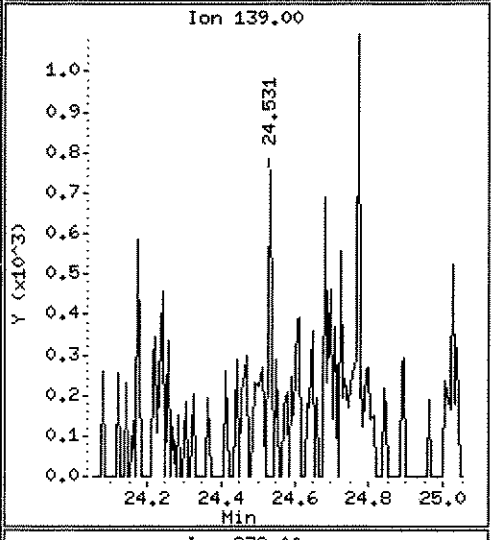
Column phase: fused silica Column diameter: 0.25

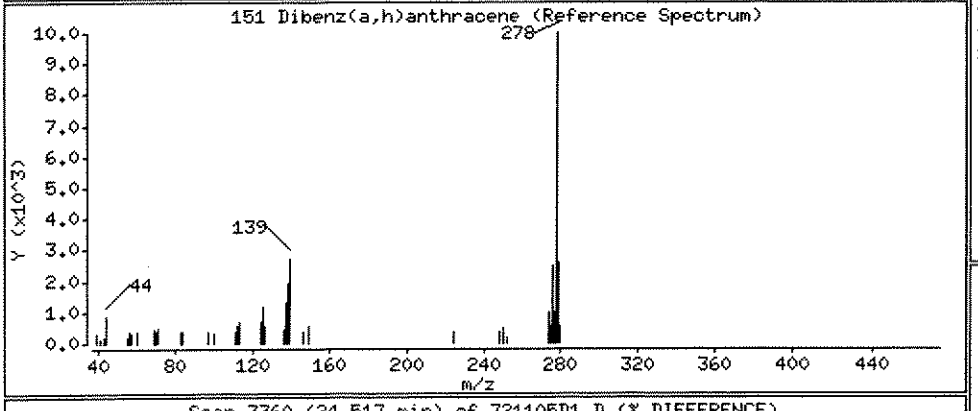
151 Dibenz(a,h)anthracene Concentration: 4943 UG/KG

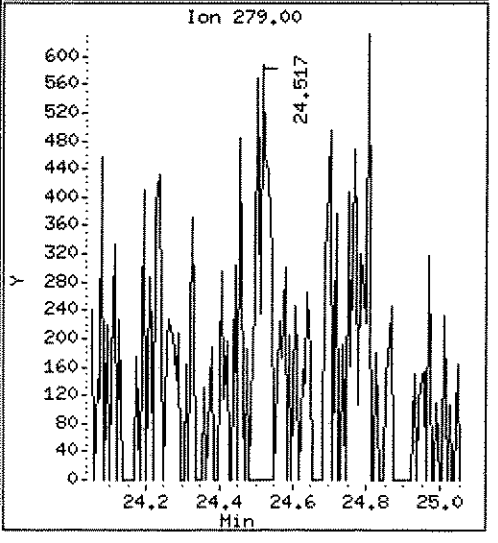


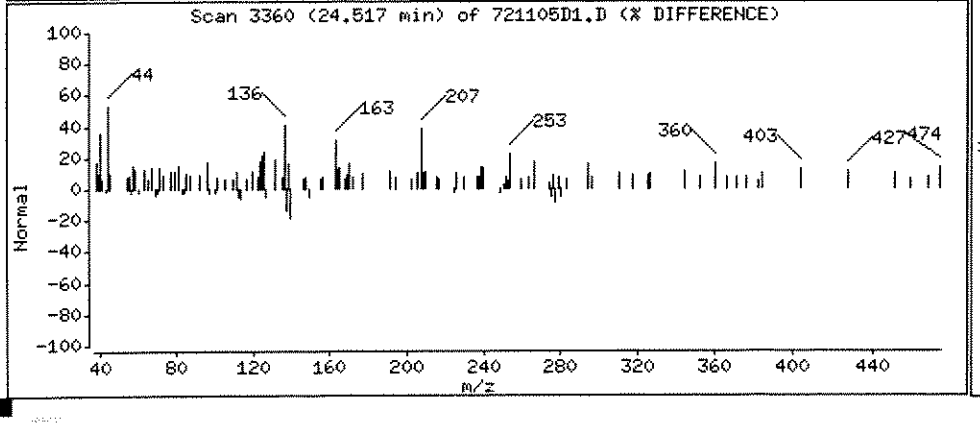












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\721105D1.D

Date : 27-JUL-2006 15:03

Client ID: 51CFM11S060725

Instrument: bna1.i

Sample Info: 0607211-05;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

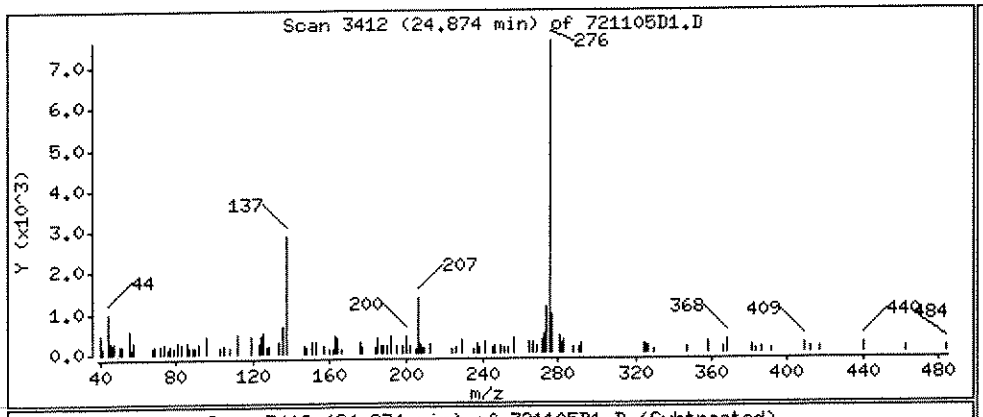
Operator: SDB

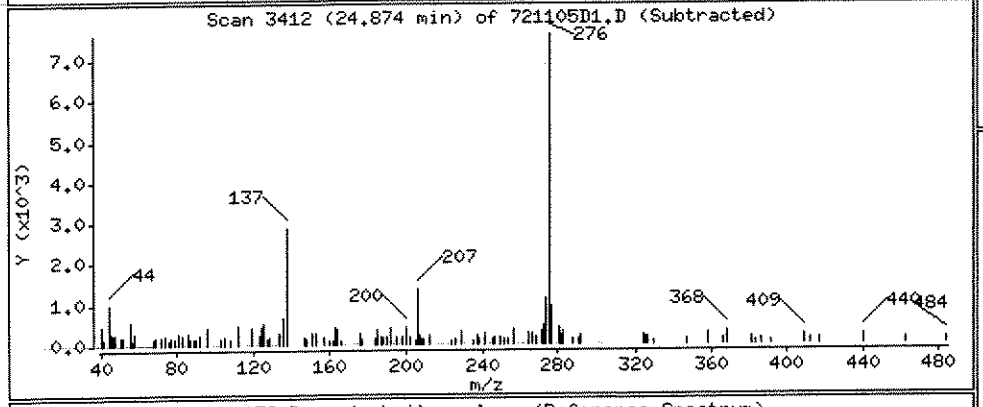
Column phase: fused silica

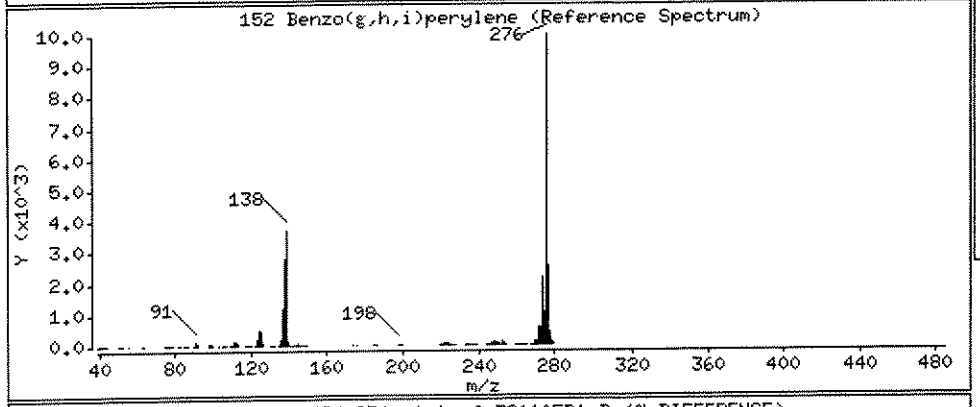
Column diameter: 0.25

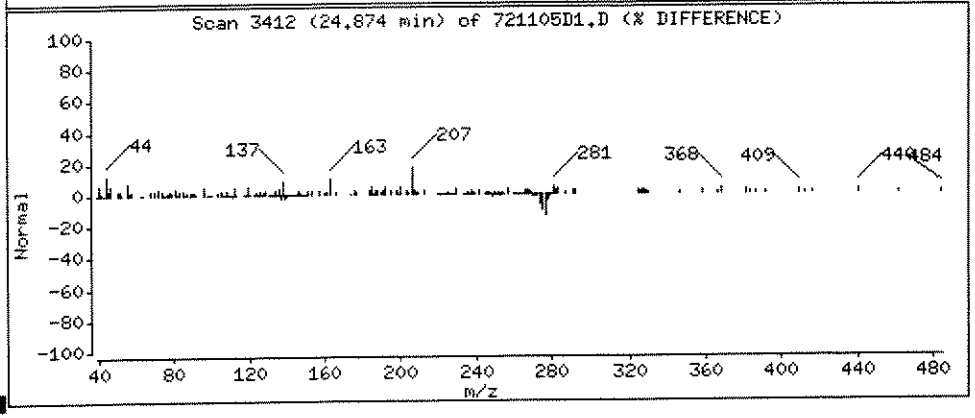
152 Benzo(g,h,i)perylene

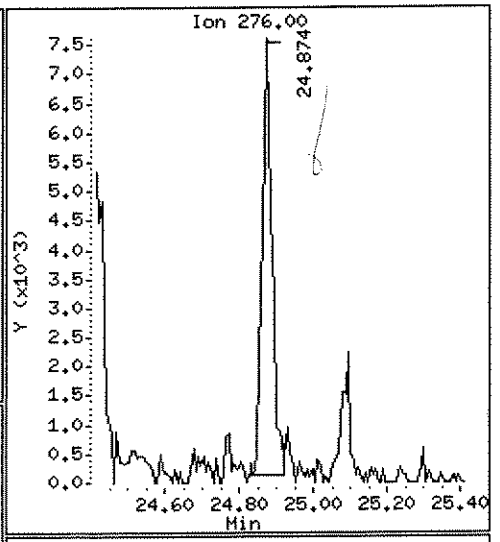
Concentration: 15190 UG/KG

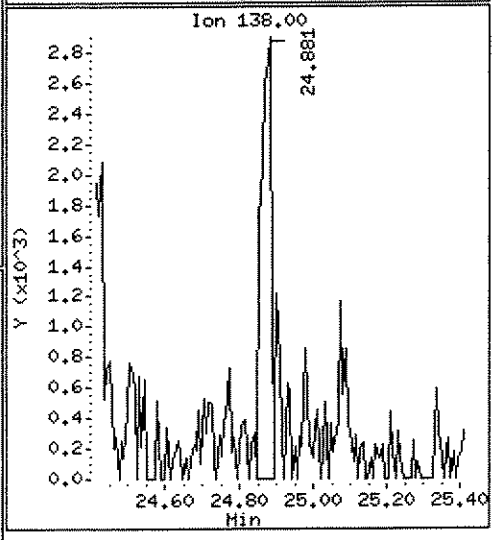












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721106

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 18:37

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180		U
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180		U
56-55-3	Benzo(a)anthracene	21	180	110	J
205-99-2	Benzo(b)fluoranthene	21	180	260	
207-08-9	Benzo(k)fluoranthene	21	180	140	J
191-24-2	Benzo(g,h,i)perylene	21	180	62	J
50-32-8	Benzo(a)pyrene	21	100	180	
218-01-9	Chrysene	21	180	180	
53-70-3	Dibenz(a,h)anthracene	21	100		U
206-44-0	Fluoranthene	21	180	120	J
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	82	J
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	33	J
129-00-0	Pyrene	21	180	130	J

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D
Lab Smp Id: 0607211-06 Client Smp ID: 51CFM12S060725
Inj Date : 26-JUL-2006 18:37
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-06;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	93.400	Percent Solids

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	522957	40.0000	
*	31 Naphthalene-d8	136	5.090	5.088	(1.000)	1684164	40.0000	
$	32 Nitrobenzene-d5	82	4.548	4.553	(0.893)	487007	26.4897	932.9
*	65 Acenaphthene-d10	164	7.384	7.382	(1.000)	927959	40.0000	
$	70 2-Fluorobiphenyl	172	6.340	6.345	(0.859)	811569	27.4823	967.9
*	97 Phenanthrene-d10	188	10.593	10.583	(1.000)	1159119	40.0000	
	106 Phenanthrene	178	10.634	10.645	(1.004)	30688	0.92856	32.70(a)
	110 Fluoranthene	202	13.816	13.814	(1.304)	111125	3.39626	119.6(a)
*	124 Chrysene-d12	240	17.957	17.933	(1.000)	819096	40.0000	
	126 Pyrene	202	14.388	14.390	(0.801)	123249	3.76772	132.7(a)
$	127 Terphenyl-d14	244	15.201	15.177	(0.846)	831577	40.2053	1416
	130 Benzo(a)anthracene	228	17.908	17.885	(0.997)	79618	3.01682	106.2(a)
	131 Chrysene	228	18.013	18.002	(1.003)	126705	5.25647	185.1

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D
Report Date: 27-Jul-2006 09:06

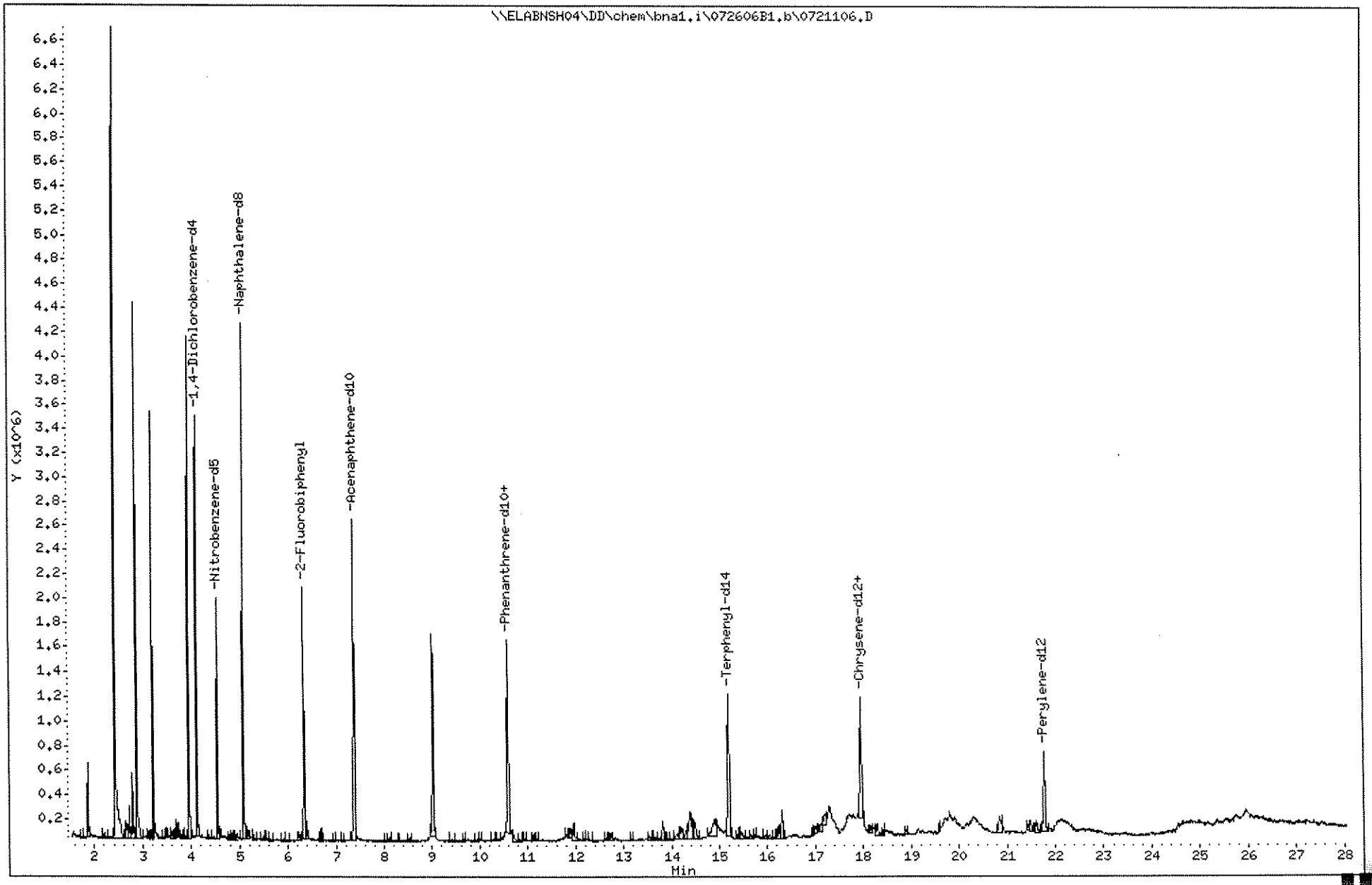
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	21.781	21.736	(1.000)	565044	40.0000	
147 Benzo(b)fluoranthene	252	20.849	20.823	(0.957)	127863	7.34600	258.7(M)
148 Benzo(k)fluoranthene	252	20.911	20.893	(0.960)	74453	4.12286	145.2(aM)
149 Benzo(a)pyrene	252	21.608	21.584	(0.992)	75141	5.00637	176.3
150 Indeno(1,2,3-cd)pyrene	276	24.545	24.521	(1.127)	29674	2.31728	81.61(a)
152 Benzo(g,h,i)perylene	276	24.980	24.961	(1.147)	23300	1.75335	61.75(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D
Date : 26-JUL-2006 18:37
Client ID: 51CFM12S060725
Instrument: bna1.i
Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000124



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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

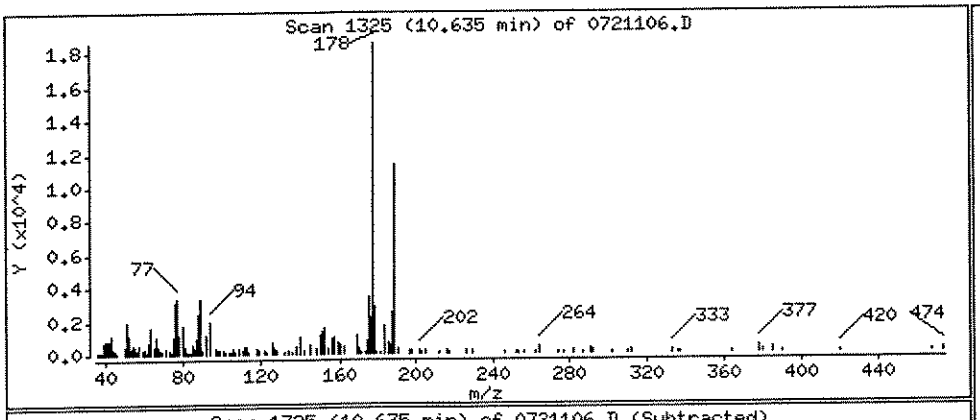
Operator: SDB

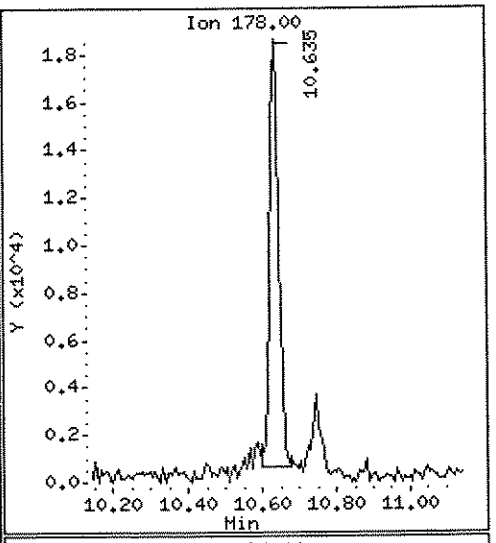
Column phase: fused silica

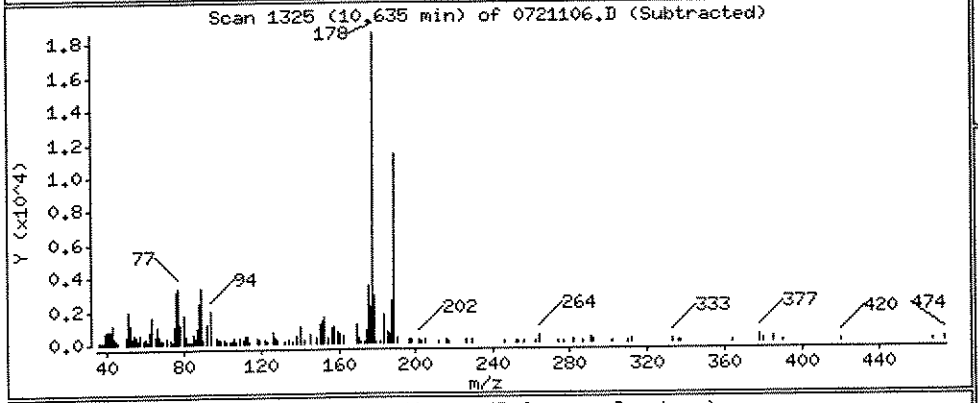
Column diameter: 0.25

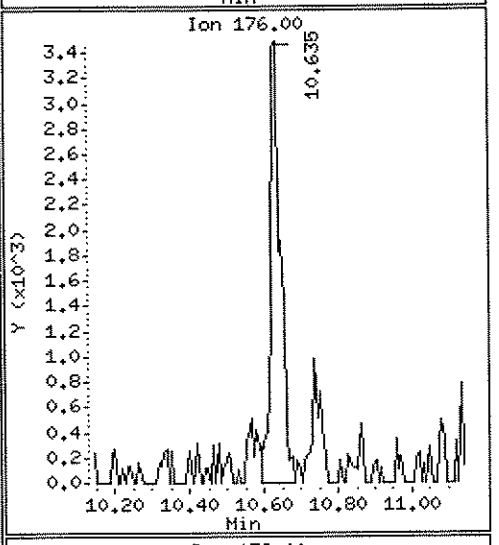
106 Phenanthrene

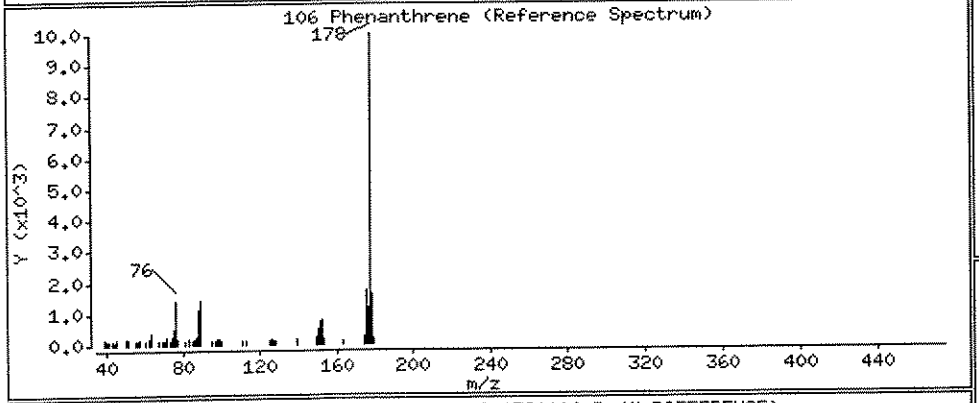
Concentration: 30.54 UG/KG

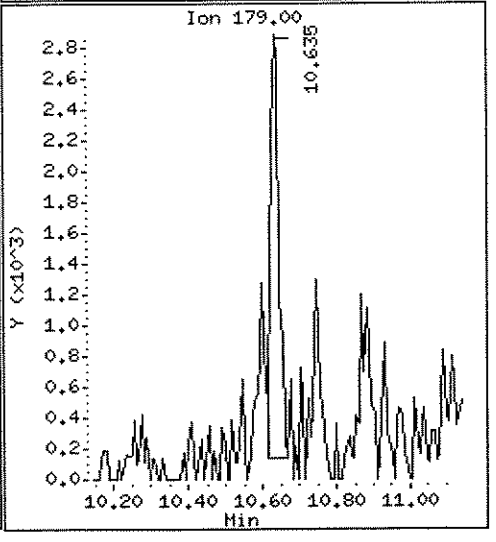


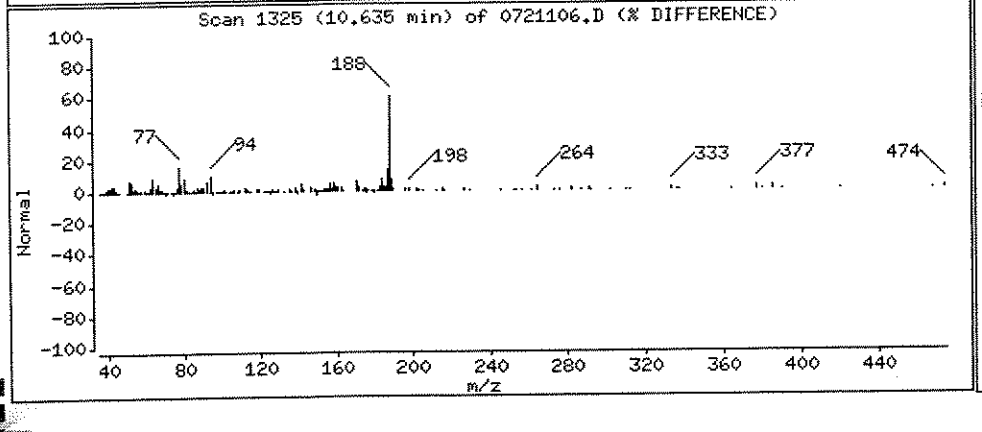












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

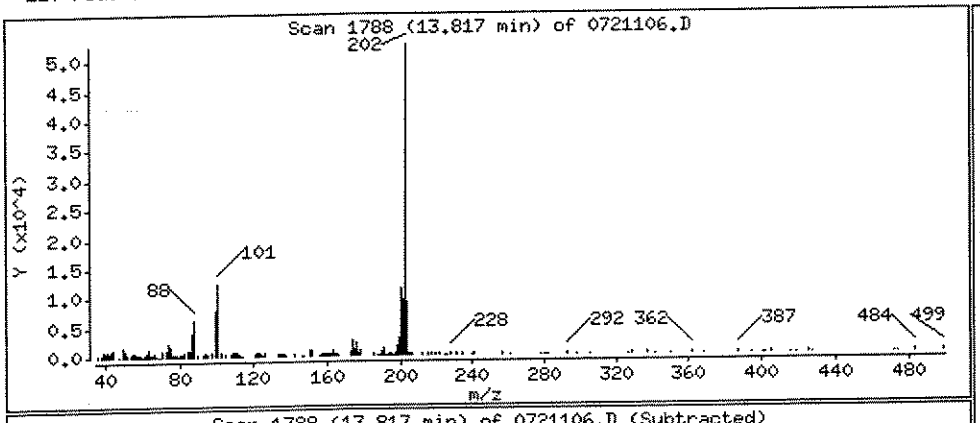
Operator: SDB

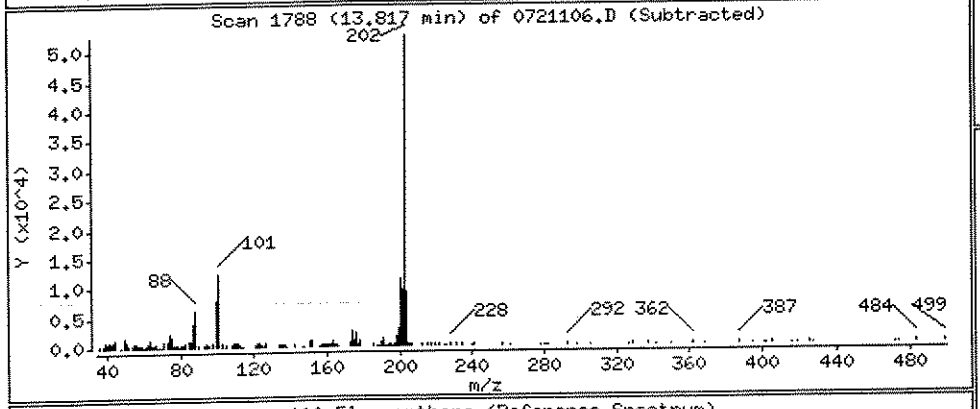
Column phase: fused silica

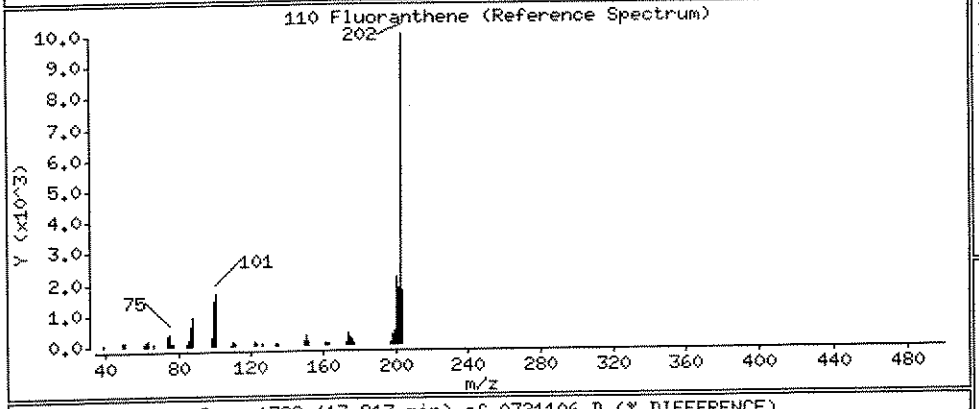
Column diameter: 0.25

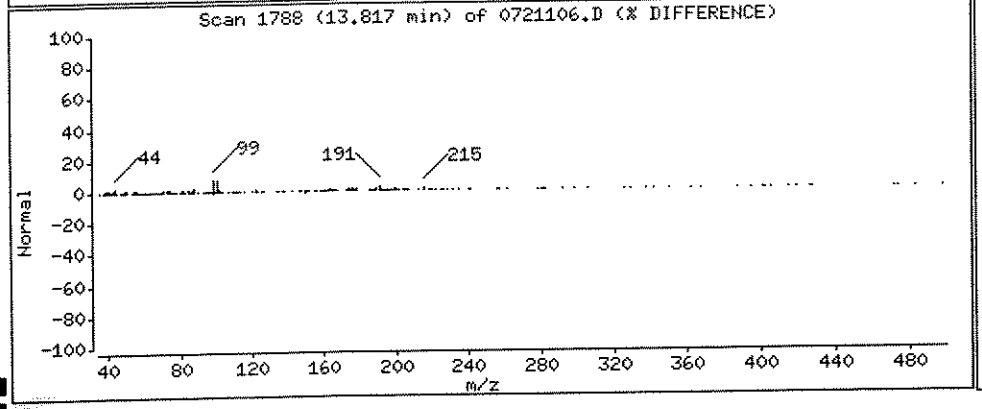
110 Fluoranthene

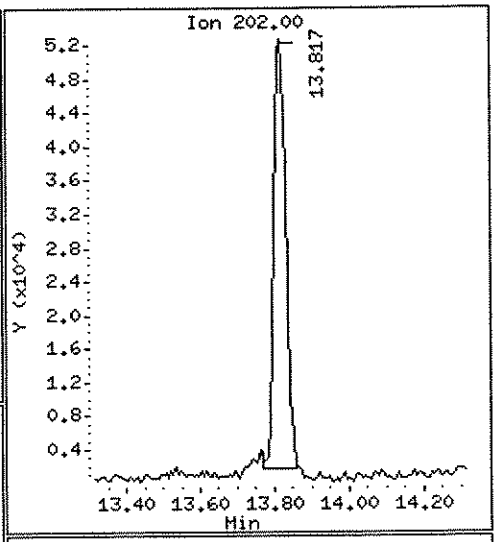
Concentration: 111.7 UG/KG

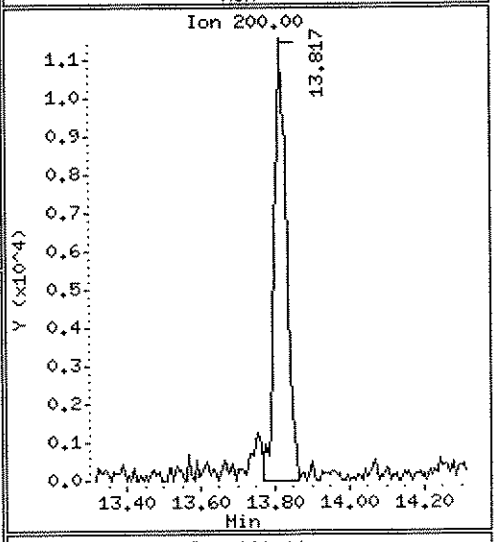


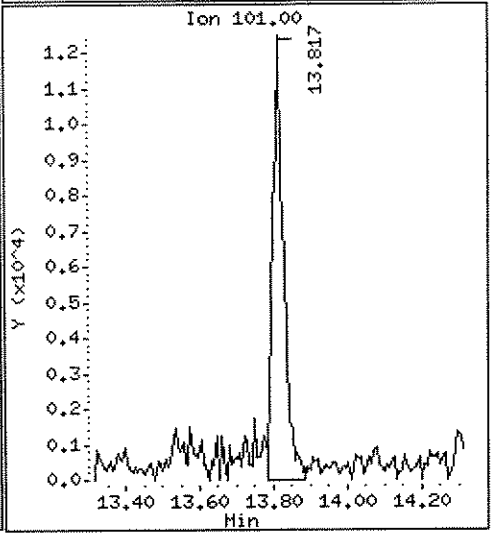












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

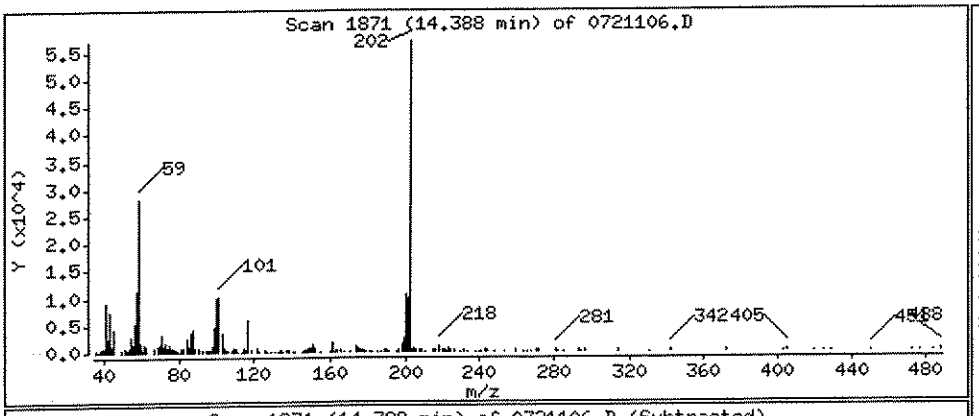
Client ID: 51CFM12S060725 Instrument: bna1.i

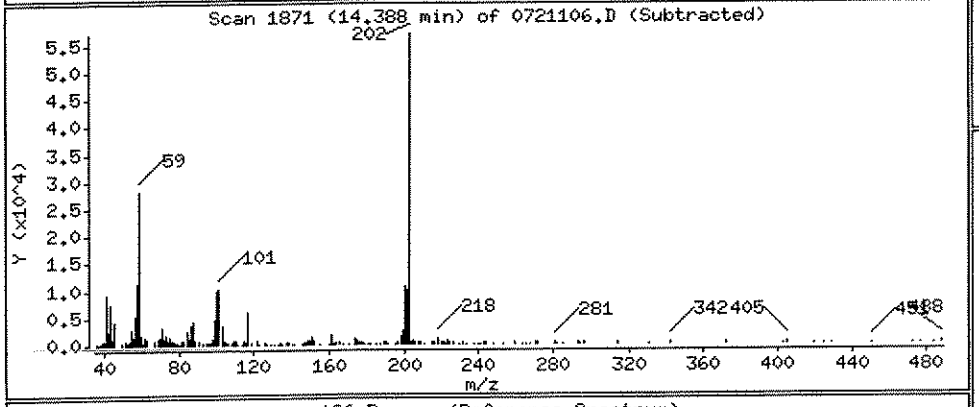
Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

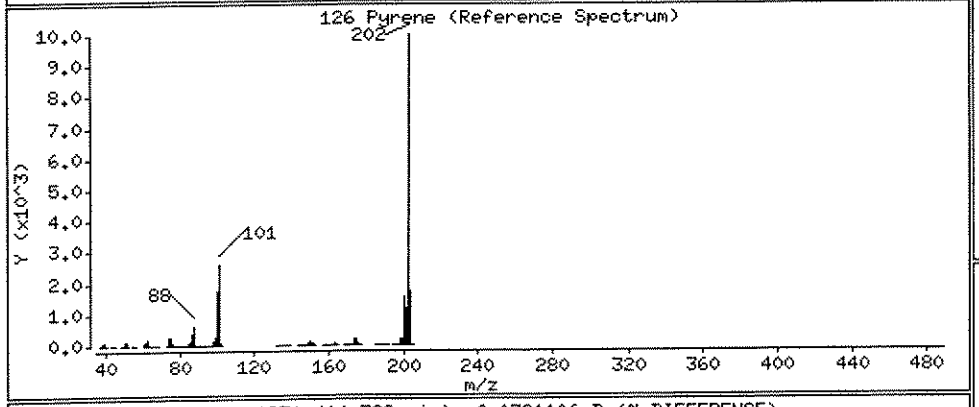
Volume Injected (uL): 0.5 Operator: SDB

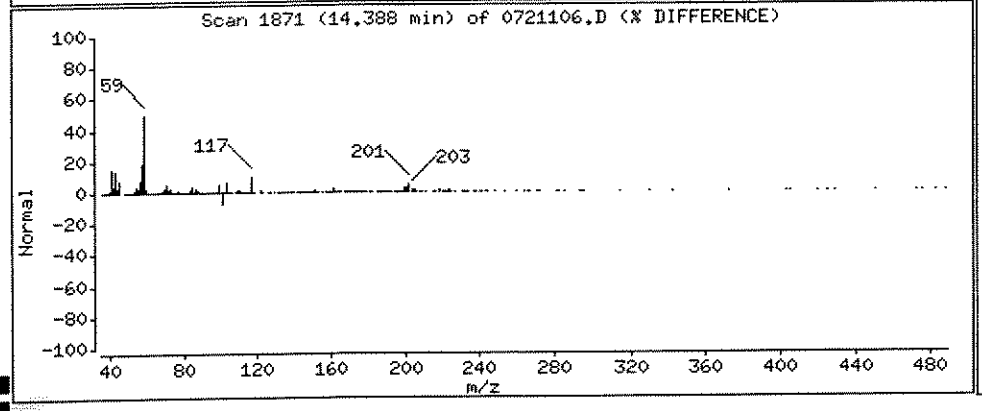
Column phase: fused silica Column diameter: 0.25

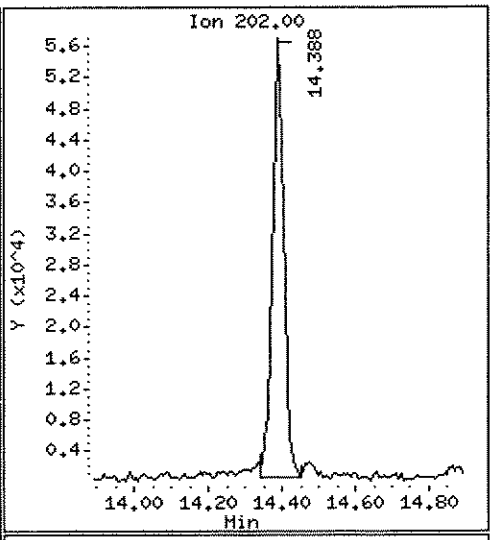
126 Pyrene Concentration: 123.9 UG/KG

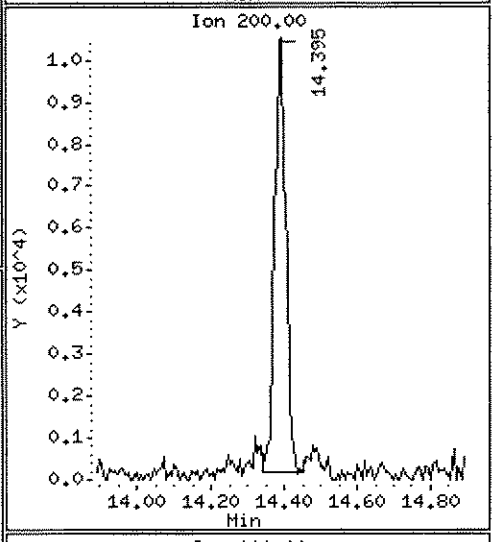


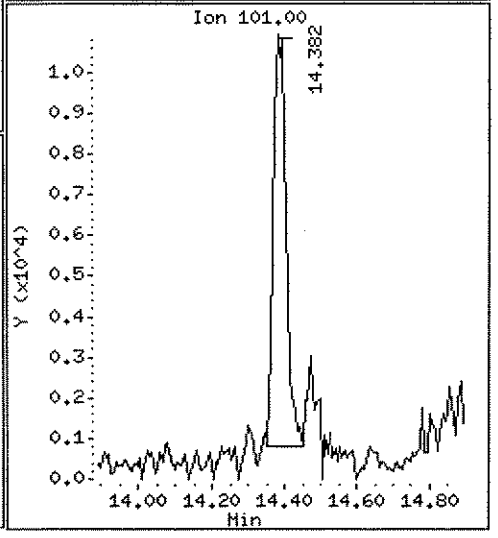












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Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

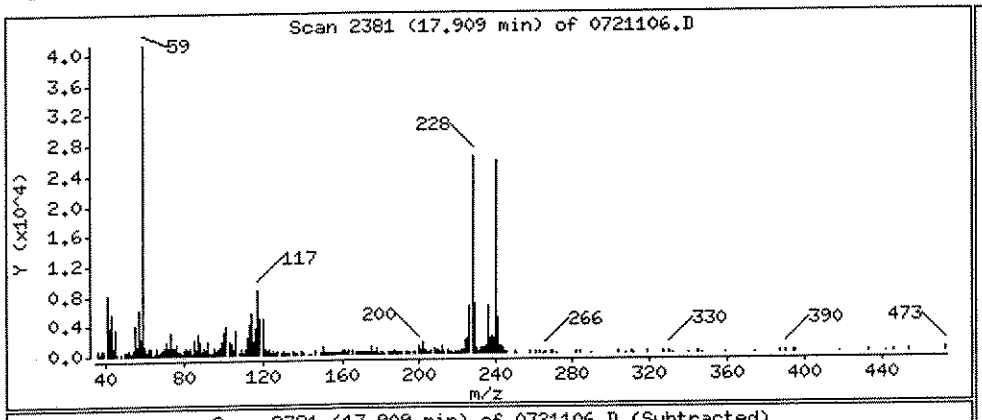
Operator: SDB

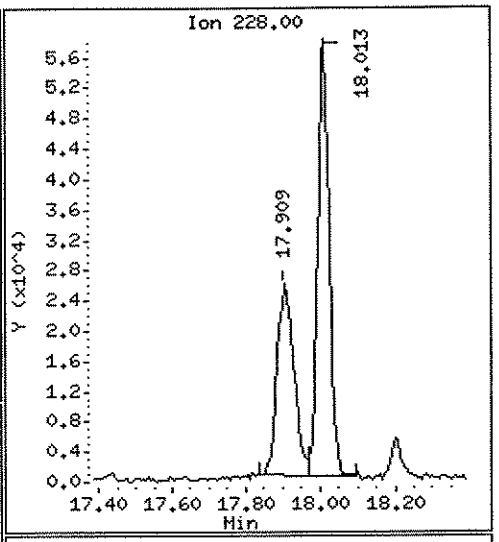
Column phase: fused silica

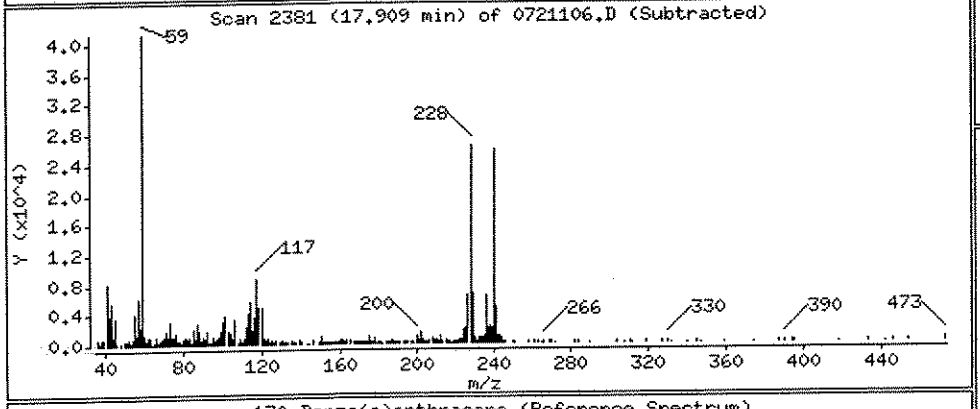
Column diameter: 0.25

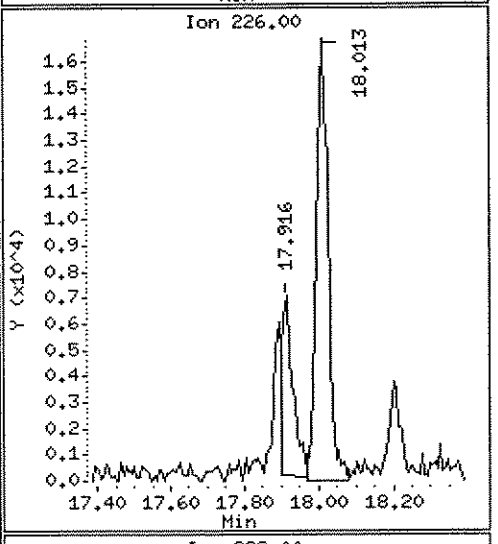
130 Benzo(a)anthracene

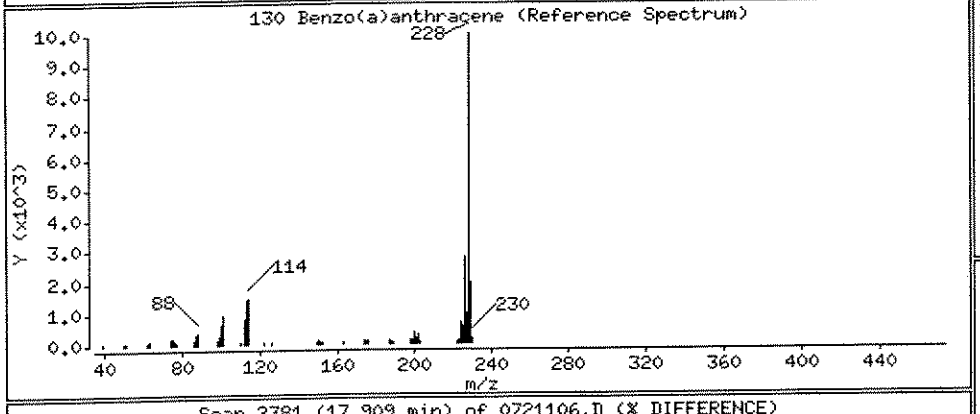
Concentration: 99.24 UG/KG

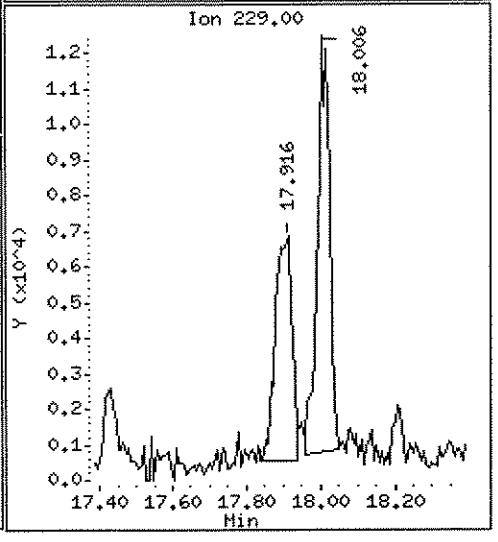


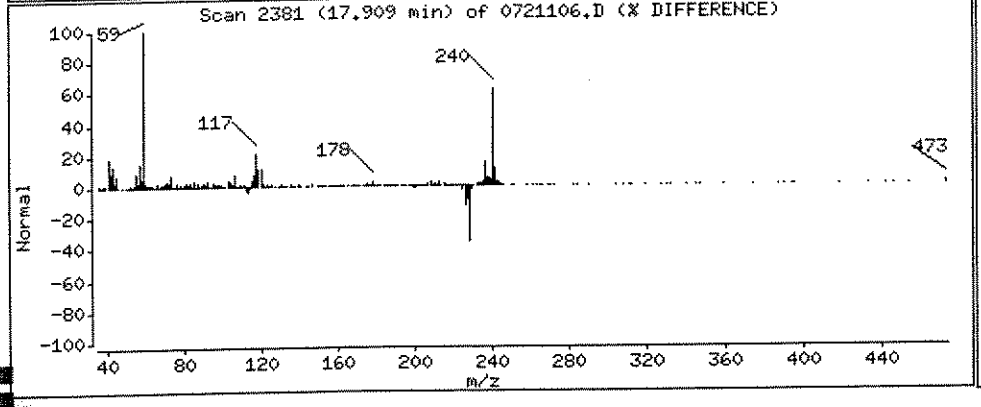












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

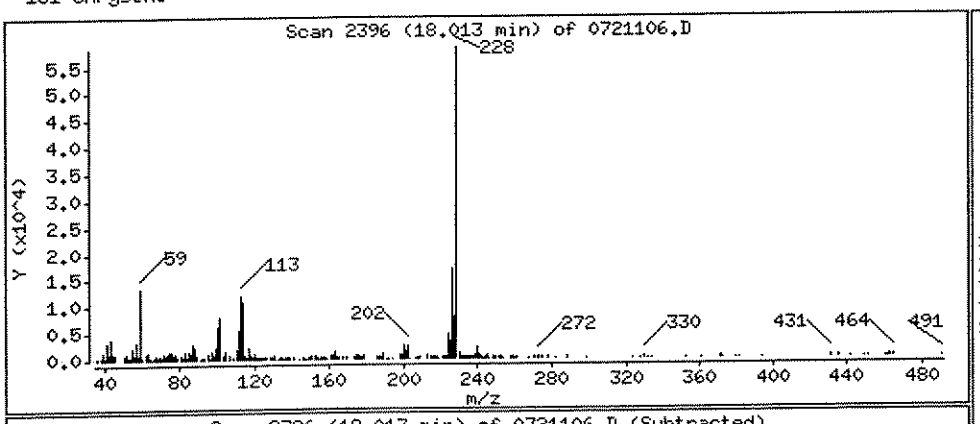
Operator: SDB

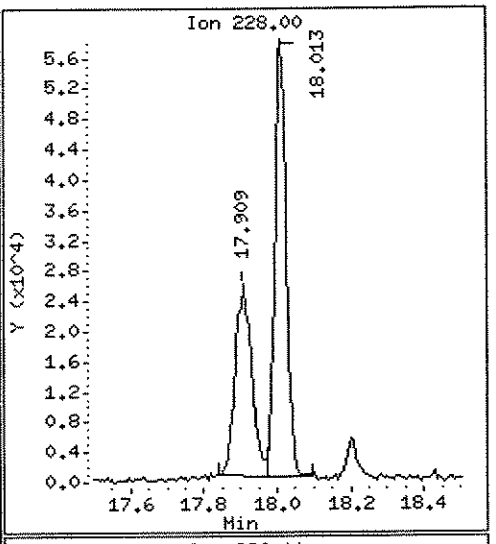
Column phase: fused silica

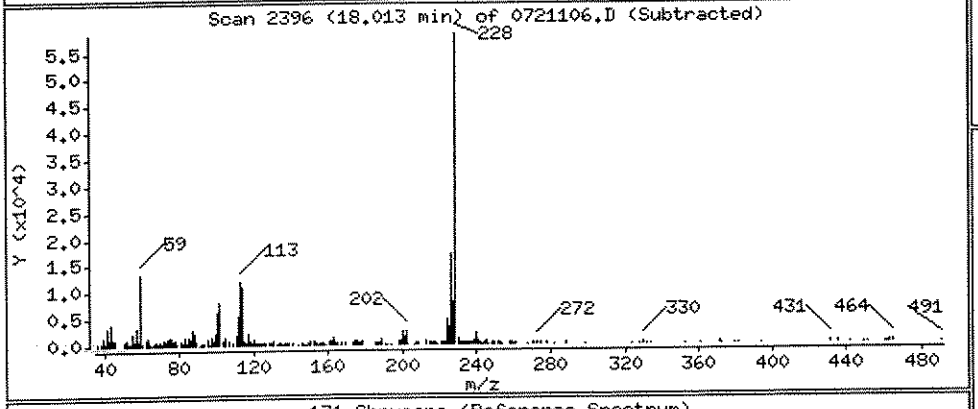
Column diameter: 0.25

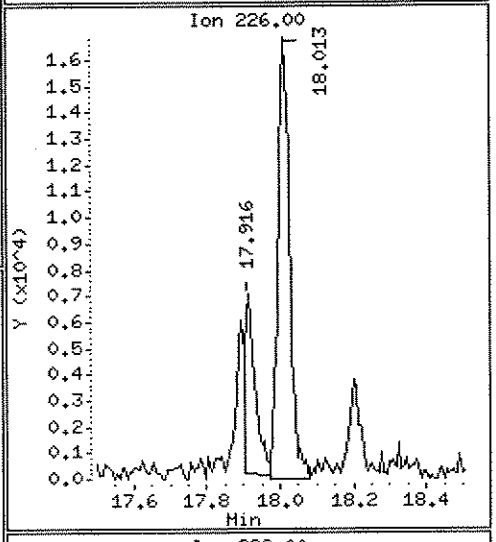
131 Chrysene

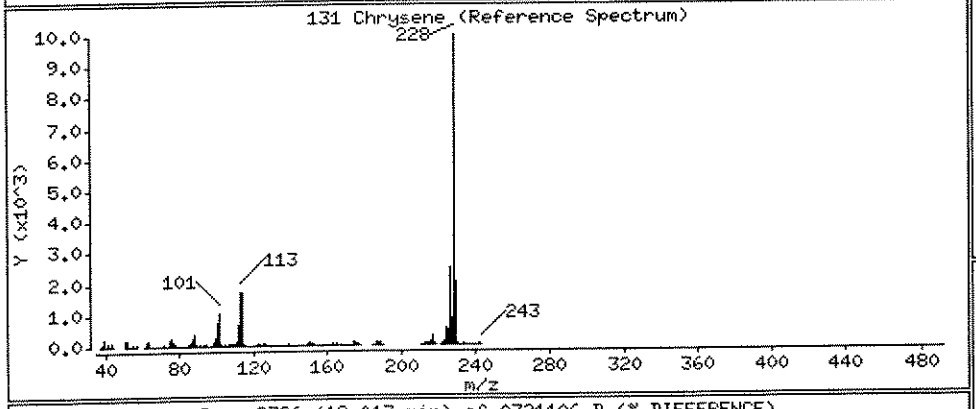
Concentration: 172.9 UG/KG

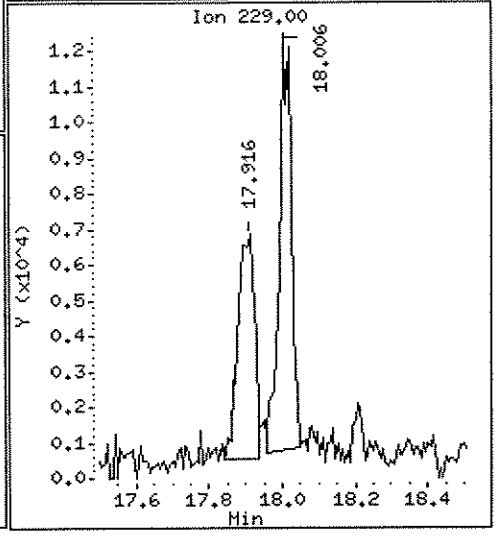


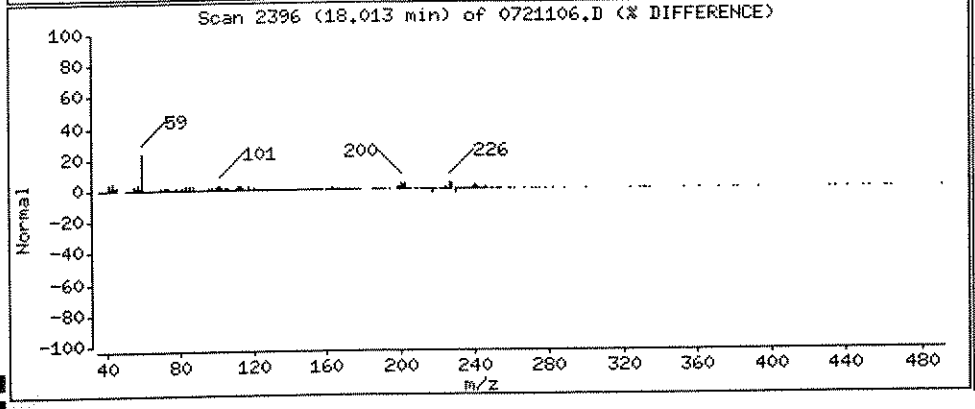












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

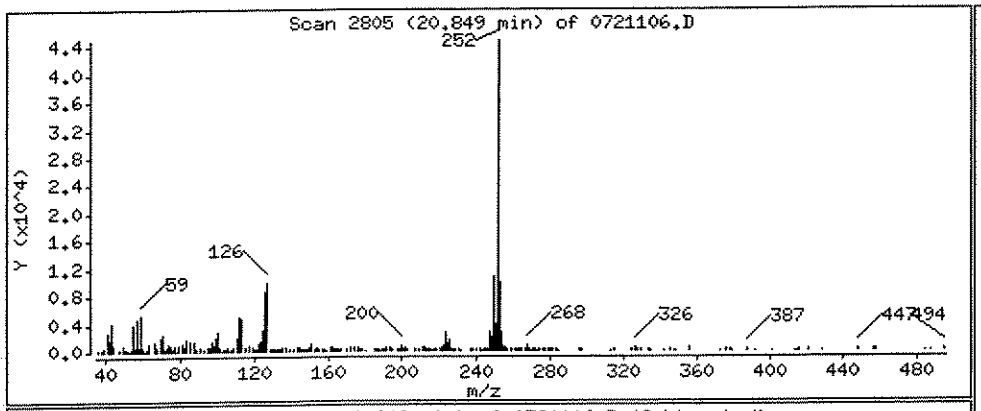
Client ID: 51CFM12S060725 Instrument: bna1.i

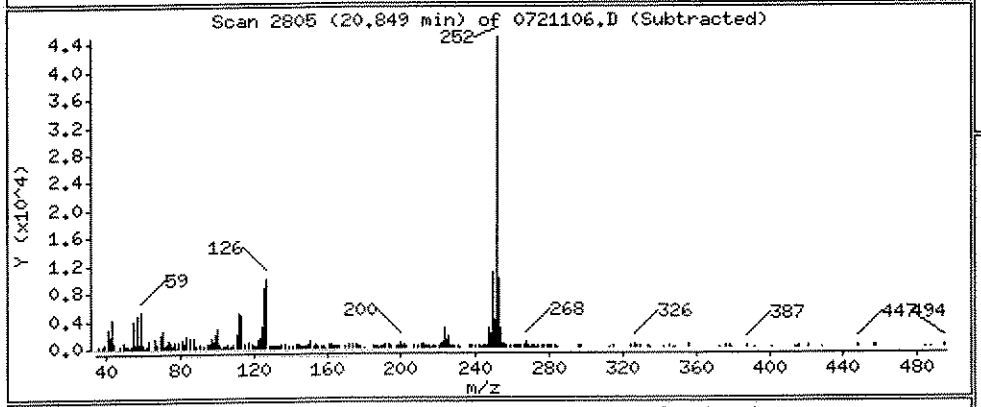
Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

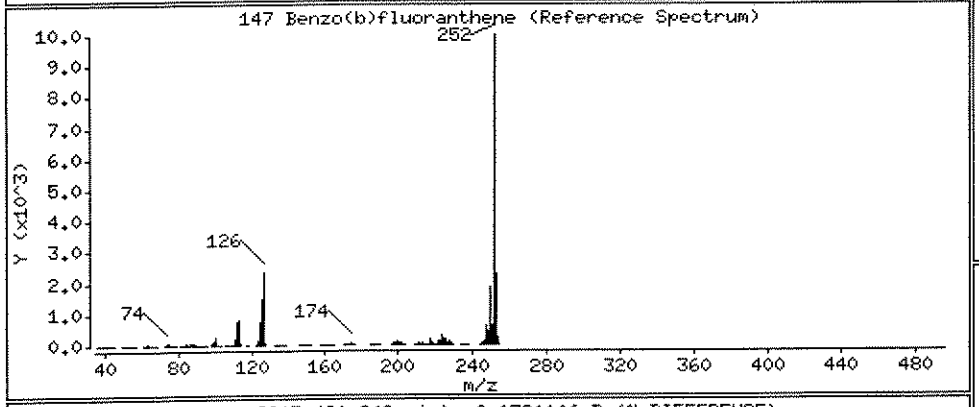
Volume Injected (uL): 0.5 Operator: SDB

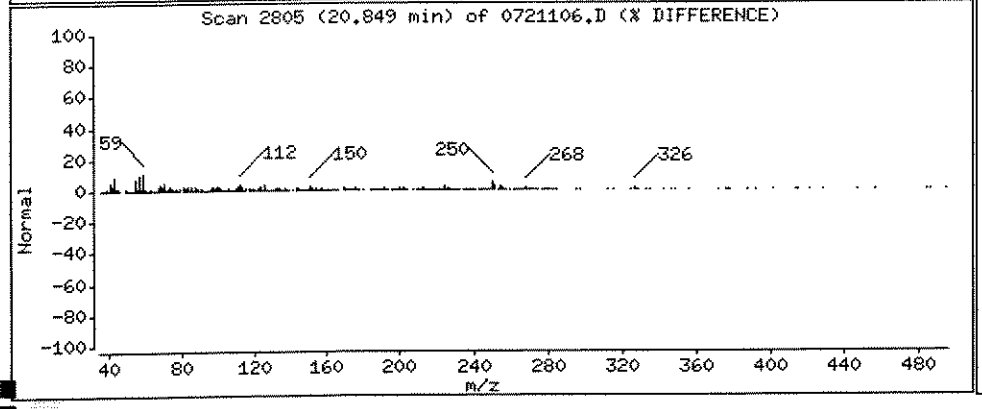
Column phase: fused silica Column diameter: 0.25

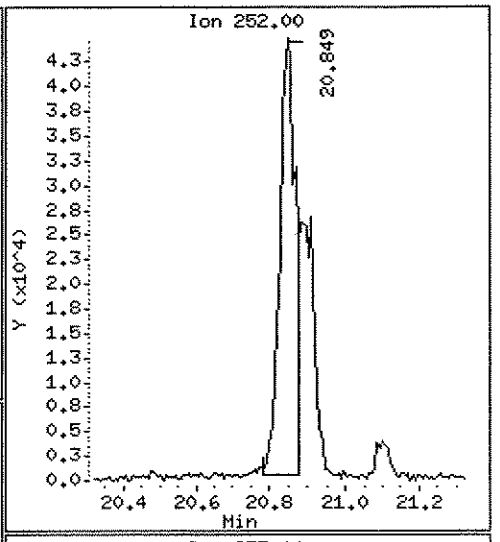
147 Benzo(b)fluoranthene Concentration: 241.6 UG/KG

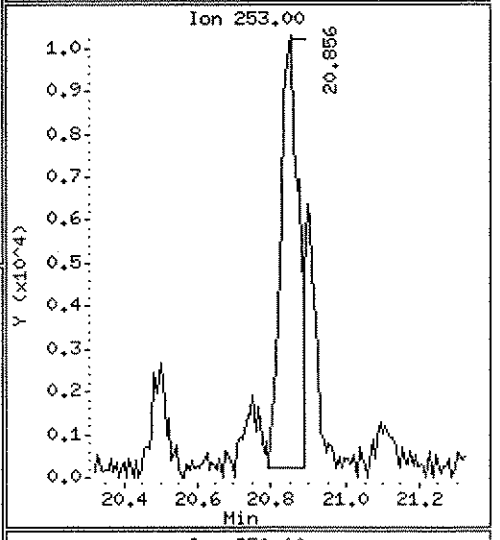


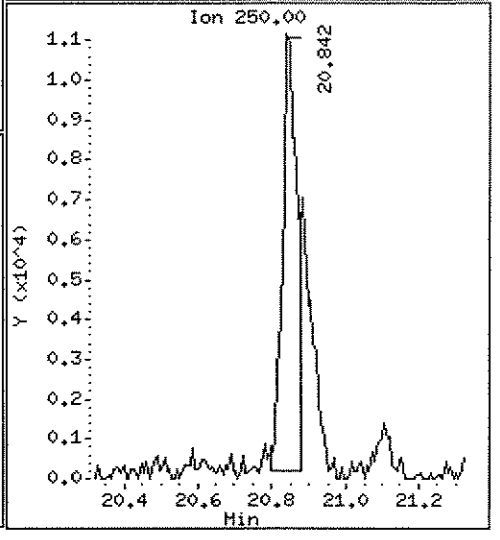












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

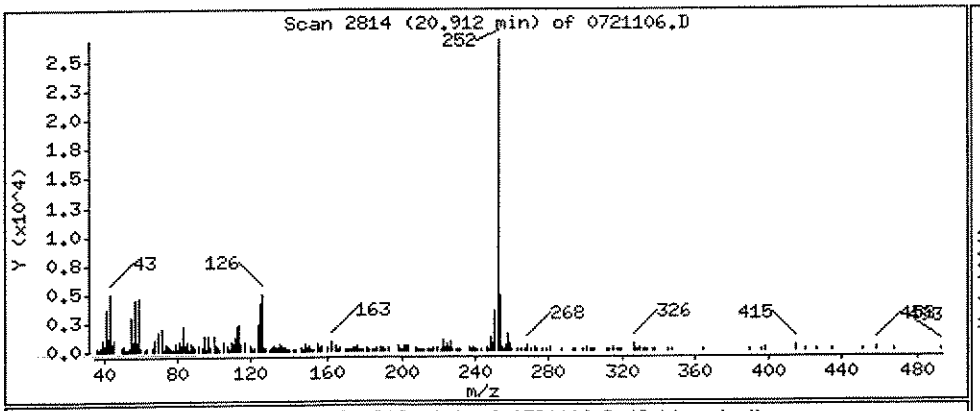
Client ID: 51CFM12S060725 Instrument: bna1.i

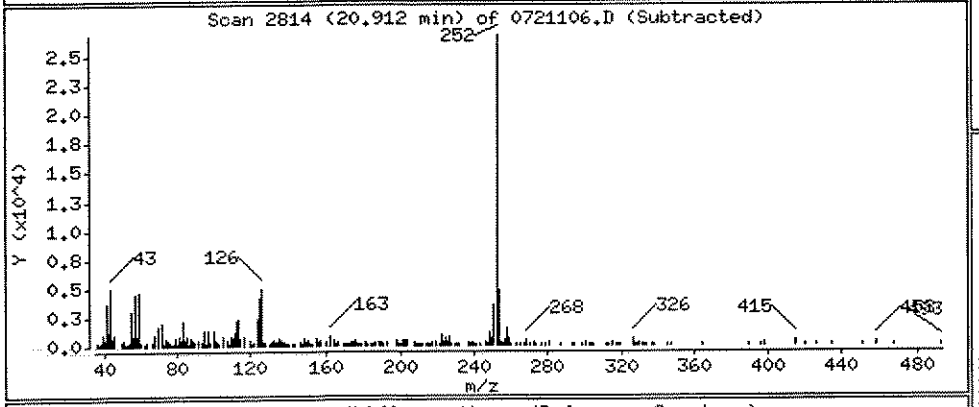
Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

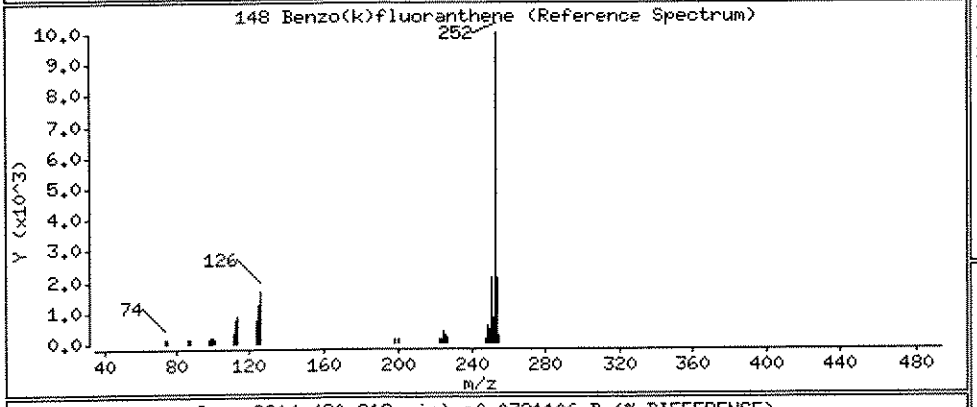
Volume Injected (uL): 0.5 Operator: SDB

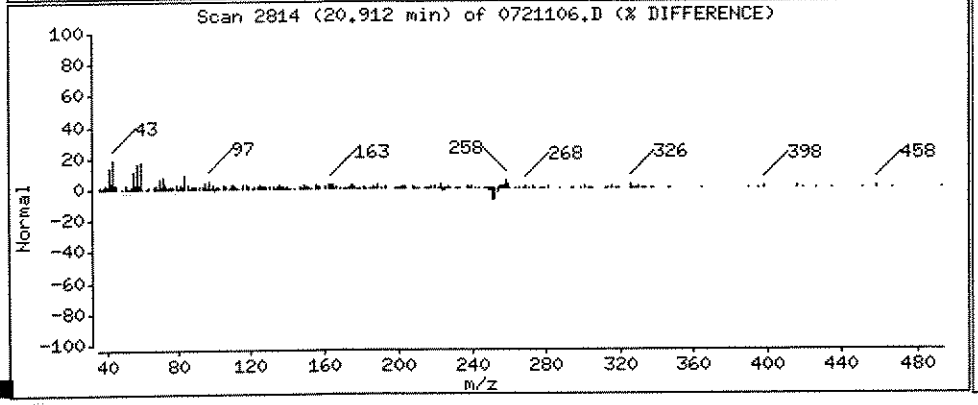
Column phase: fused silica Column diameter: 0.25

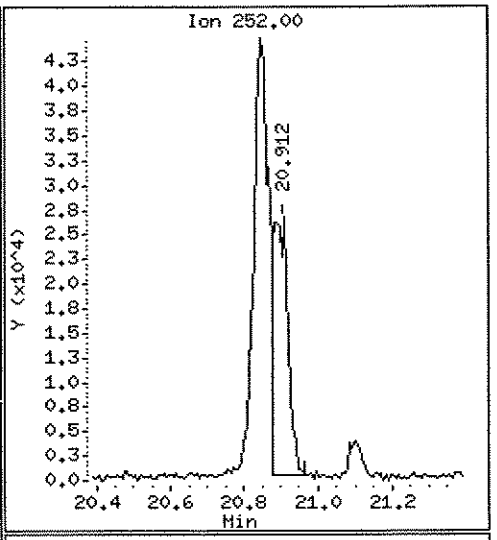
148 Benzo(k)fluoranthene Concentration: 135.6 UG/KG

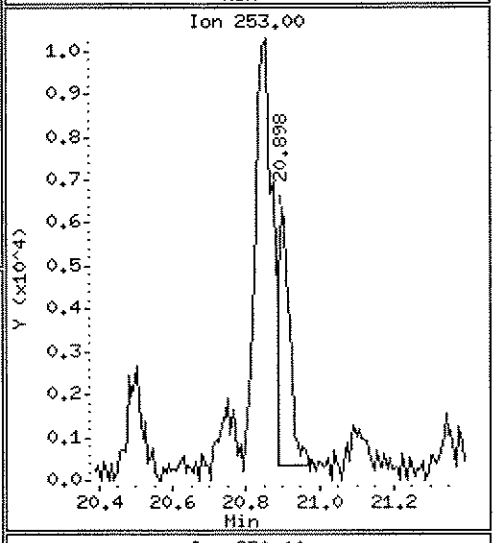


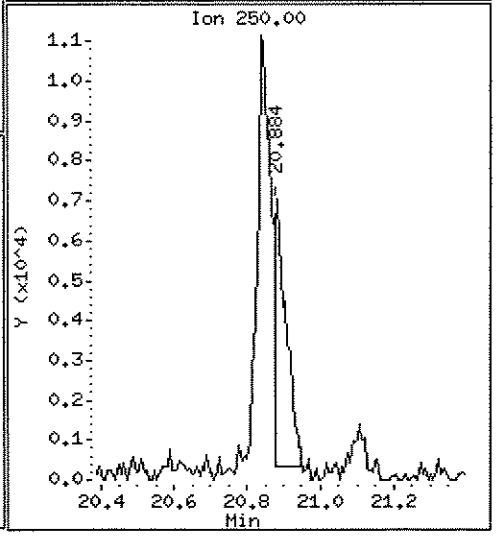












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

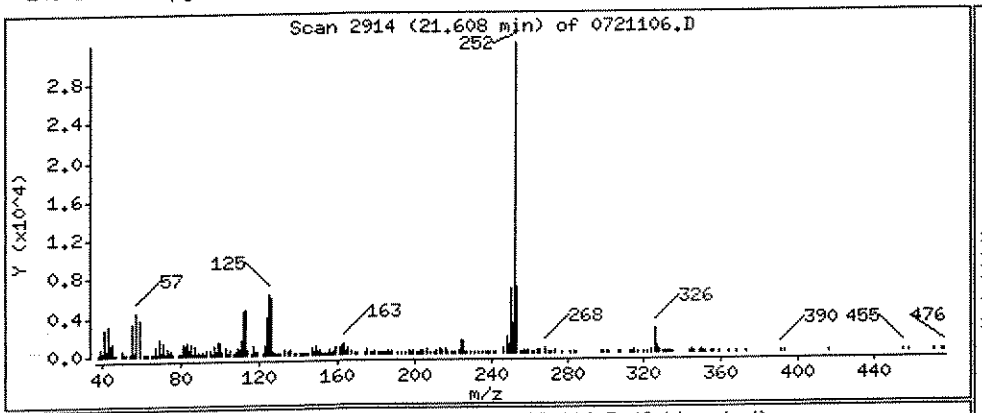
Operator: SDB

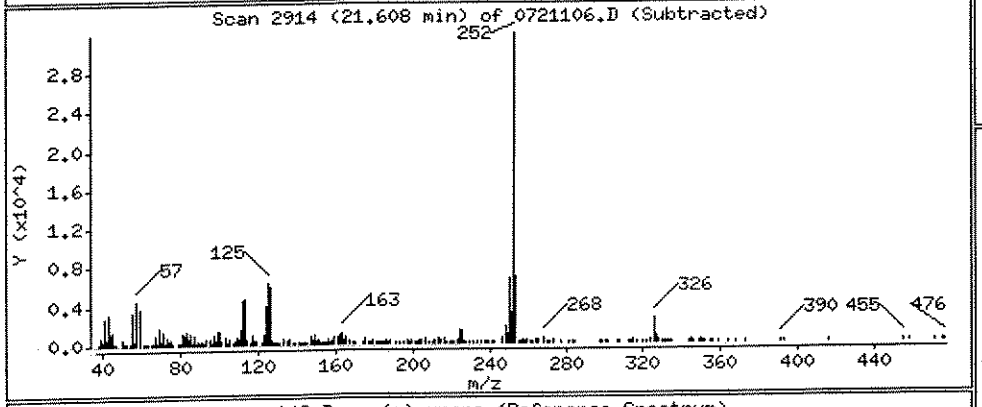
Column phase: fused silica

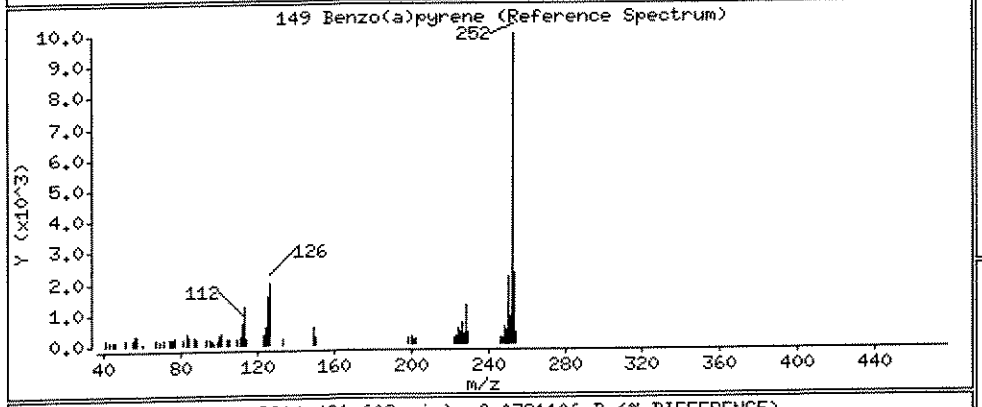
Column diameter: 0.25

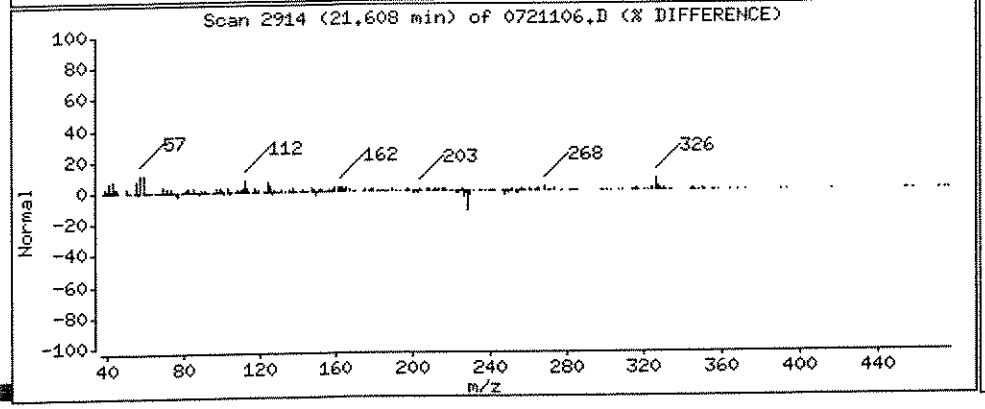
149 Benzo(a)pyrene

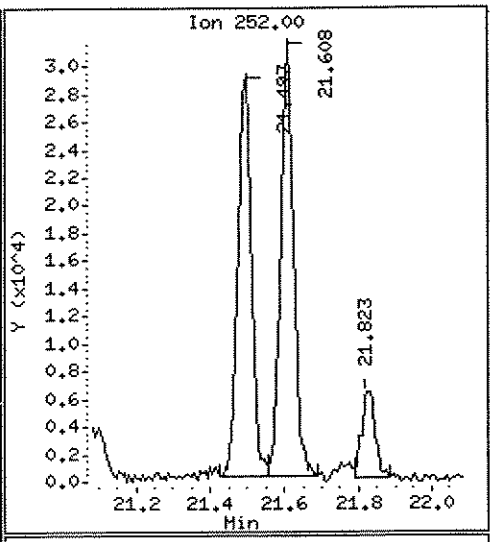
Concentration: 164.7 UG/KG

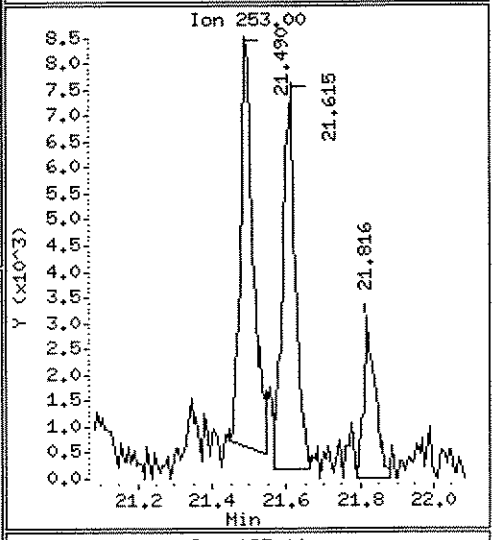


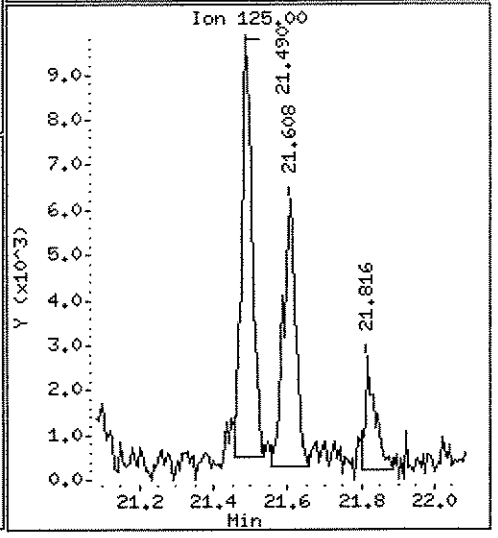












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

Client ID: 51CFM12S060725

Instrument: bna1.i

Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

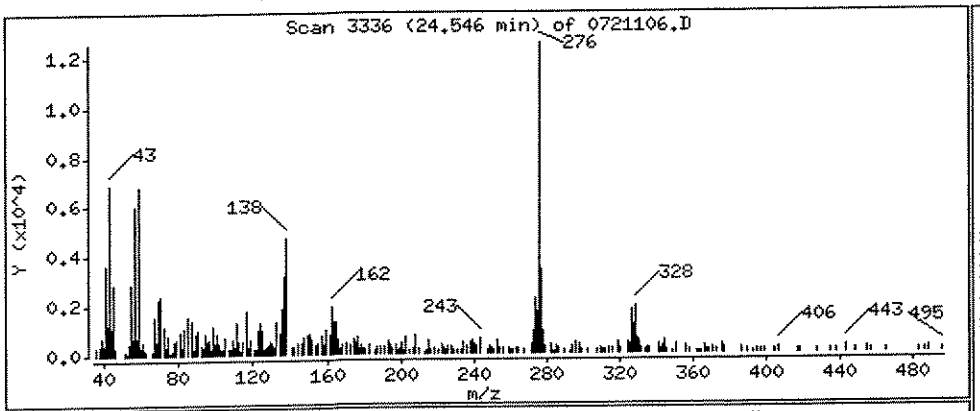
Operator: SDB

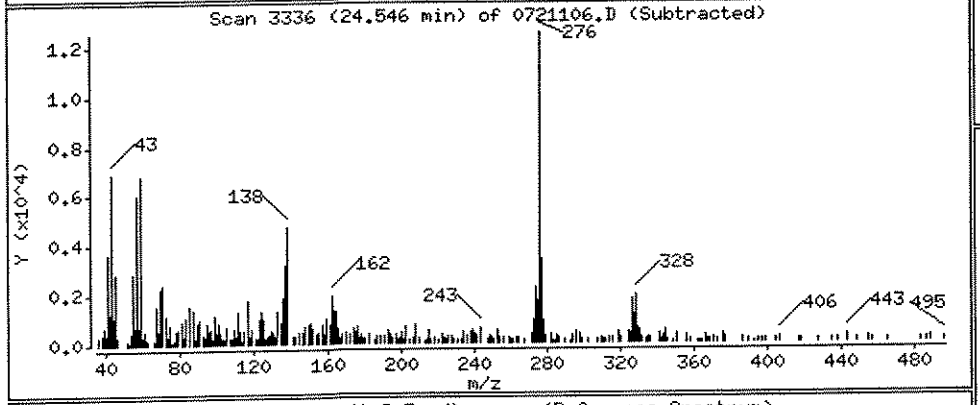
Column phase: fused silica

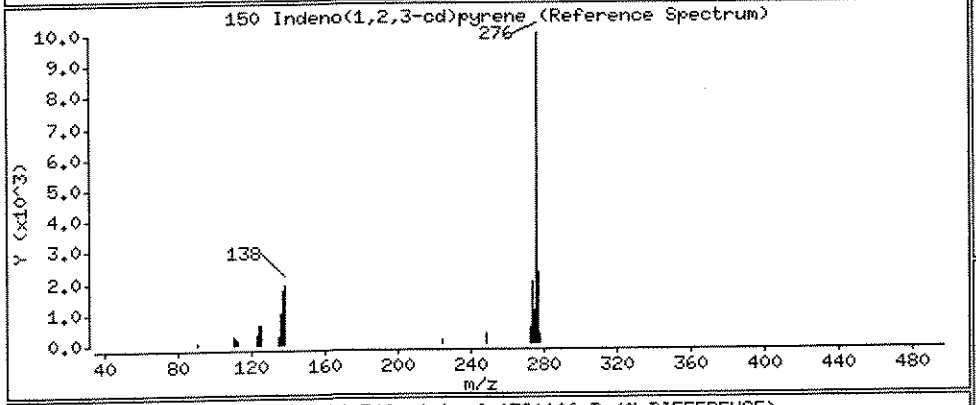
Column diameter: 0.25

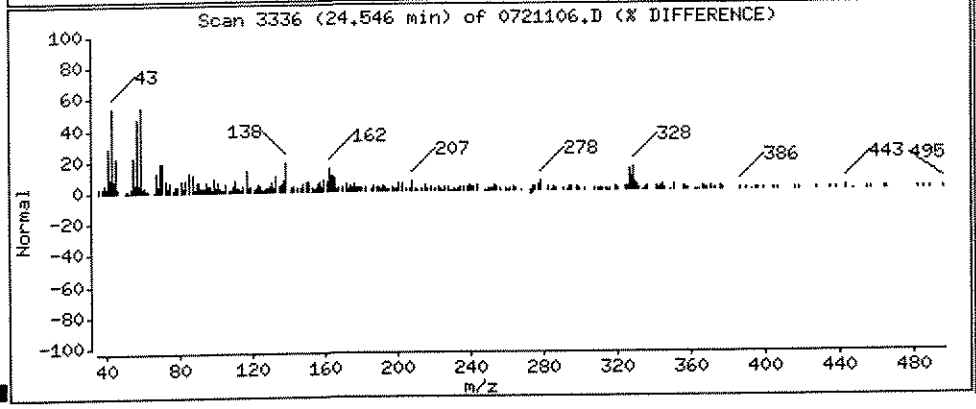
150 Indeno(1,2,3-cd)pyrene

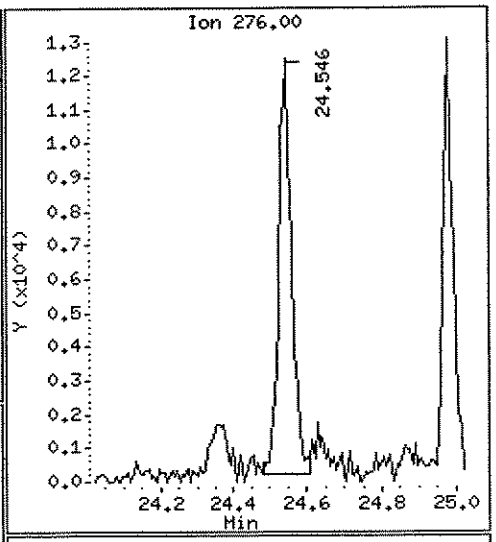
Concentration: 76.23 UG/KG

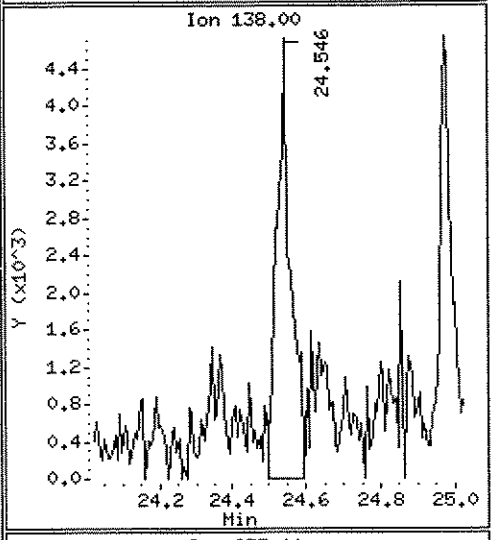


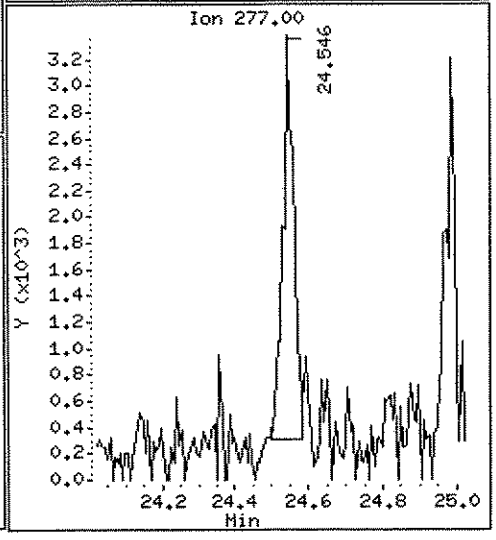












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Data File: \\ELABNSHO4\DD\chem\bna1.i\072606B1.b\0721106.D

Date : 26-JUL-2006 18:37

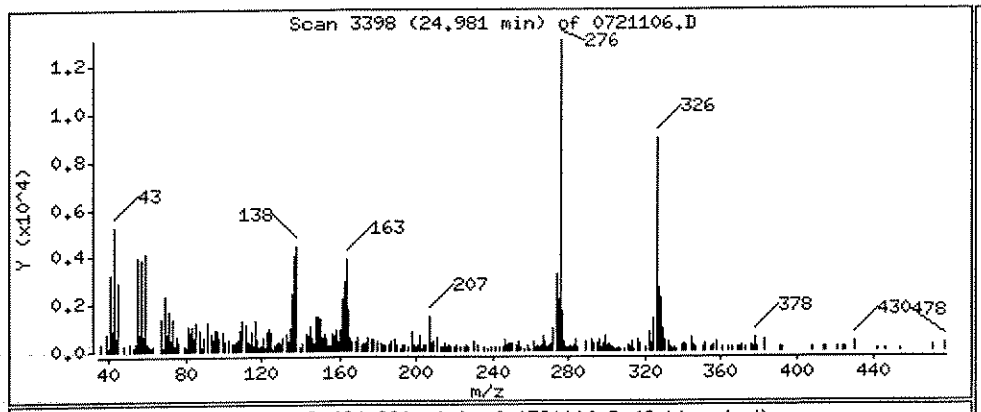
Client ID: 51CFM12S060725 Instrument: bna1.i

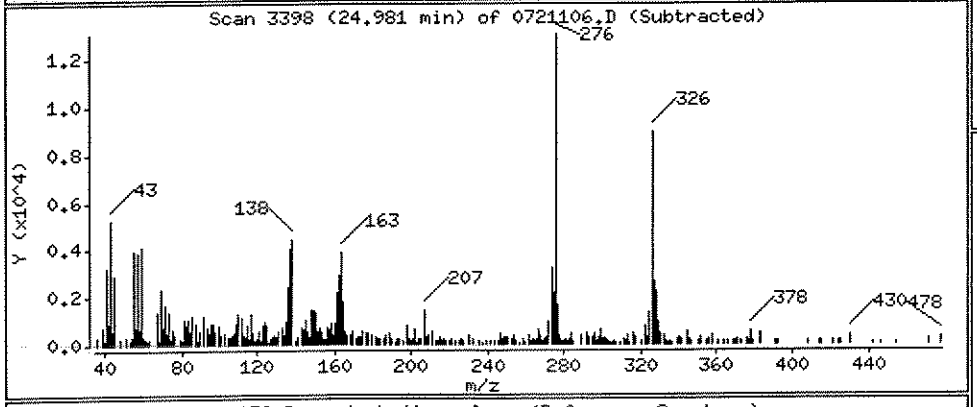
Sample Info: 0607211-06;15.2;500;1;UG/KG;26-JUL-2006

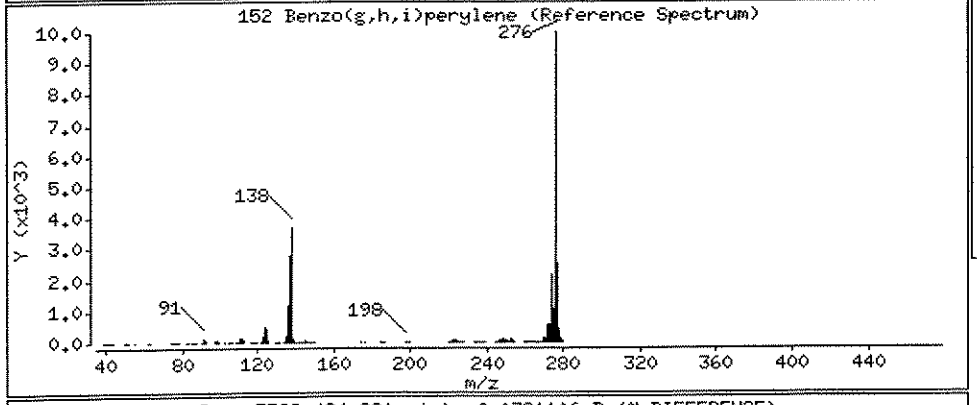
Volume Injected (uL): 0.5 Operator: SDB

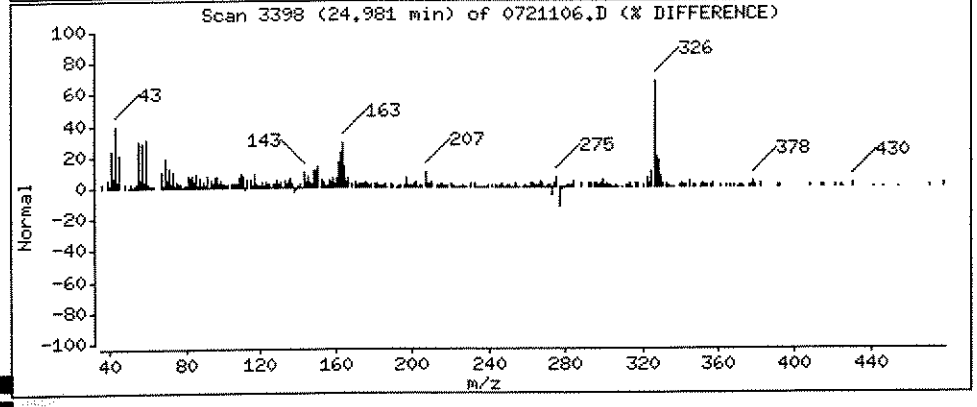
Column phase: fused silica Column diameter: 0.25

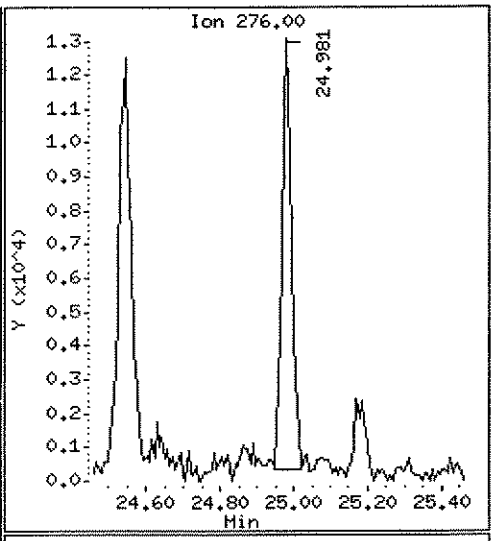
152 Benzo(g,h,i)perylene Concentration: 57.68 UG/KG

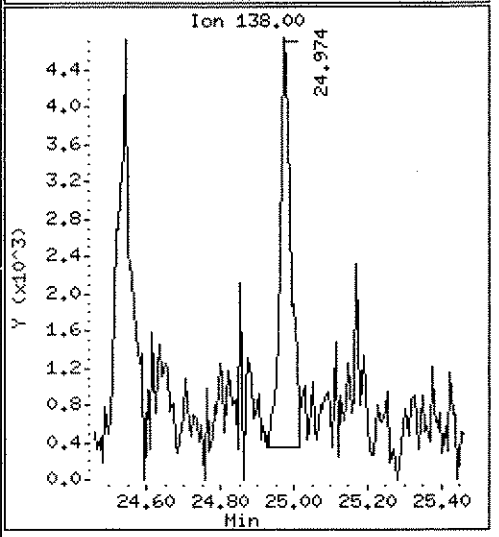












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721107

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	27	J
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	61	J
56-55-3	Benzo(a)anthracene	22	180	600	
205-99-2	Benzo(b)fluoranthene	22	180	1400	
207-08-9	Benzo(k)fluoranthene	22	180	660	
191-24-2	Benzo(g,h,i)perylene	22	180	500	
50-32-8	Benzo(a)pyrene	22	110	1400	
218-01-9	Chrysene	22	180	930	
53-70-3	Dibenz(a,h)anthracene	22	110	180	
206-44-0	Fluoranthene	22	180	830	
86-73-7	Fluorene	22	180	26	J
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	590	
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	56	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180	340	
129-00-0	Pyrene	22	180	1000	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D
Lab Smp Id: 0607211-07 Client Smp ID: 51CFM13S060725
Inj Date : 26-JUL-2006 19:11
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-07;15.3;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	87.900	Percent Solids

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	544165	40.0000	
*	31 Naphthalene-d8	136	5.091	5.088	(1.000)	1871631	40.0000	
$	32 Nitrobenzene-d5	82	4.547	4.553	(0.893)	605373	29.6298	1102
*	65 Acenaphthene-d10	164	7.384	7.382	(1.000)	901255	40.0000	
$	70 2-Fluorobiphenyl	172	6.340	6.345	(0.859)	904052	31.5212	1172
	76 Acenaphthene	153	7.432	7.437	(1.006)	18915	0.72720	27.04(a)
	84 Fluorene	166	8.434	8.434	(1.142)	19289	0.69335	25.78(a)
*	97 Phenanthrene-d10	188	10.598	10.583	(1.000)	1117533	40.0000	
	106 Phenanthrene	178	10.639	10.645	(1.004)	295545	9.27541	344.8
	107 Anthracene	178	10.749	10.755	(1.014)	51307	1.63100	60.64(aM)
	110 Fluoranthene	202	13.830	13.814	(1.305)	707707	22.4342	834.1
*	124 Chrysene-d12	240	17.974	17.933	(1.000)	715591	40.0000	
	126 Pyrene	202	14.413	14.390	(0.802)	800782	28.0207	1042

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D
Report Date: 27-Jul-2006 09:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.200	15.177	(0.846)	775440	42.9140	1595
130 Benzo(a)anthracene	228	17.925	17.885	(0.997)	369624	16.0313	596.0
131 Chrysene	228	18.029	18.002	(1.003)	527810	25.0639	931.8
* 145 Perylene-d12	264	21.800	21.736	(1.000)	503995	40.0000	
147 Benzo(b)fluoranthene	252	20.883	20.823	(0.958)	598606	38.5570	1433(M)
148 Benzo(k)fluoranthene	252	20.925	20.893	(0.960)	288468	17.9089	665.8(M)
149 Benzo(a)pyrene	252	21.646	21.584	(0.993)	511778	38.2282	1421(H)
150 Indeno(1,2,3-cd)pyrene	276	24.572	24.521	(1.127)	181902	15.9256	592.1
151 Dibenz(a,h)anthracene	278	24.663	24.618	(1.131)	54726	4.75930	176.9
152 Benzo(g,h,i)perylene	276	25.001	24.961	(1.147)	160056	13.5033	502.0

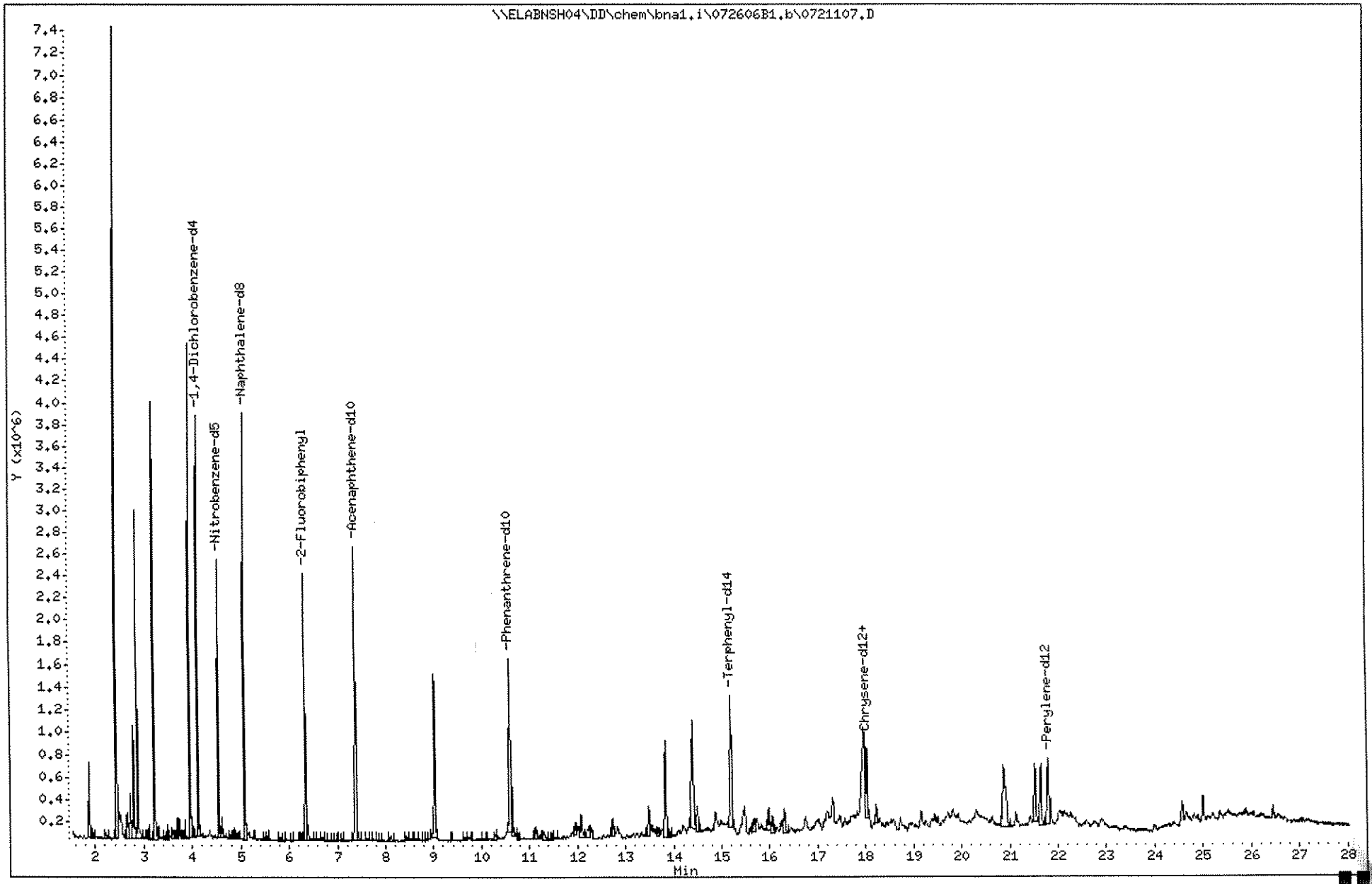
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D
Date : 26-JUL-2006 19:11
Client ID: 51CFM13S060725
Instrument: bna1.i
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000138



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

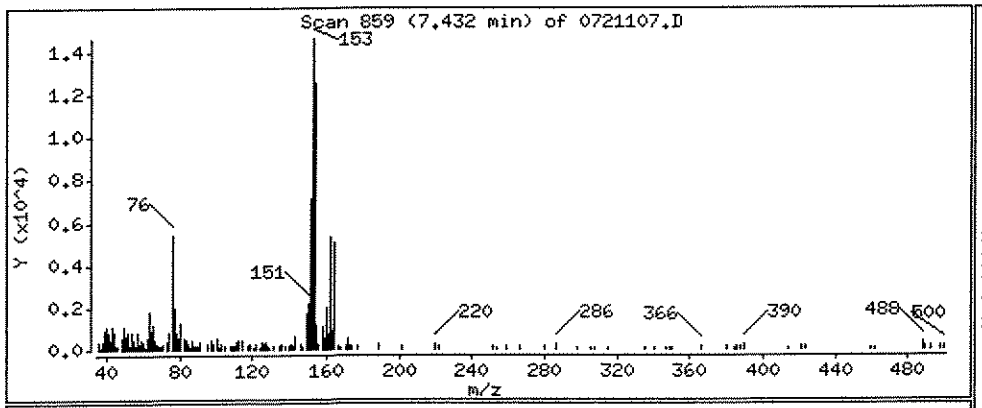
Client ID: 51CFM13S060725 Instrument: bna1.i

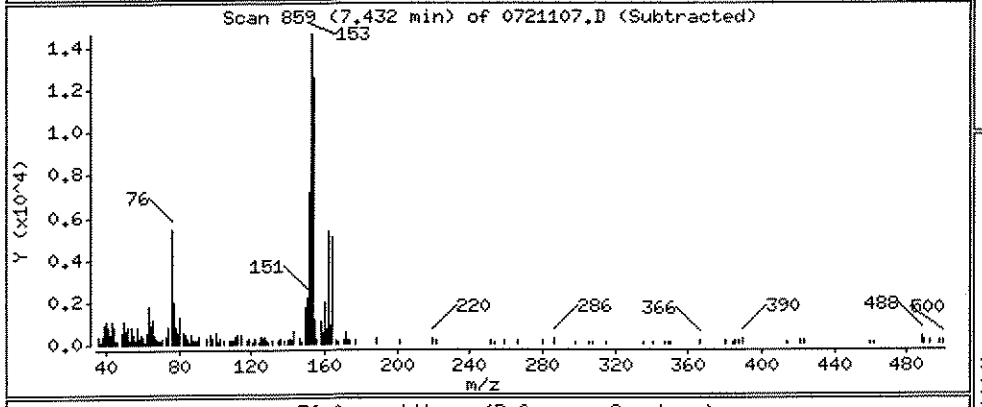
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

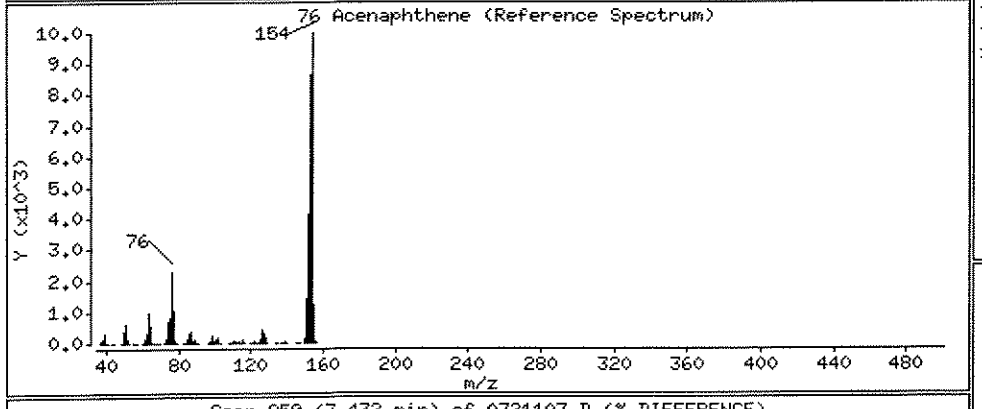
Volume Injected (uL): 0.5 Operator: SDB

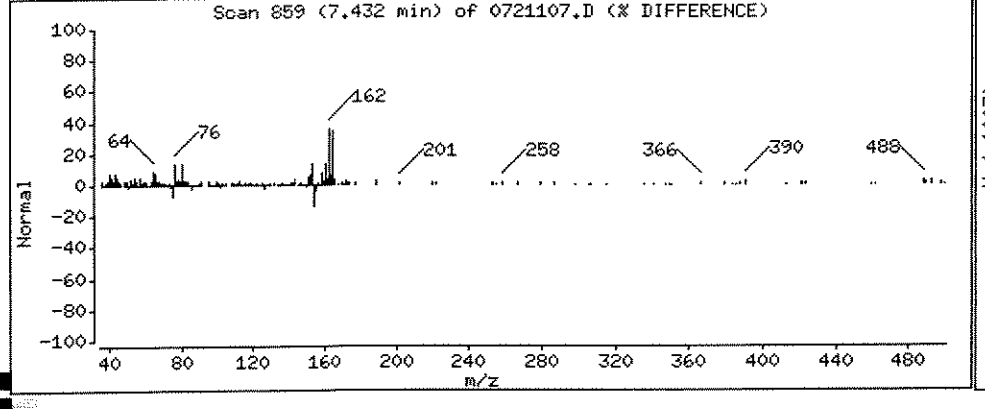
Column phase: fused silica Column diameter: 0.25

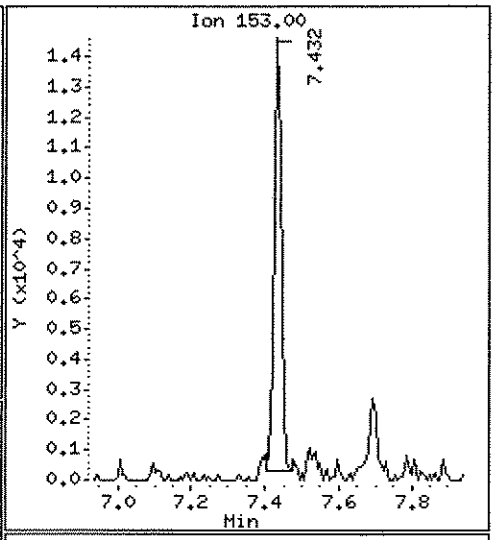
76 Acenaphthene Concentration: 23.76 UG/KG

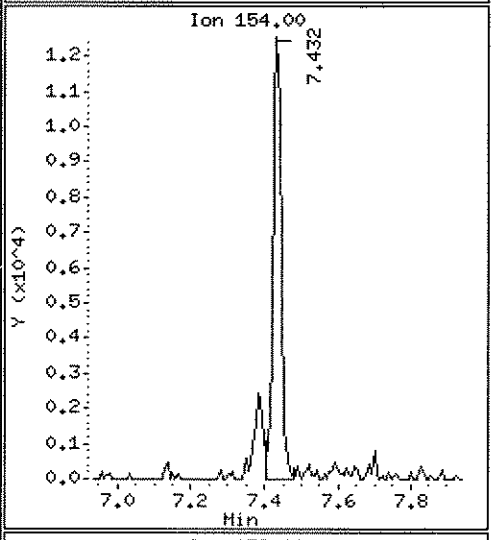


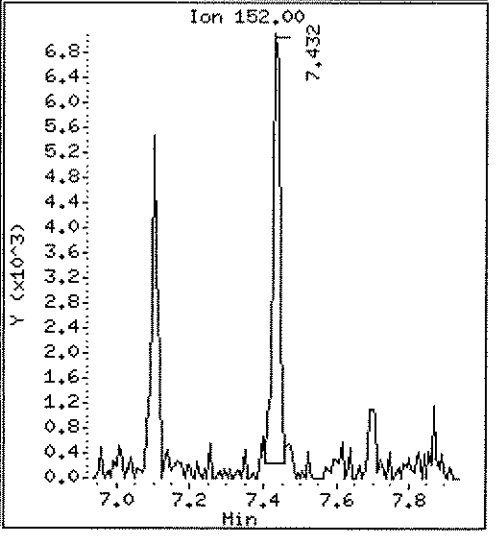












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFH13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

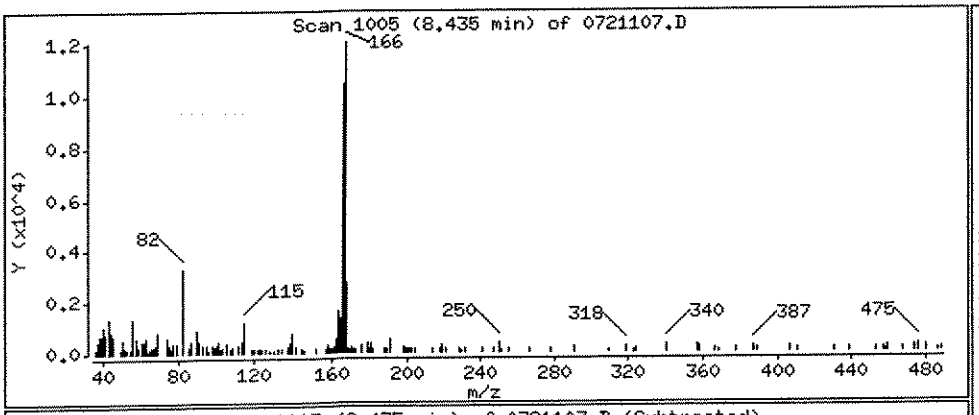
Operator: SDB

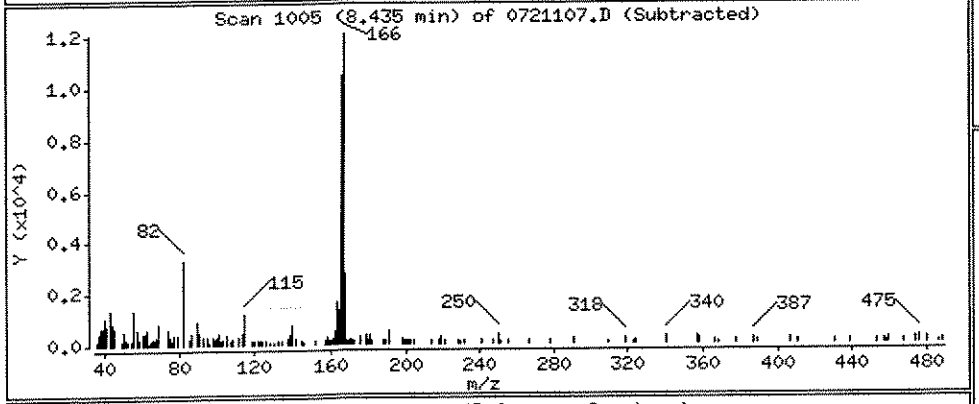
Column phase: fused silica

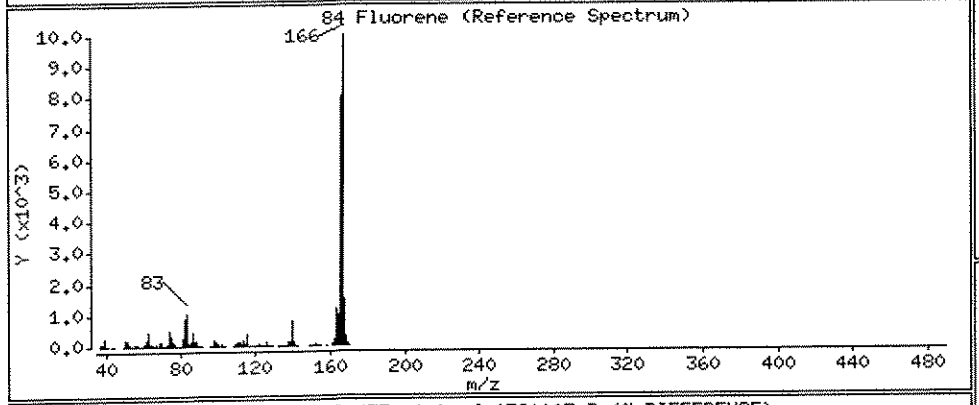
Column diameter: 0.25

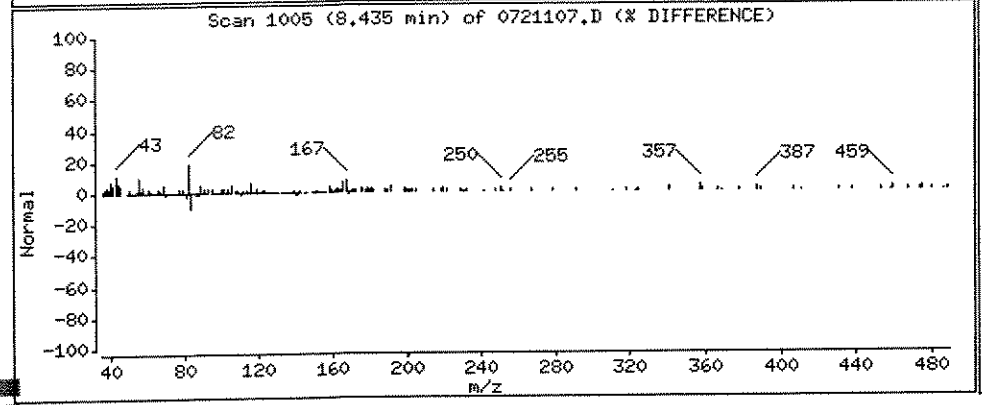
84 Fluorene

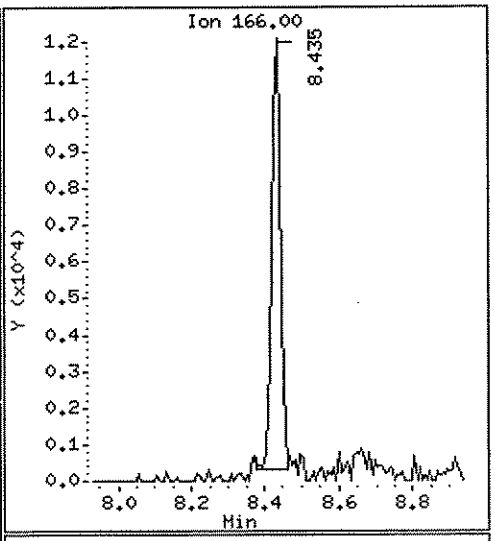
Concentration: 22.66 UG/KG

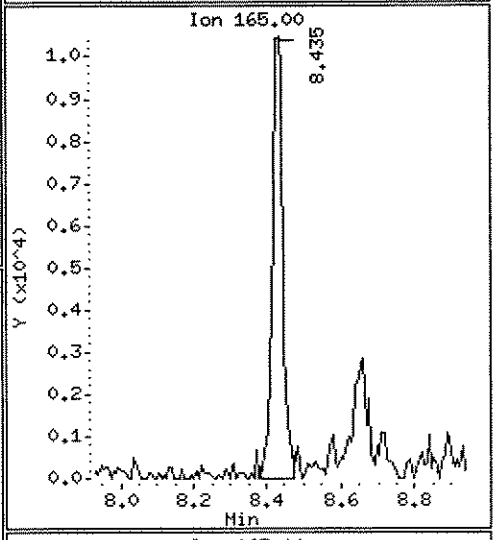


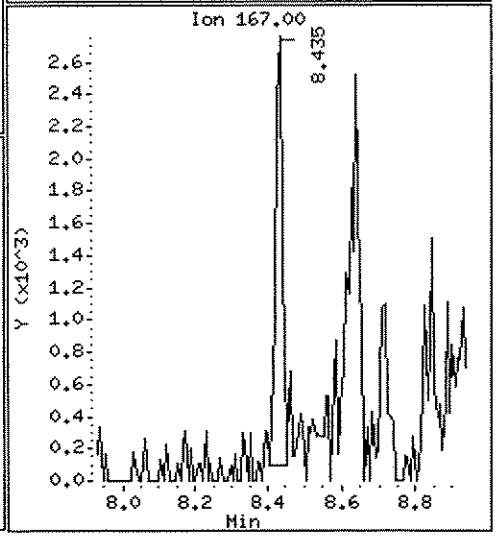












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

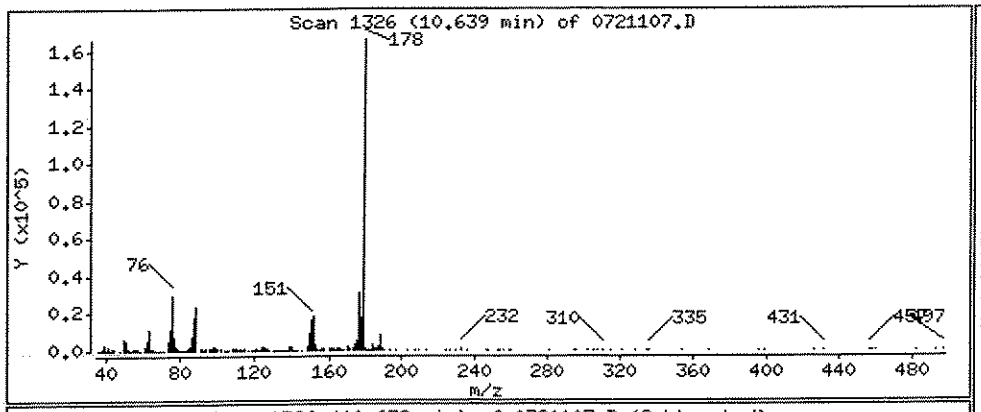
Client ID: 51CFM13S060725 Instrument: bna1.i

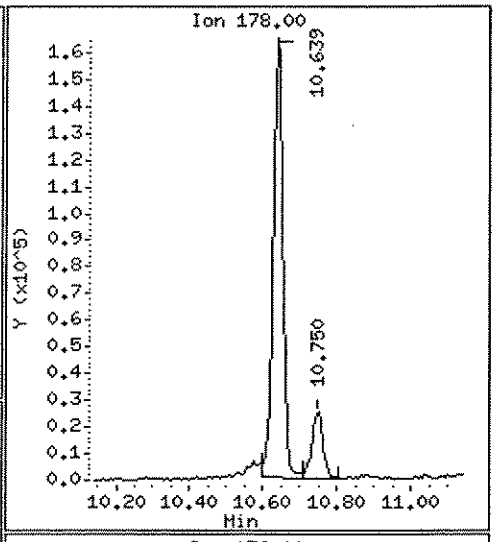
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

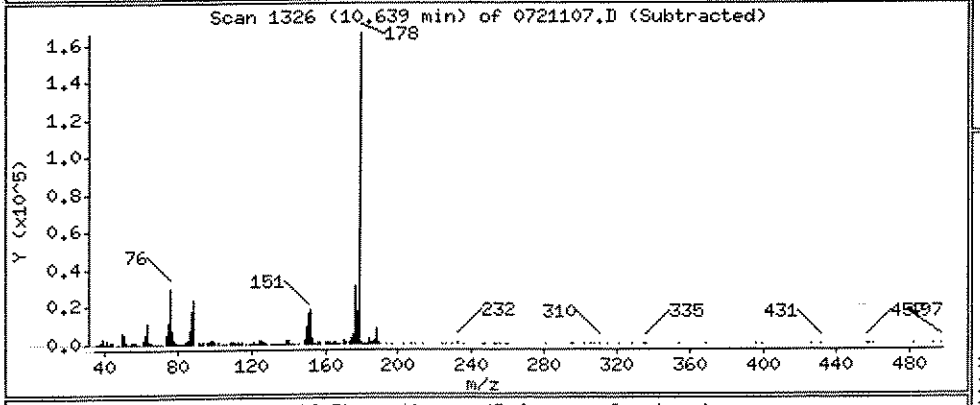
Volume Injected (uL): 0.5 Operator: SDB

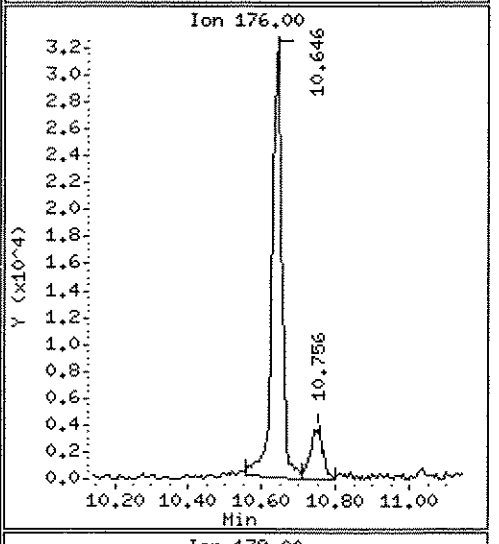
Column phase: fused silica Column diameter: 0.25

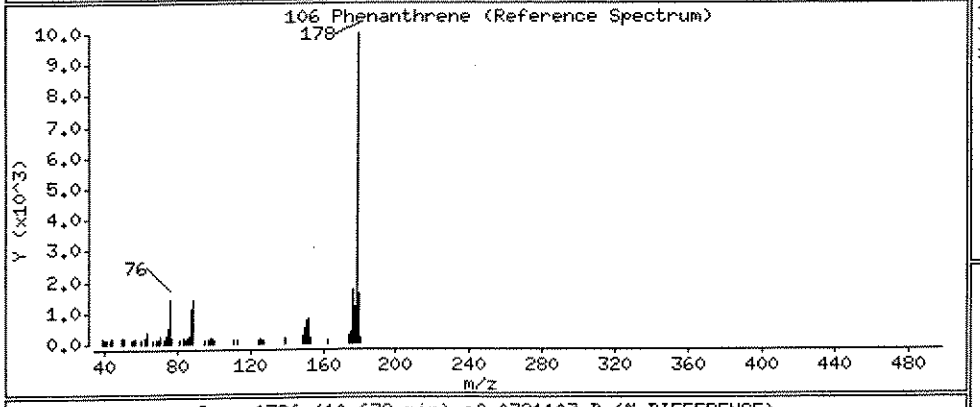
106 Phenanthrene Concentration: 303.1 UG/KG

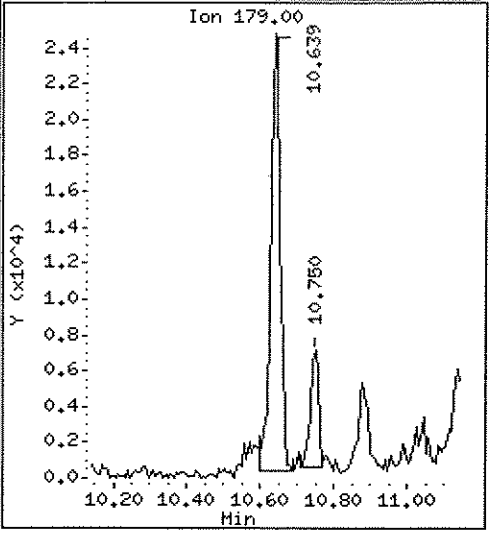


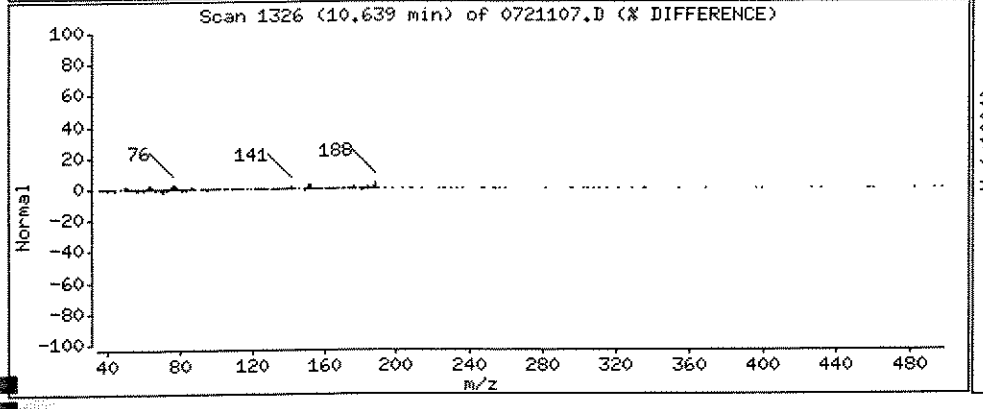












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

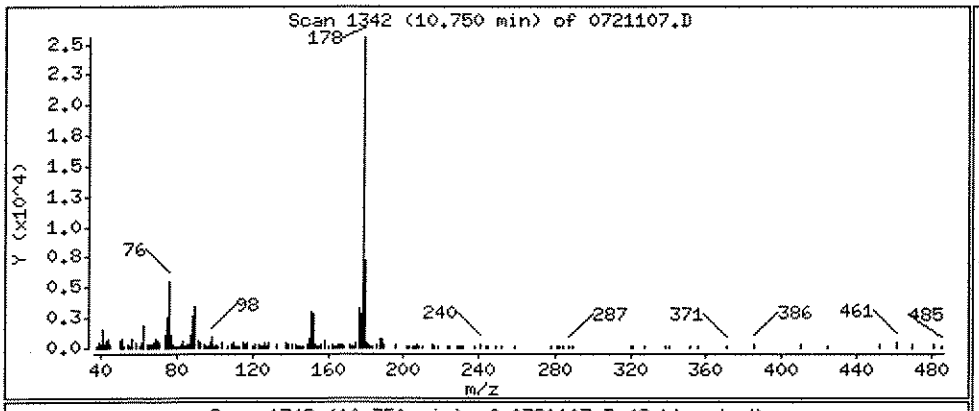
Client ID: 51CFM13S060725 Instrument: bna1.i

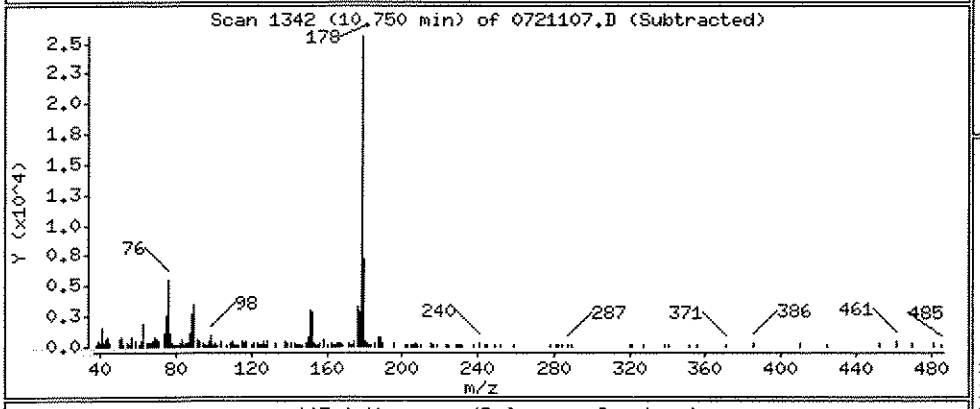
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

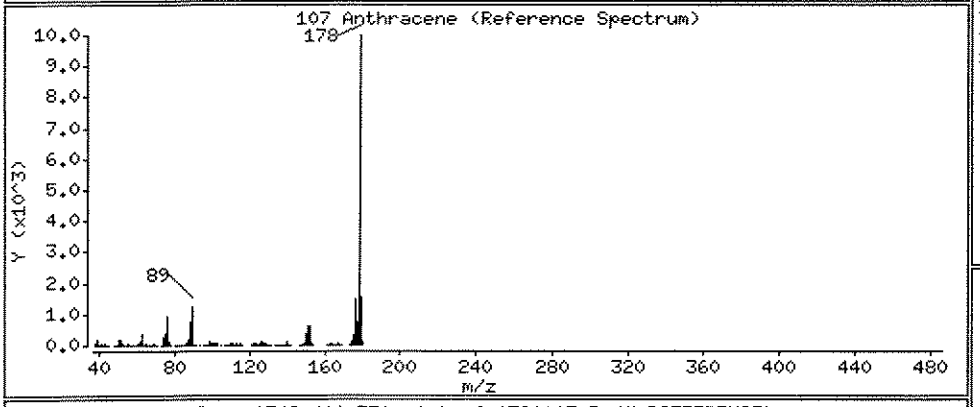
Volume Injected (uL): 0.5 Operator: SDB

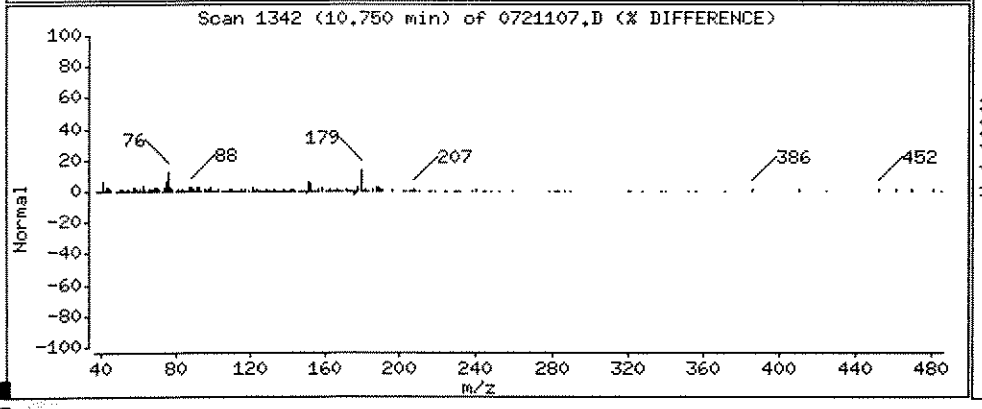
Column phase: fused silica Column diameter: 0.25

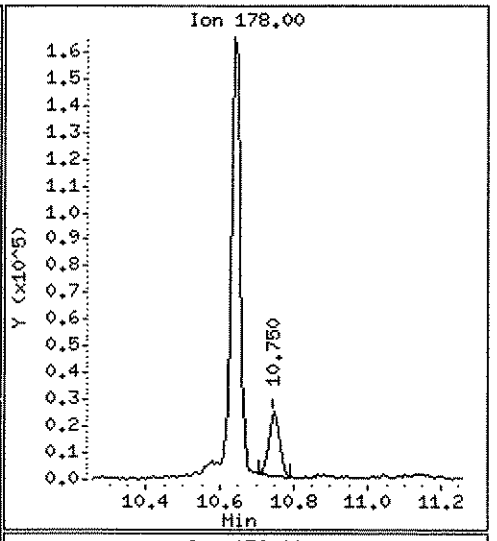
107 Anthracene Concentration: 53.30 UG/KG

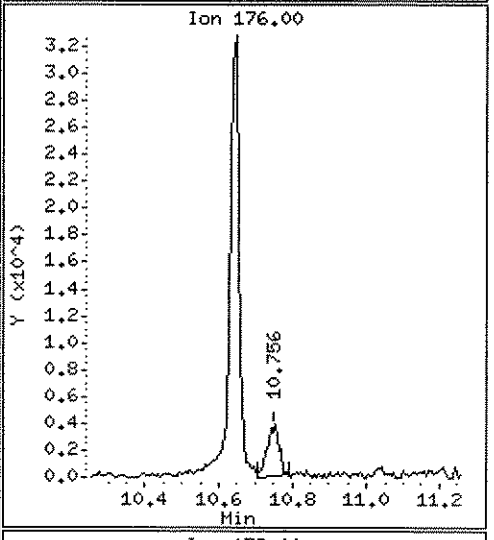


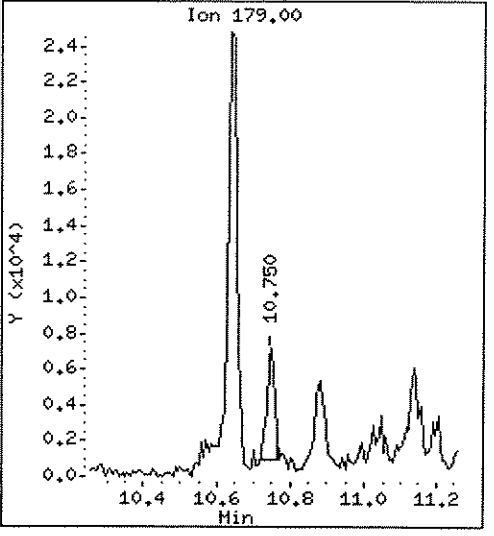












Empirical Laboratories

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Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

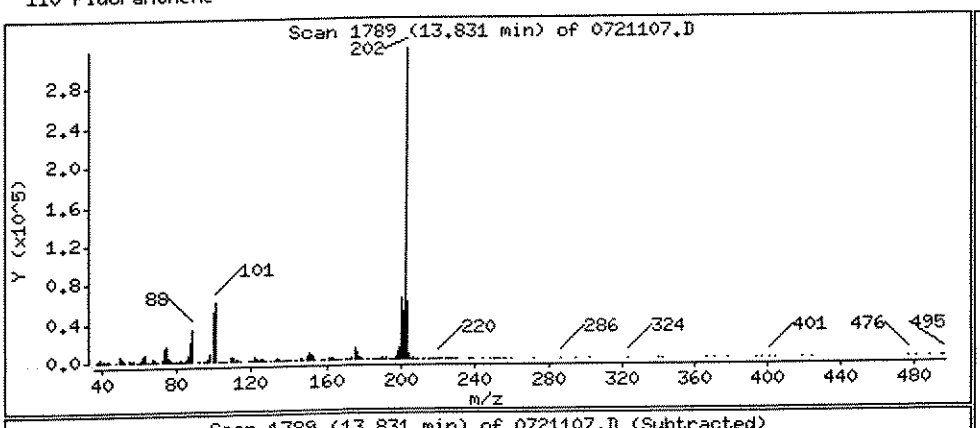
Operator: SDB

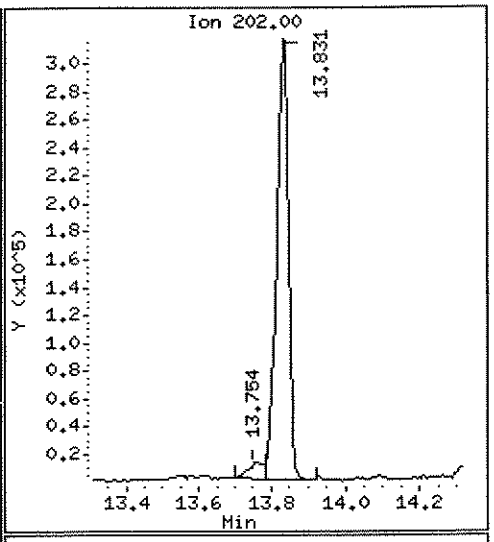
Column phase: fused silica

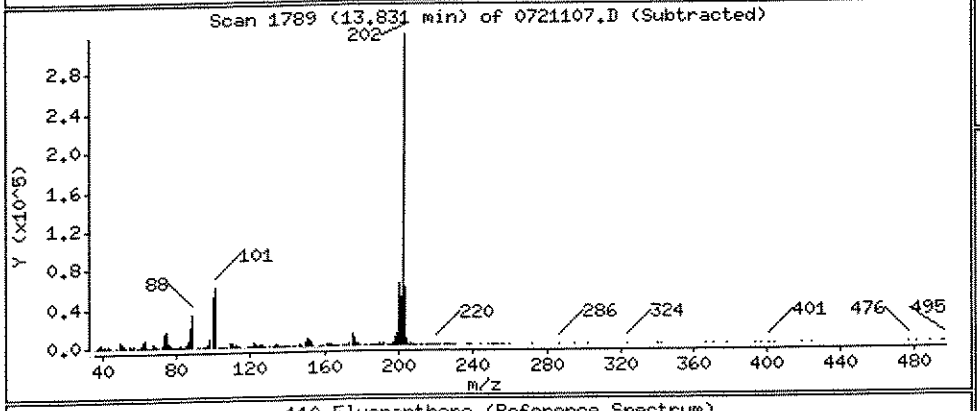
Column diameter: 0.25

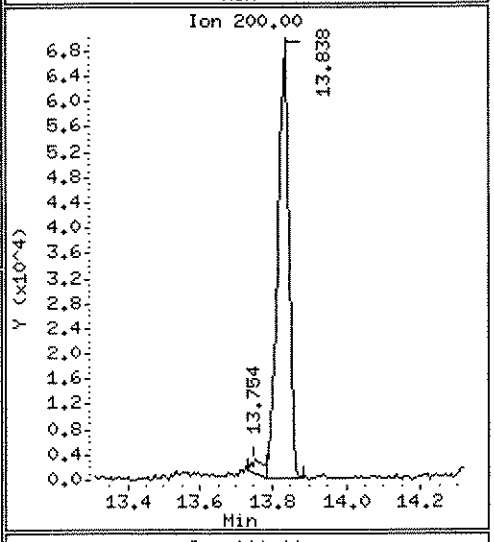
110 Fluoranthene

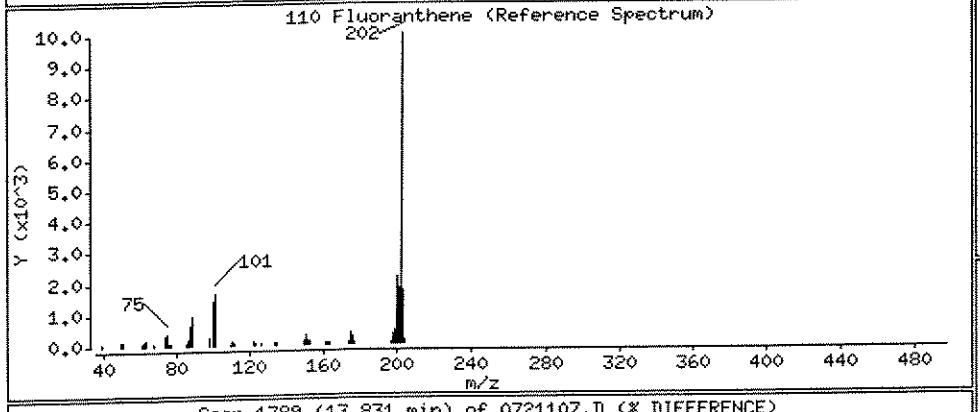
Concentration: 733.1 UG/KG

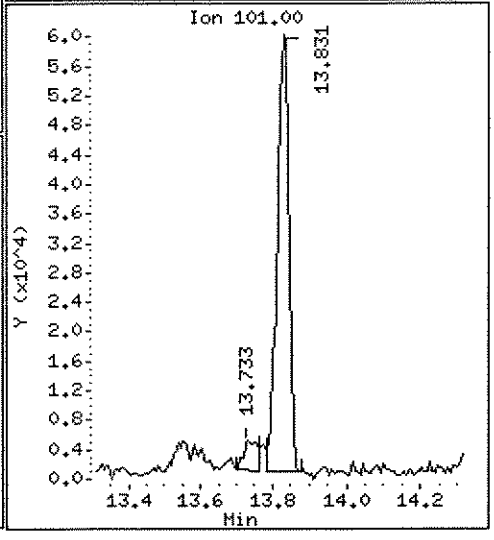


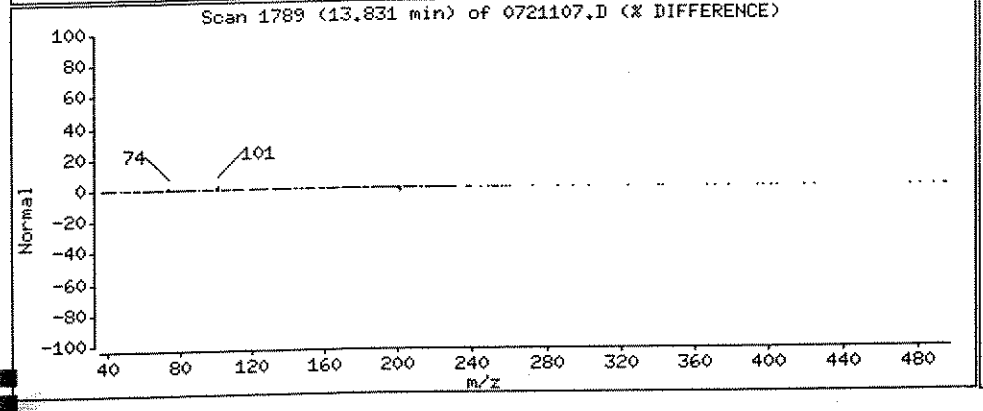












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

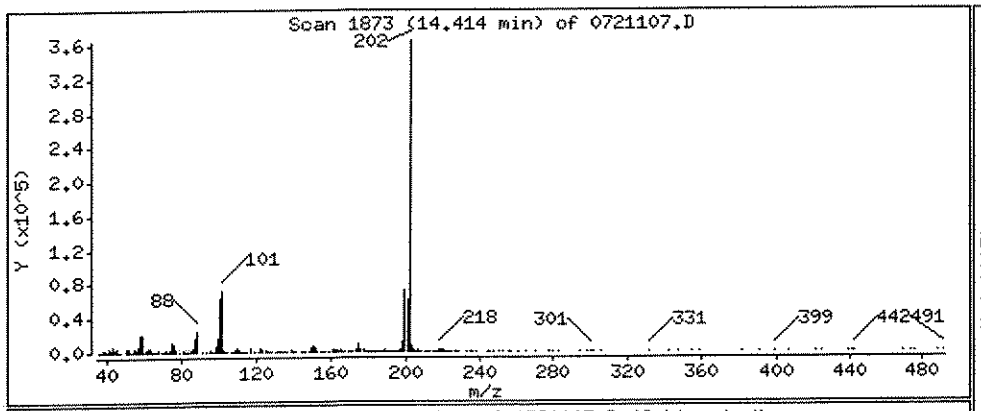
Operator: SDB

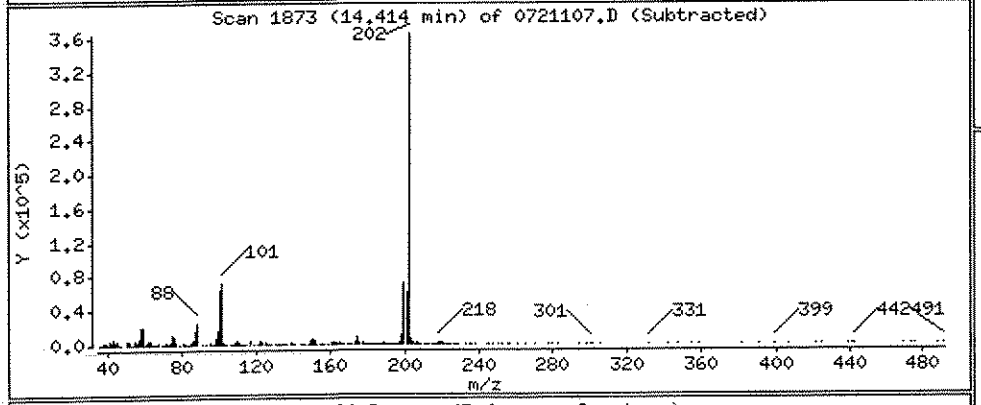
Column phase: fused silica

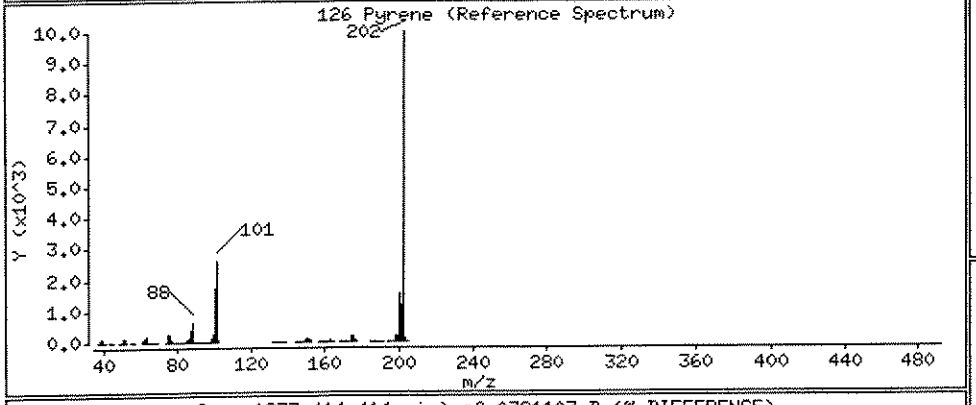
Column diameter: 0.25

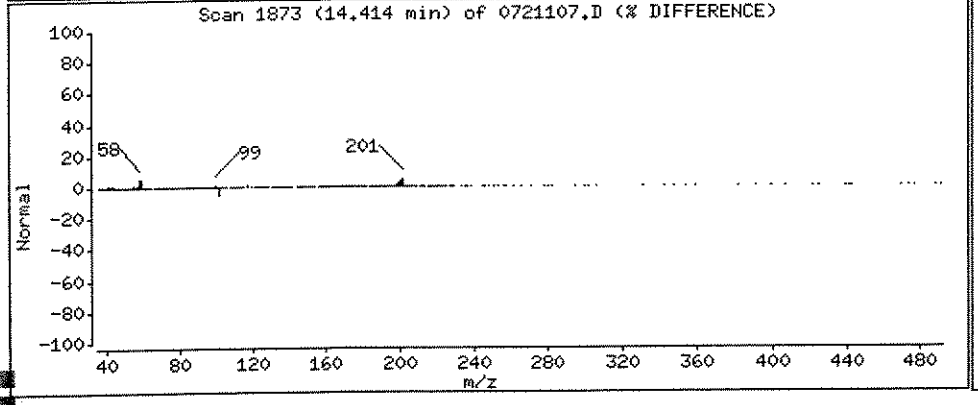
126 Pyrene

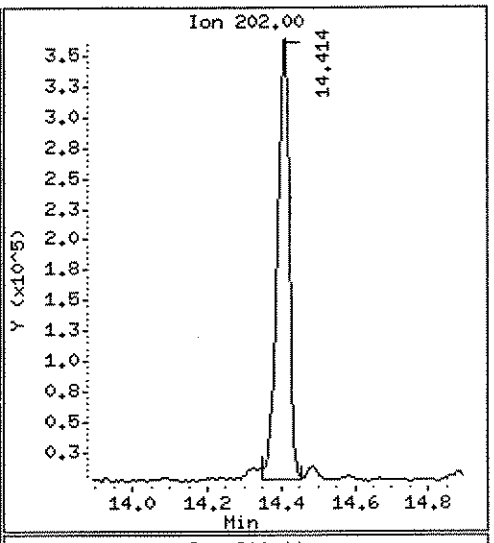
Concentration: 915.7 UG/KG

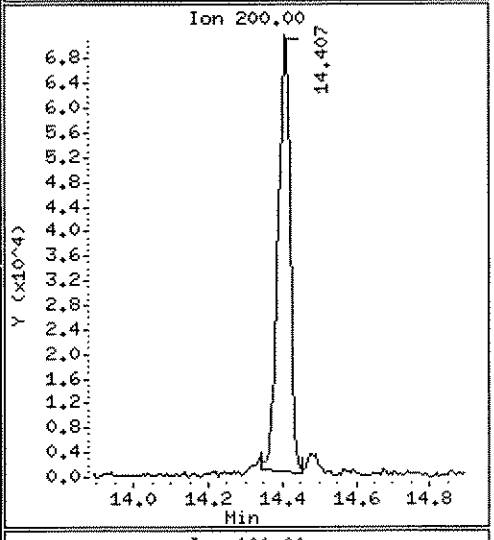


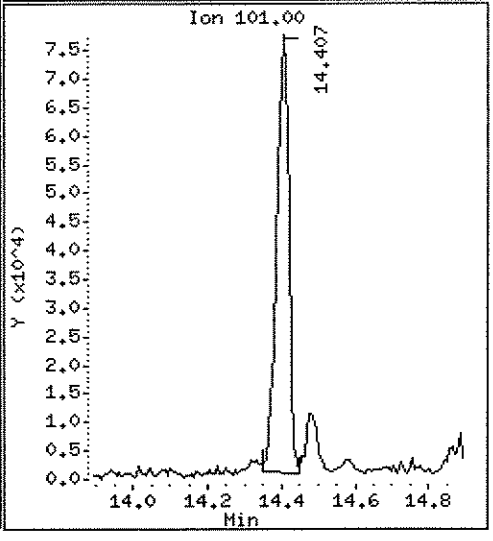












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

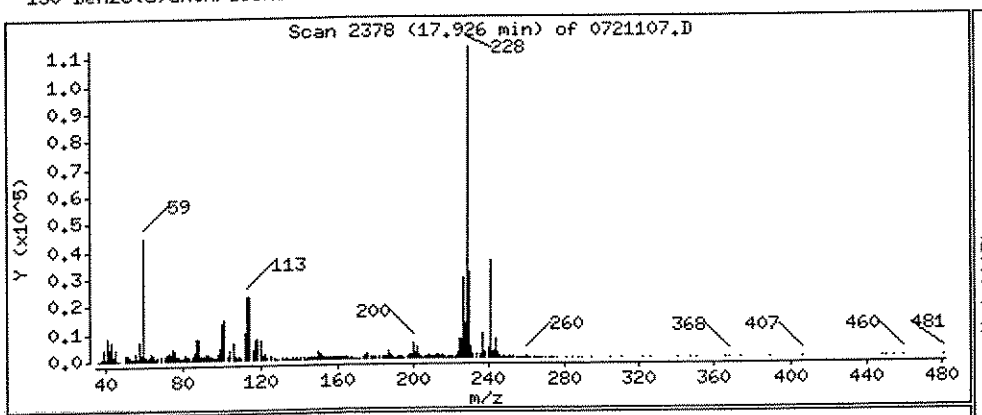
Operator: SDB

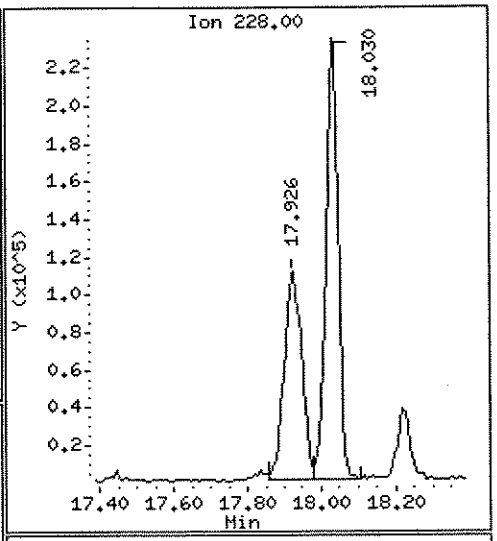
Column phase: fused silica

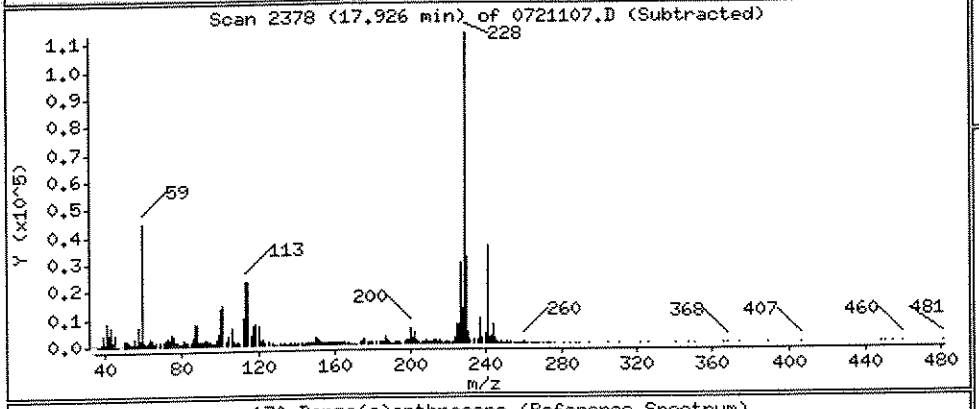
Column diameter: 0.25

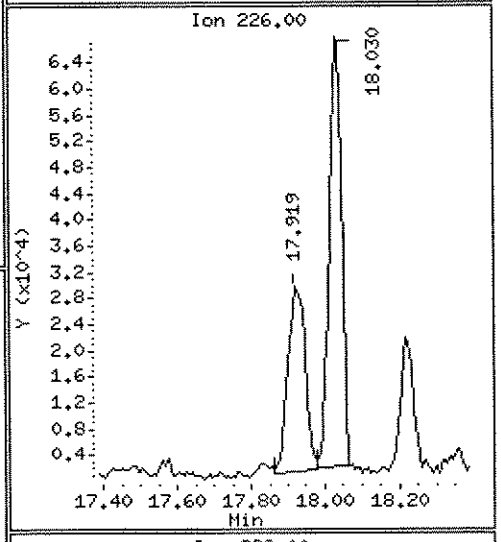
130 Benzo(a)anthracene

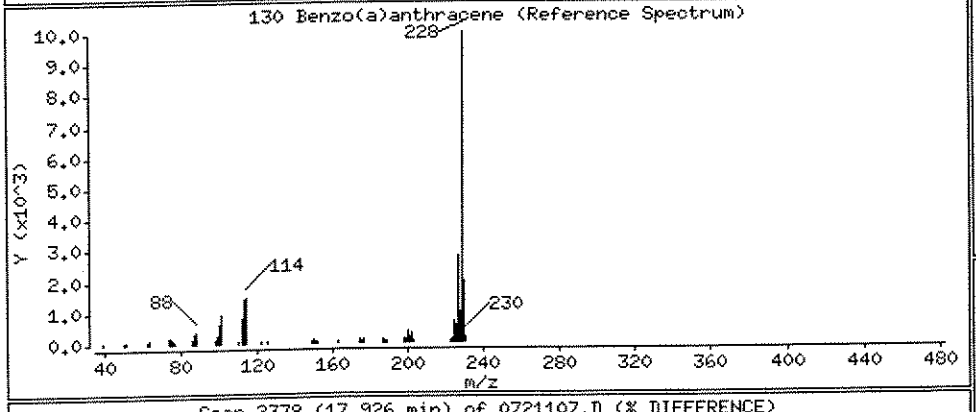
Concentration: 523.9 UG/KG

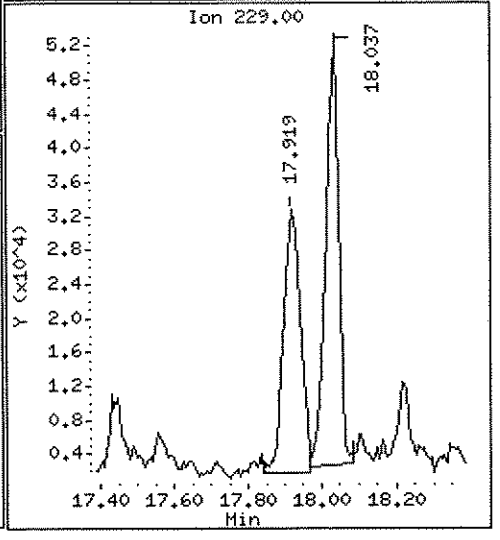


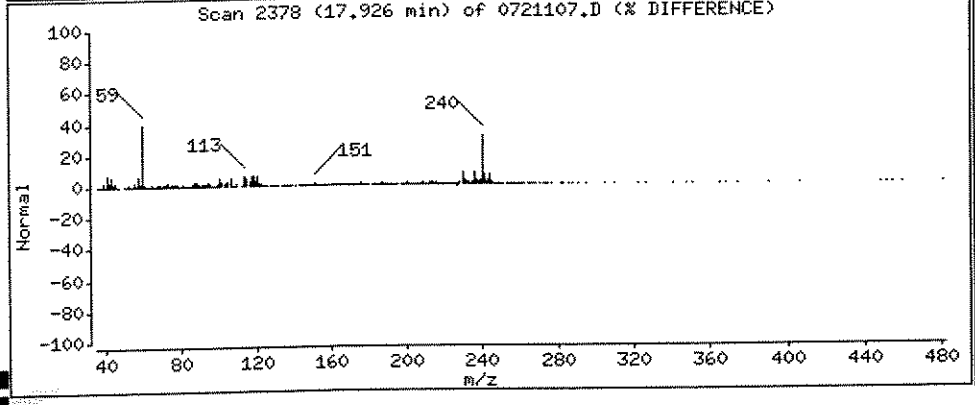












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

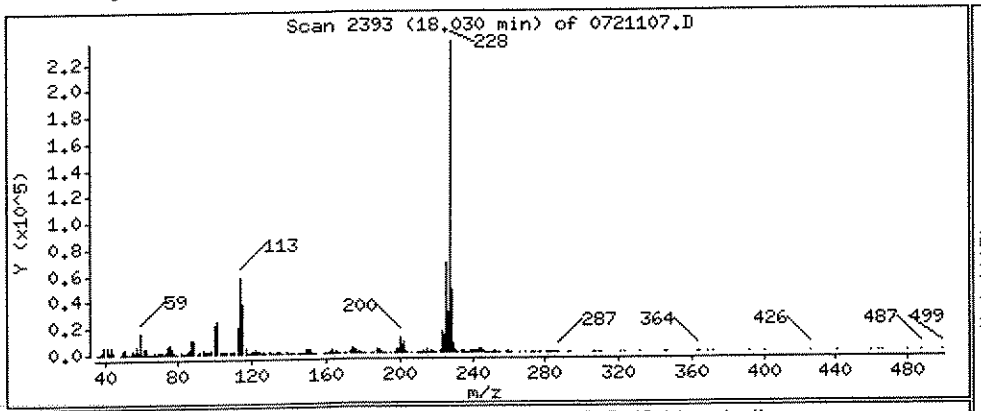
Operator: SDB

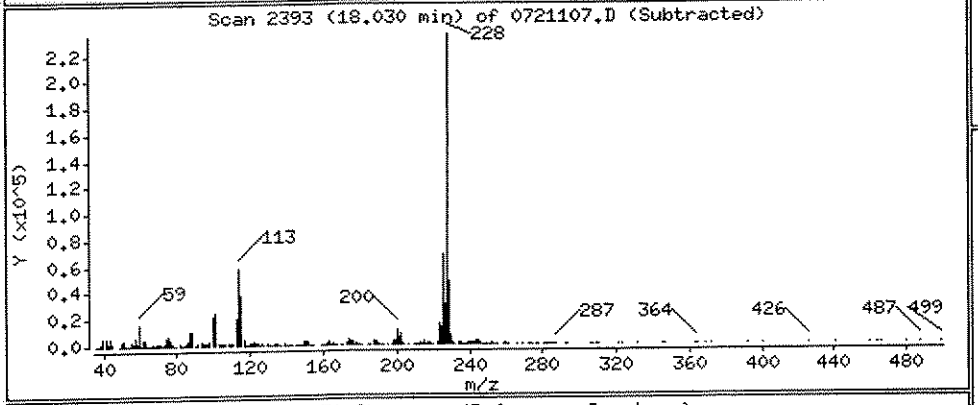
Column phase: fused silica

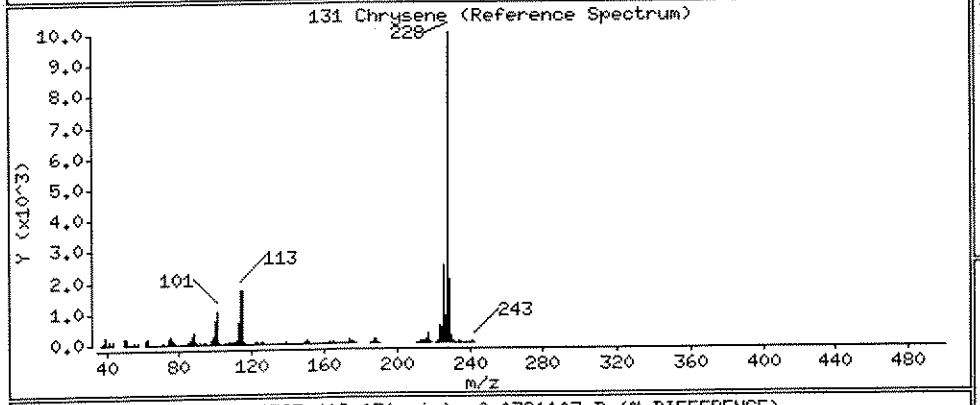
Column diameter: 0.25

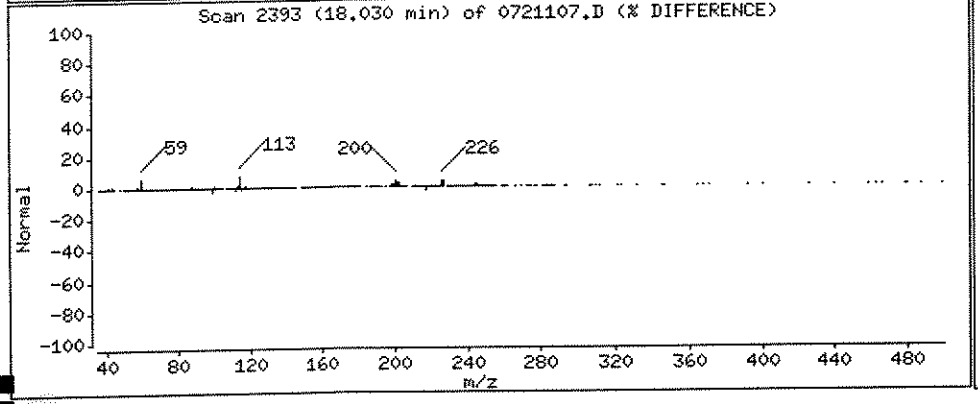
131 Chrysene

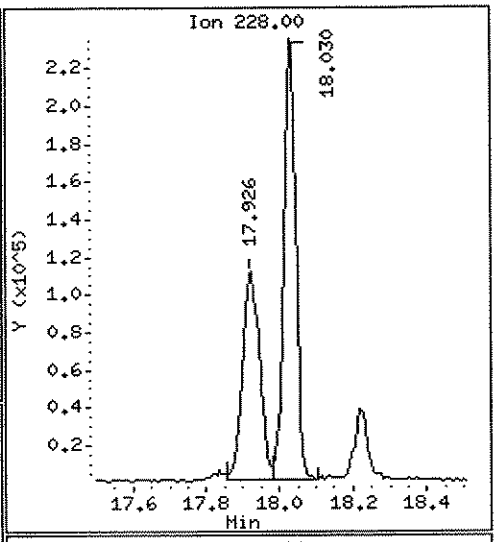
Concentration: 819.1 UG/KG

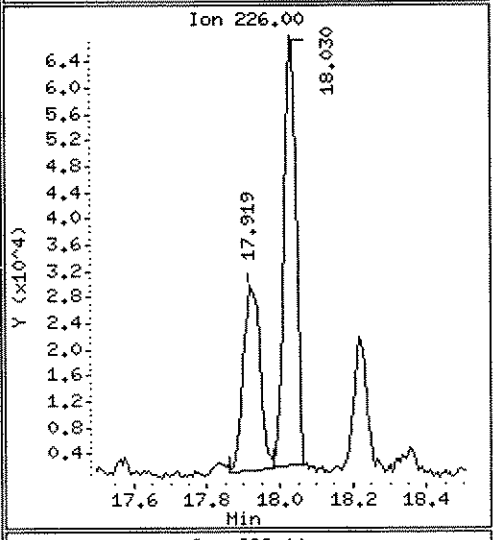


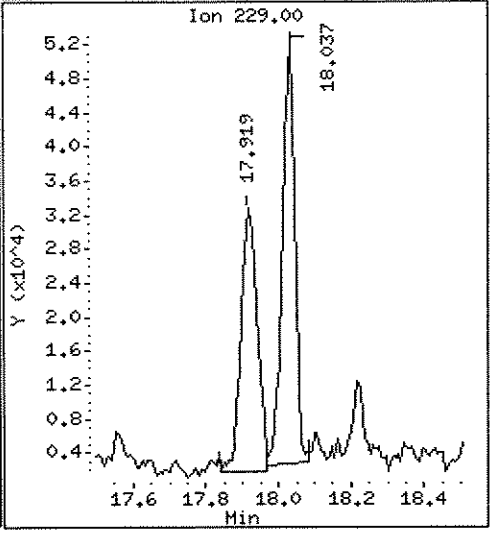












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

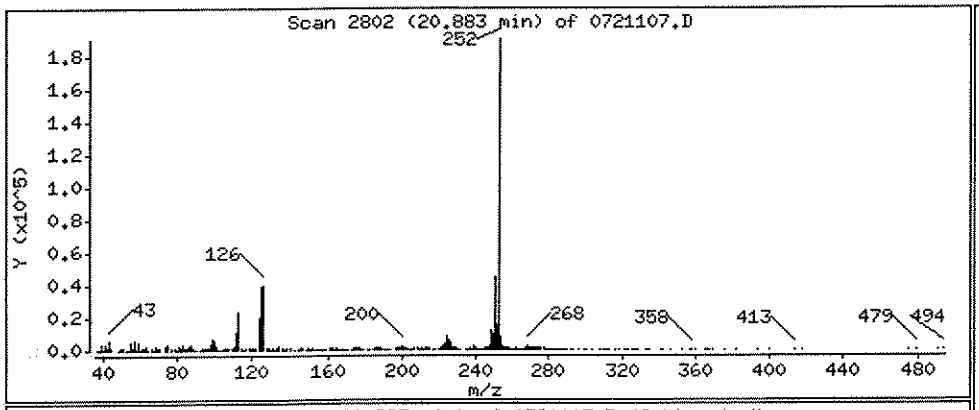
Client ID: 51CFM13S060725 Instrument: bna1.i

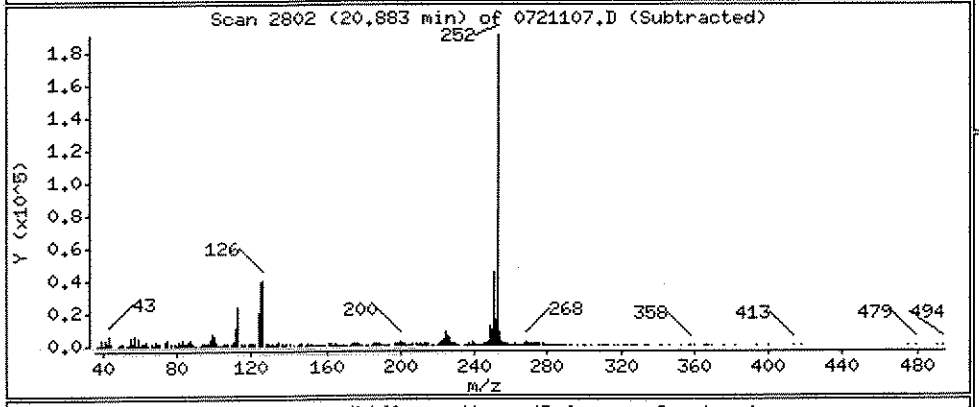
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

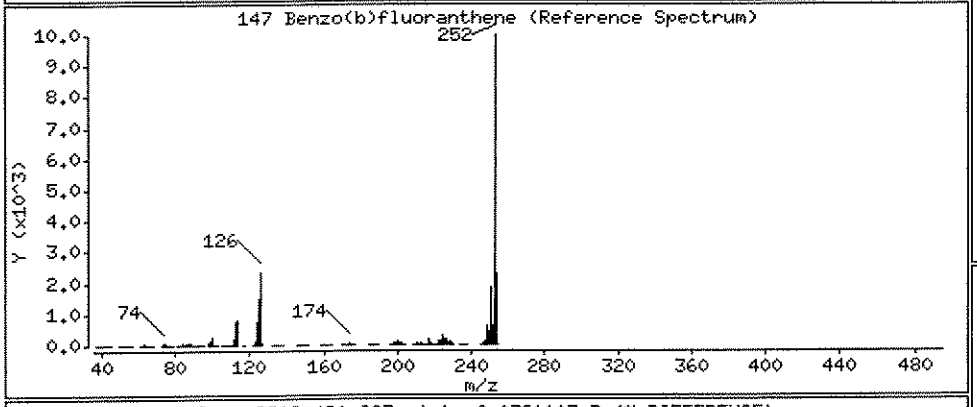
Volume Injected (uL): 0.5 Operator: SDB

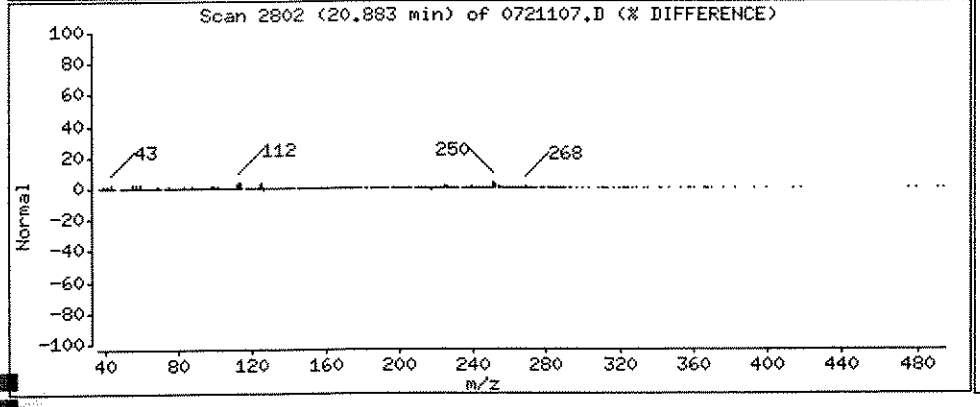
Column phase: fused silica Column diameter: 0.25

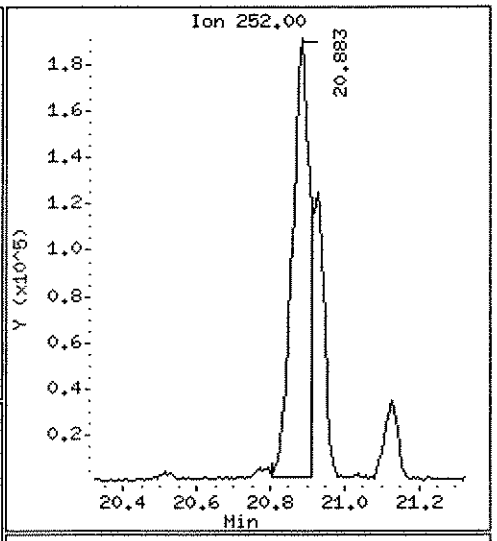
147 Benzo(b)fluoranthene Concentration: 1260 UG/KG

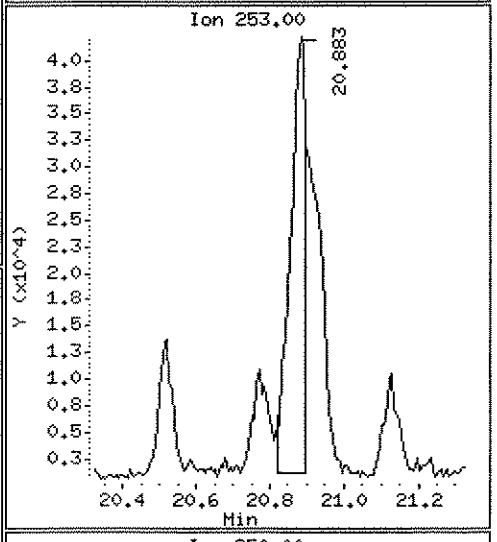


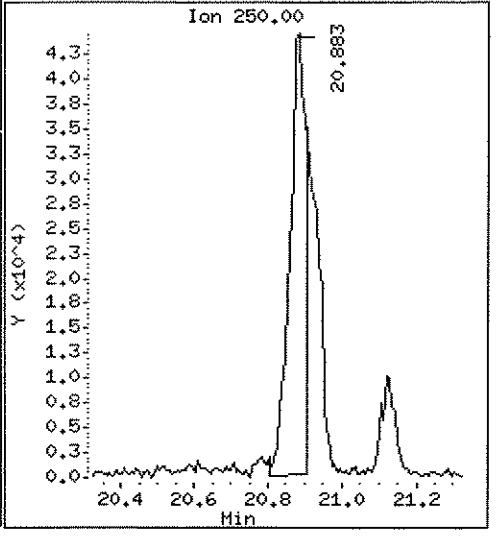












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

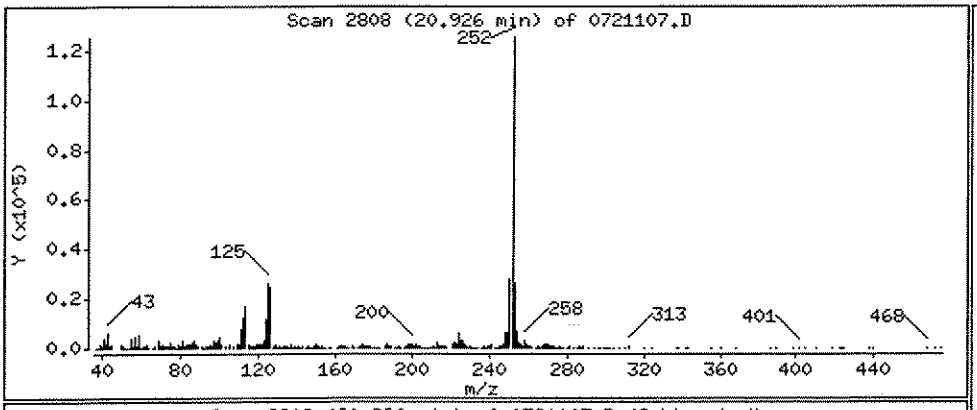
Client ID: 51CFM13S060725 Instrument: bna1.i

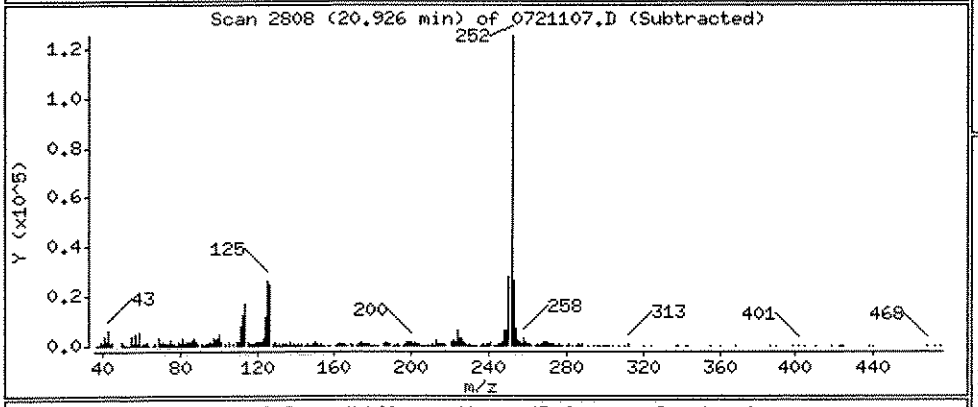
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

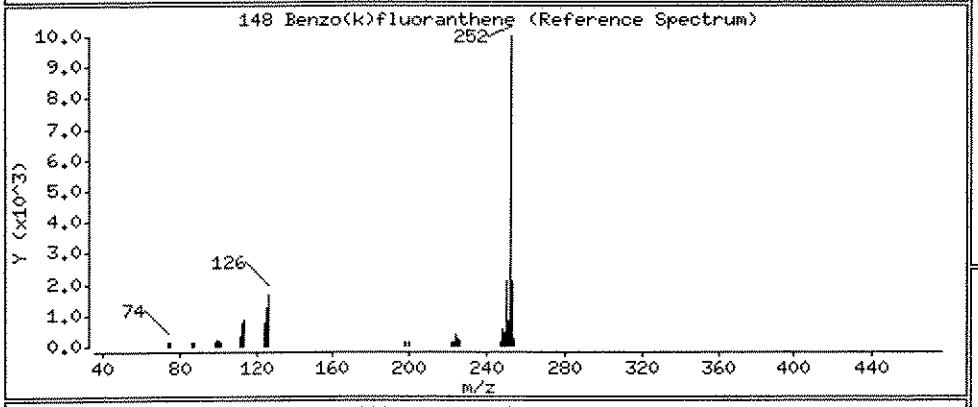
Volume Injected (uL): 0.5 Operator: SDB

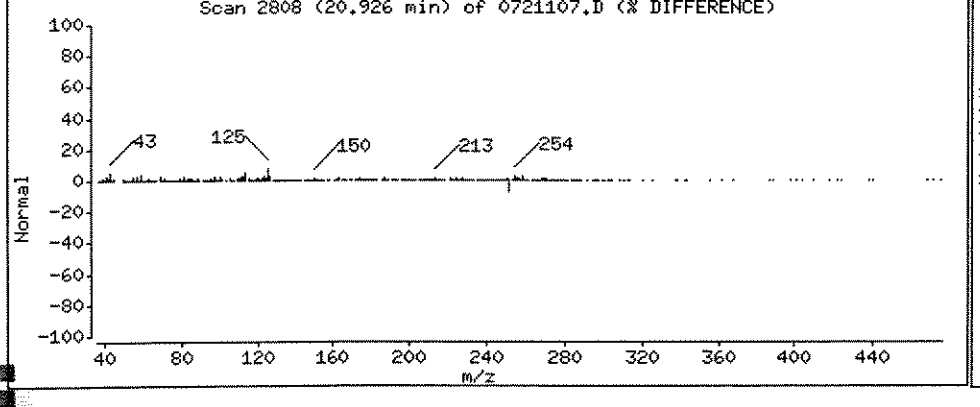
Column phase: fused silica Column diameter: 0.25

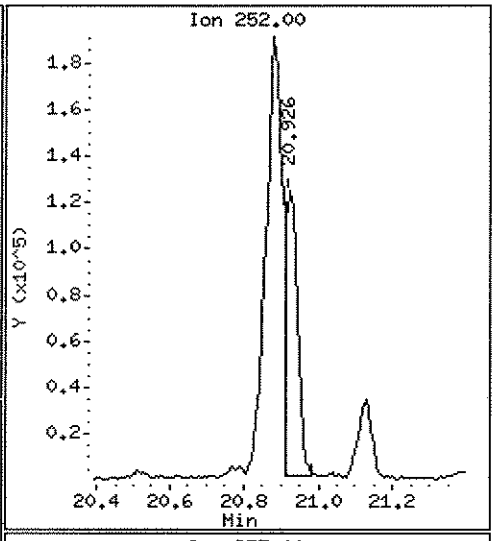
148 Benzo(k)fluoranthene Concentration: 585.2 UG/KG

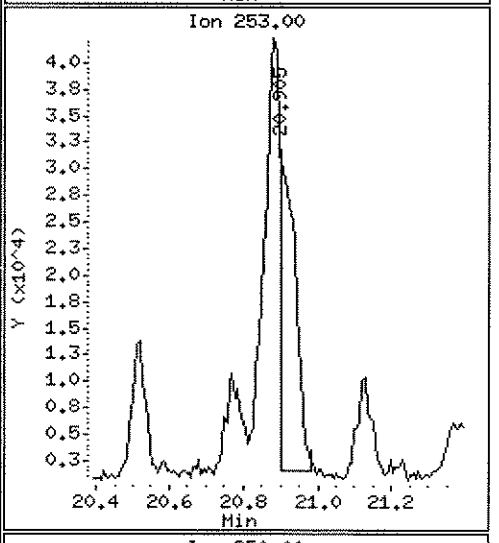


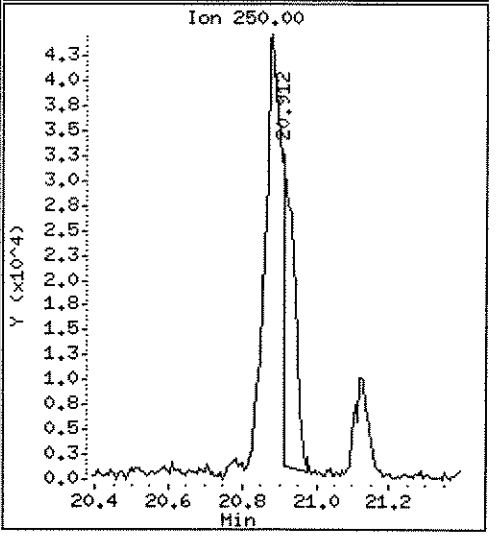












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

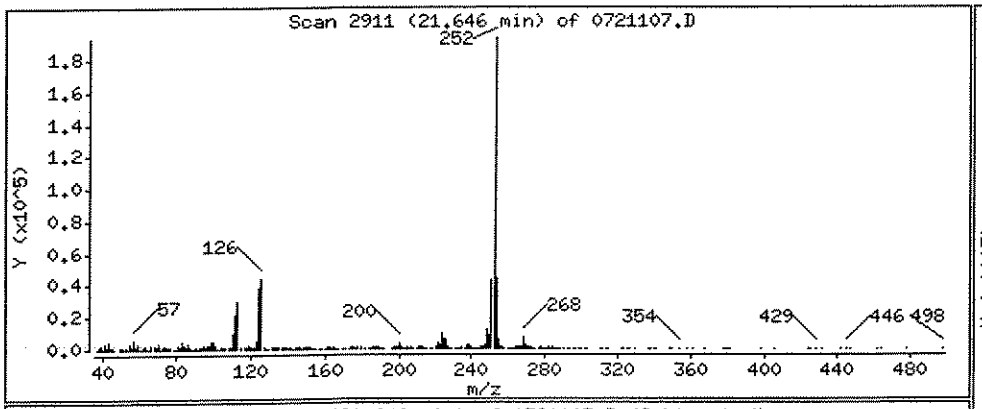
Client ID: 51CFM13S060725 Instrument: bna1.i

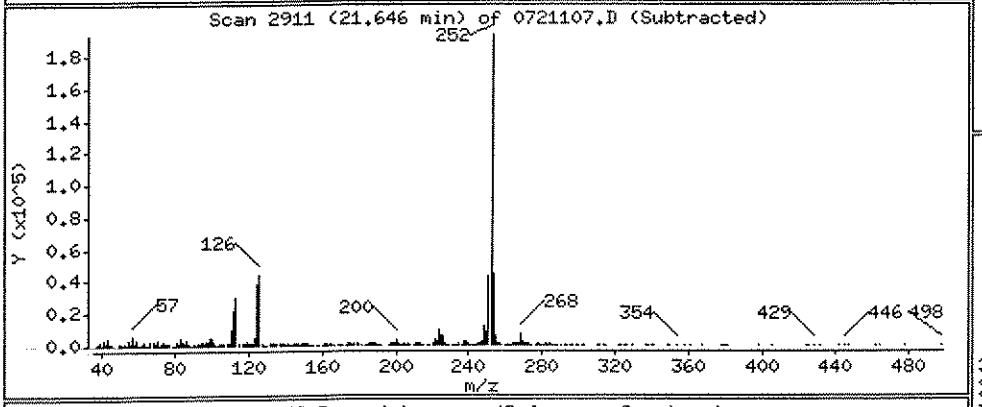
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

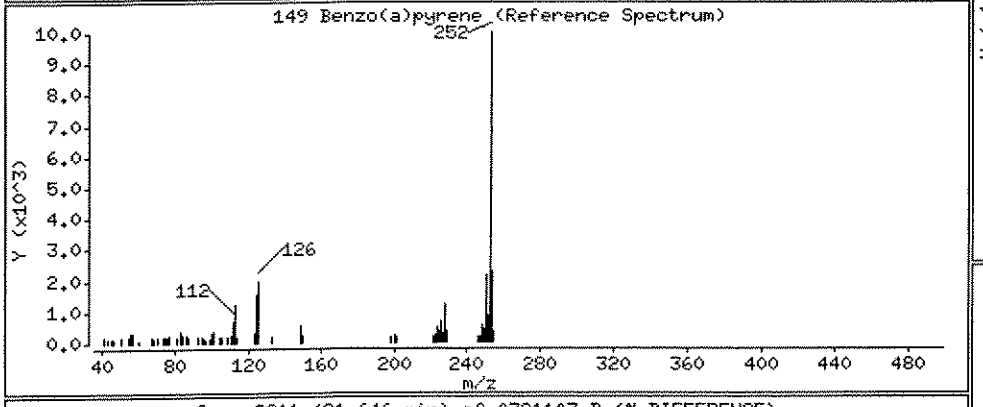
Volume Injected (uL): 0.5 Operator: SDB

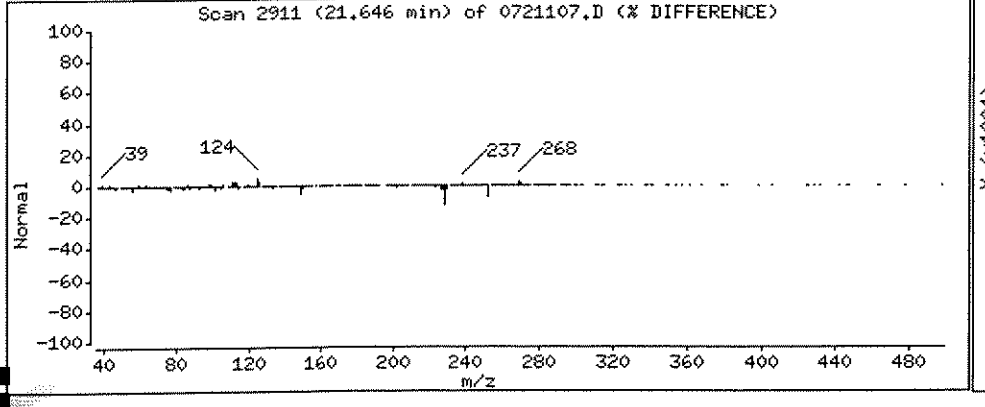
Column phase: fused silica Column diameter: 0.25

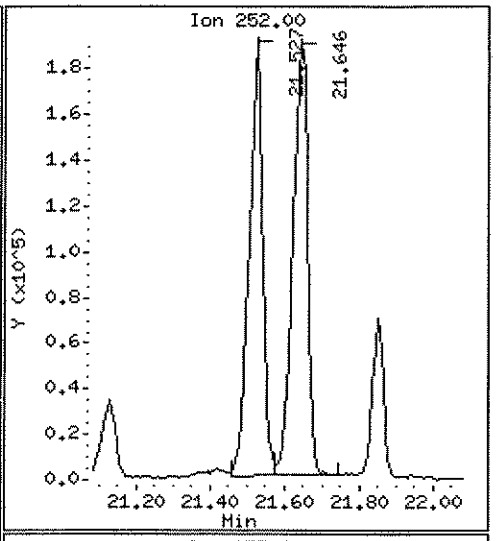
149 Benzo(a)pyrene Concentration: 1249 UG/KG

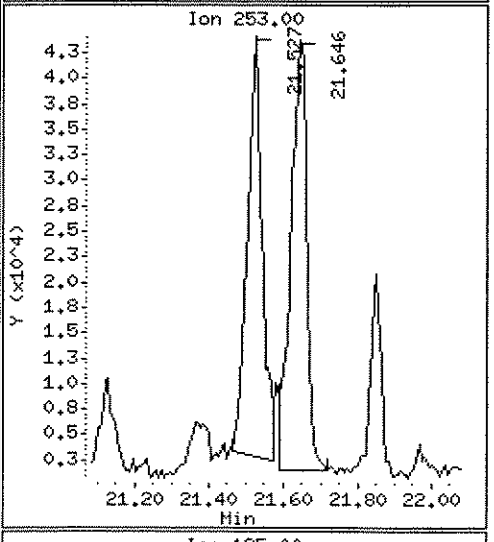


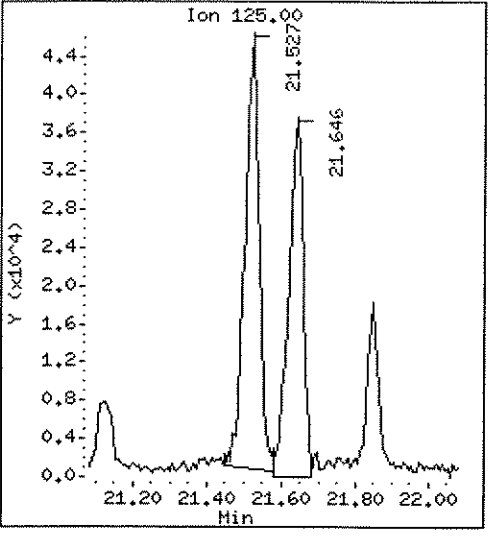












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

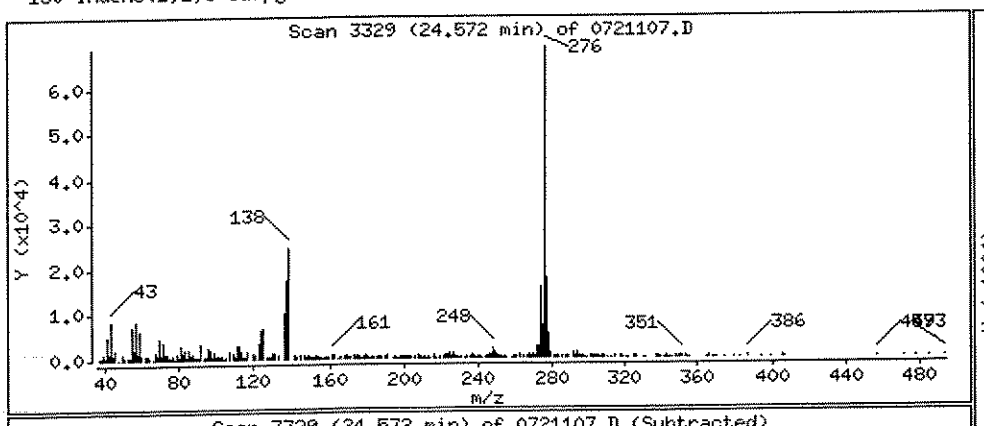
Operator: SDB

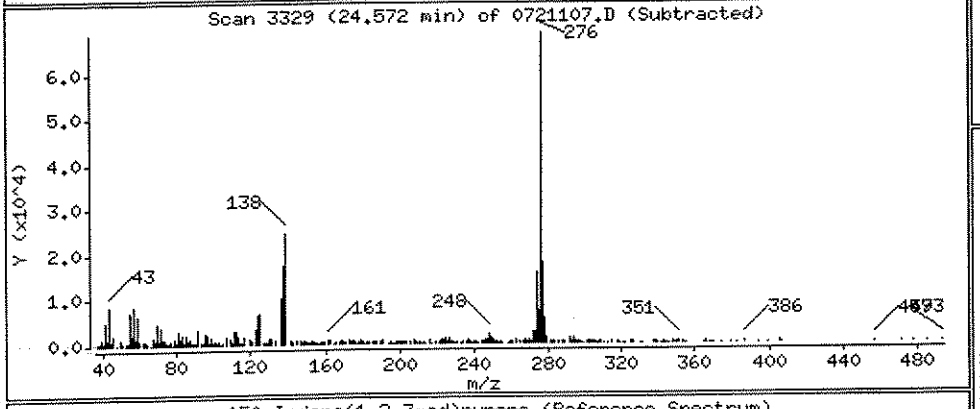
Column phase: fused silica

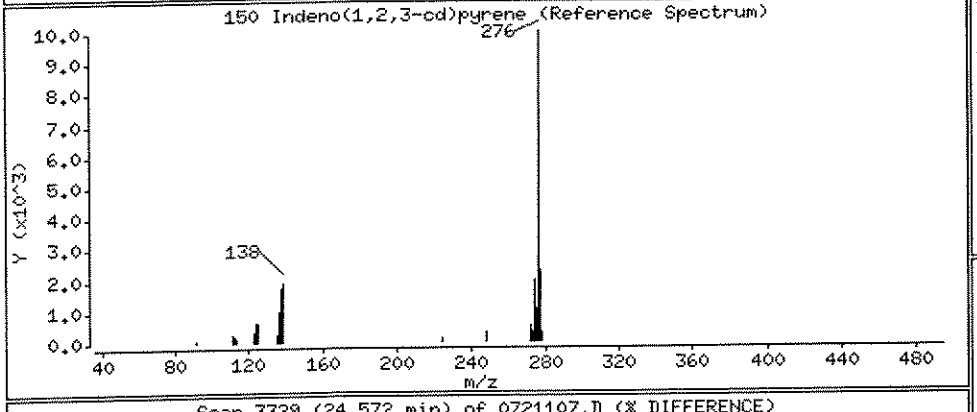
Column diameter: 0.25

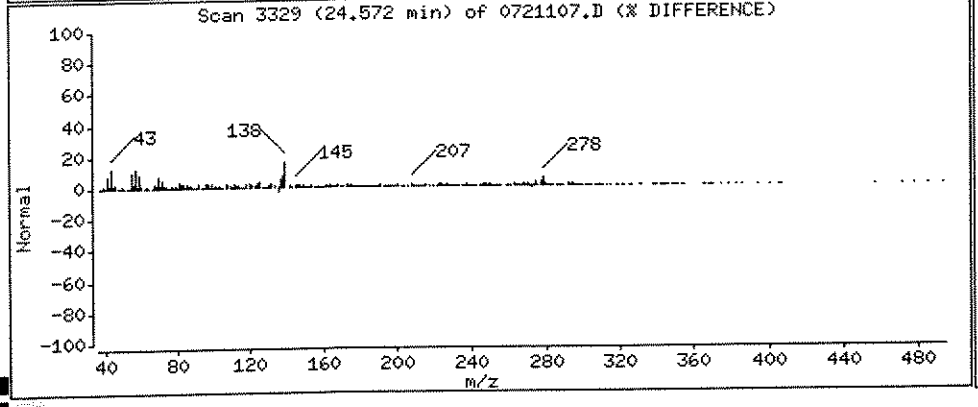
150 Indeno(1,2,3-cd)pyrene

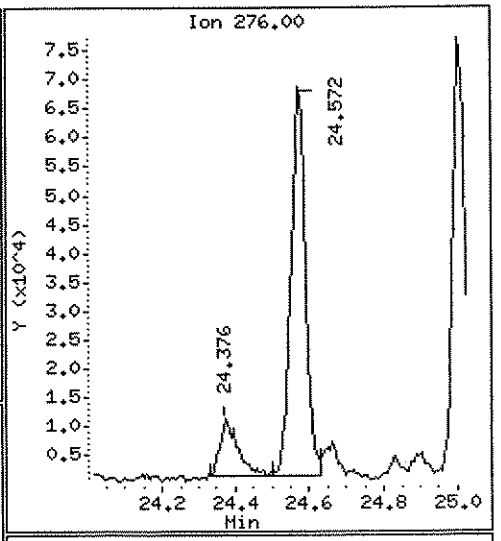
Concentration: 520.4 UG/KG

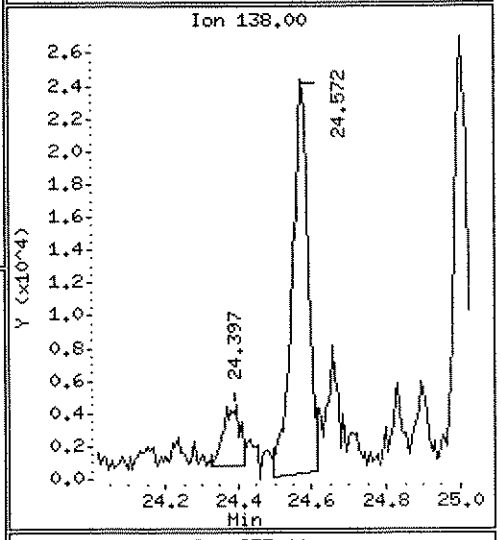


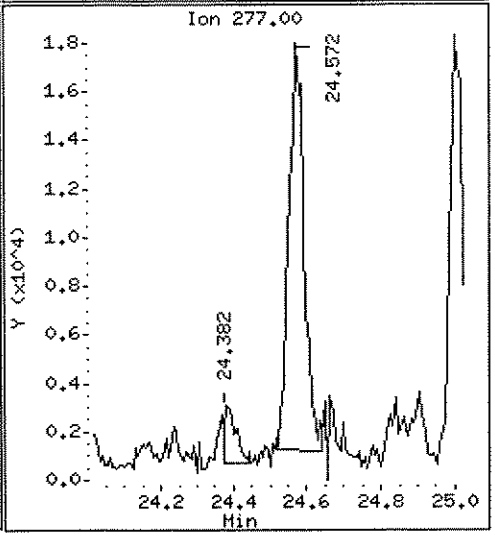












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

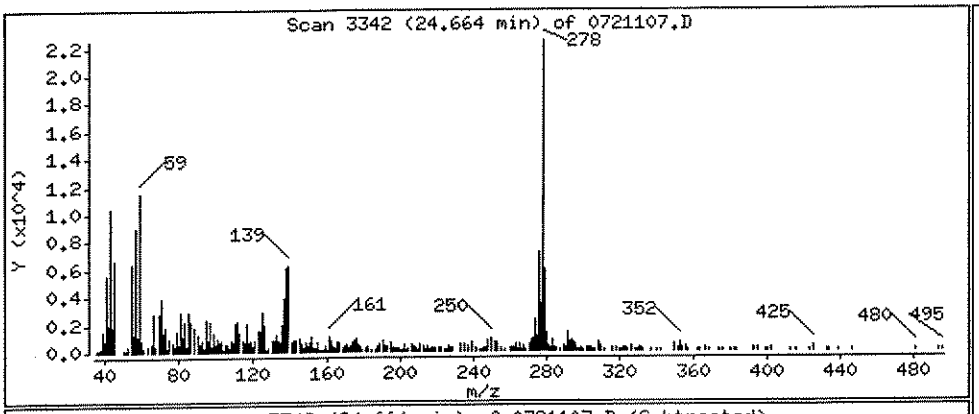
Client ID: 51CFM13S060725 Instrument: bna1.i

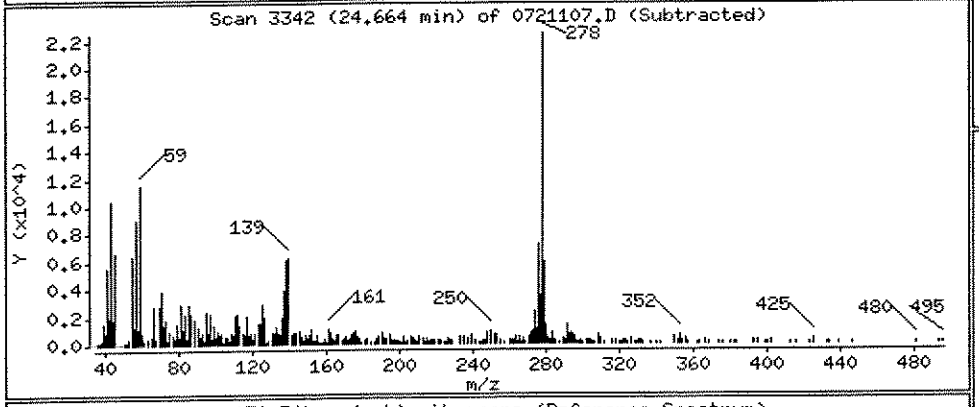
Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

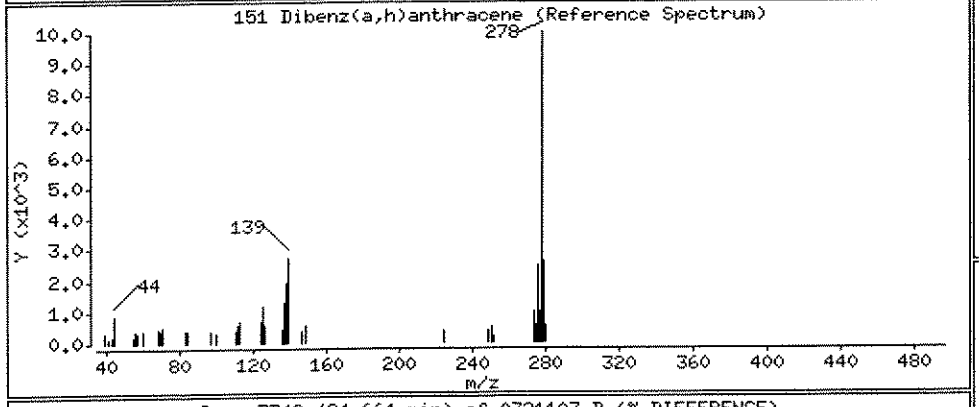
Volume Injected (uL): 0.5 Operator: SDB

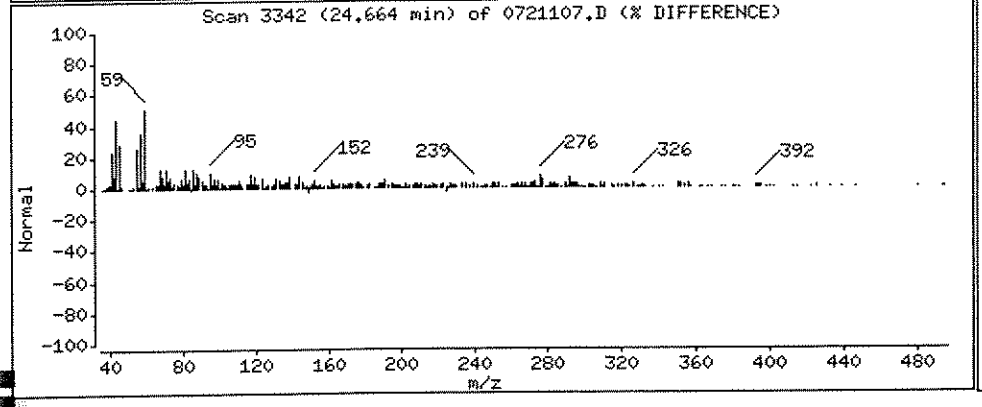
Column phase: fused silica Column diameter: 0.25

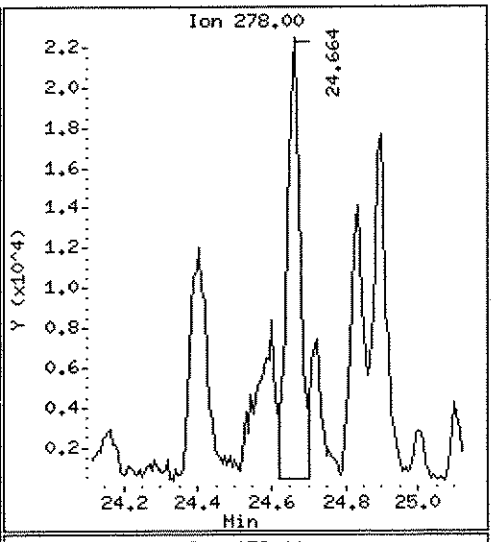
151 Dibenz(a,h)anthracene Concentration: 155.5 UG/KG

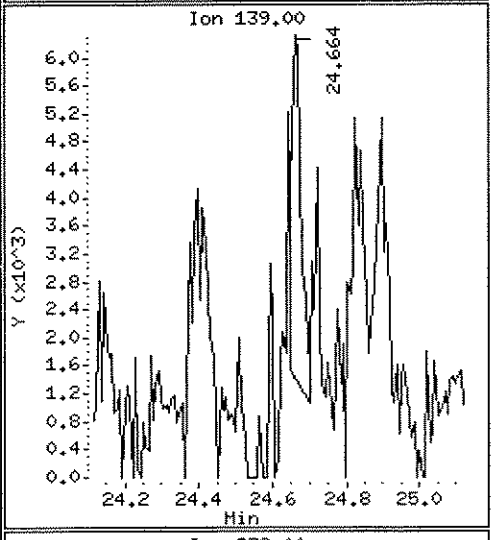


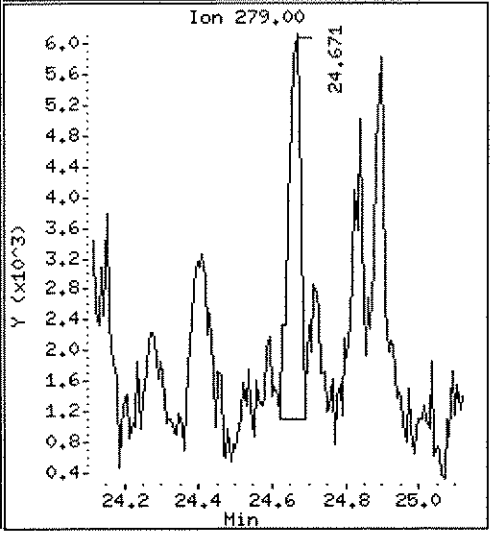












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721107.D

Date : 26-JUL-2006 19:11

Client ID: 51CFM13S060725

Instrument: bna1.i

Sample Info: 0607211-07;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

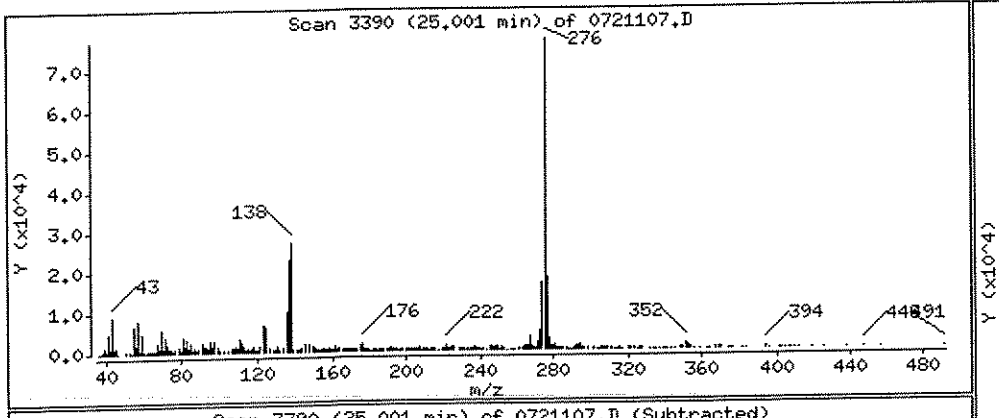
Operator: SDB

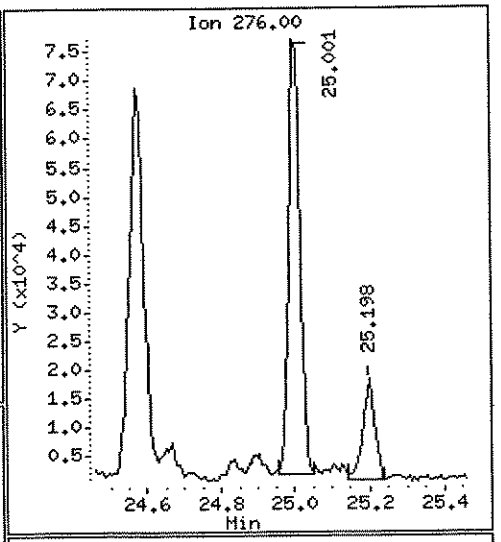
Column phase: fused silica

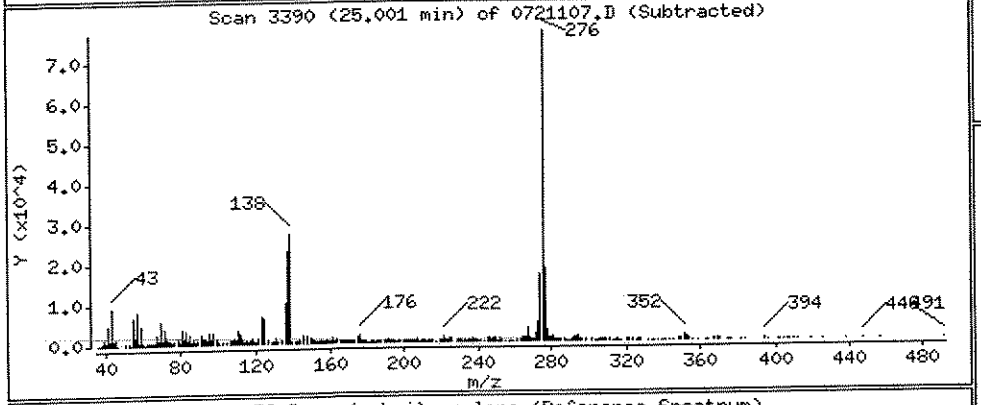
Column diameter: 0.25

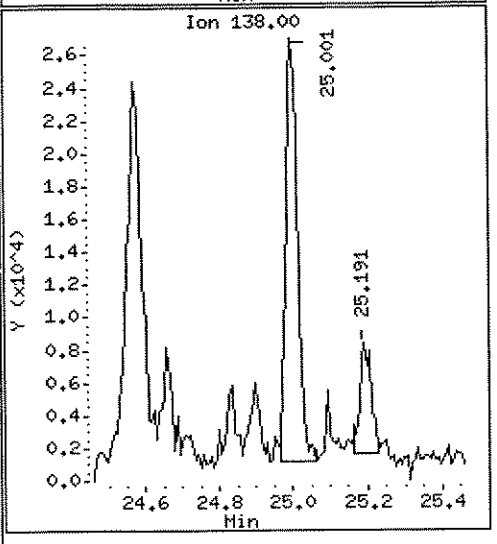
152 Benzo(g,h,i)perylene

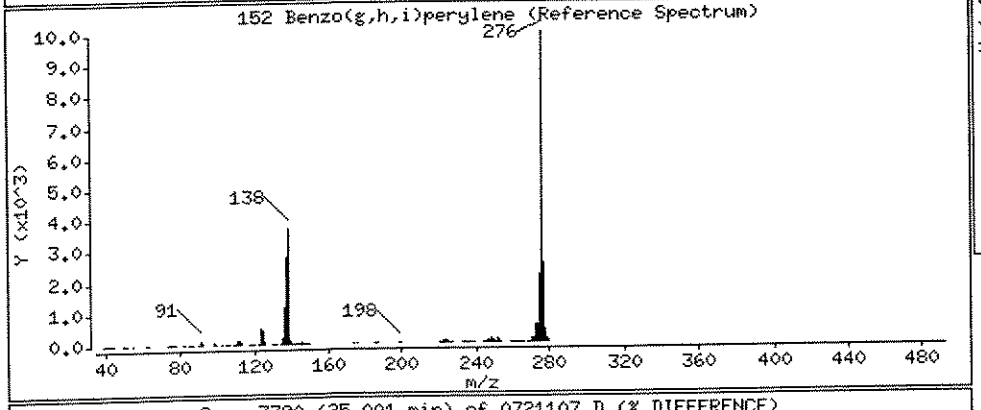
Concentration: 441.3 UG/KG

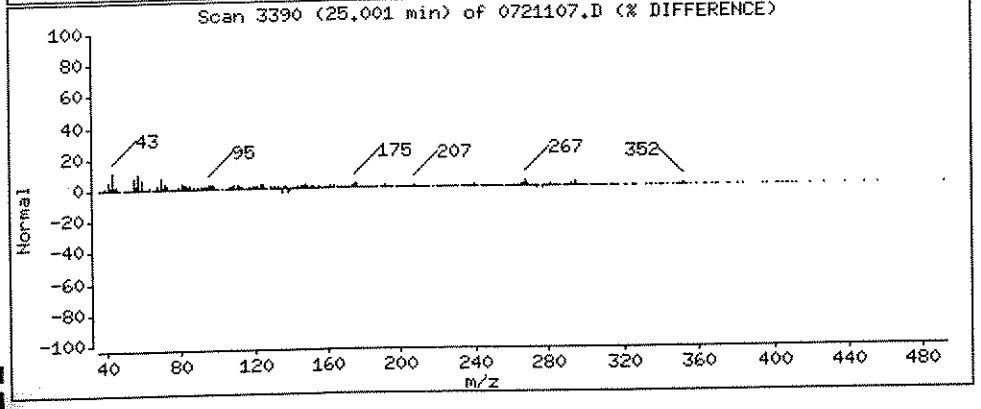












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 19:46

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	38	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	100	J
56-55-3	Benzo(a)anthracene	21	180	1200	
205-99-2	Benzo(b)fluoranthene	21	180	3700	E
207-08-9	Benzo(k)fluoranthene	21	180	1300	
191-24-2	Benzo(g,h,i)perylene	21	180	970	
50-32-8	Benzo(a)pyrene	21	110	2100	
218-01-9	Chrysene	21	180	1900	
53-70-3	Dibenz(a,h)anthracene	21	110	300	
206-44-0	Fluoranthene	21	180	1600	
86-73-7	Fluorene	21	180	36	J
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	1100	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	780	
129-00-0	Pyrene	21	180	1600	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D
Lab Smp Id: 0607211-08 Client Smp ID: 51CFM14S060725
Inj Date : 26-JUL-2006 19:46
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-08;15.1;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	93.700	Percent Solids

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	591902	40.0000	
*	31 Naphthalene-d8	136	5.090	5.088	(1.000)	1910091	40.0000	
$	32 Nitrobenzene-d5	82	4.547	4.553	(0.893)	616873	29.5847	1045
*	65 Acenaphthene-d10	164	7.384	7.382	(1.000)	931045	40.0000	
$	70 2-Fluorobiphenyl	172	6.341	6.345	(0.859)	886388	29.9165	1057
	76 Acenaphthene	153	7.433	7.437	(1.007)	29091	1.08264	38.26(a)
	84 Fluorene	166	8.434	8.434	(1.142)	29473	1.02553	36.24(a)
*	97 Phenanthrene-d10	188	10.596	10.583	(1.000)	1157472	40.0000	
	106 Phenanthrene	178	10.652	10.645	(1.005)	725247	21.9758	776.6
	107 Anthracene	178	10.748	10.755	(1.014)	95501	2.93112	103.6(a)
	110 Fluoranthene	202	13.851	13.814	(1.307)	1515722	46.3902	1639
*	124 Chrysene-d12	240	17.993	17.933	(1.000)	754402	40.0000	
	126 Pyrene	202	14.427	14.390	(0.802)	1391662	46.1914	1632

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D
Report Date: 27-Jul-2006 09:06

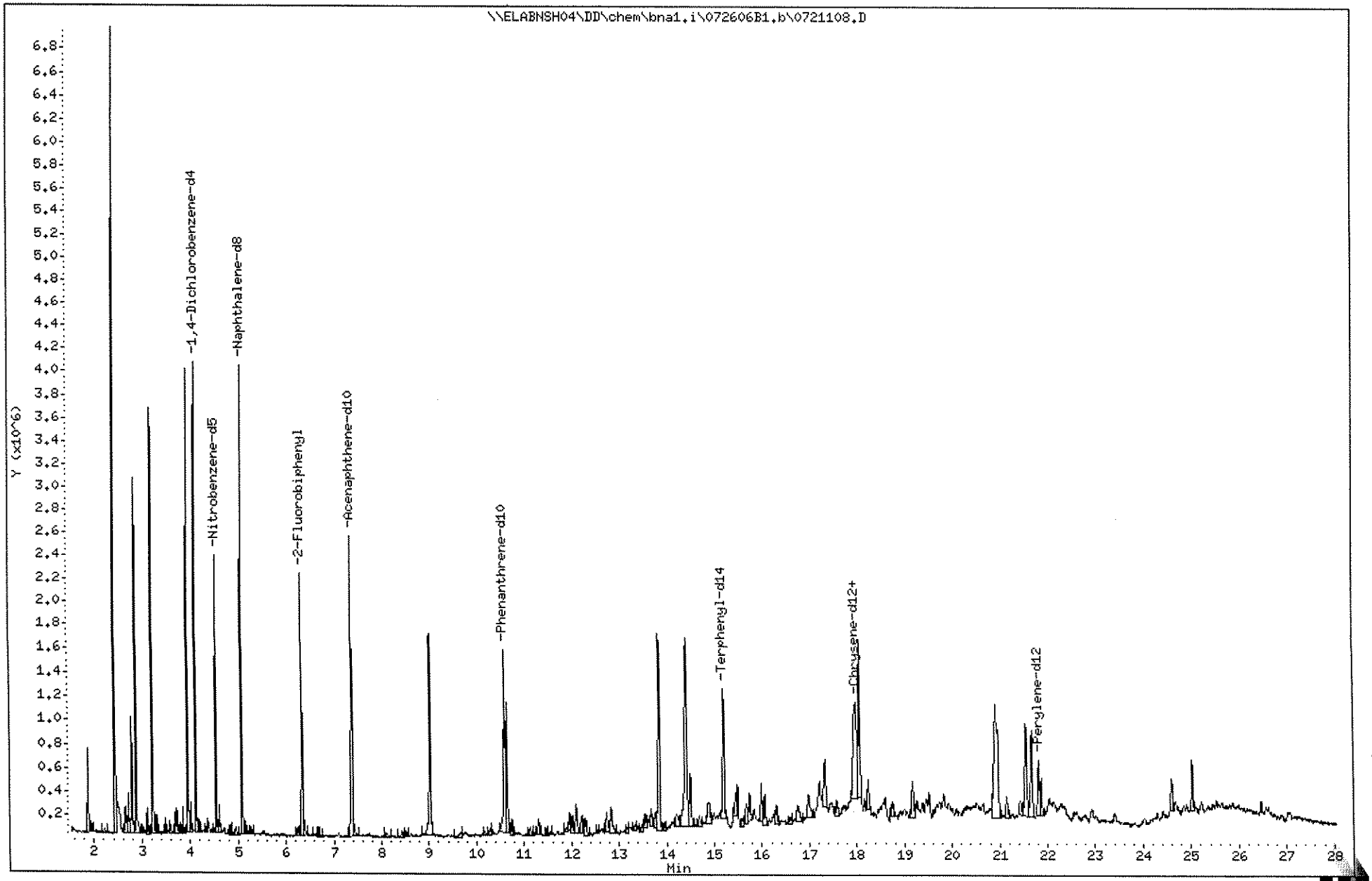
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.206	15.177	(0.845)	692064	36.3295	1284
130 Benzo(a)anthracene	228	17.944	17.885	(0.997)	799521	32.8928	1162
131 Chrysene	228	18.070	18.002	(1.004)	1209213	54.4672	1925(H)
* 145 Perylene-d12	264	21.824	21.736	(1.000)	415015	40.0000	
147 Benzo(b)fluoranthene	252	20.927	20.823	(0.959)	1336394	104.534	3694(AM)
148 Benzo(k)fluoranthene	252	20.969	20.893	(0.961)	481941	36.3353	1284(M)
149 Benzo(a)pyrene	252	21.676	21.584	(0.993)	663239	60.1637	2126(H)
150 Indeno(1,2,3-cd)pyrene	276	24.597	24.521	(1.127)	285009	30.3026	1071
151 Dibenz(a,h)anthracene	278	24.674	24.618	(1.131)	80556	8.50766	300.6
152 Benzo(g,h,i)perylene	276	25.026	24.961	(1.147)	267131	27.3688	967.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D
Date : 26-JUL-2006 19:46
Client ID: 51CFM14S060725
Instrument: bna1.i
Sample Info: 0607211-08;15,1;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000156



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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

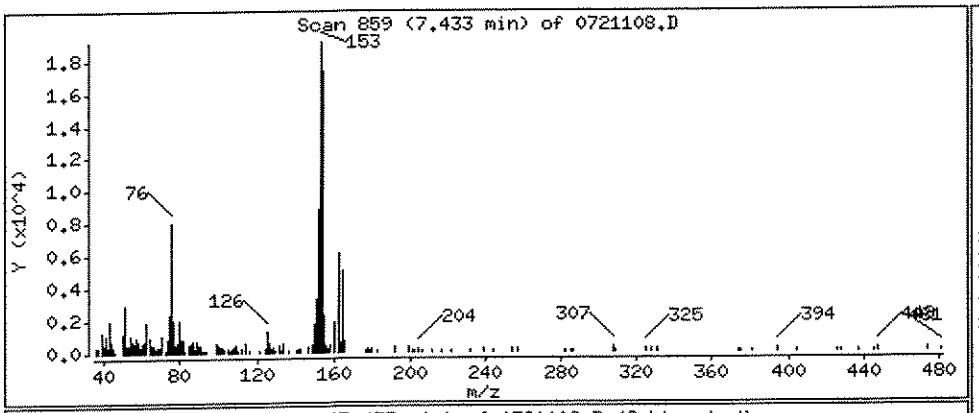
Client ID: 51CFH14S060725 Instrument: bna1.i

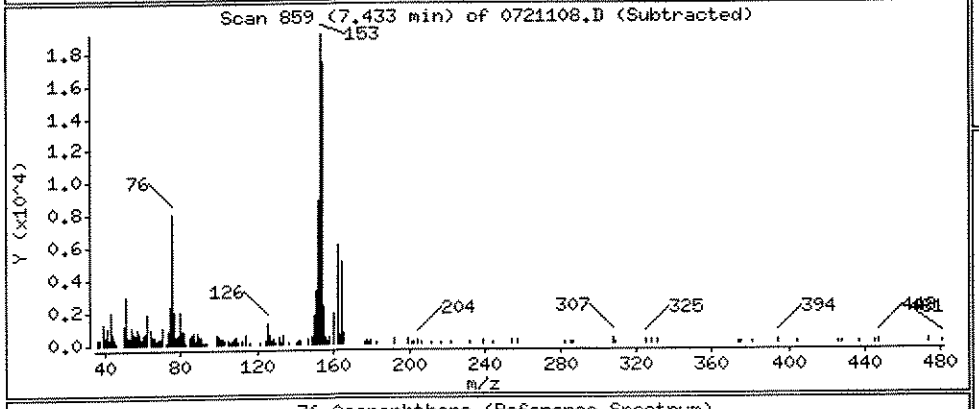
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

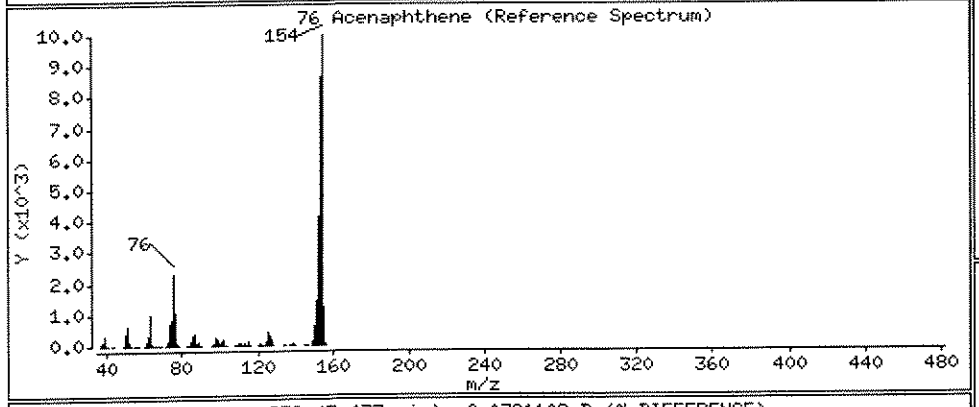
Volume Injected (uL): 0.5 Operator: SDB

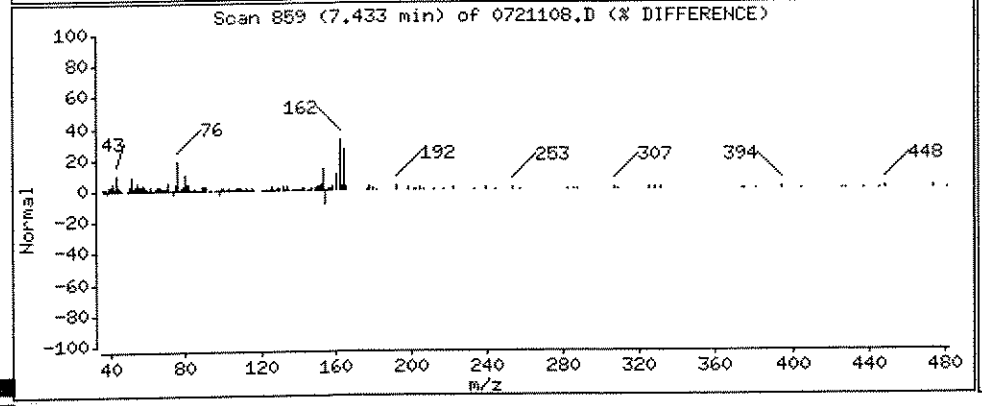
Column phase: fused silica Column diameter: 0.25

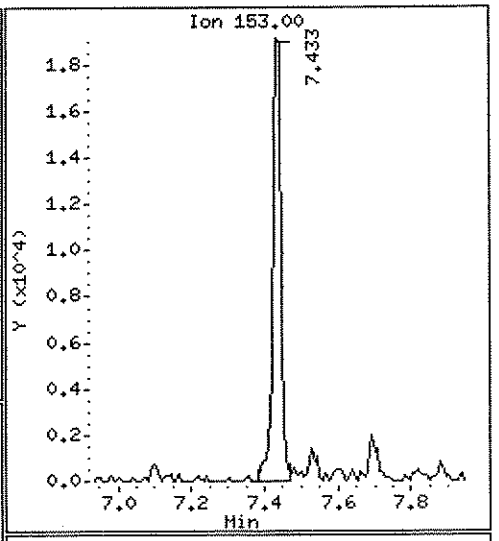
76 Acenaphthene Concentration: 35.85 UG/KG

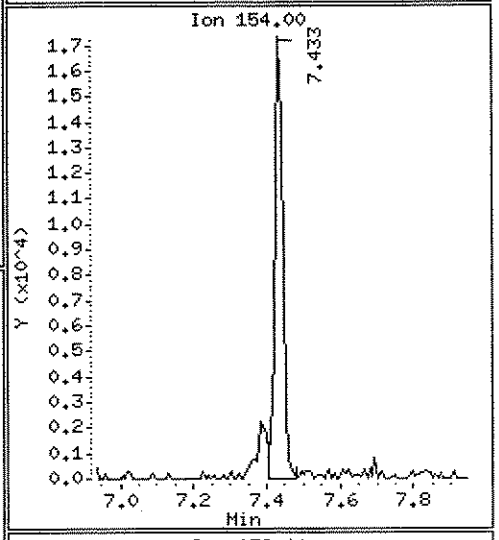


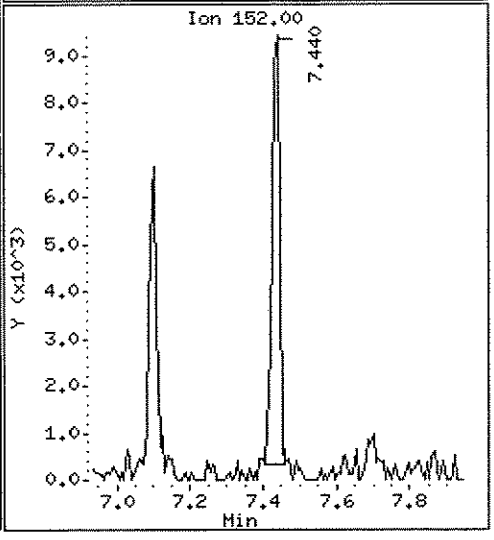












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

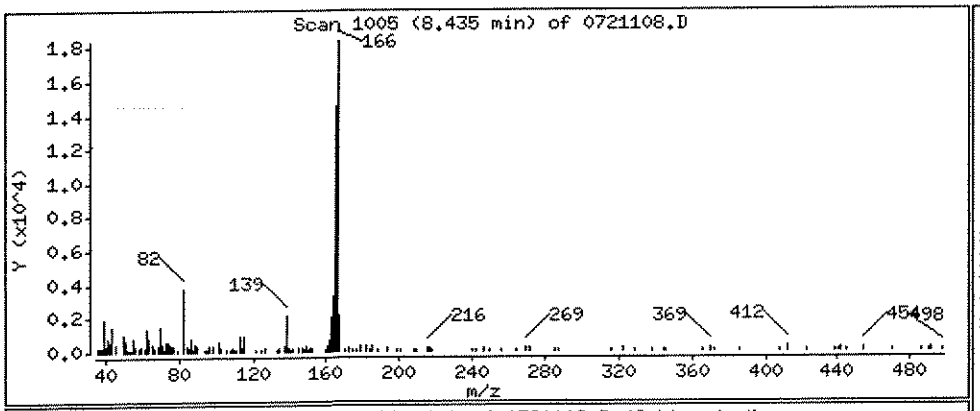
Client ID: 51CFM14S060725 Instrument: bna1.i

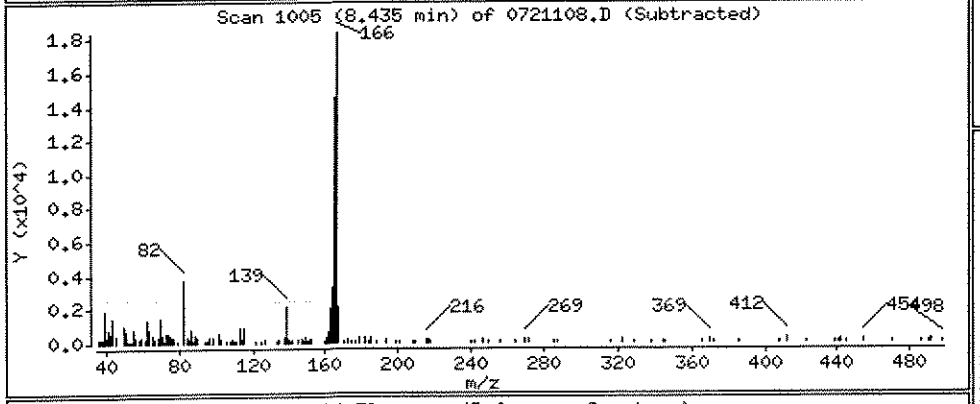
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

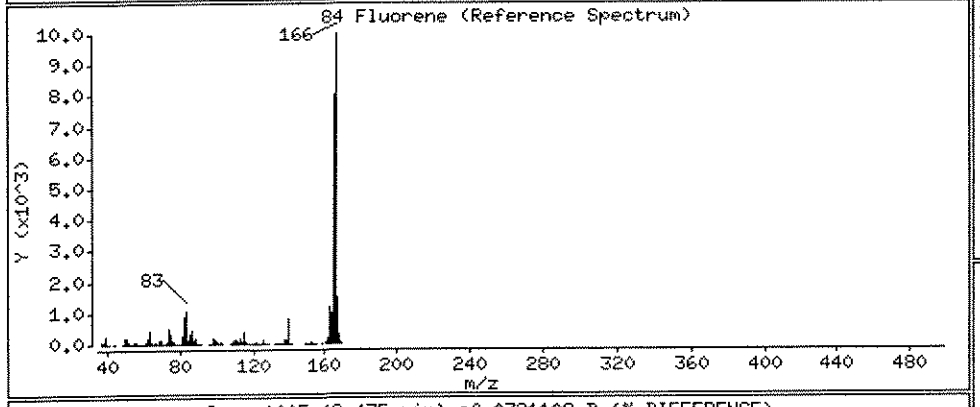
Volume Injected (uL): 0.5 Operator: SDB

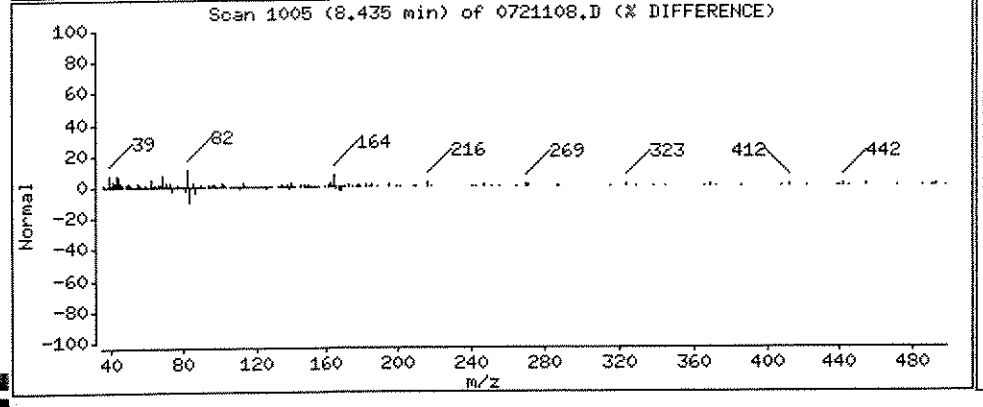
Column phase: fused silica Column diameter: 0.25

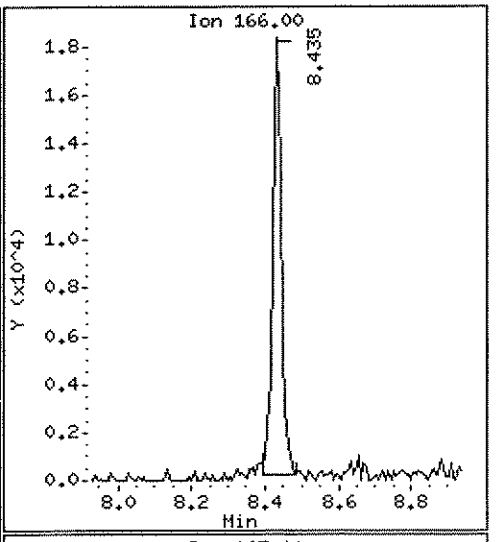
84 Fluorene Concentration: 33.96 UG/KG

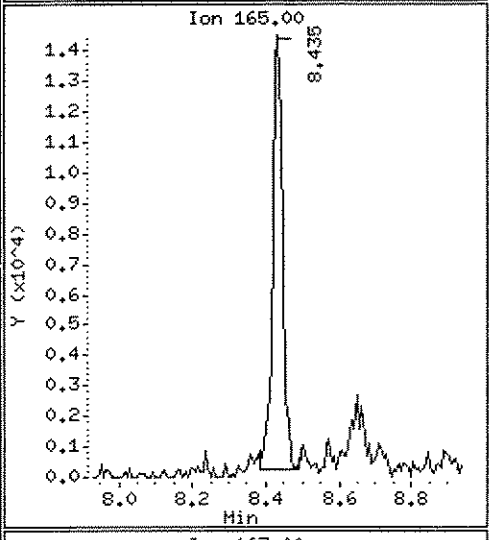


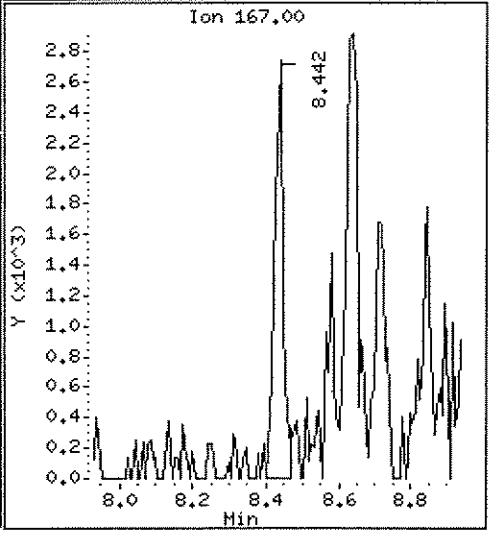












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

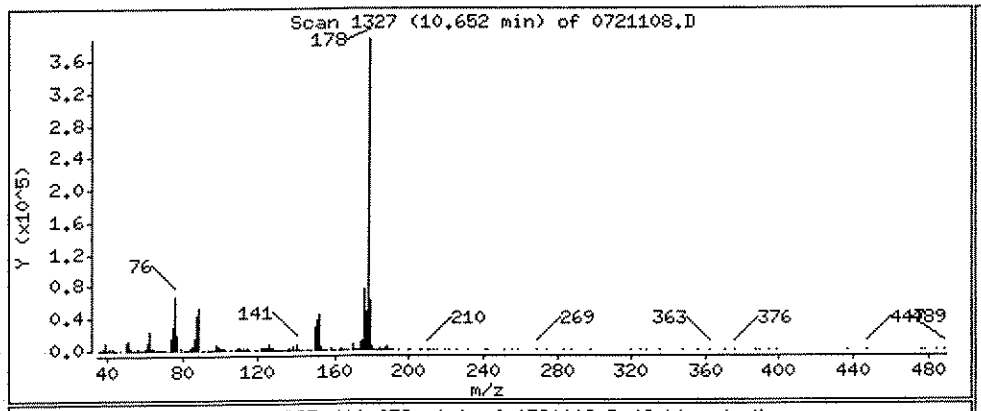
Client ID: 51CFM14S060725 Instrument: bna1.i

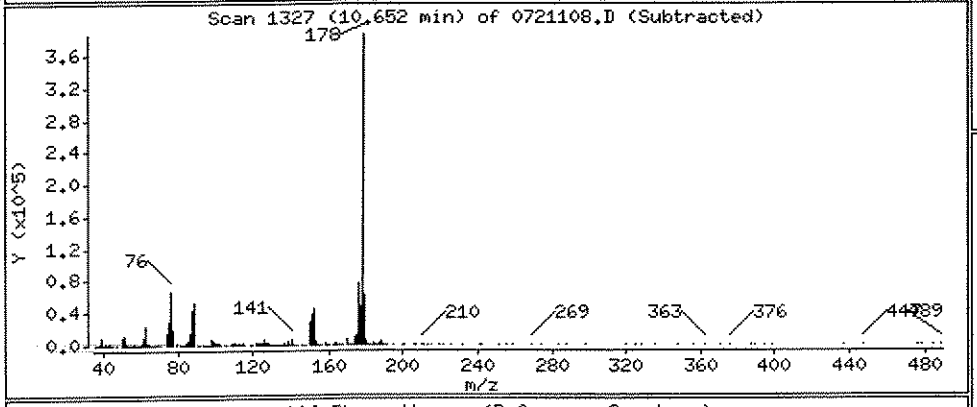
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

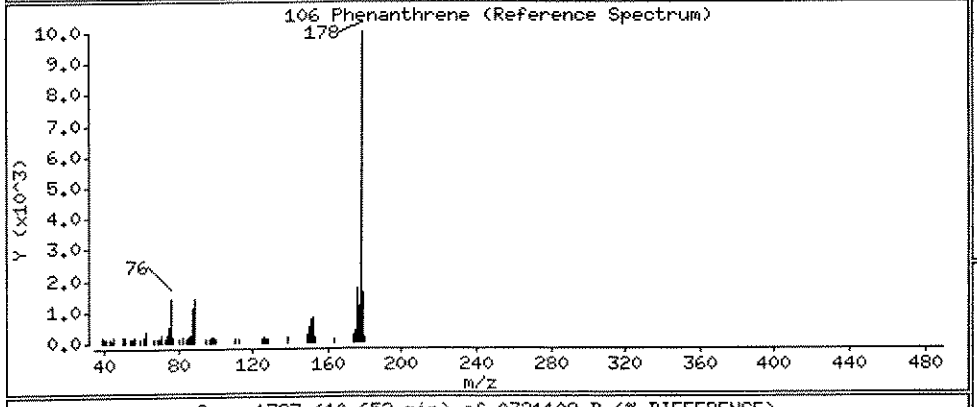
Volume Injected (uL): 0.5 Operator: SDB

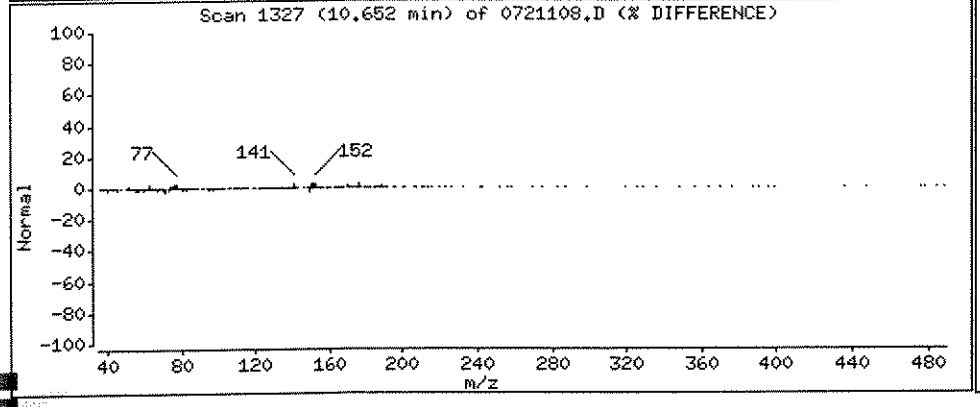
Column phase: fused silica Column diameter: 0.25

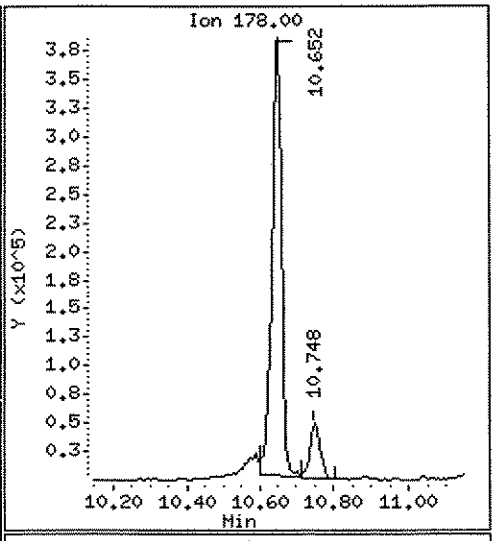
106 Phenanthrene Concentration: 727.7 UG/KG

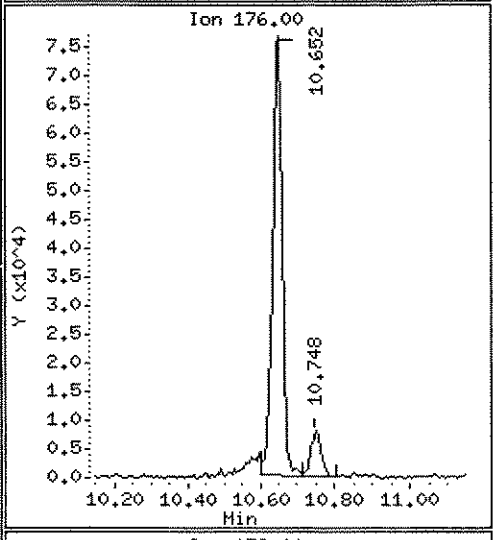


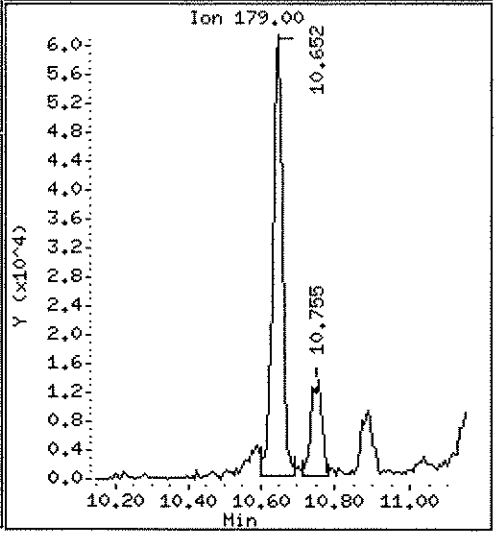












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

Client ID: 51CFM14S060725

Instrument: bna1.i

Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

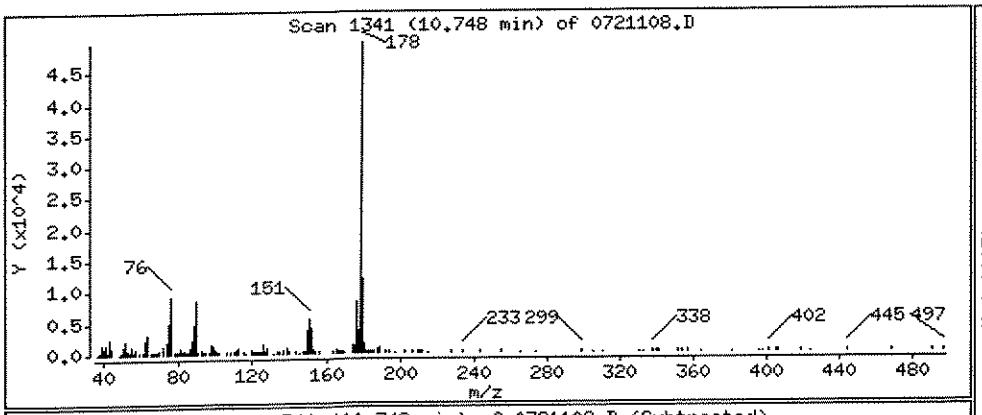
Operator: SDB

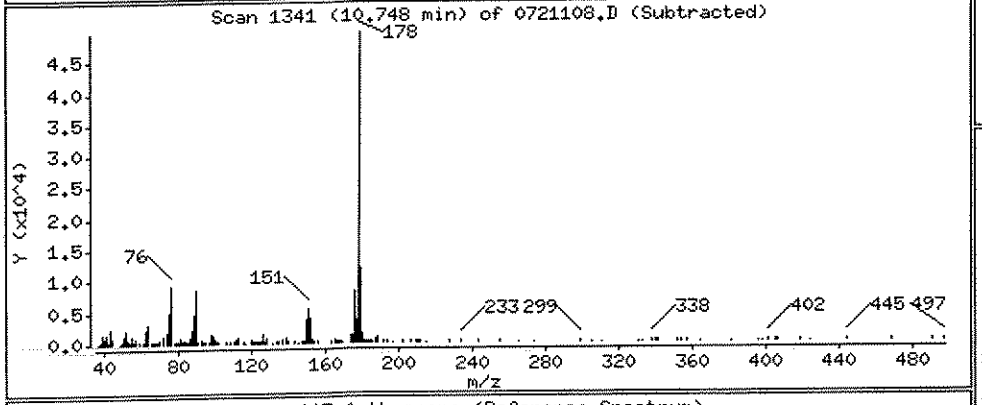
Column phase: fused silica

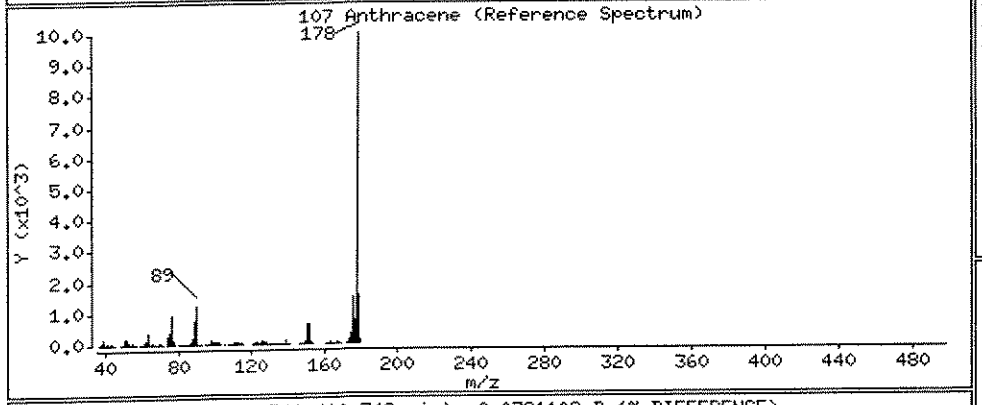
Column diameter: 0.25

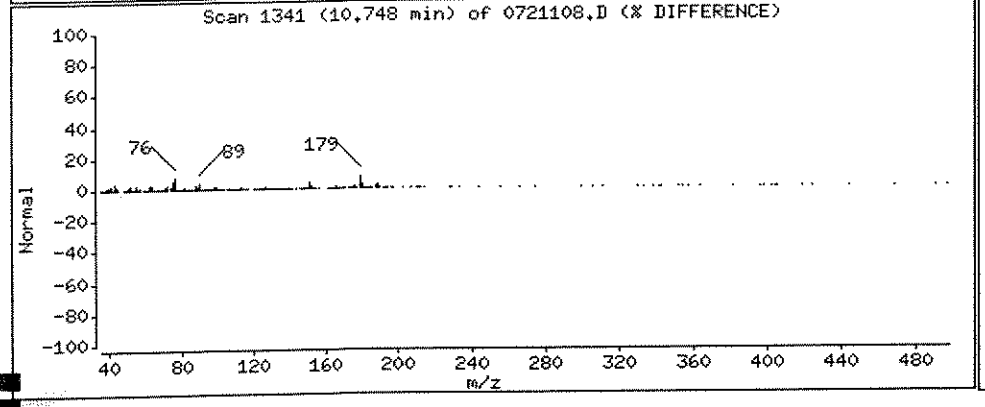
107 Anthracene

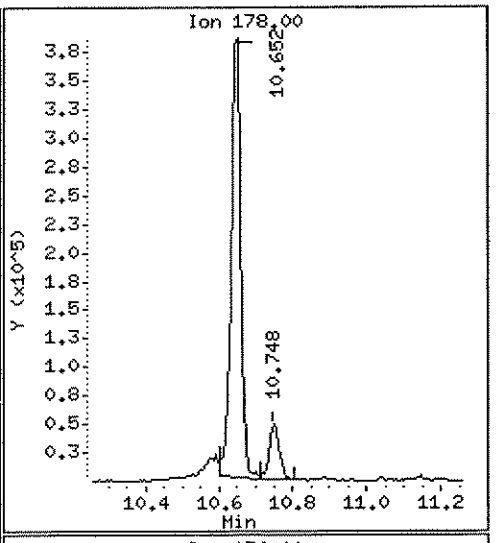
Concentration: 97.06 UG/KG

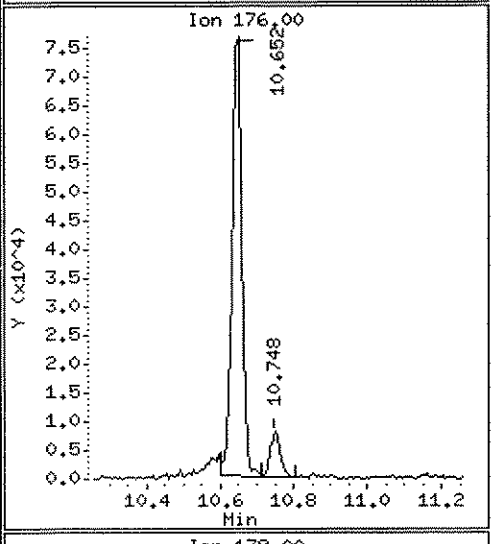


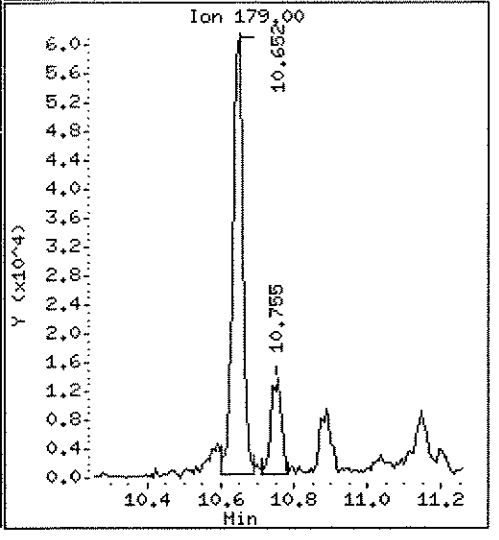












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

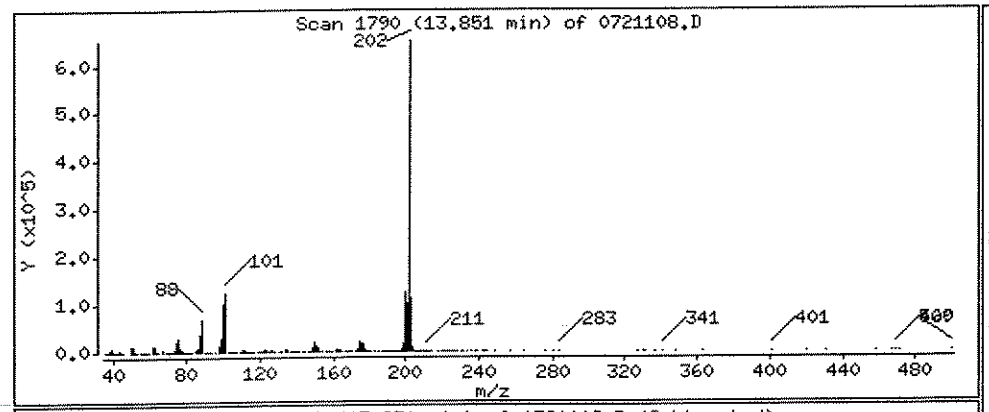
Client ID: 51CFM14S060725 Instrument: bna1.i

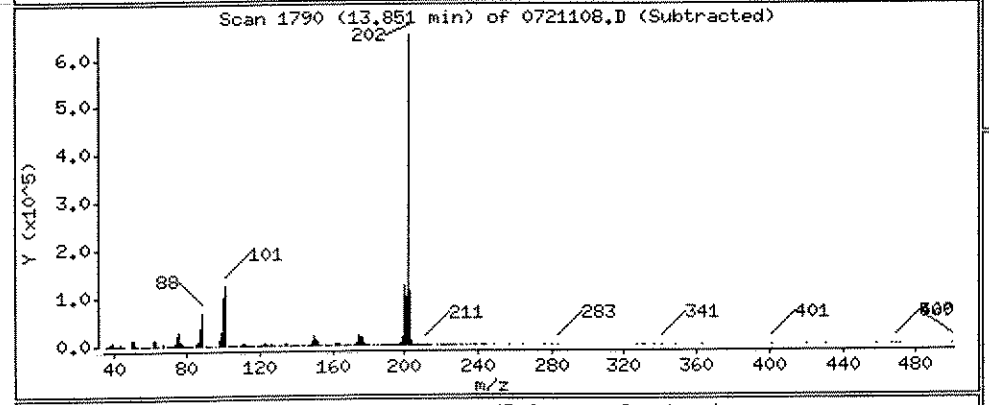
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

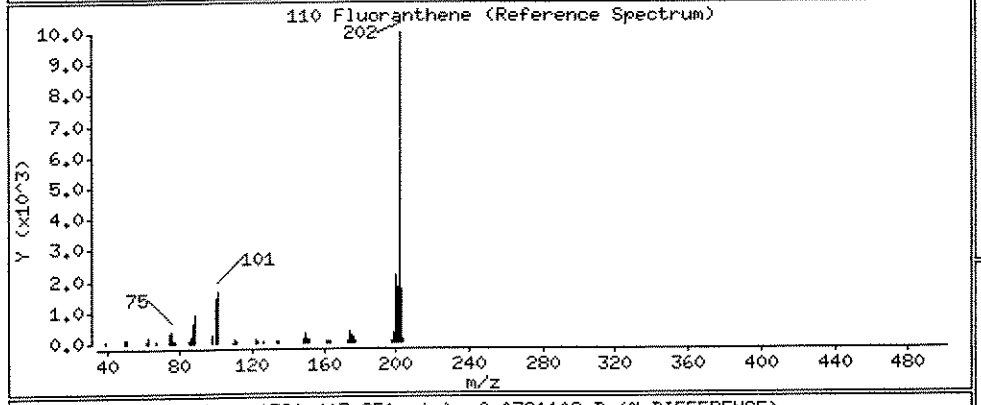
Volume Injected (uL): 0.5 Operator: SDB

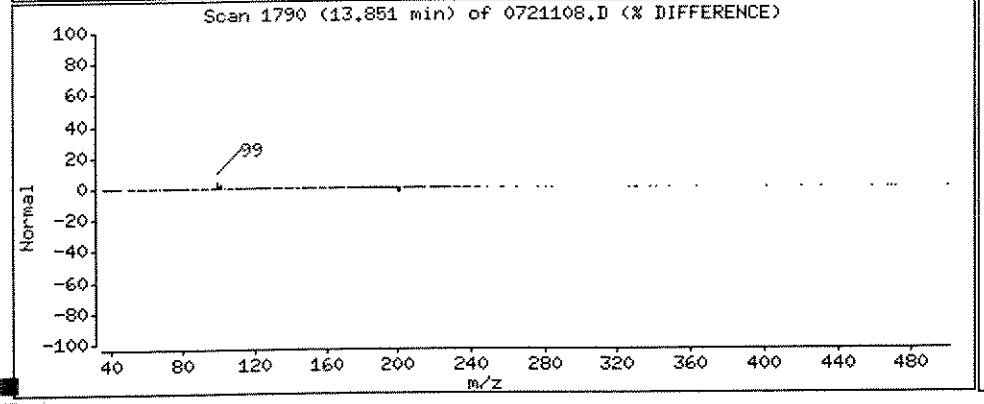
Column phase: fused silica Column diameter: 0.25

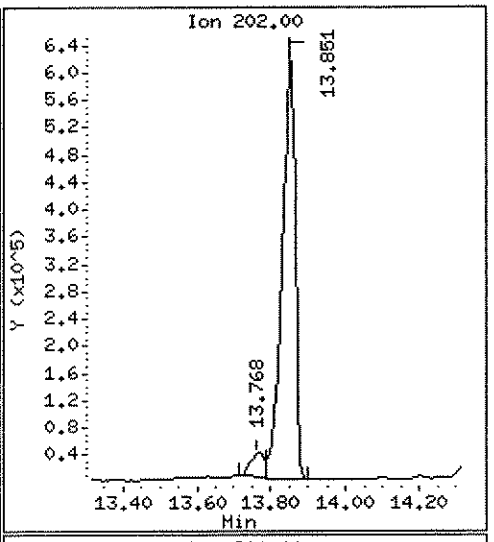
110 Fluoranthene Concentration: 1536 UG/KG

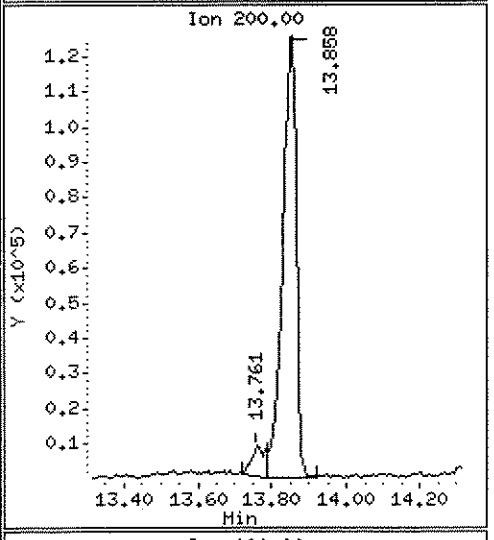


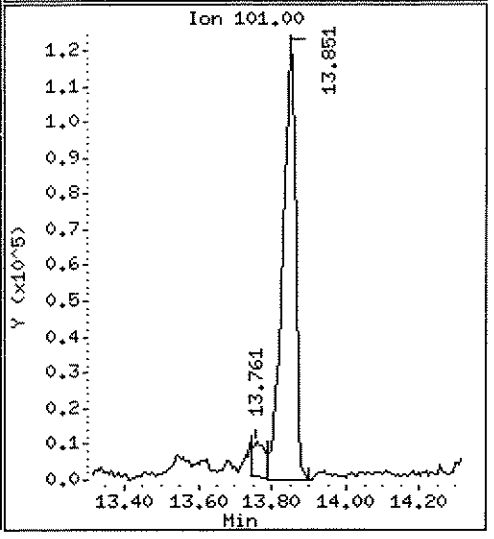












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

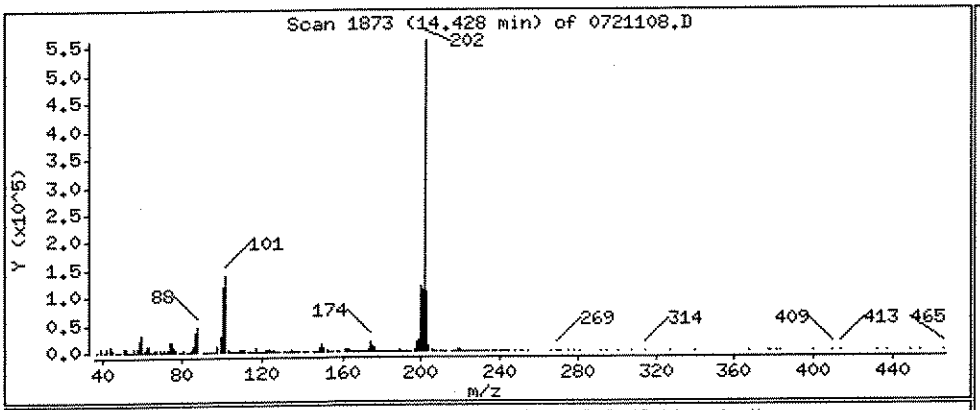
Client ID: 51CFM14S060725 Instrument: bna1.i

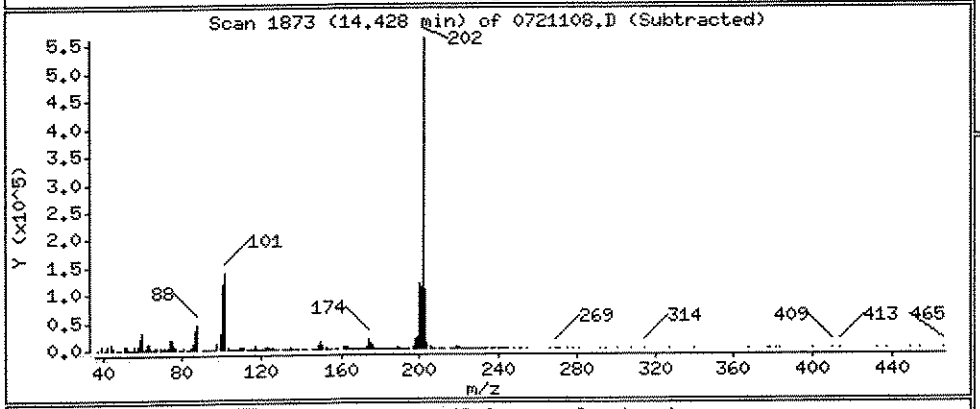
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

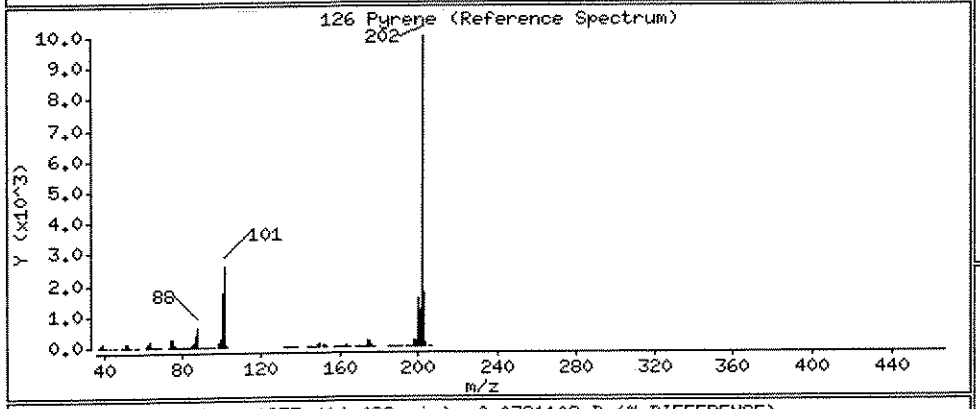
Volume Injected (uL): 0.5 Operator: SDB

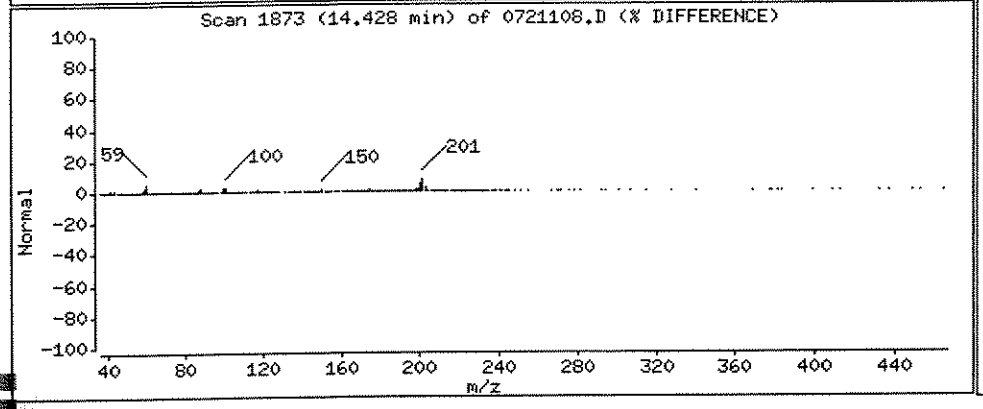
Column phase: fused silica Column diameter: 0.25

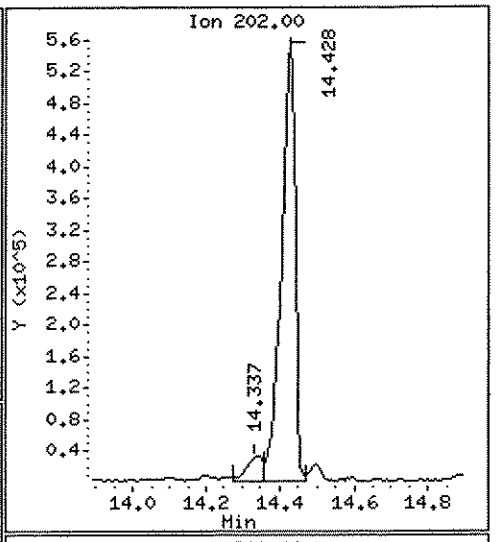
126 Pyrene Concentration: 1530 UG/KG

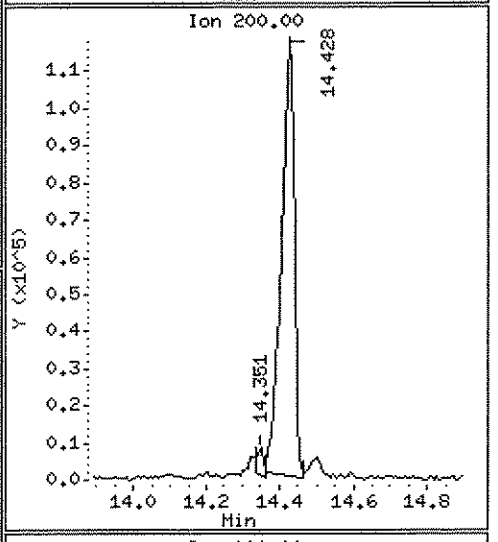


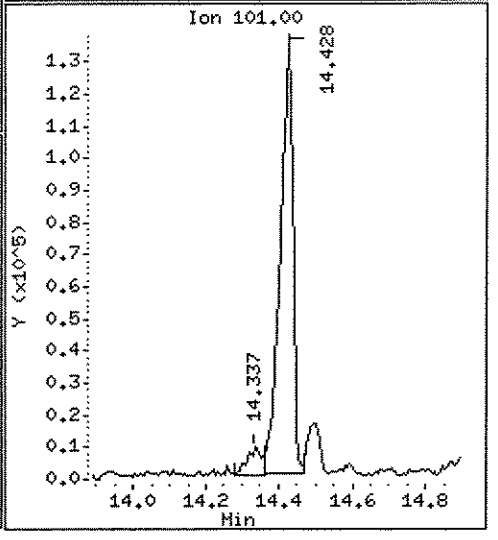












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

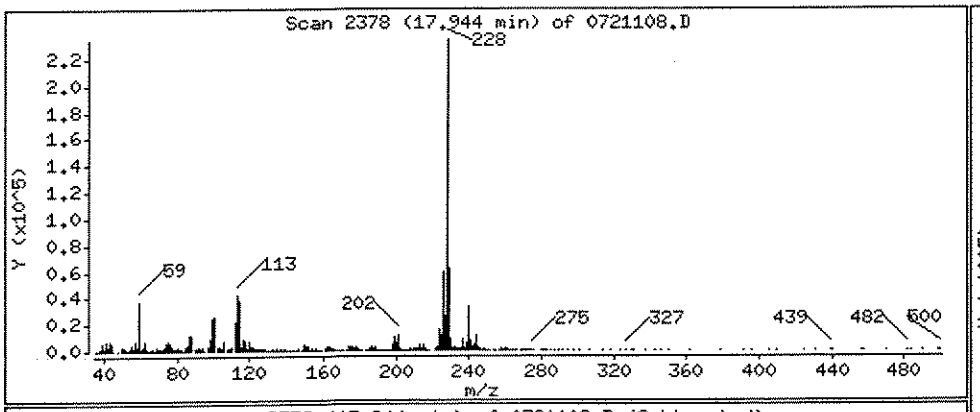
Client ID: 51CFM14S060725 Instrument: bna1.i

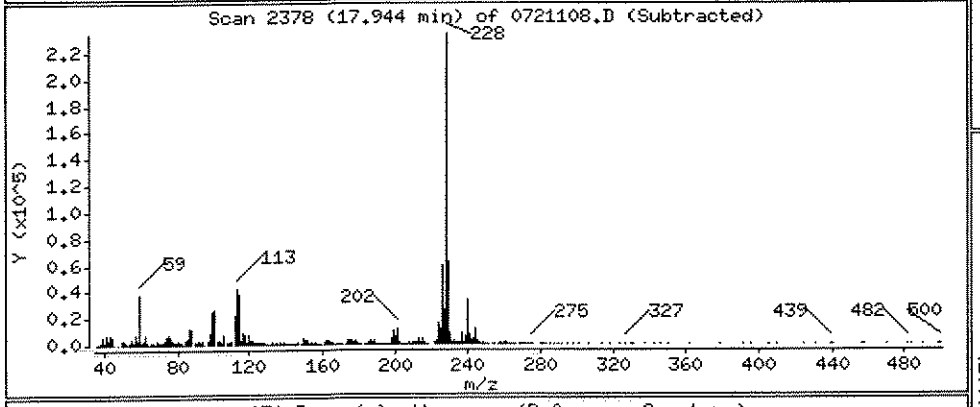
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

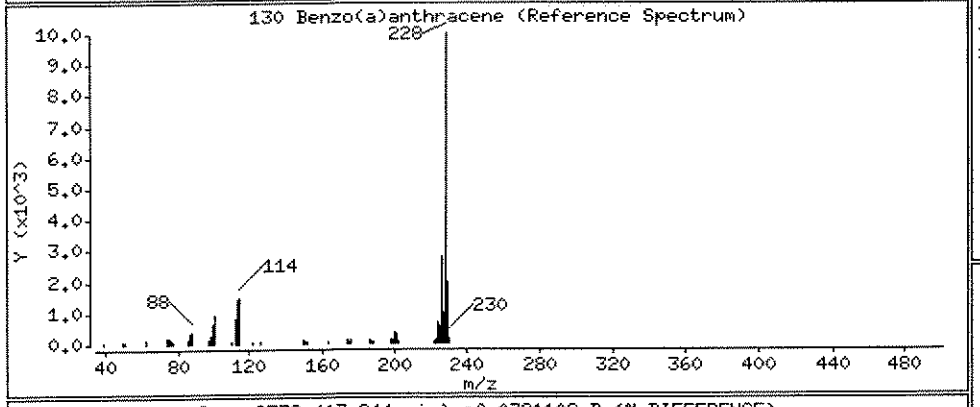
Volume Injected (uL): 0.5 Operator: SDB

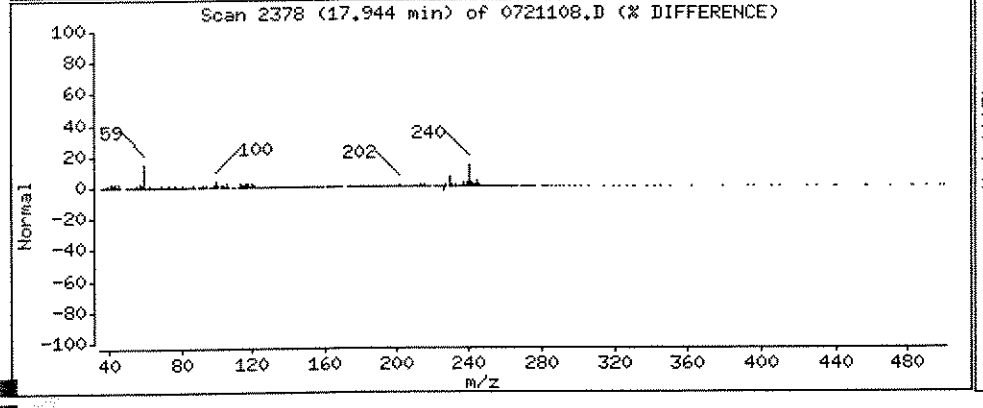
Column phase: fused silica Column diameter: 0.25

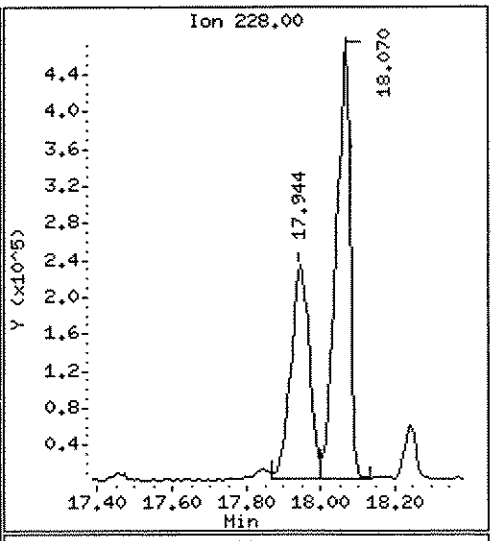
130 Benzo(a)anthracene Concentration: 1089 UG/KG

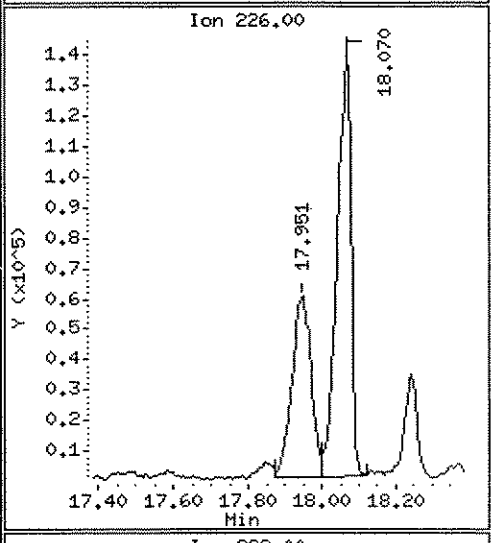


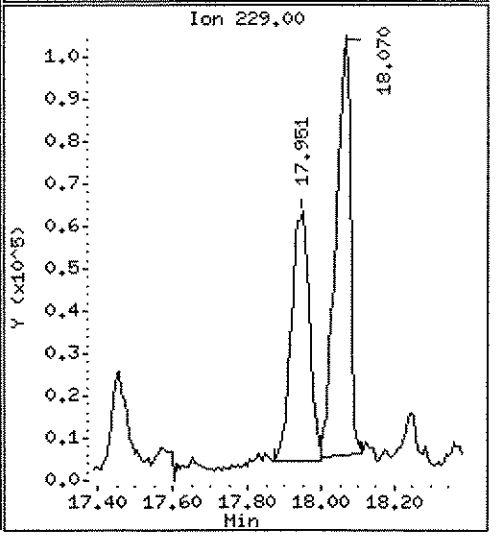












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

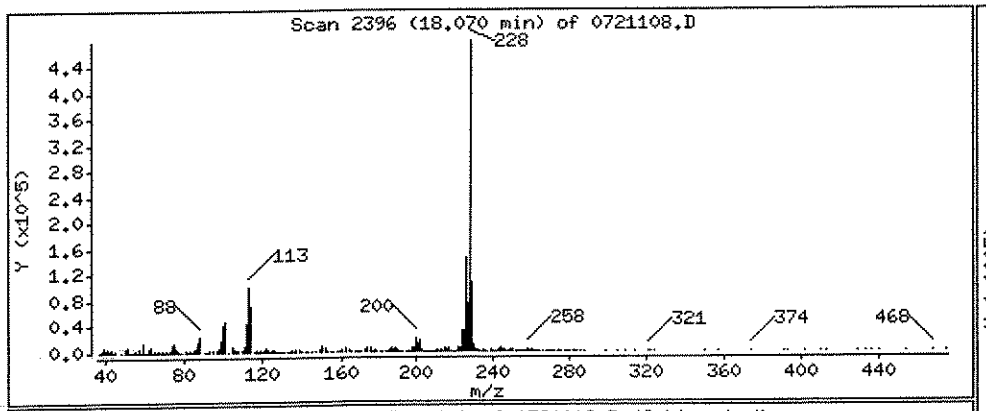
Client ID: 51CFM14S060725 Instrument: bna1.i

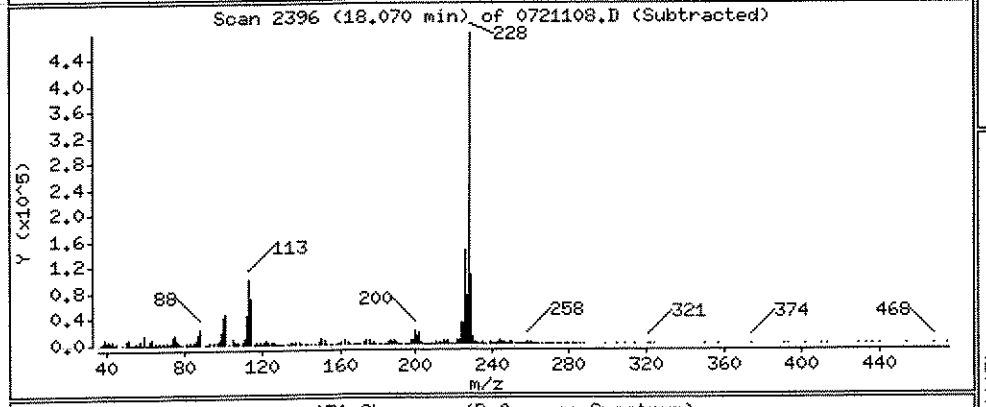
Sample Info: 0607211-08:15.1:500:1:UG/KG:26-JUL-2006

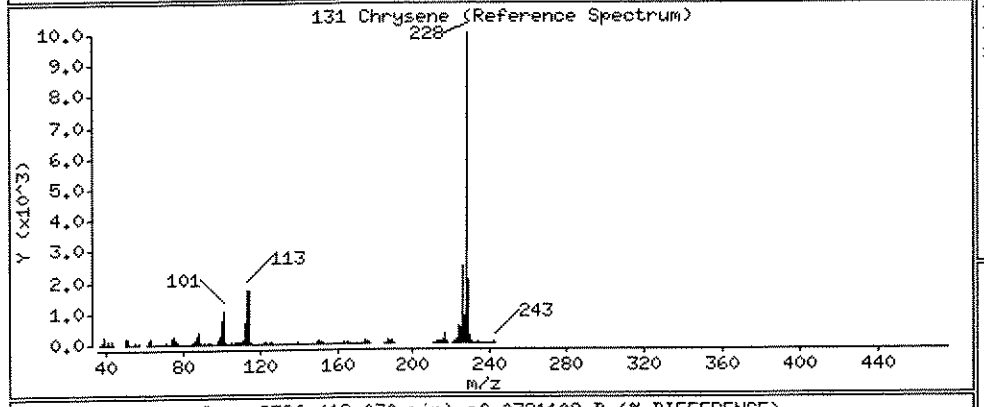
Volume Injected (uL): 0.5 Operator: SDB

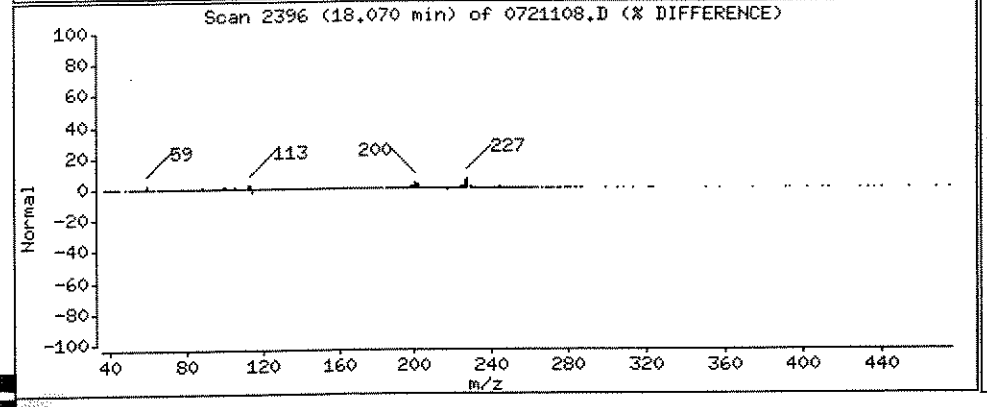
Column phase: fused silica Column diameter: 0.25

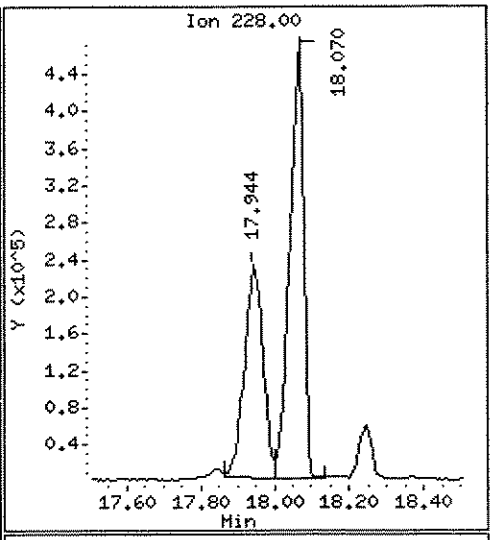
131 Chrysene Concentration: 1804 UG/KG

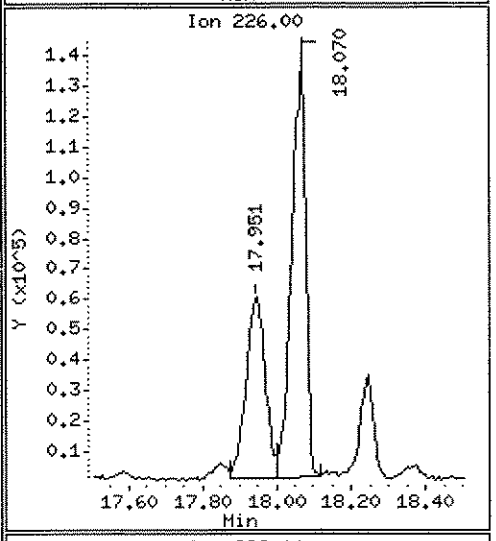


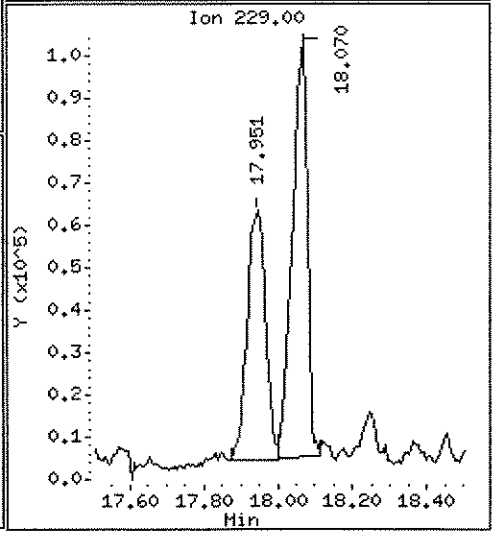












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

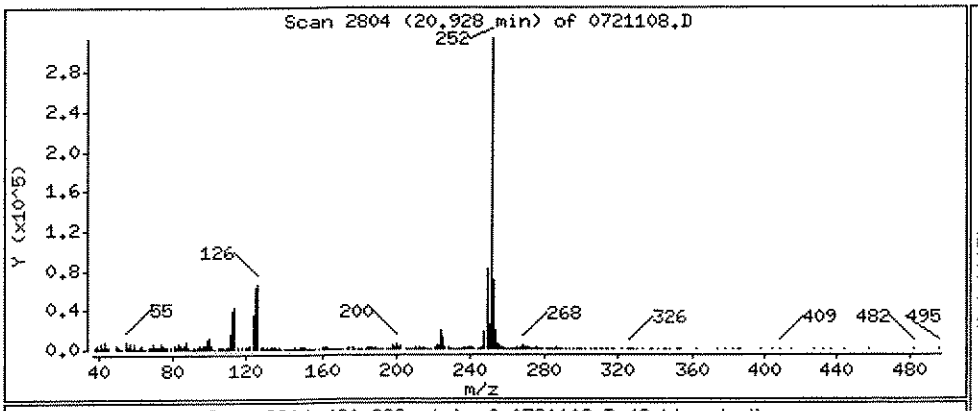
Client ID: 51CFM14S060725 Instrument: bna1.i

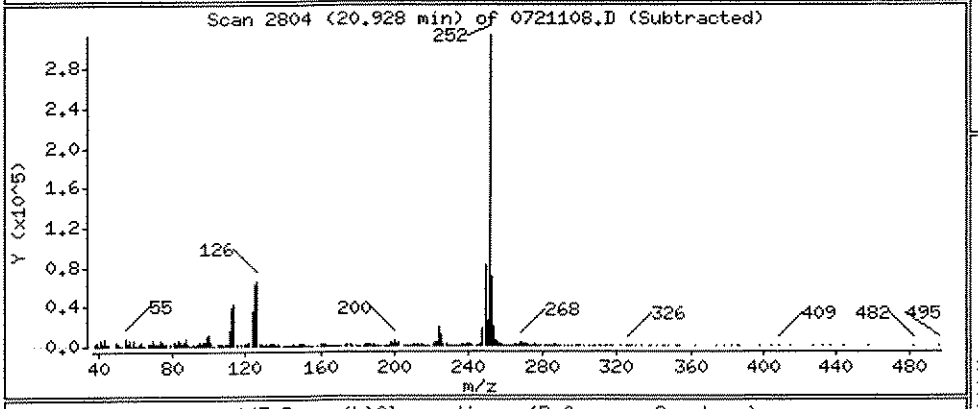
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

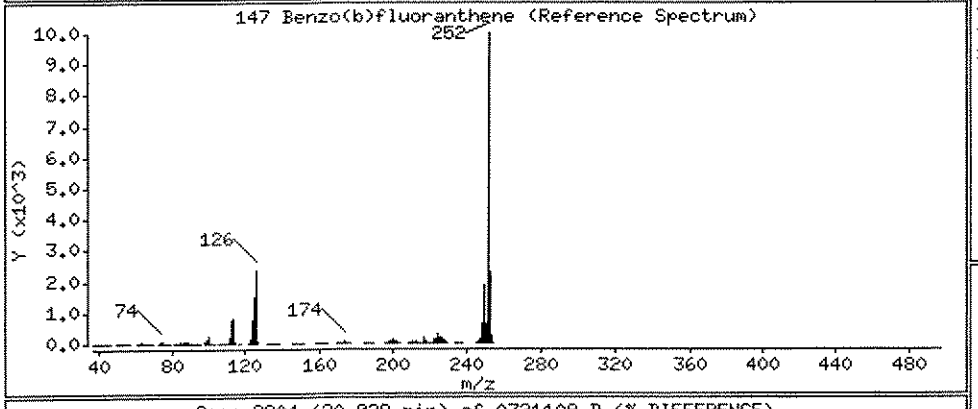
Volume Injected (uL): 0.5 Operator: SDB

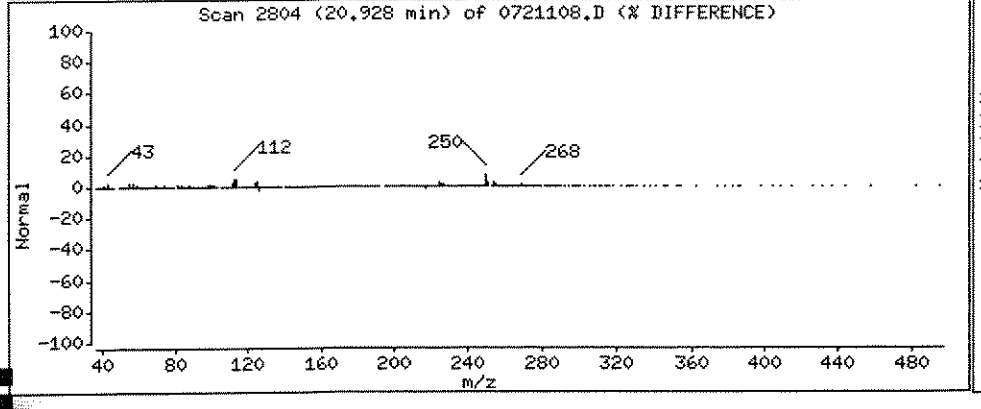
Column phase: fused silica Column diameter: 0.25

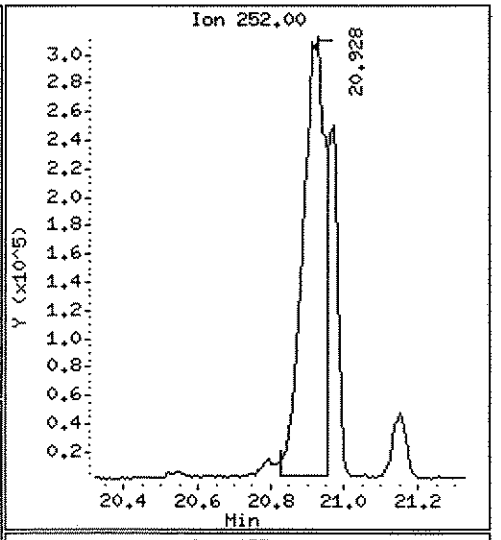
147 Benzo(b)fluoranthene Concentration: 3461 UG/KG

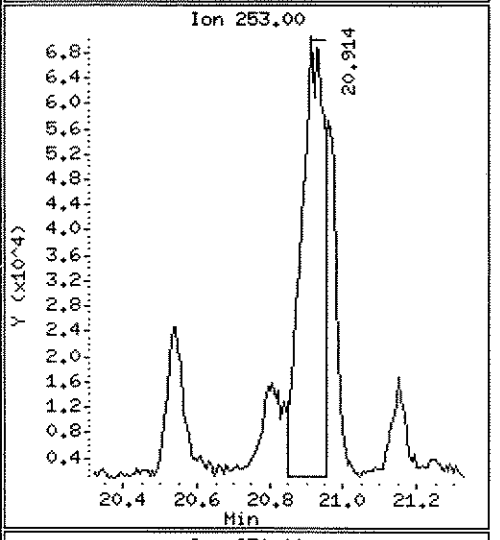


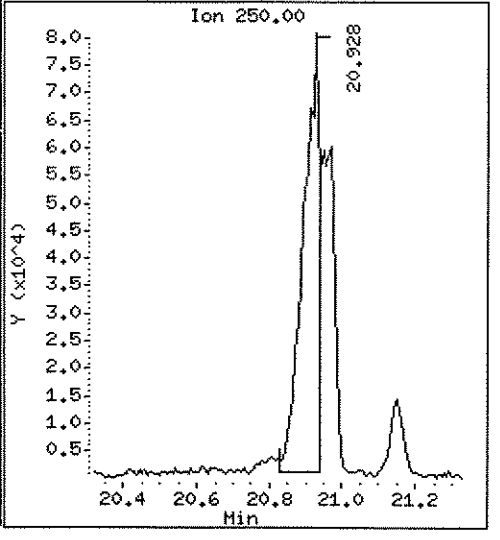












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

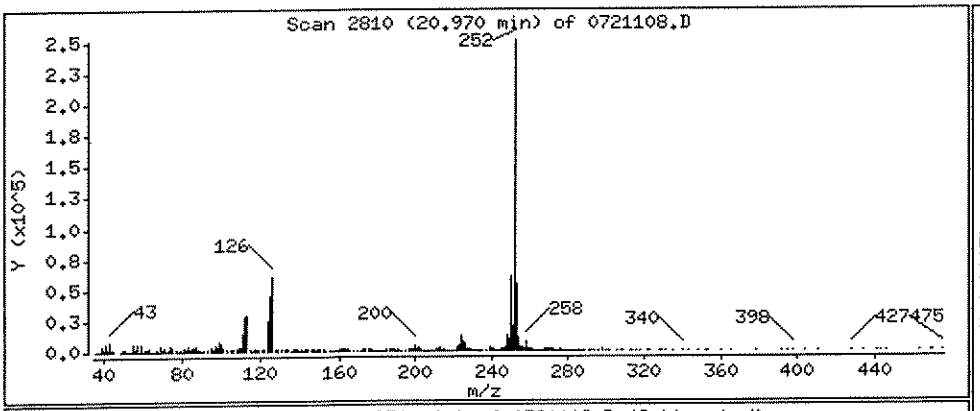
Client ID: 51CFM14S060725 Instrument: bna1.i

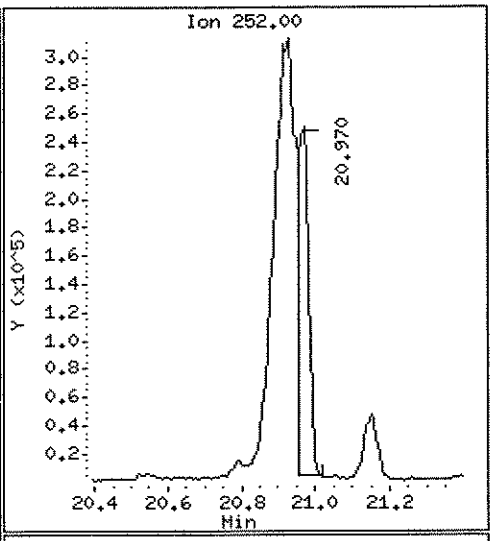
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

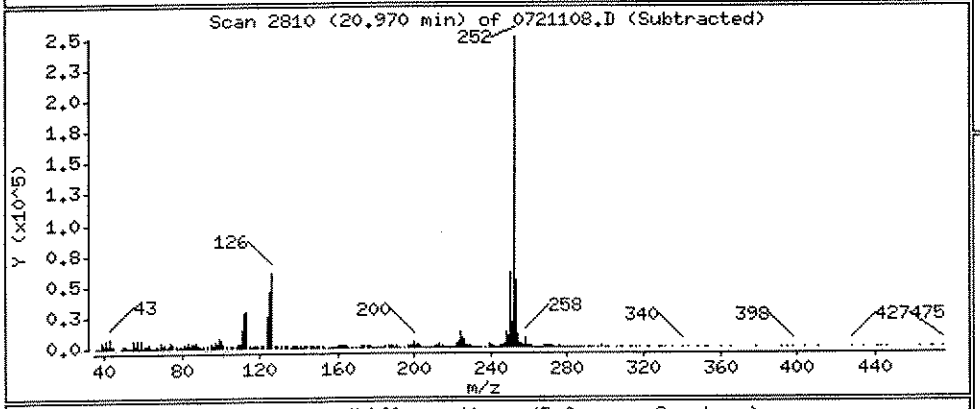
Volume Injected (uL): 0.5 Operator: SDB

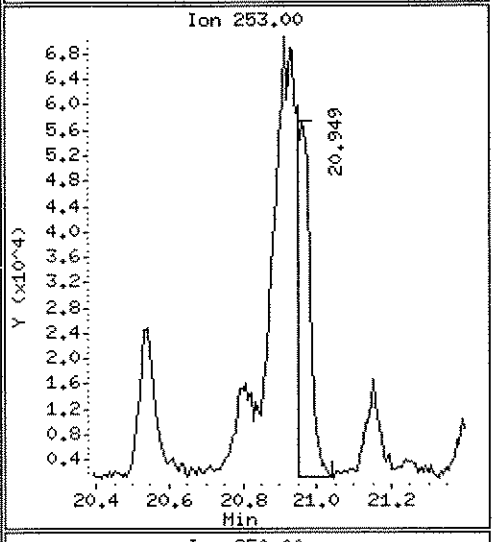
Column phase: fused silica Column diameter: 0.25

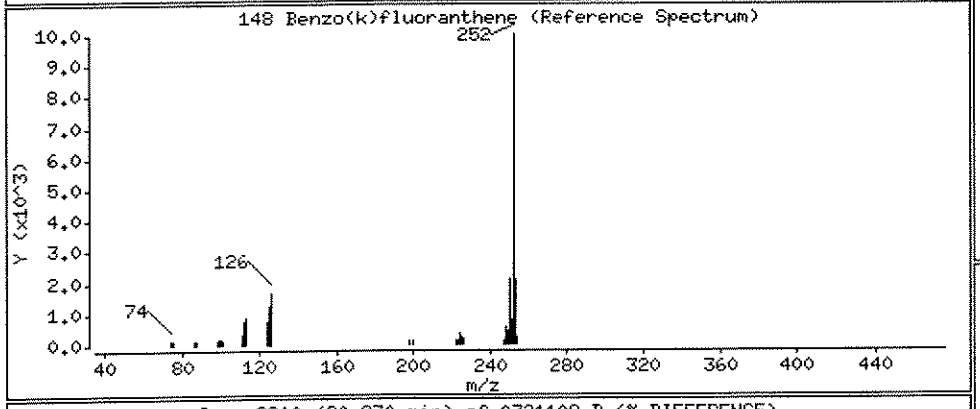
148 Benzo(k)fluoranthene Concentration: 1203 UG/KG

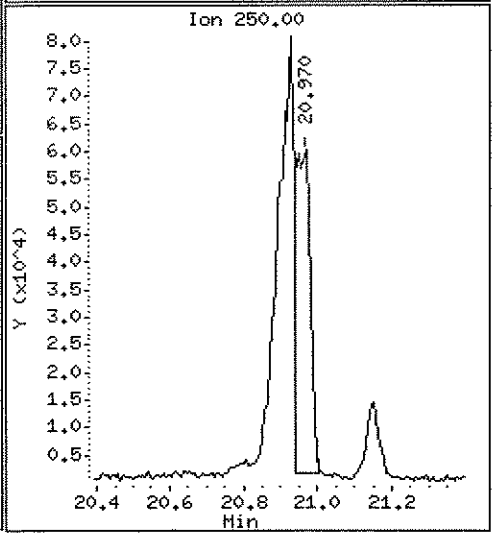


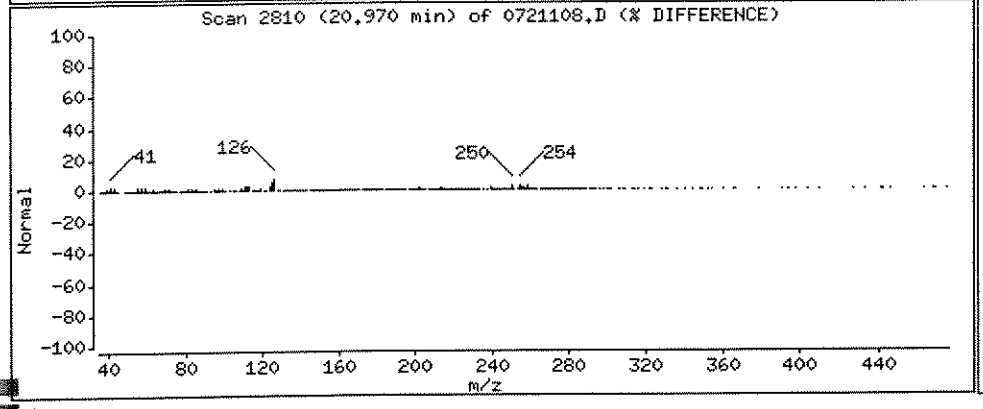












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

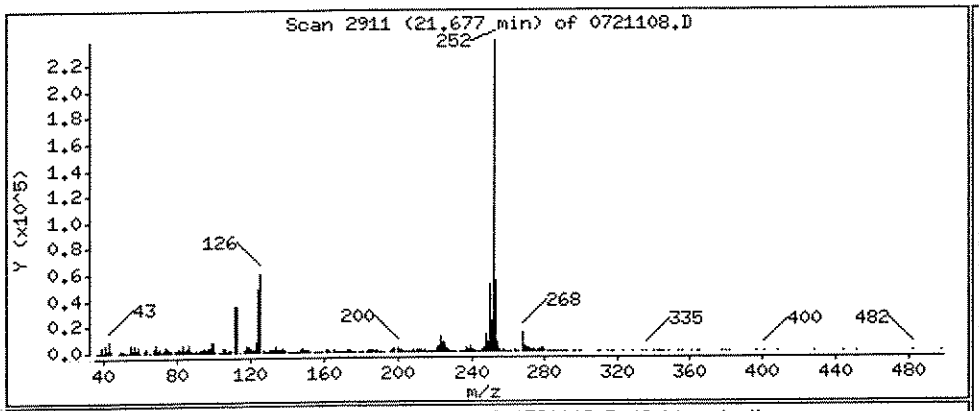
Client ID: 51CFM14S060725 Instrument: bna1.i

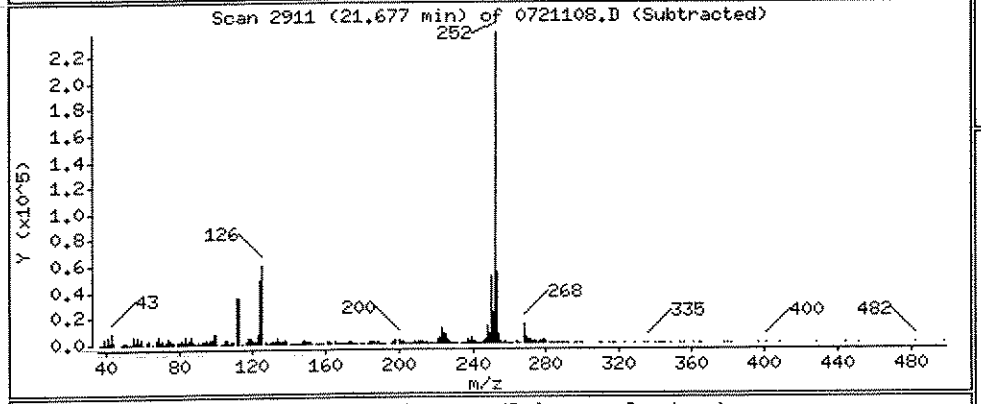
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

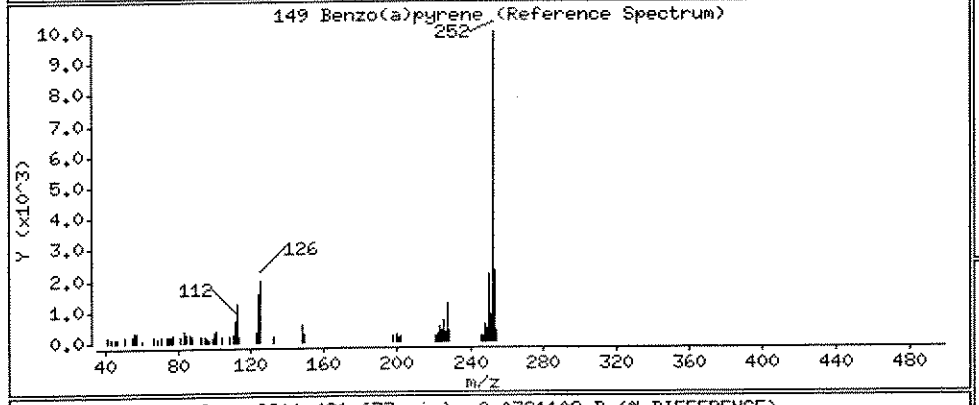
Volume Injected (uL): 0.5 Operator: SDB

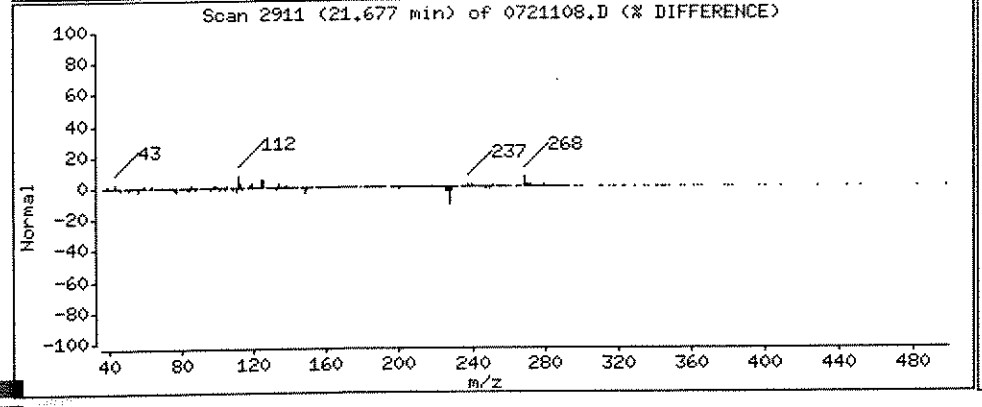
Column phase: fused silica Column diameter: 0.25

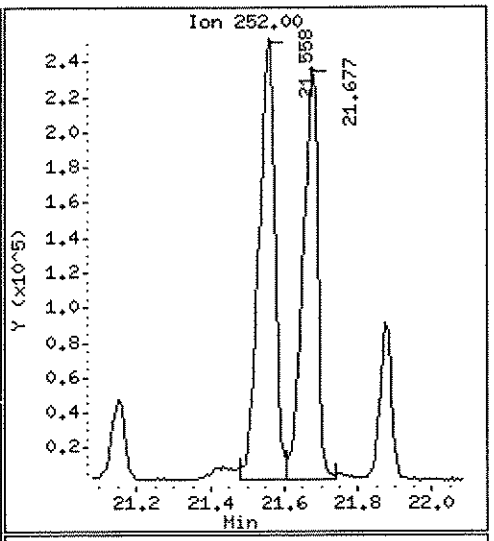
149 Benzo(a)pyrene Concentration: 1992 UG/KG

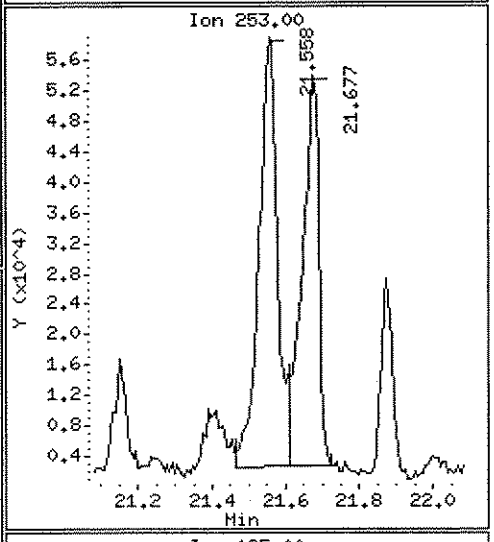


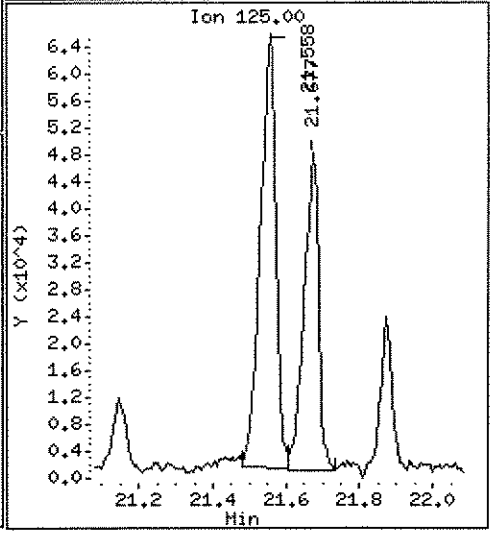












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

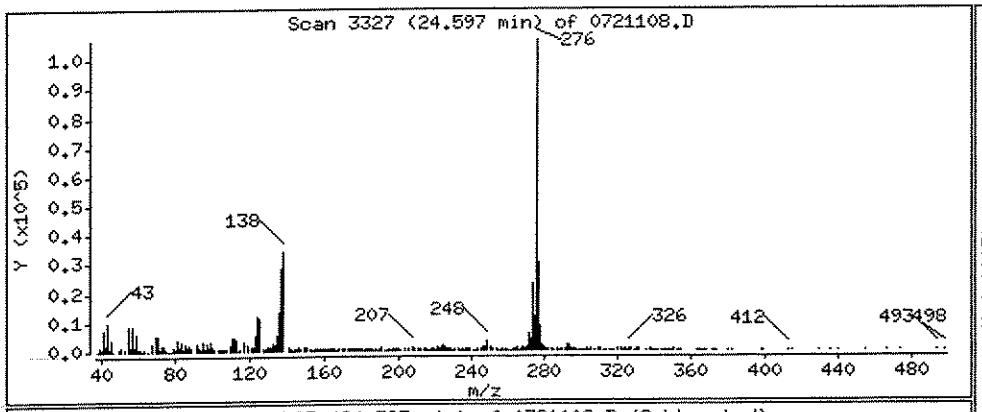
Client ID: 51CFM14S060725 Instrument: bna1.i

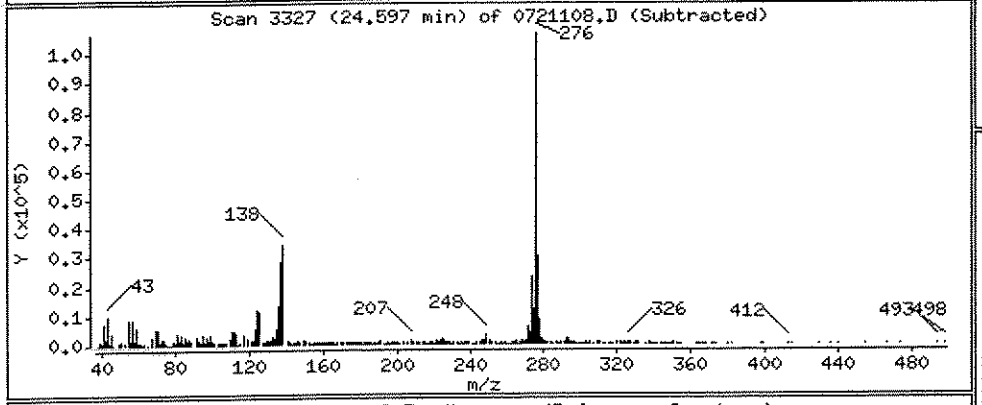
Sample Info: 0607211-08:15.1:500:1:UG/KG:26-JUL-2006

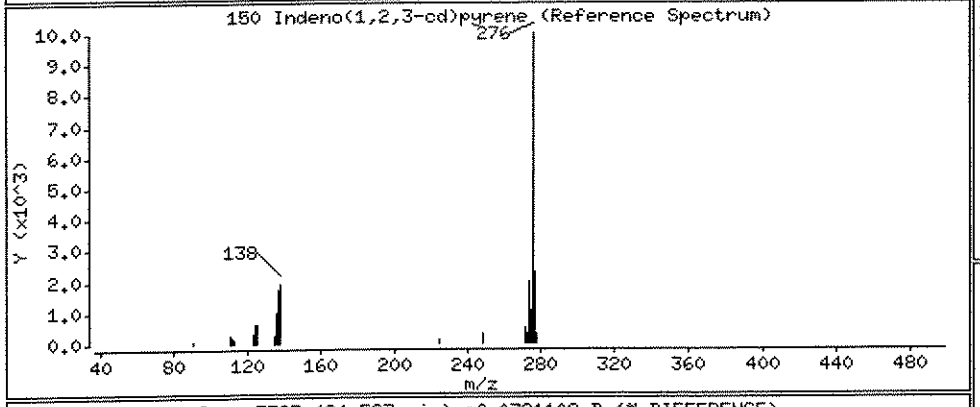
Volume Injected (uL): 0.5 Operator: SDB

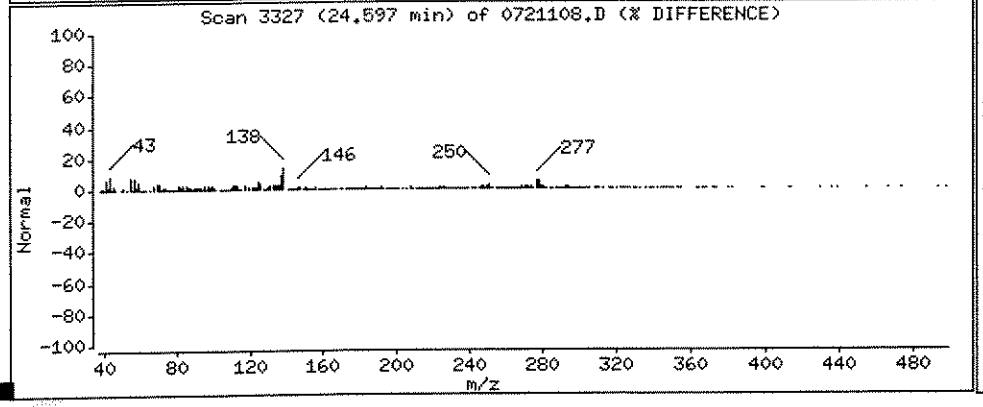
Column phase: fused silica Column diameter: 0.25

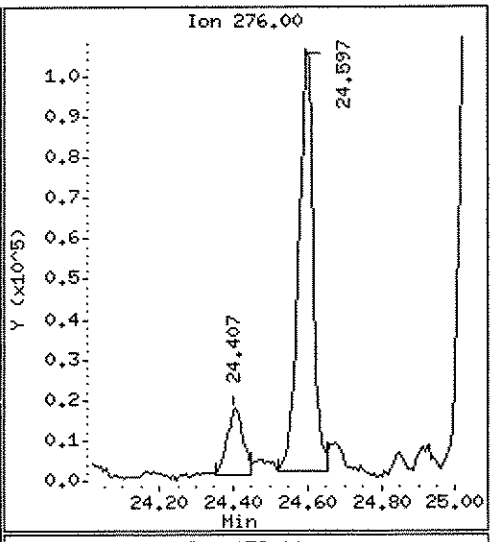
150 Indeno(1,2,3-cd)pyrene Concentration: 1003 UG/KG

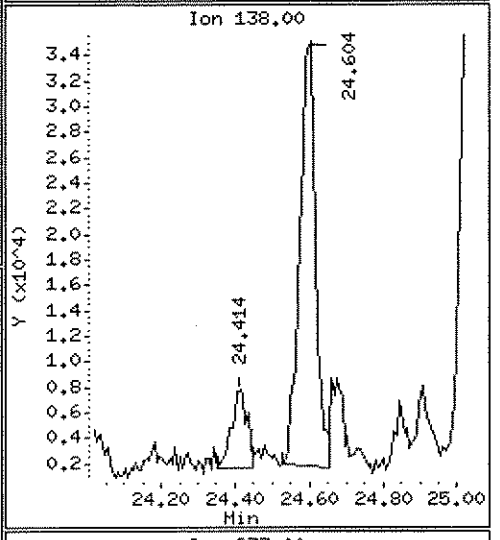


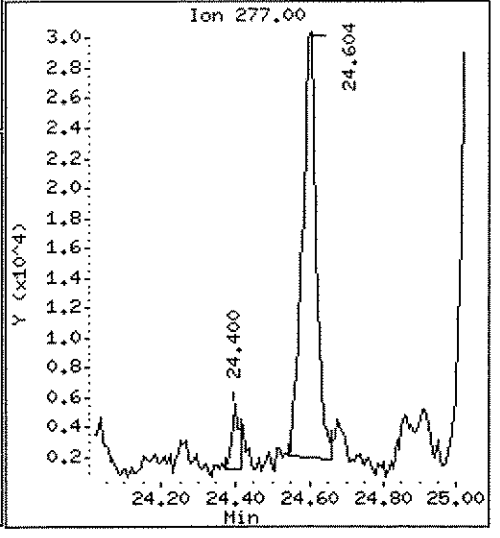












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

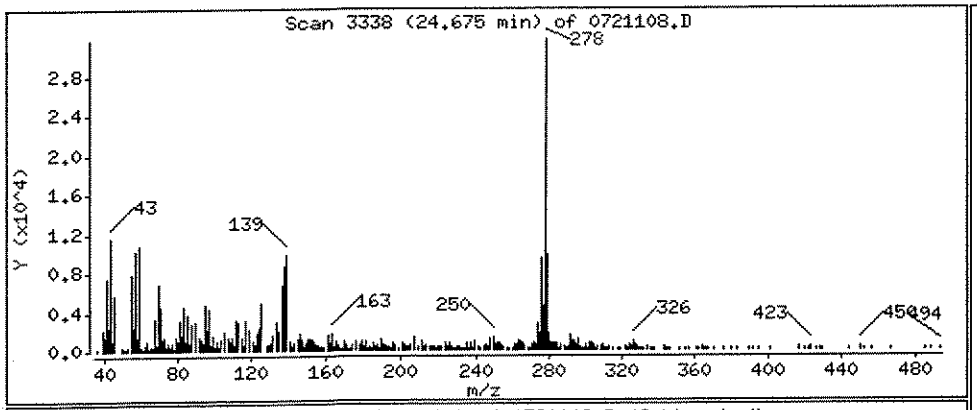
Client ID: 51CFM14S060725 Instrument: bna1.i

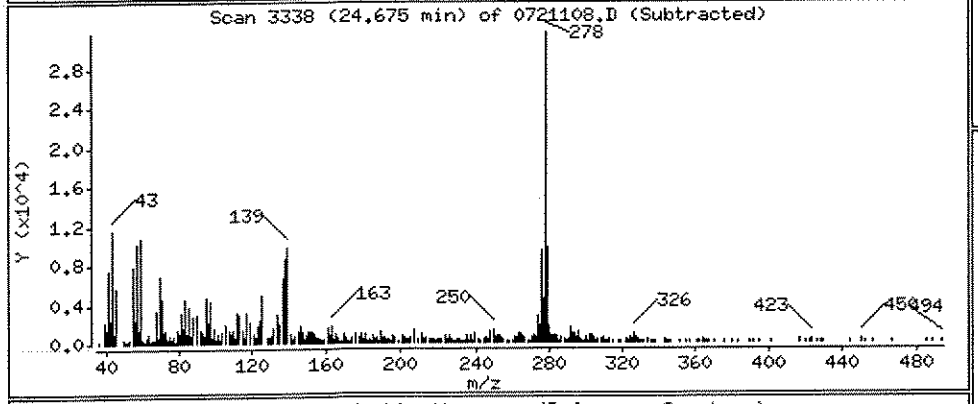
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

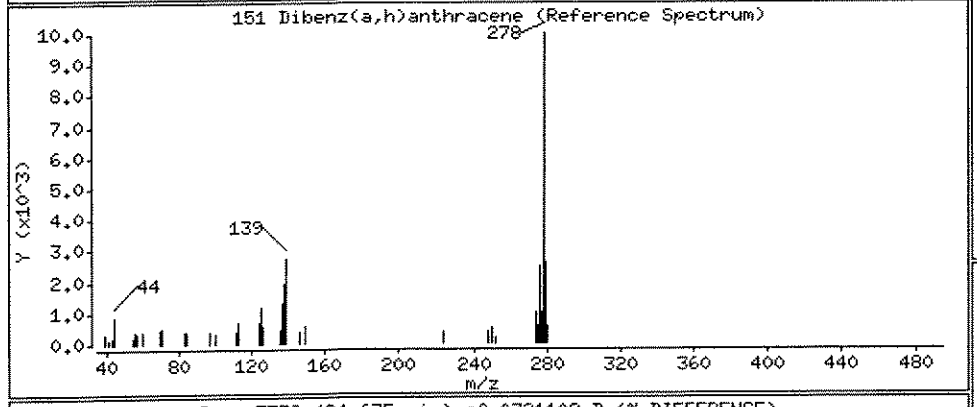
Volume Injected (uL): 0.5 Operator: SDB

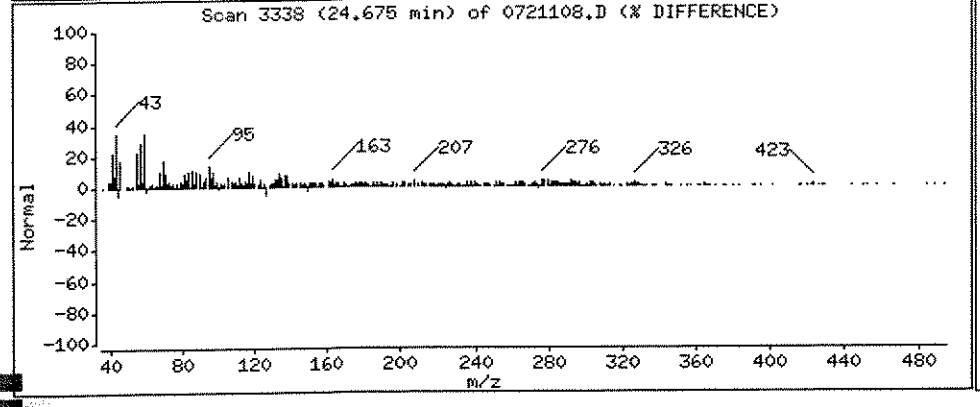
Column phase: fused silica Column diameter: 0.25

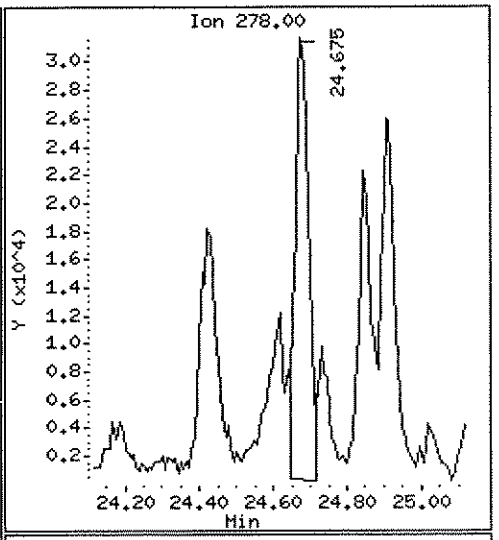
151 Dibenz(a,h)anthracene Concentration: 281.7 UG/KG

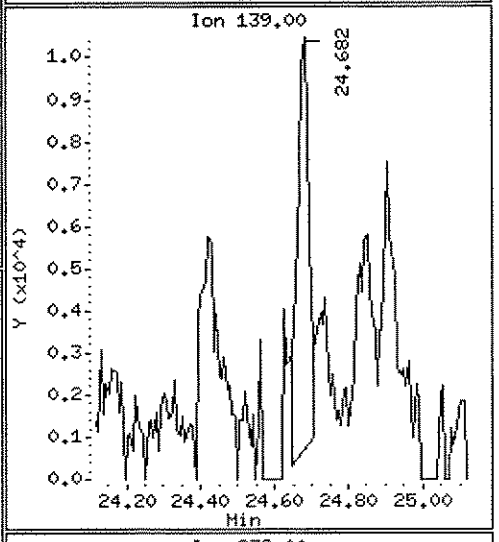


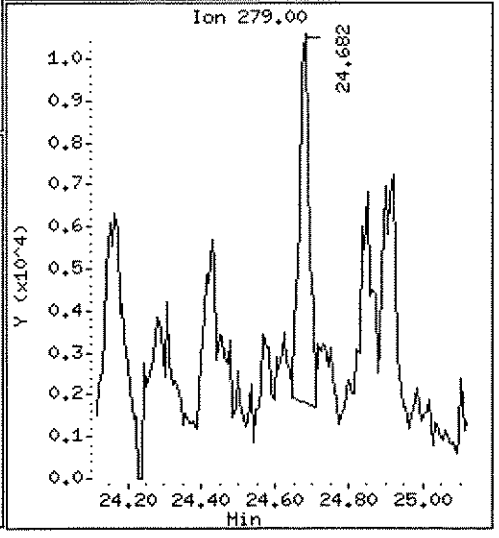












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721108.D

Date : 26-JUL-2006 19:46

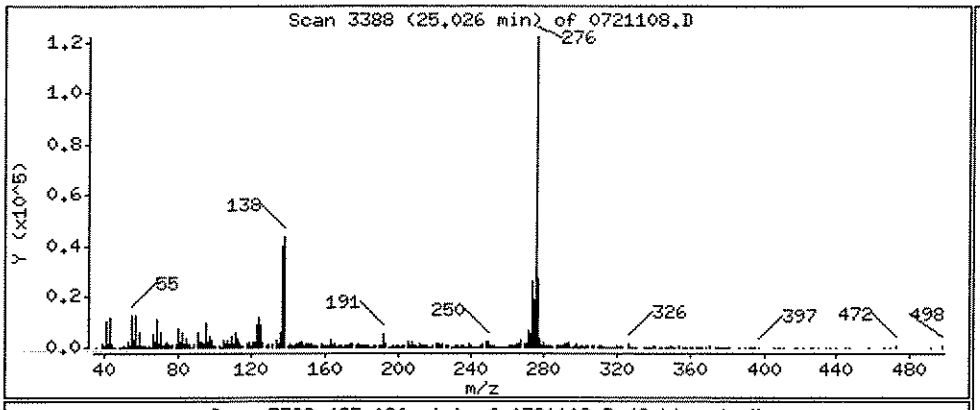
Client ID: 51CFM14S060725 Instrument: bna1.i

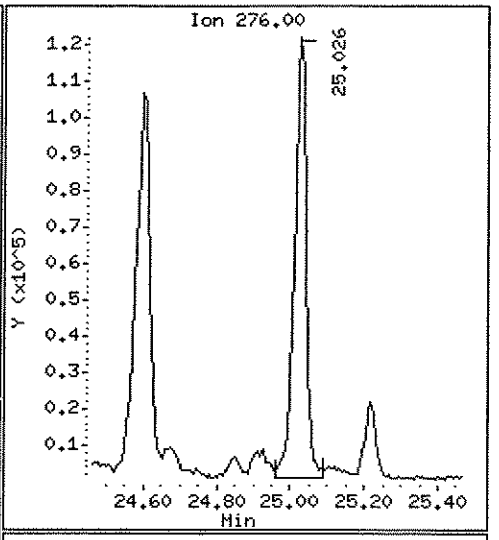
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

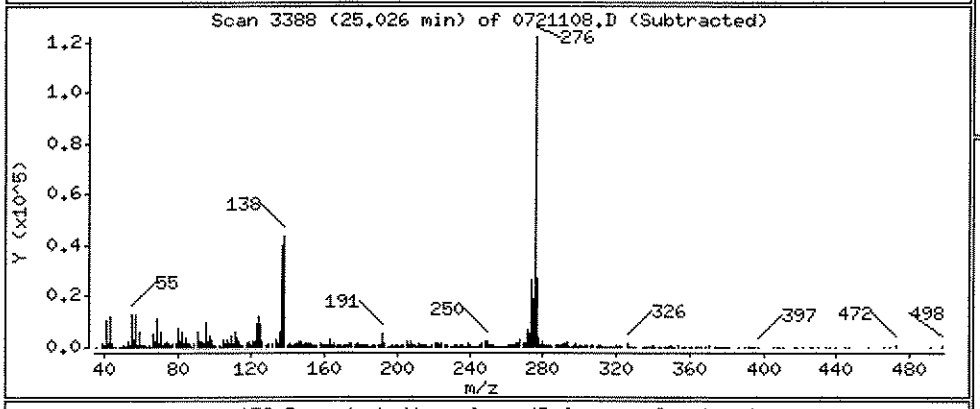
Volume Injected (uL): 0.5 Operator: SDB

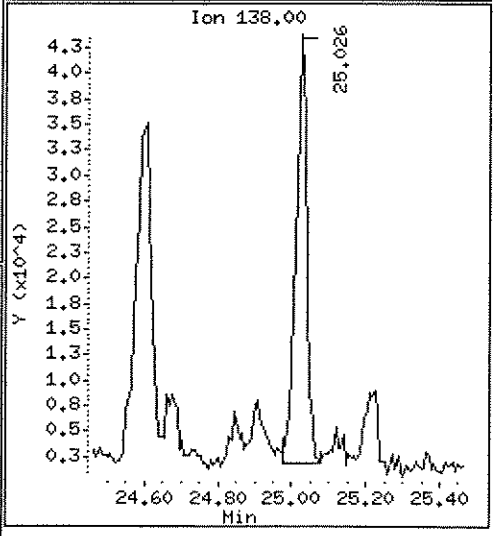
Column phase: fused silica Column diameter: 0.25

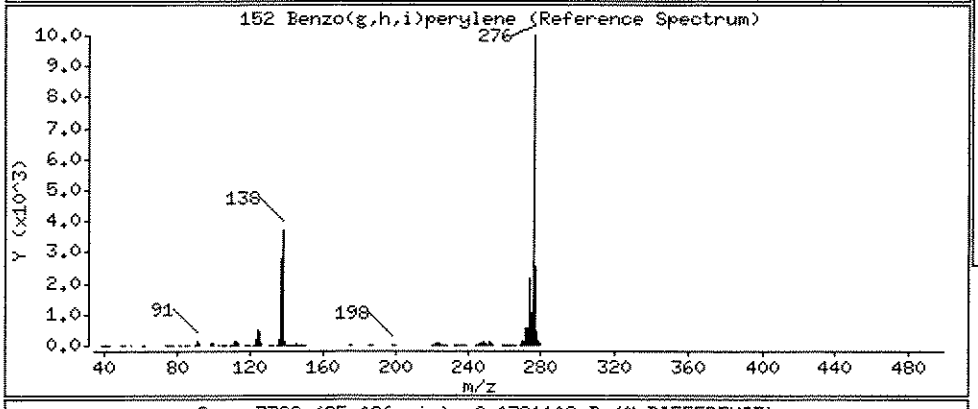
152 Benzo(g,h,i)perylene Concentration: 906.2 UG/KG

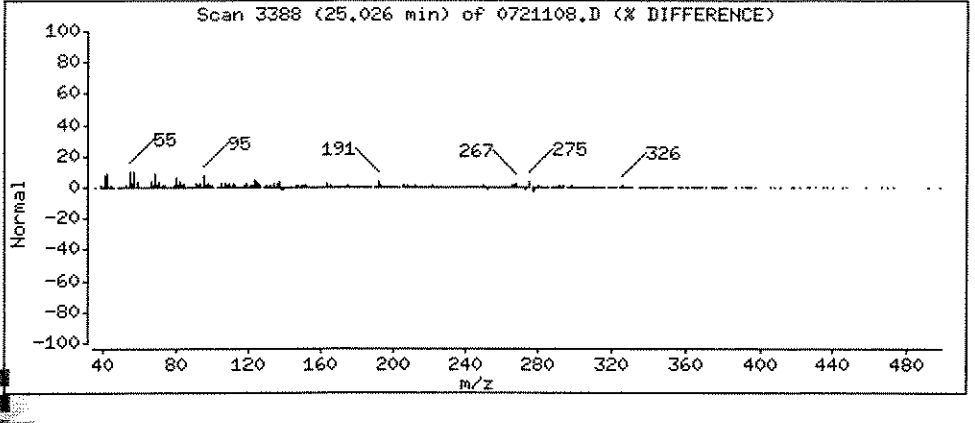












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM14S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0721108D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:47

Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	42	350		UD
208-96-8	Acenaphthylene	42	350		UD
120-12-7	Anthracene	42	350	110	JD
56-55-3	Benzo(a)anthracene	42	350	1200	D
205-99-2	Benzo(b)fluoranthene	42	350	3900	D
207-08-9	Benzo(k)fluoranthene	42	350	1200	D
191-24-2	Benzo(g,h,i)perylene	42	350	1900	D
50-32-8	Benzo(a)pyrene	42	210	2600	D
218-01-9	Chrysene	42	350	2000	D
53-70-3	Dibenz(a,h)anthracene	42	210	540	D
206-44-0	Fluoranthene	42	350	1800	D
86-73-7	Fluorene	42	350		UD
193-39-5	Indeno(1,2,3-cd)pyrene	42	350	2100	D
91-57-6	2-Methylnaphthalene	42	350		UD
90-12-0	1-Methylnaphthalene	110	350		UD
91-20-3	Naphthalene	42	350		UD
85-01-8	Phenanthrene	42	350	850	D
129-00-0	Pyrene	42	350	2300	D

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D
Report Date: 28-Jul-2006 06:35

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D
Lab Smp Id: 0607211-08 Client Smp ID: 51CFM14S060725
Inj Date : 27-JUL-2006 16:47
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-08;15.1;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 28-Jul-2006 06:34 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 10
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.100	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	93.700	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.088	4.088	(1.000)	424414	40.0000	
* 31 Naphthalene-d8	136	5.048	5.055	(1.000)	1397180	40.0000	
$ 32 Nitrobenzene-d5	82	4.513	4.527	(0.894)	235547	15.4437	1092
* 65 Acenaphthene-d10	164	7.317	7.324	(1.000)	679471	40.0000	
$ 70 2-Fluorobiphenyl	172	6.283	6.300	(0.859)	372290	17.2174	1217
* 97 Phenanthrene-d10	188	10.503	10.512	(1.000)	743615	40.0000	
106 Phenanthrene	178	10.551	10.568	(1.005)	255526	12.0519	851.8
107 Anthracene	178	10.661	10.685	(1.015)	31494	1.50458	106.3(a)
110 Fluoranthene	202	13.725	13.736	(1.307)	524721	24.9975	1767
* 124 Chrysene-d12	240	17.839	17.850	(1.000)	416116	40.0000	
126 Pyrene	202	14.296	14.311	(0.801)	538678	32.4149	2291
$ 127 Terphenyl-d14	244	15.089	15.093	(0.846)	256704	24.4306	1727
130 Benzo(a)anthracene	228	17.798	17.809	(0.998)	233358	17.4053	1230

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D
Report Date: 28-Jul-2006 06:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
131 Chrysene	228	17.909	17.927	(1.004)	355782	29.0539	2053
* 145 Perylene-d12	264	21.658	21.664	(1.000)	250985	40.0000	
147 Benzo(b)fluoranthene	252	20.747	20.746	(0.958)	429115	55.5027	3923(M)
148 Benzo(k)fluoranthene	252	20.796	20.822	(0.960)	132125	16.4716	1164(M)
149 Benzo(a)pyrene	252	21.505	21.512	(0.993)	240886	36.1320	2554
150 Indeno(1,2,3-cd)pyrene	276	24.438	24.452	(1.128)	166518	29.2751	2069
151 Dibenz(a,h)anthracene	278	24.542	24.554	(1.133)	43970	7.67864	542.7(M)
152 Benzo(g,h,i)perylene	276	24.891	24.910	(1.149)	156286	26.4769	1871

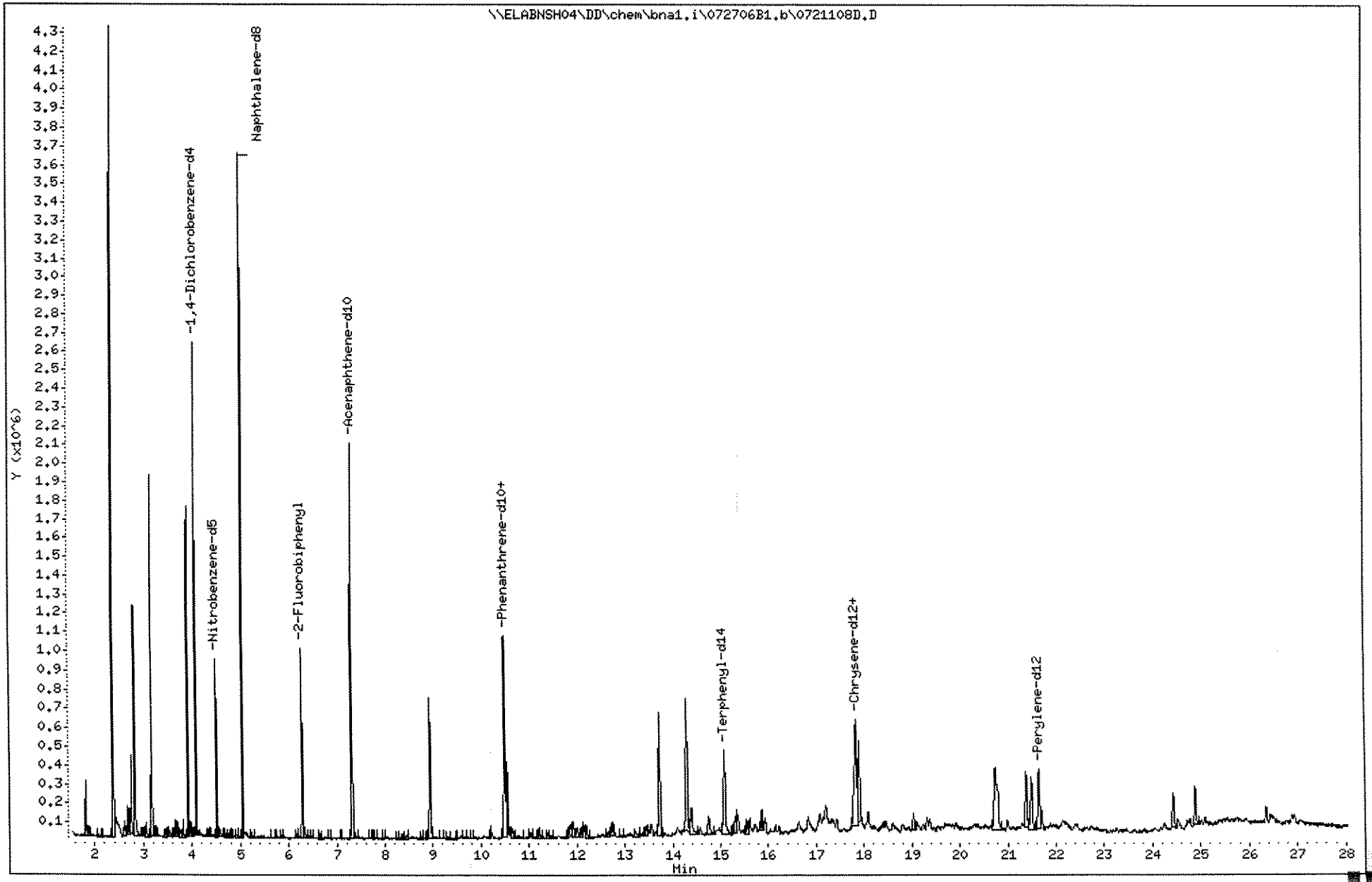
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D
Date : 27-JUL-2006 16:47
Client ID: 51CFM14S060725
Instrument: bna1.i
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000174



Empirical Laboratories

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Date : 27-JUL-2006 16:47

Client ID: 51CFM14S060725

Instrument: bna1.i

Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

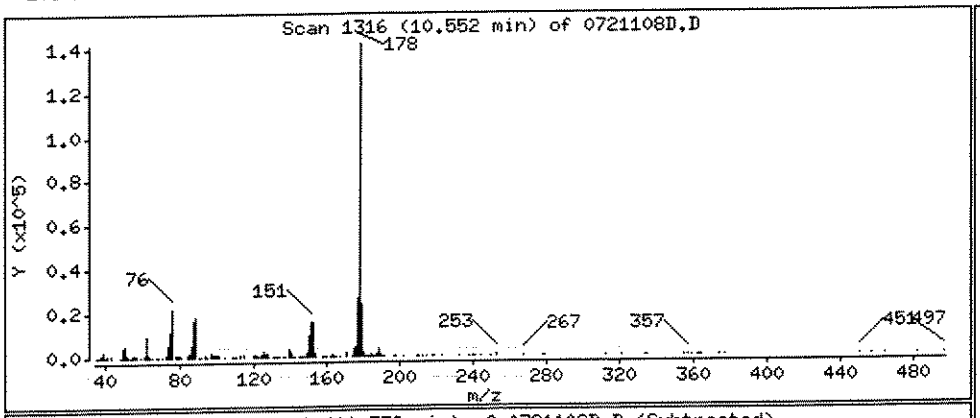
Operator: SDB

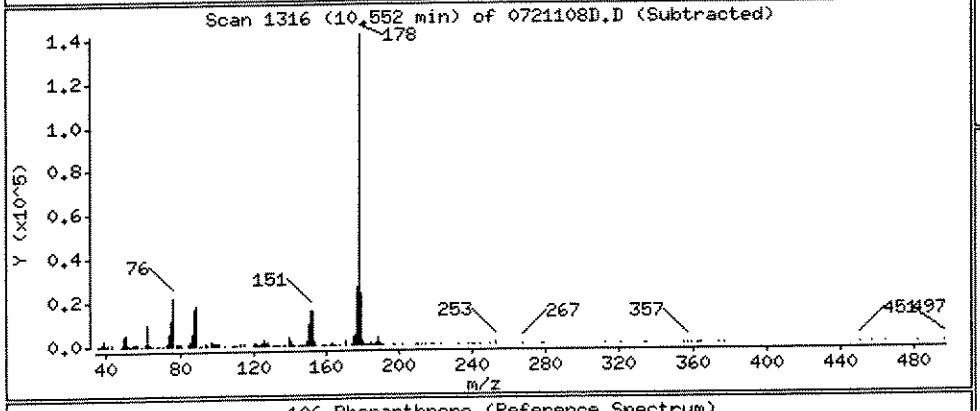
Column phase: fused silica

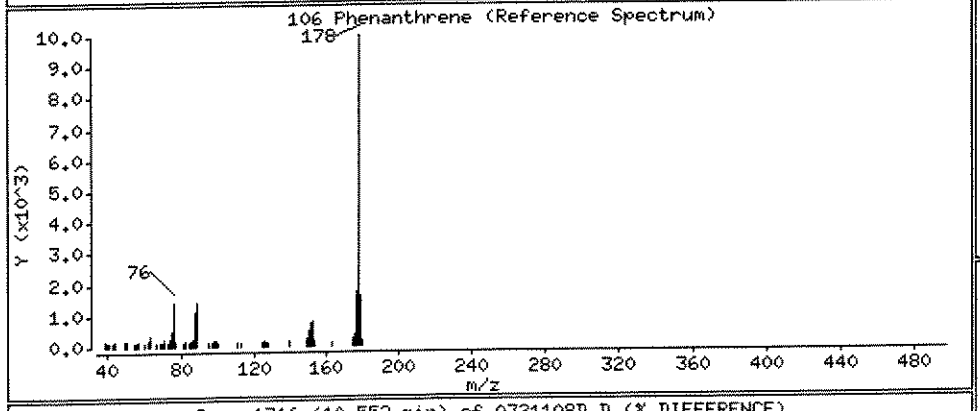
Column diameter: 0.25

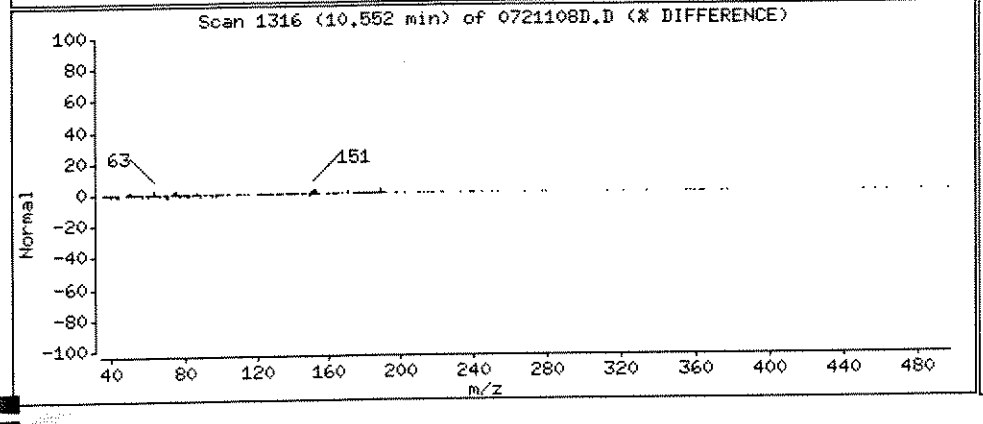
106 Phenanthrene

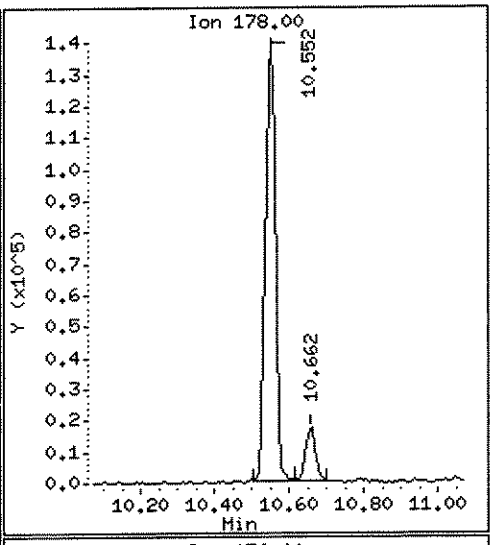
Concentration: 851.8 UG/KG

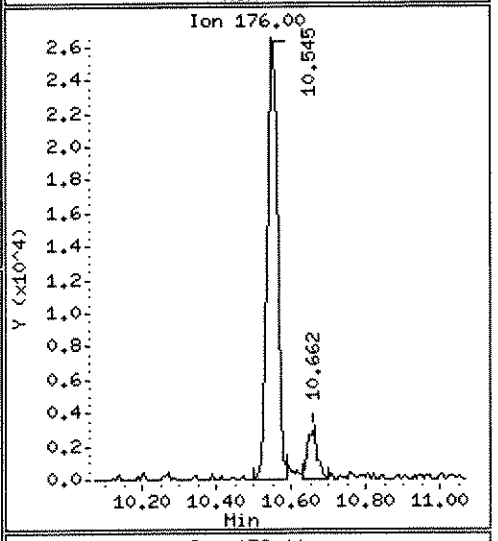


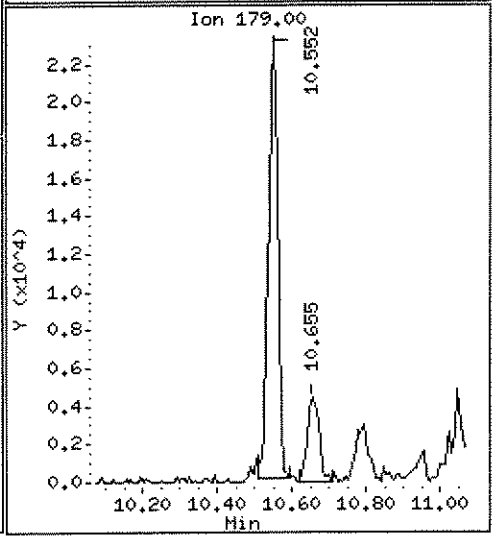












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Date : 27-JUL-2006 16:47

Client ID: 51CFM14S060725

Instrument: bna1.i

Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

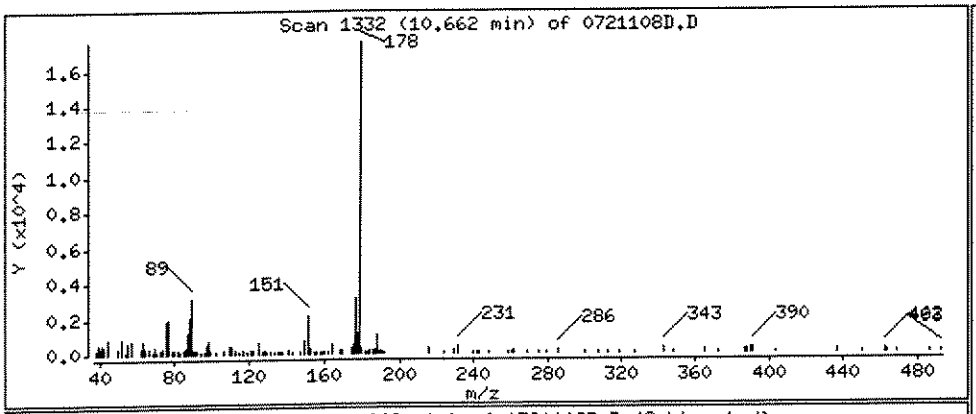
Operator: SDB

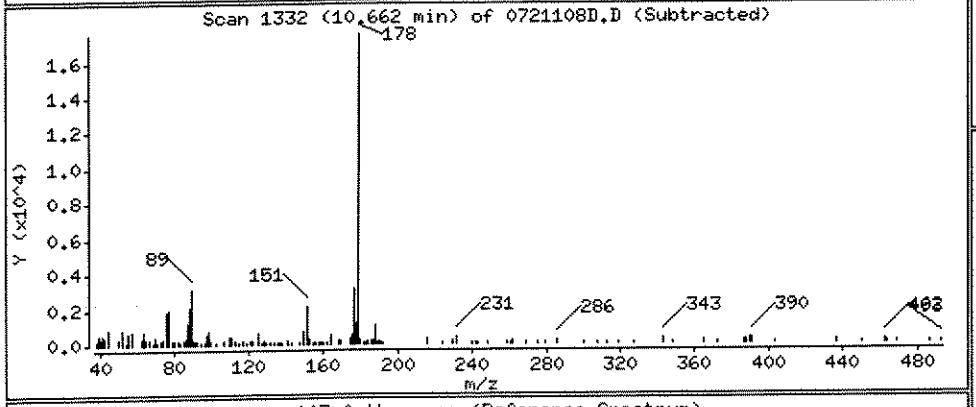
Column phase: fused silica

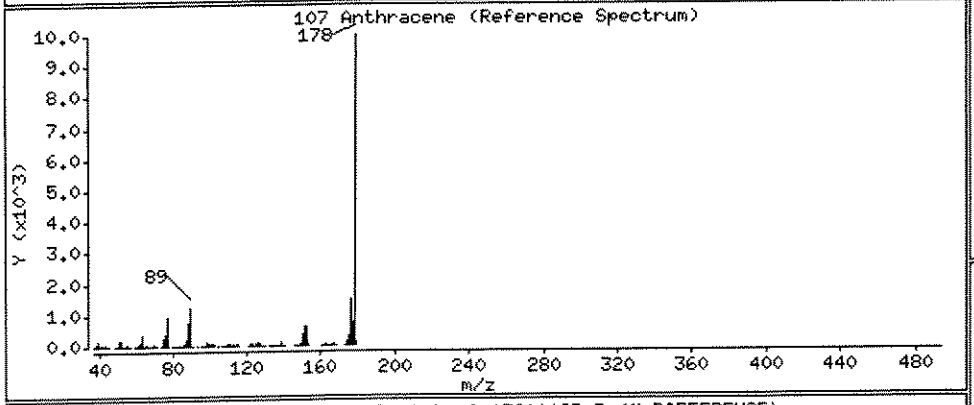
Column diameter: 0.25

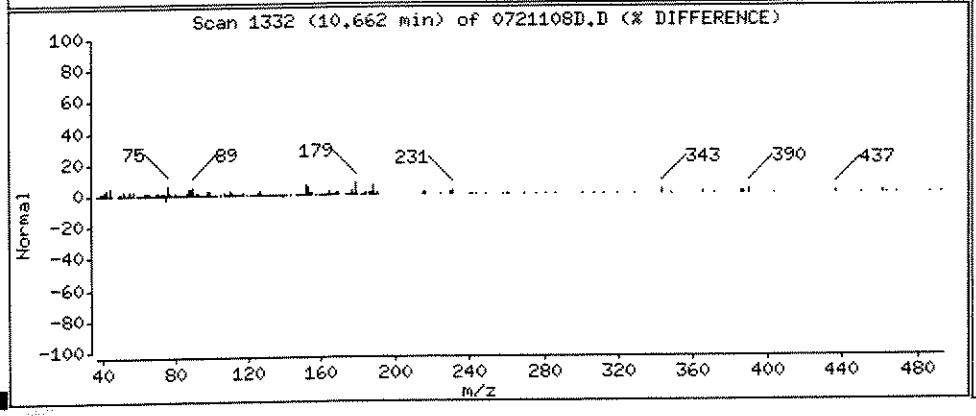
107 Anthracene

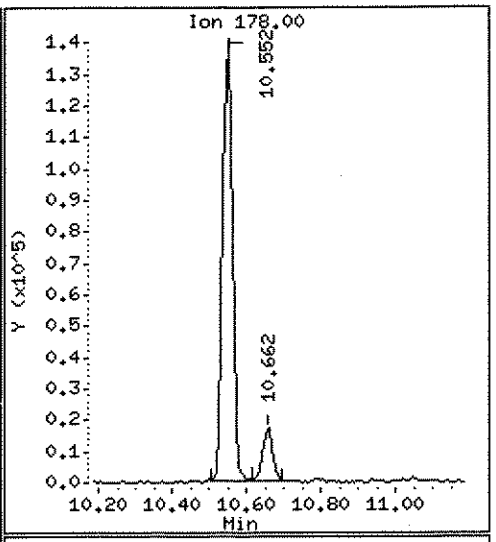
Concentration: 106.3 UG/KG

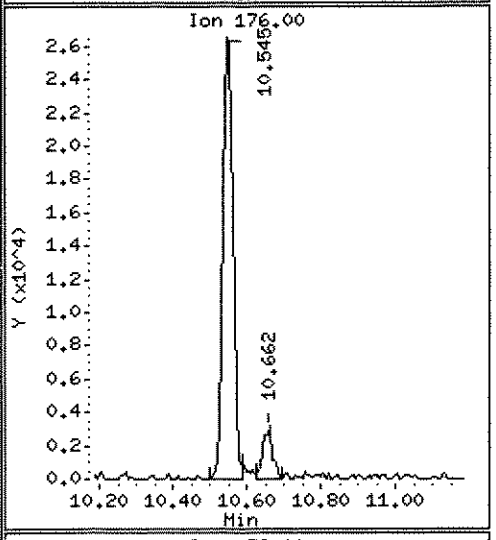


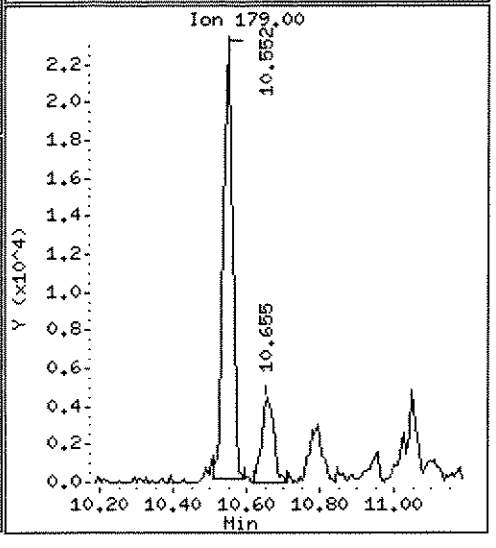












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

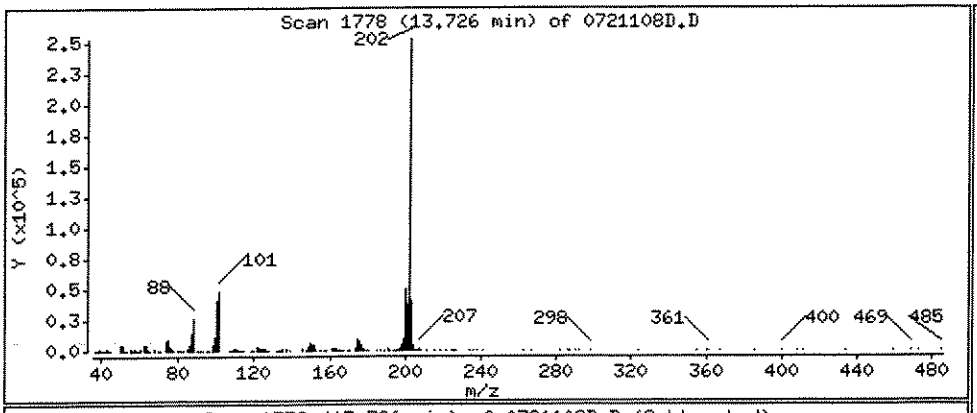
Client ID: 51CFM14S060725 Instrument: bna1.i

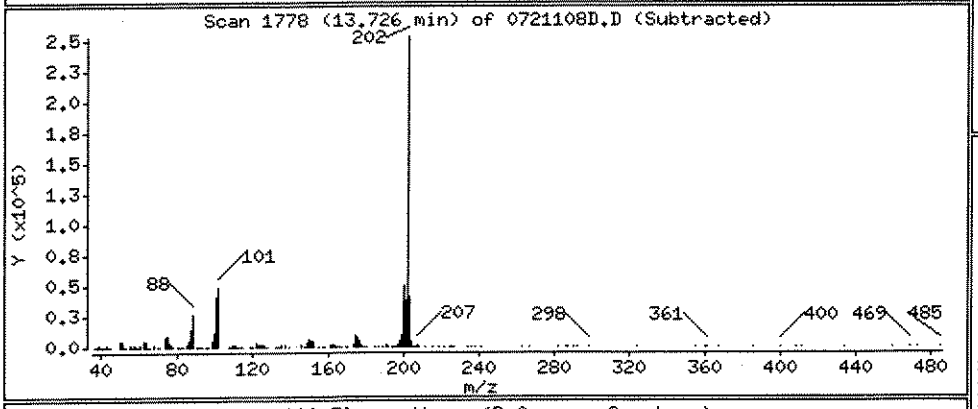
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

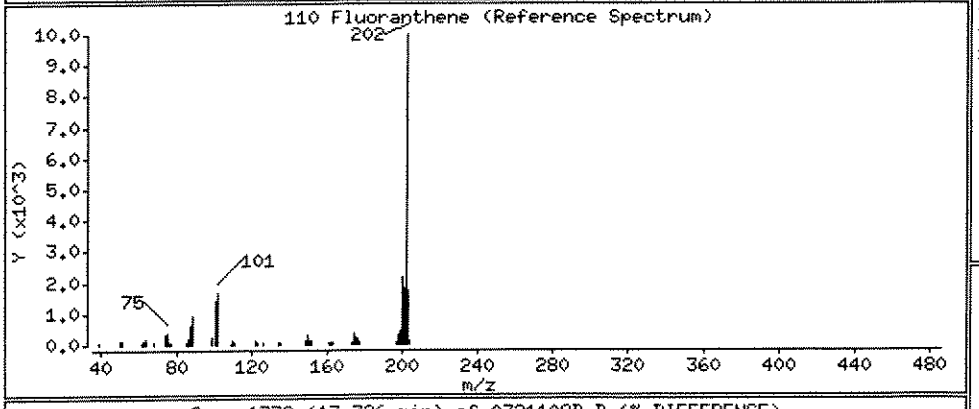
Volume Injected (uL): 0.5 Operator: SDB

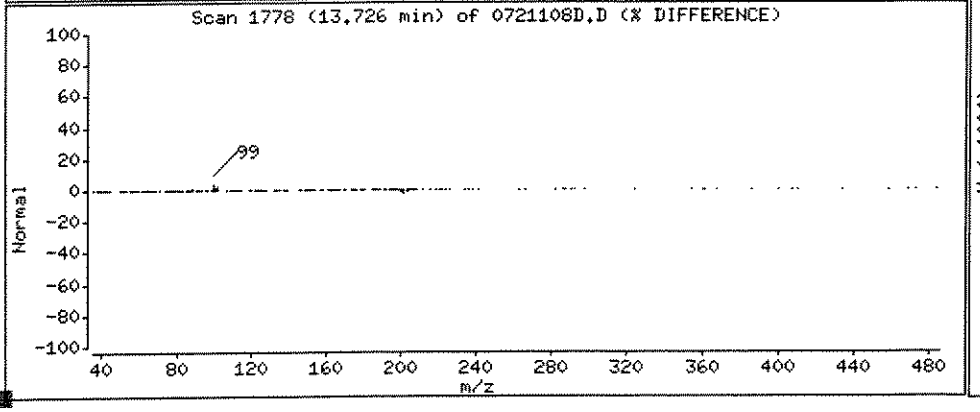
Column phase: fused silica Column diameter: 0.25

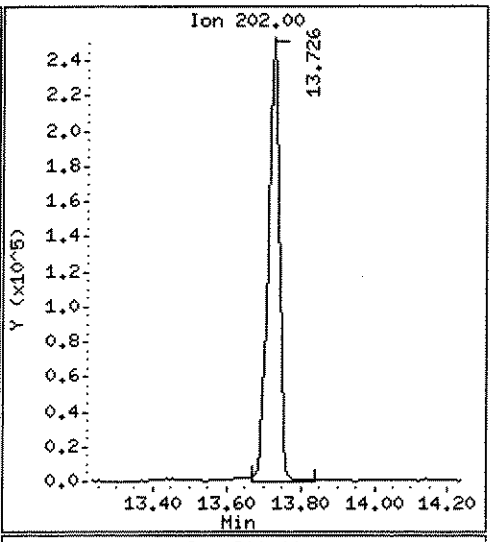
110 Fluoranthene Concentration: 1767 UG/KG

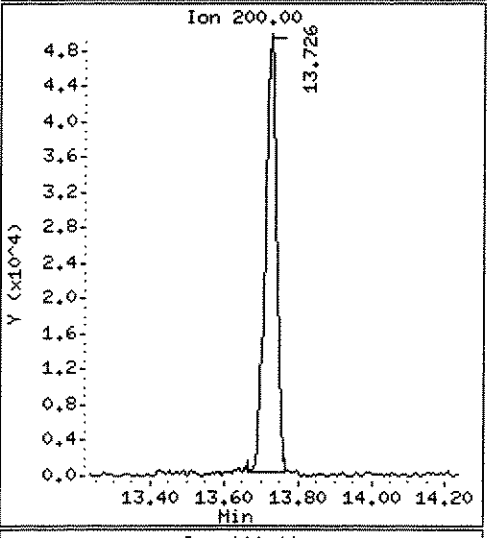


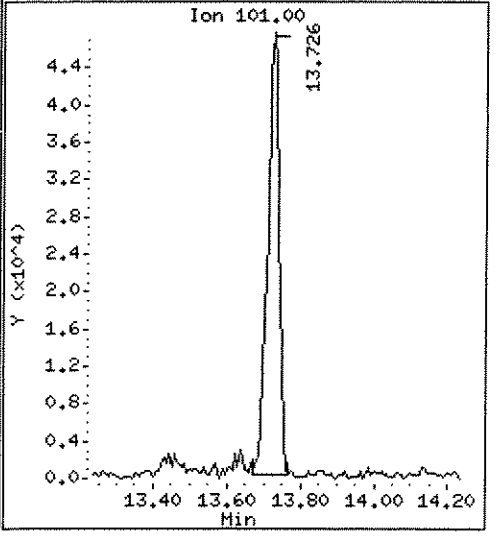












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

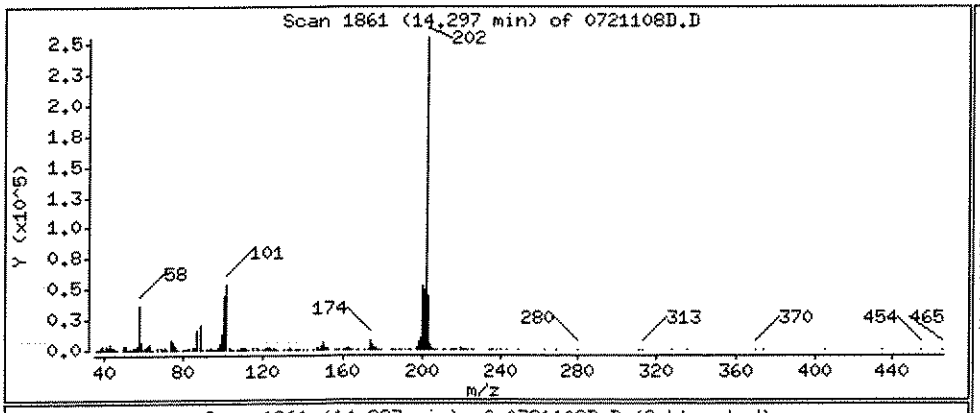
Client ID: 51CFM14SO60725 Instrument: bna1.i

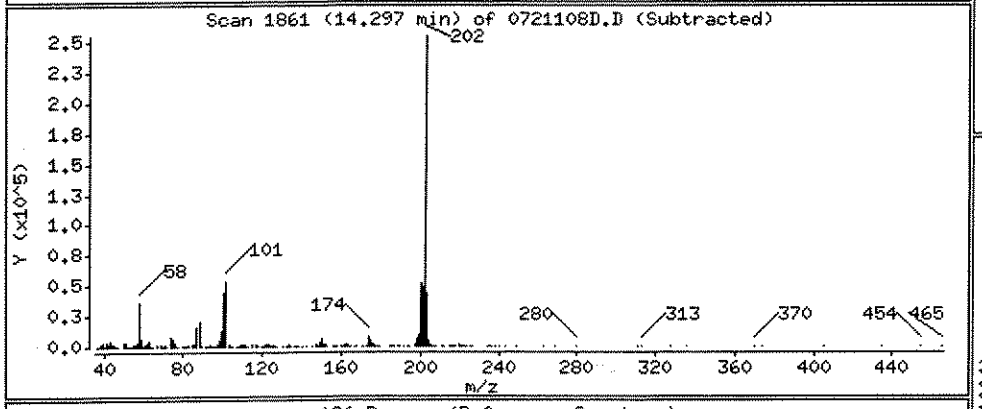
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

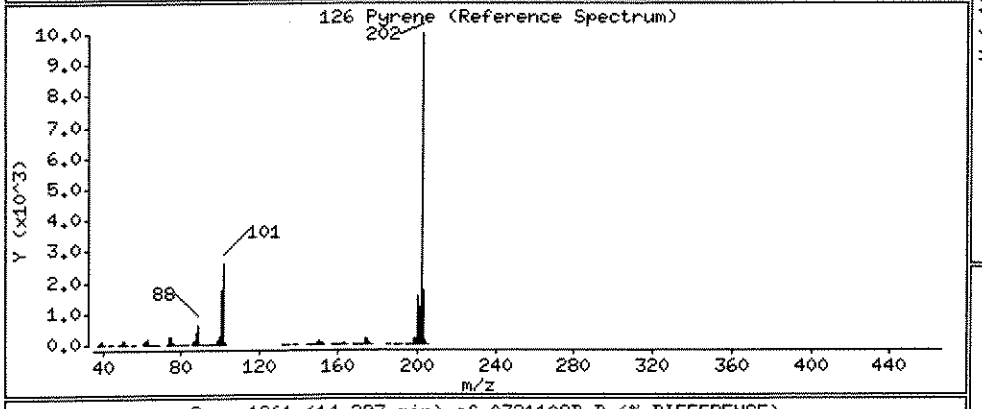
Volume Injected (uL): 0.5 Operator: SDB

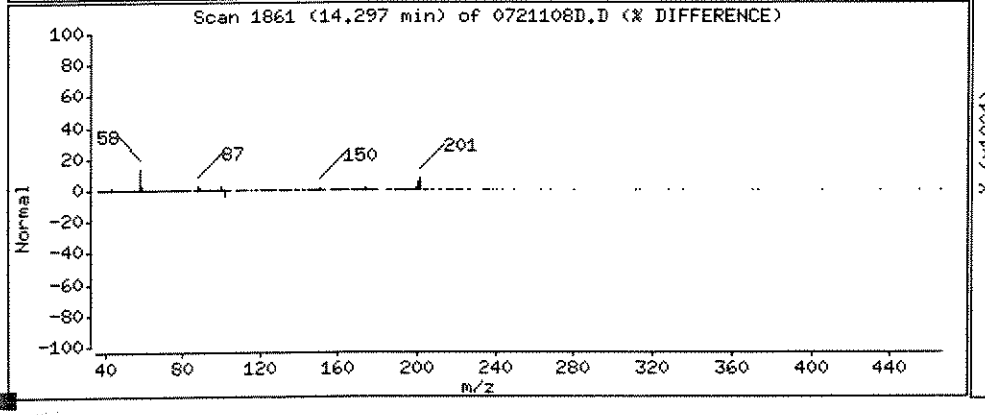
Column phase: fused silica Column diameter: 0.25

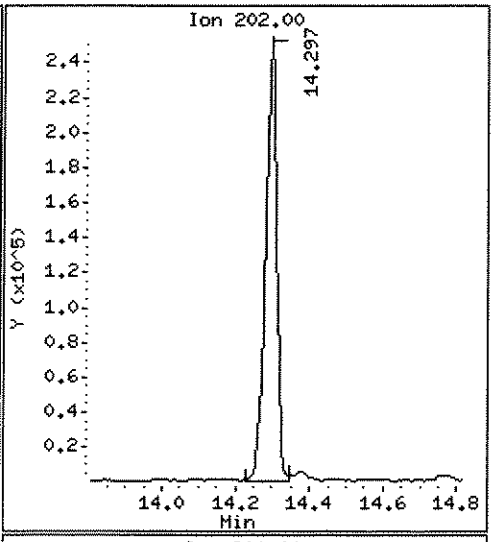
126 Pyrene Concentration: 2291 UG/KG

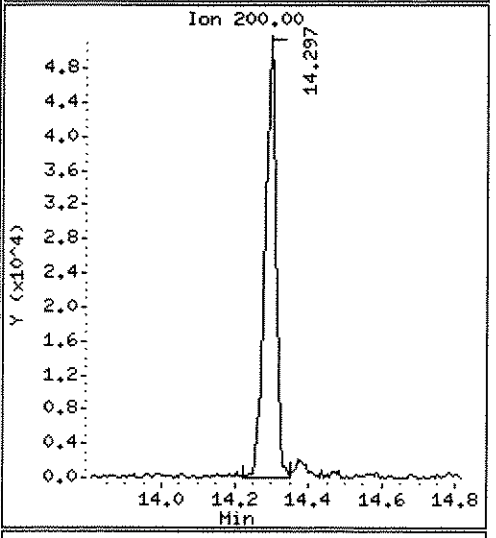


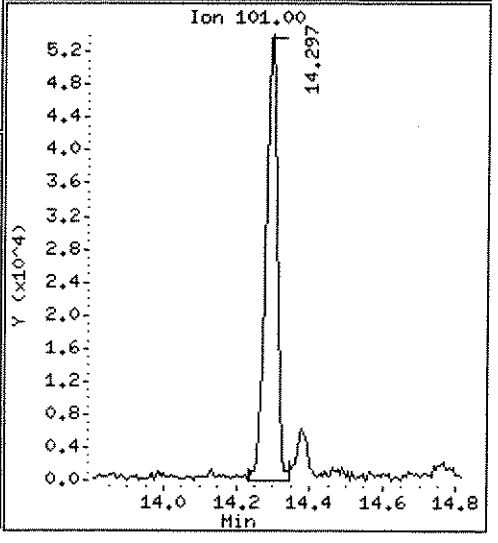












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000178

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

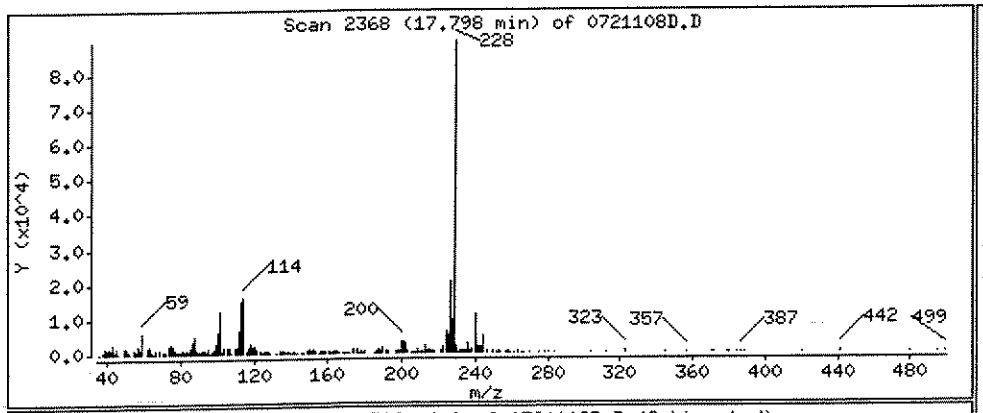
Client ID: 51CFM14S060725 Instrument: bna1.i

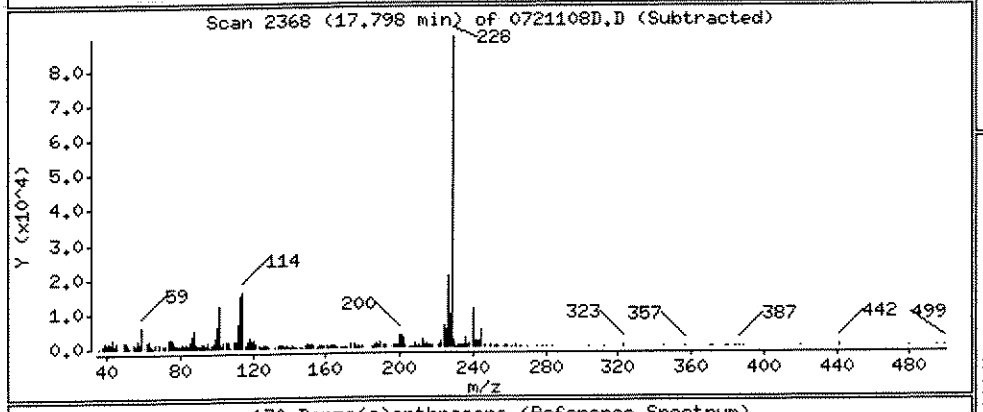
Sample Info: 0607211-08:15.1:500:1:UG/KG:26-JUL-2006

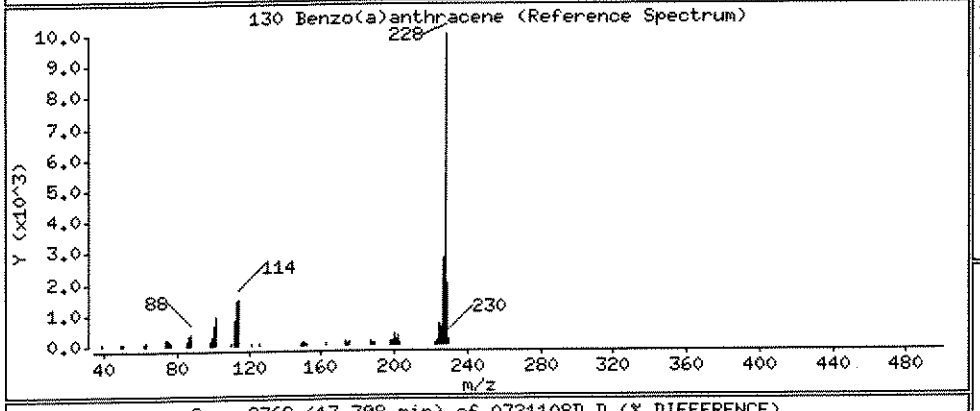
Volume Injected (uL): 0.5 Operator: SDB

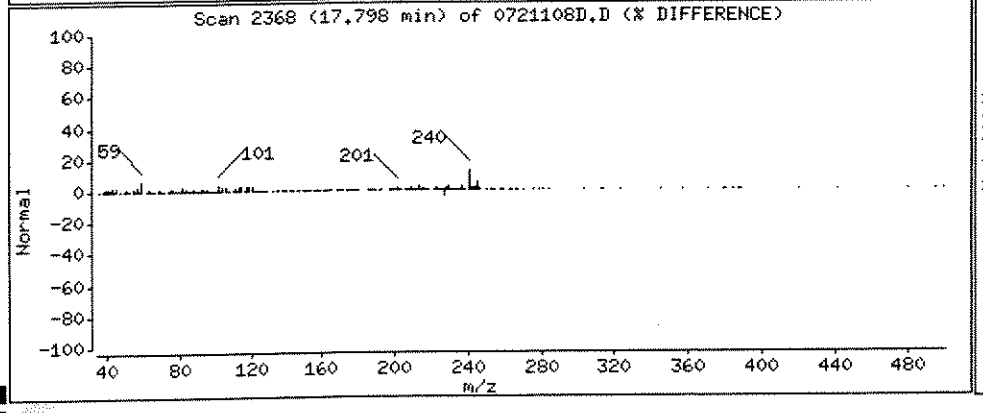
Column phase: fused silica Column diameter: 0.25

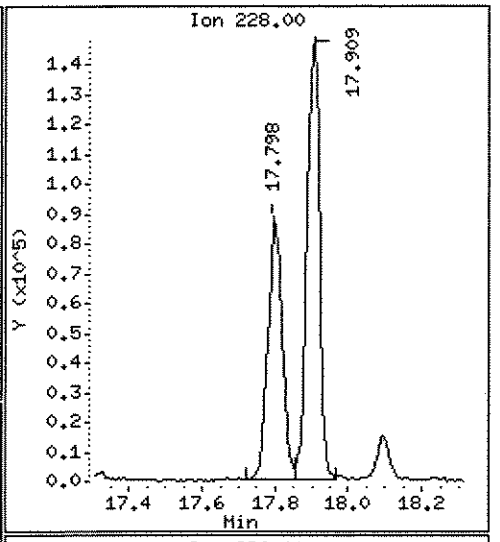
130 Benzo(a)anthracene Concentration: 1230 UG/KG

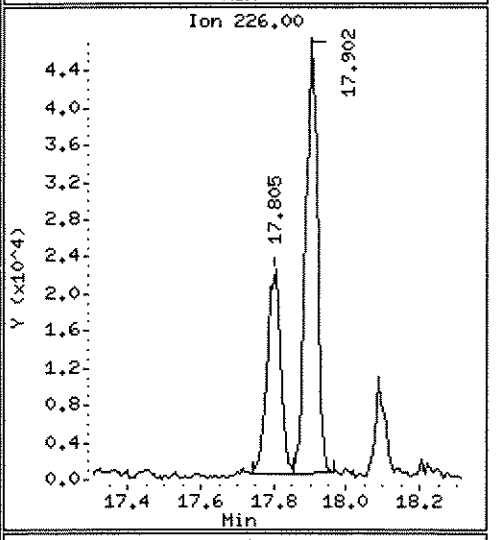


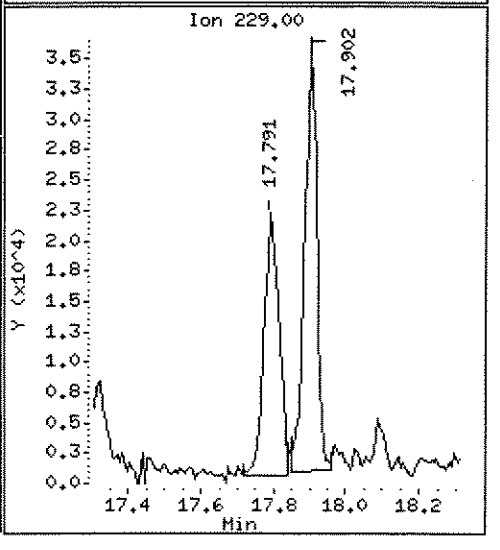












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

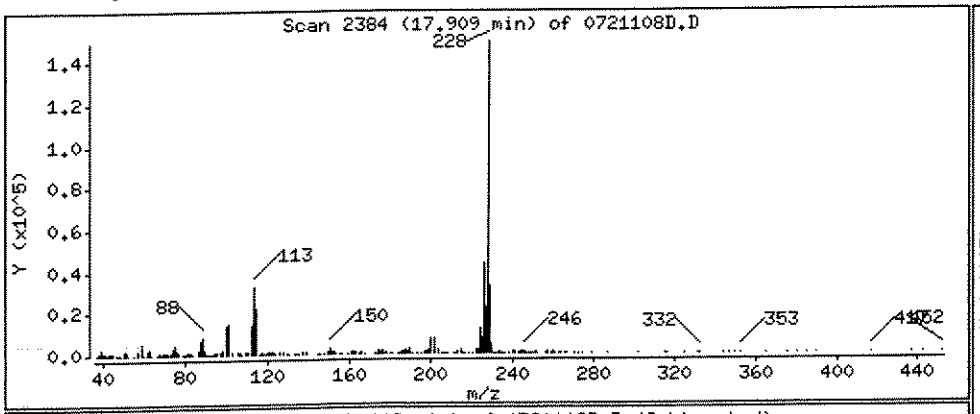
Client ID: 51CFM14S060725 Instrument: bna1.i

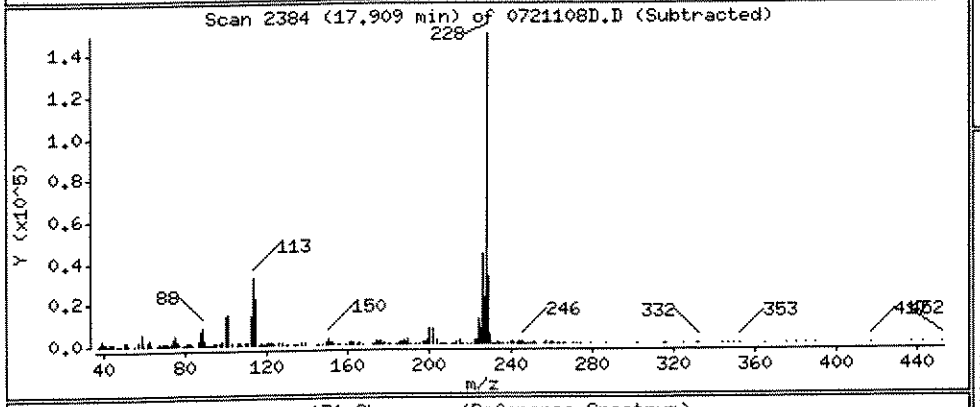
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

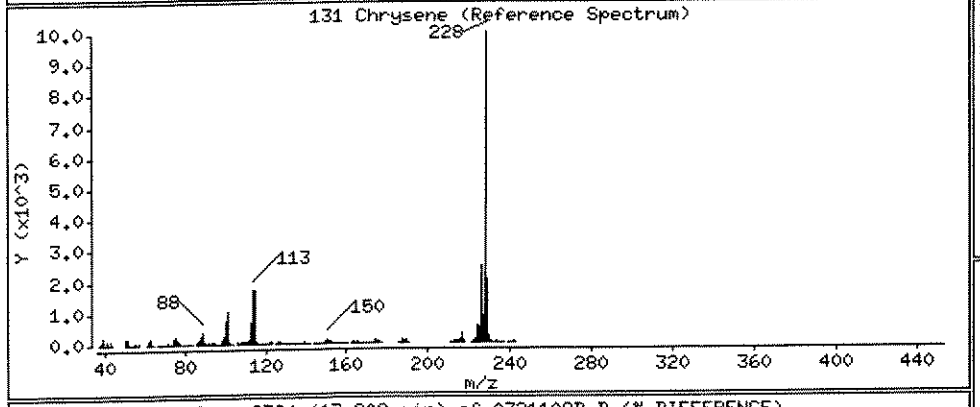
Volume Injected (uL): 0.5 Operator: SDB

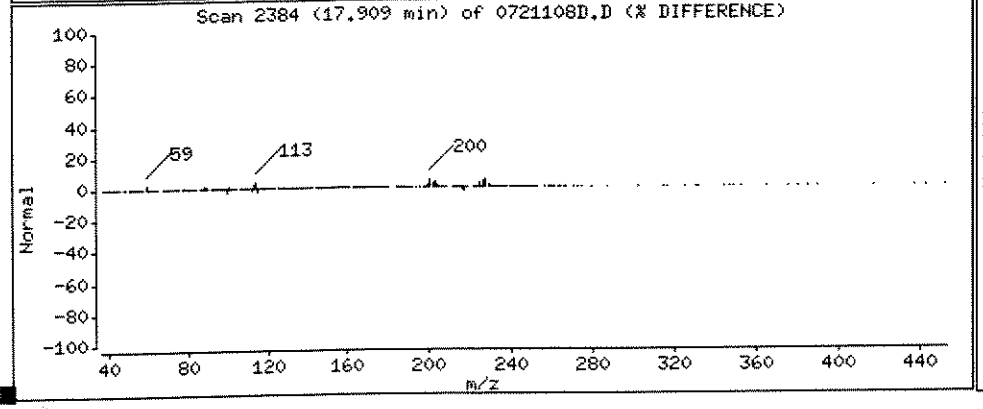
Column phase: fused silica Column diameter: 0.25

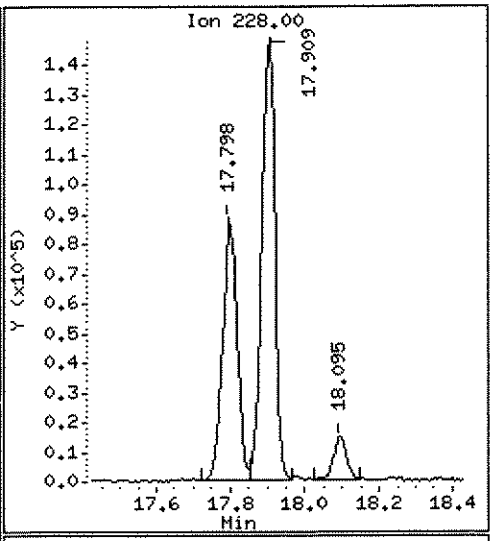
131 Chrysene Concentration: 2053 UG/KG

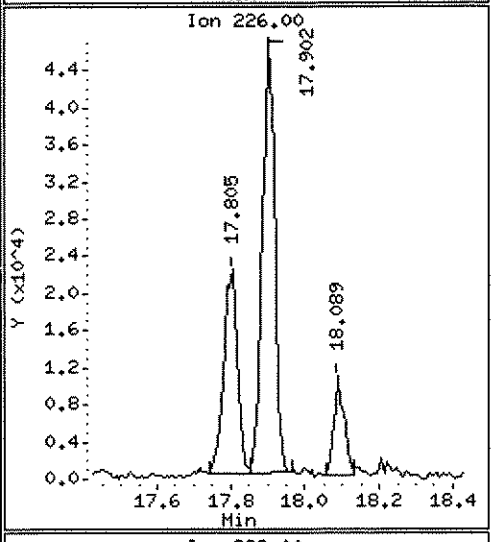


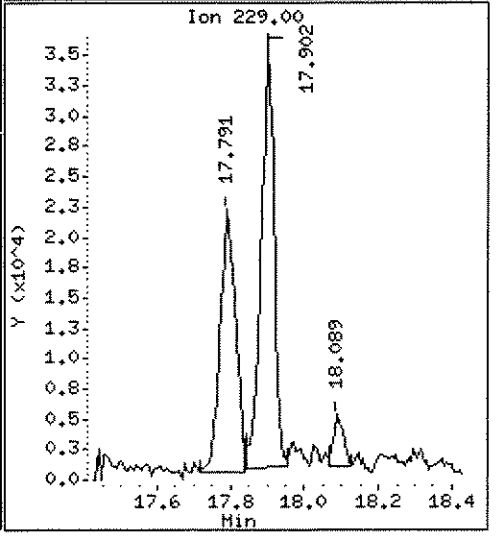












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

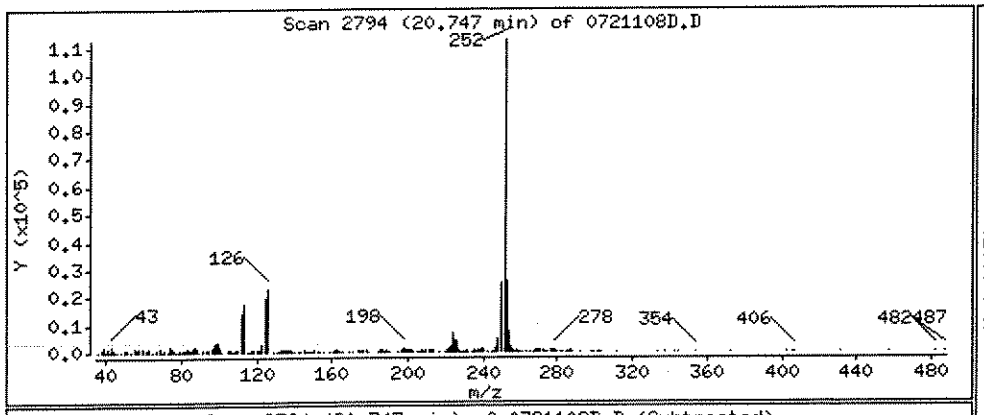
Client ID: 51CFM14S060725 Instrument: bna1.i

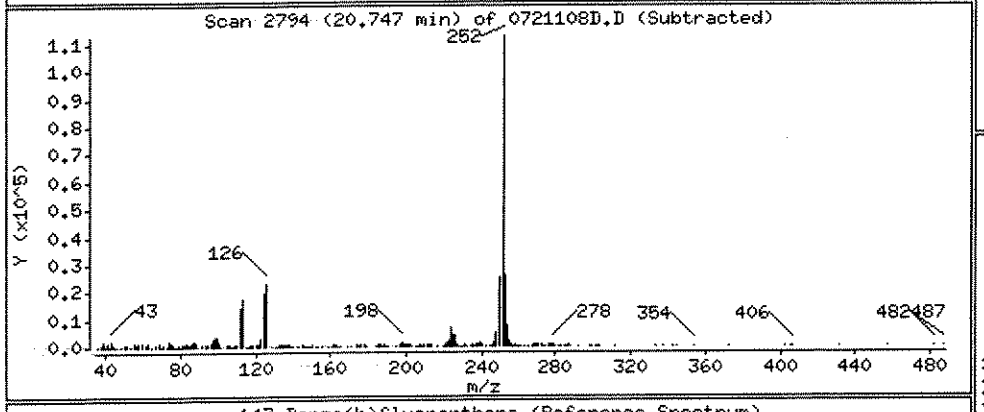
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

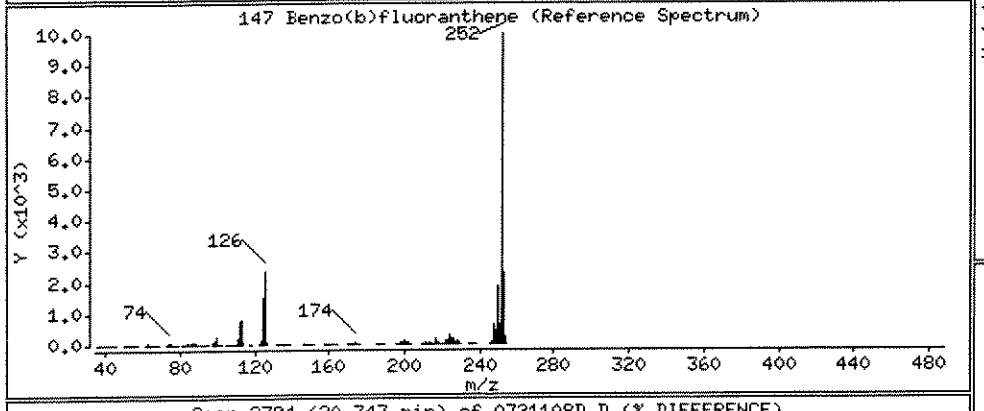
Volume Injected (uL): 0.5 Operator: SDB

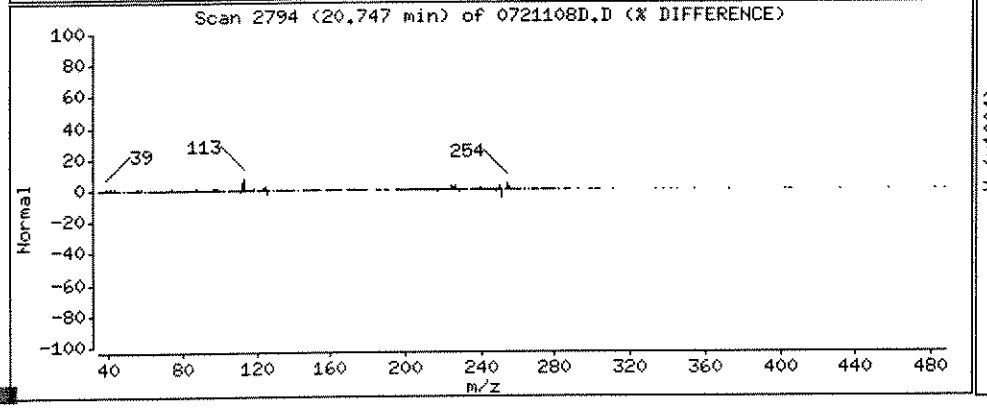
Column phase: fused silica Column diameter: 0.25

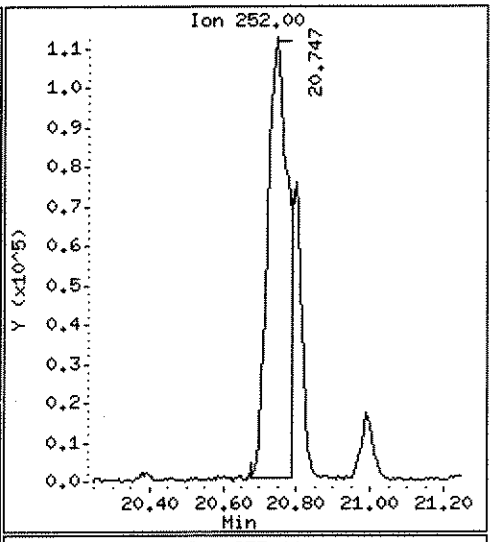
147 Benzo(b)fluoranthene Concentration: 3923 UG/KG

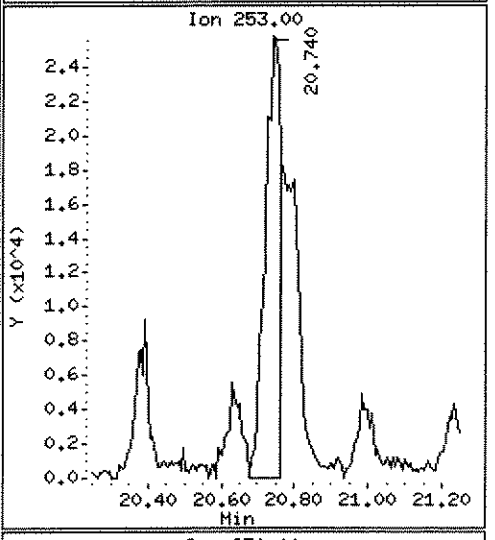


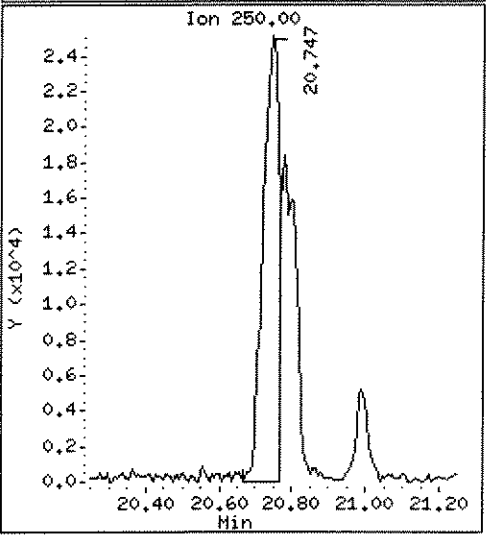












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

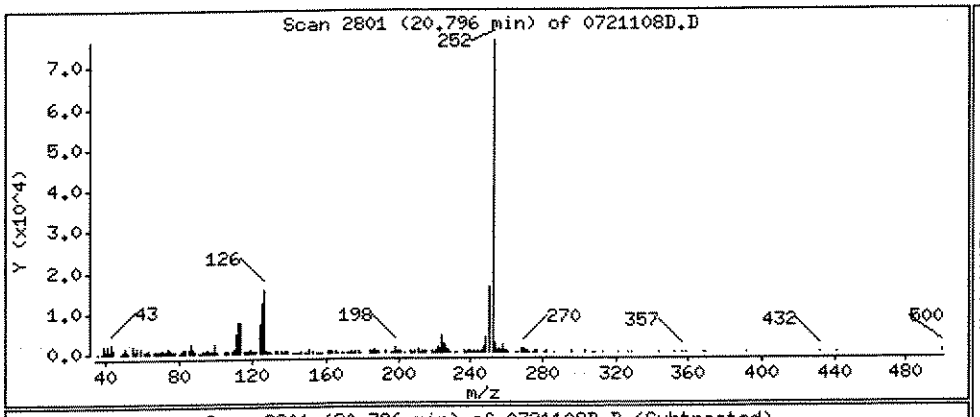
Client ID: 51CFM14S060725 Instrument: bna1.i

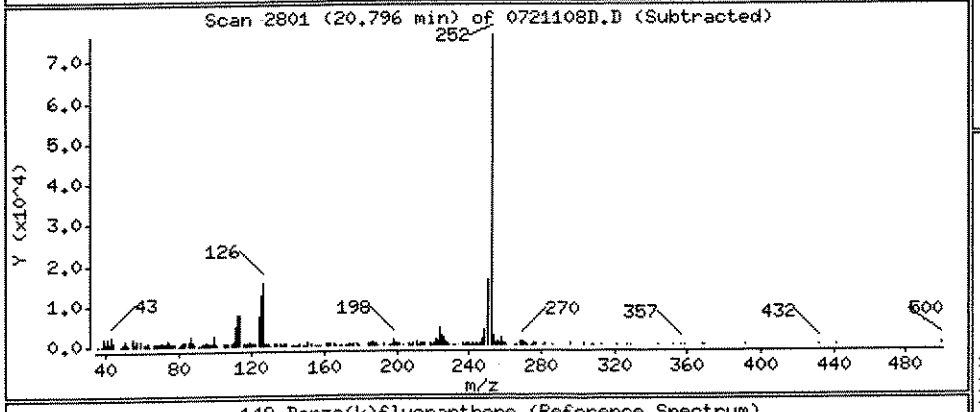
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

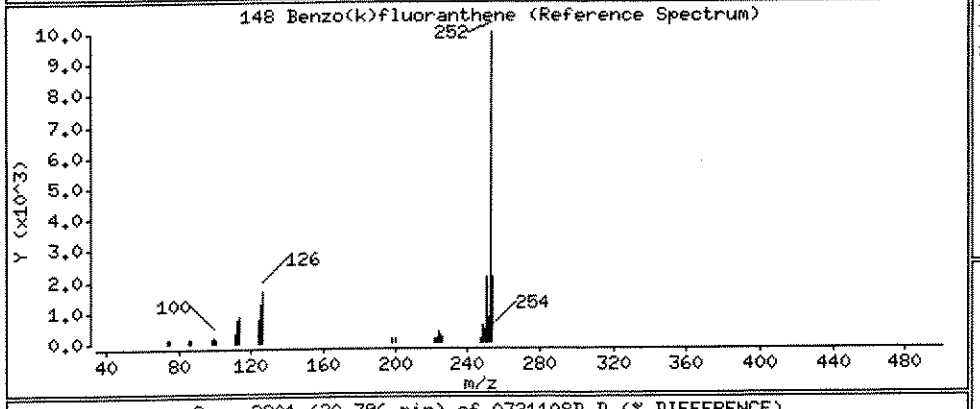
Volume Injected (uL): 0.5 Operator: SDB

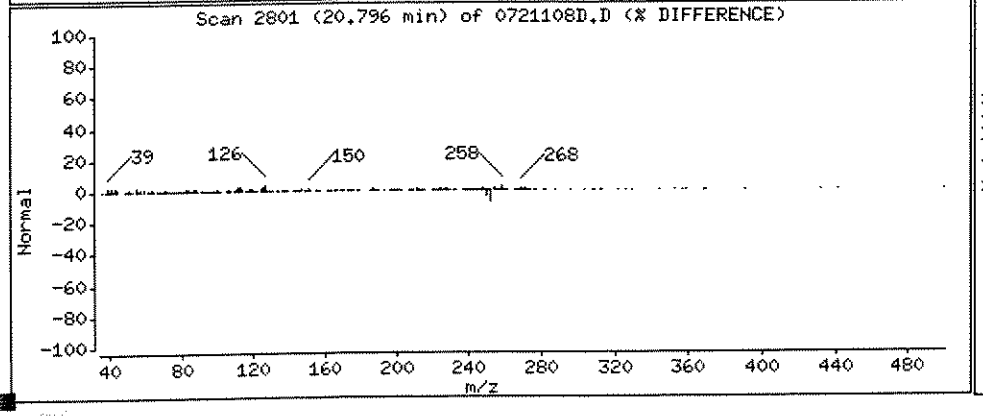
Column phase: fused silica Column diameter: 0.25

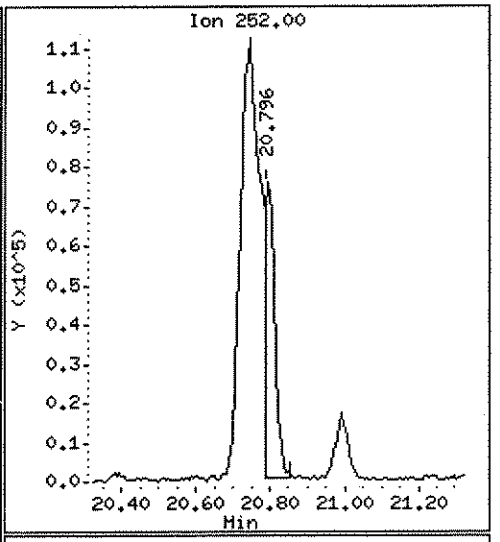
148 Benzo(k)fluoranthene Concentration: 1164 UG/KG

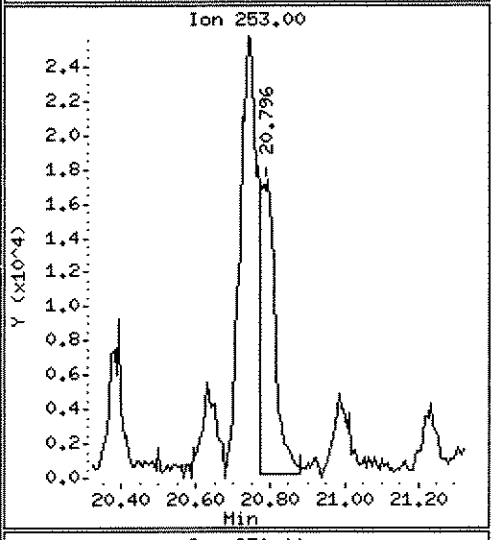


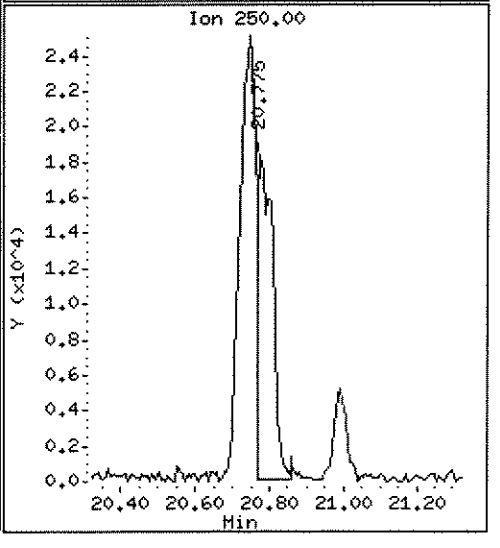












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

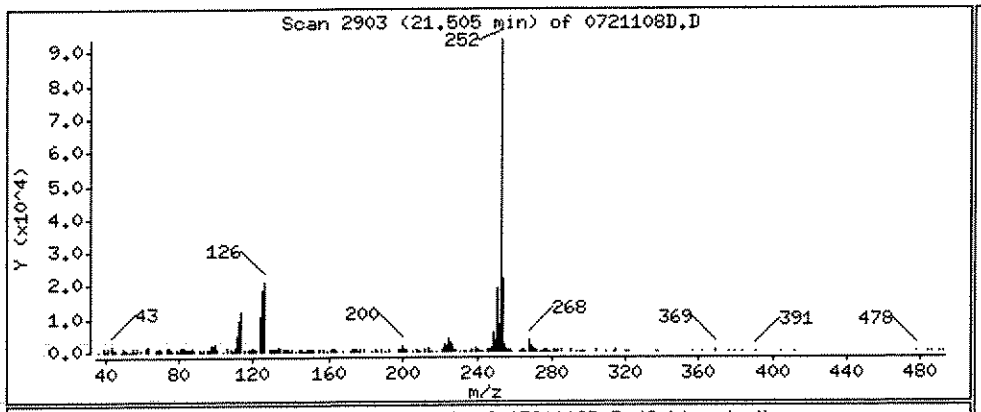
Client ID: 51CFM14S060725 Instrument: bna1.i

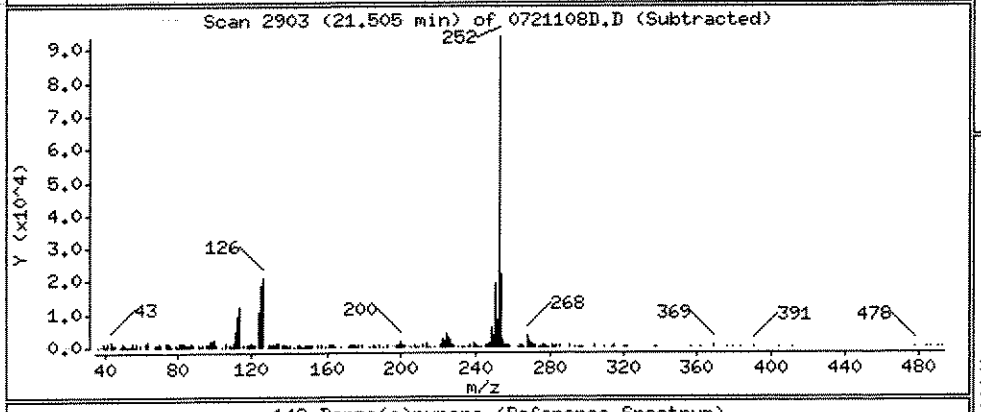
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

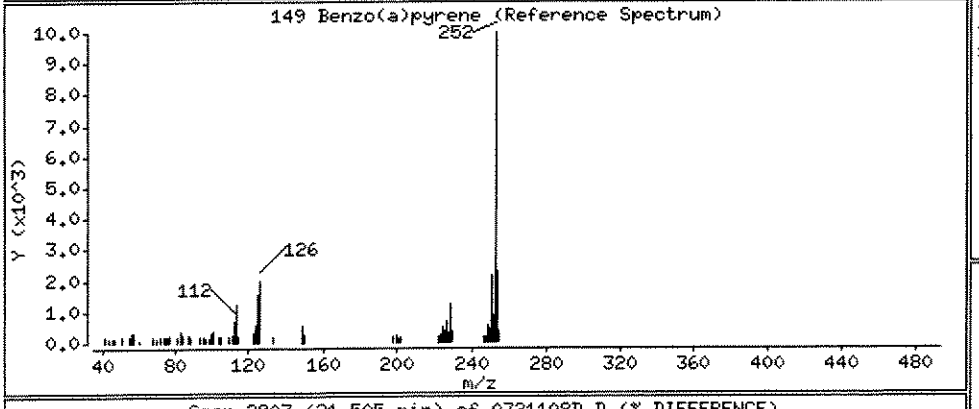
Volume Injected (uL): 0.5 Operator: SDB

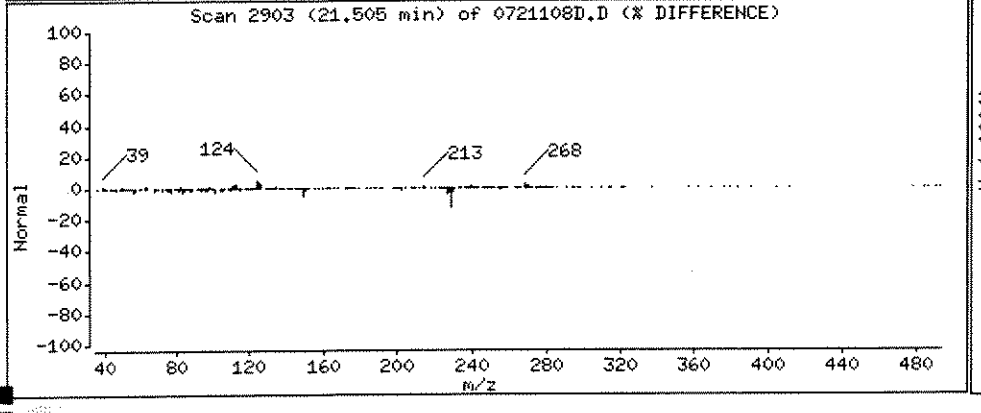
Column phase: fused silica Column diameter: 0.25

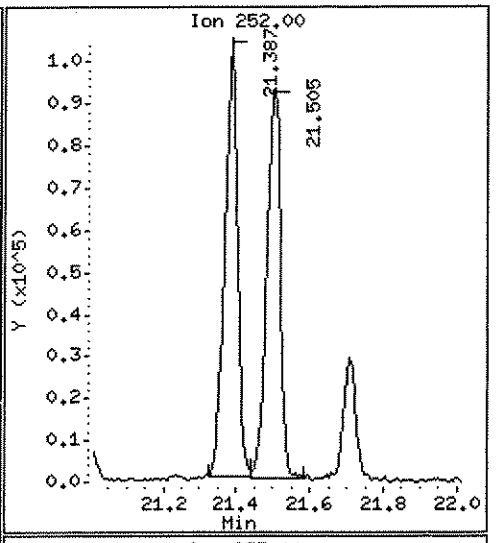
149 Benzo(a)pyrene Concentration: 2554 UG/KG

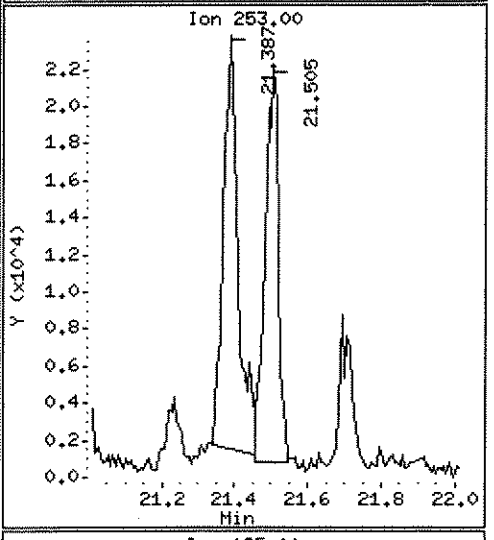


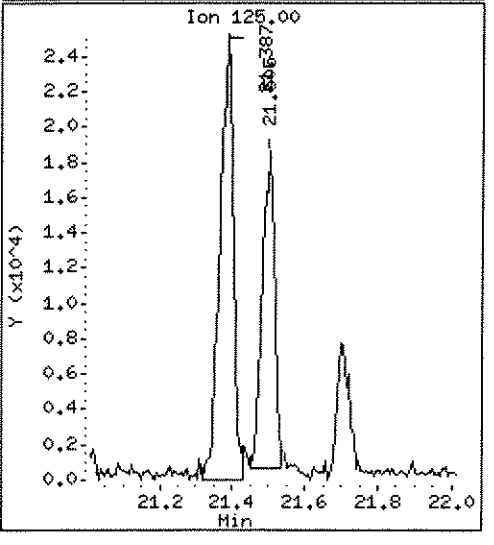












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

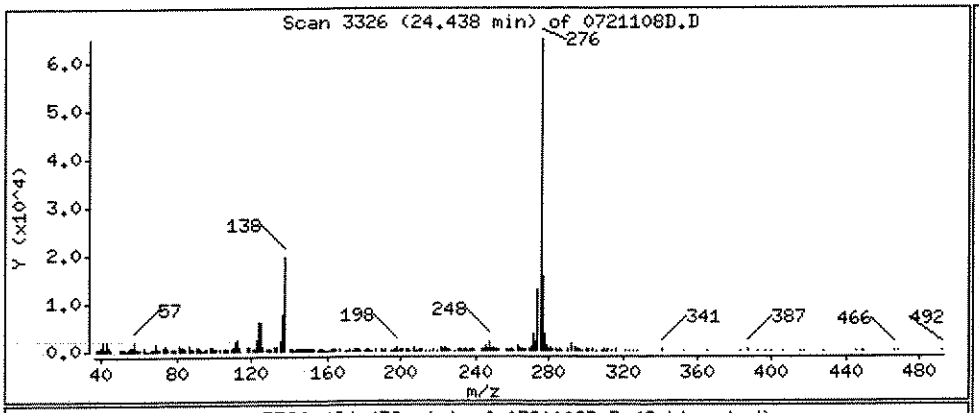
Client ID: 51CFM14S060725 Instrument: bna1.i

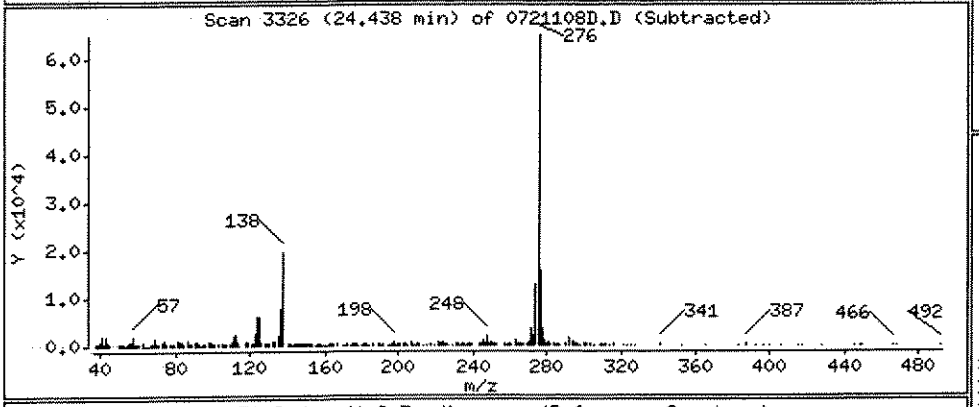
Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

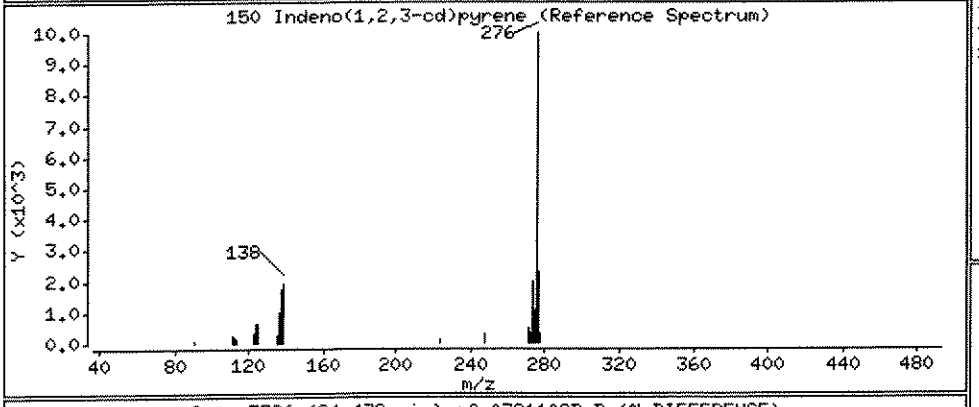
Volume Injected (uL): 0.5 Operator: SDB

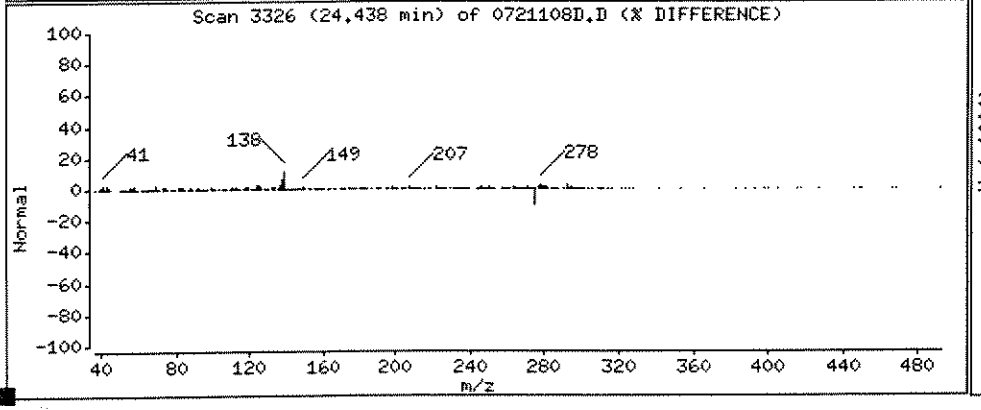
Column phase: fused silica Column diameter: 0.25

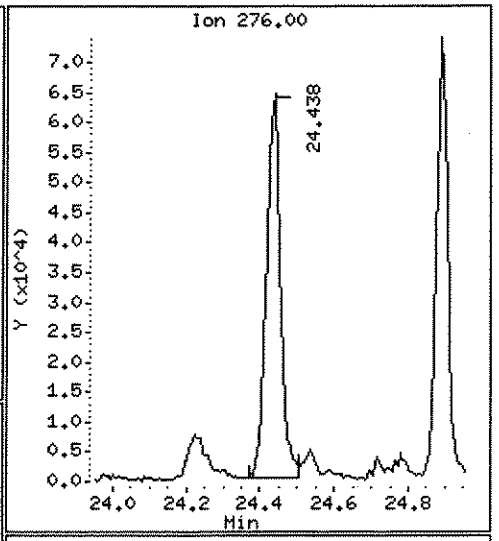
150 Indeno(1,2,3-cd)pyrene Concentration: 2069 UG/KG

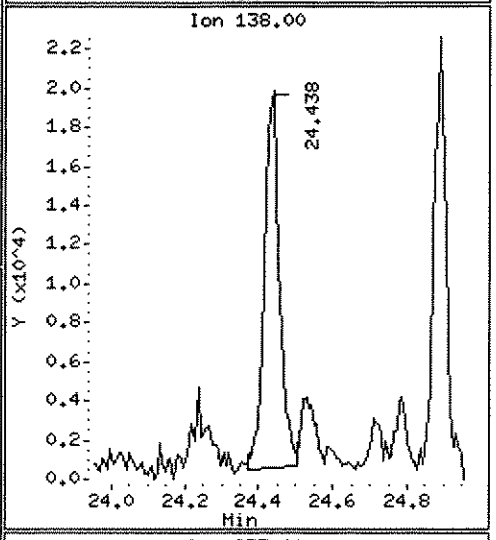


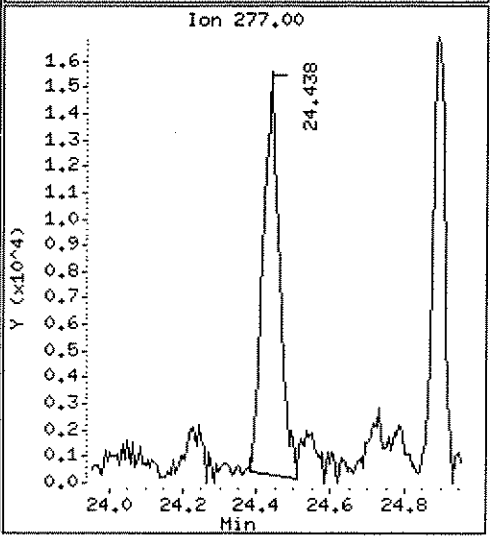












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

Client ID: 51CFM14S060725

Instrument: bna1.i

Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

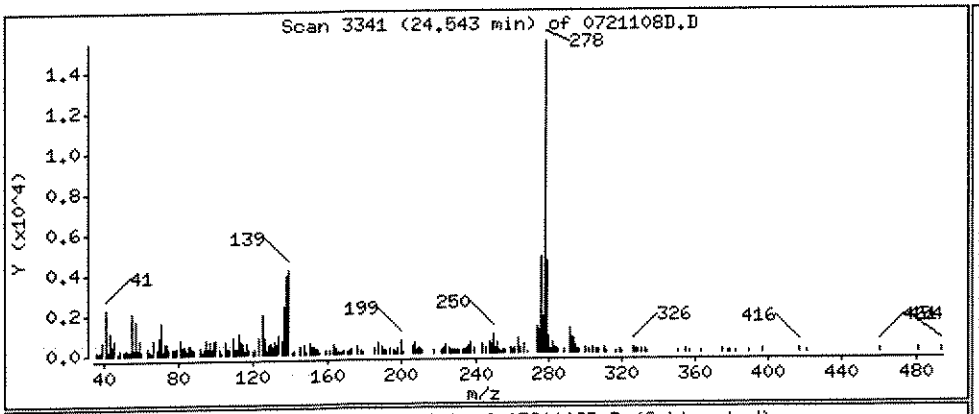
Operator: SDB

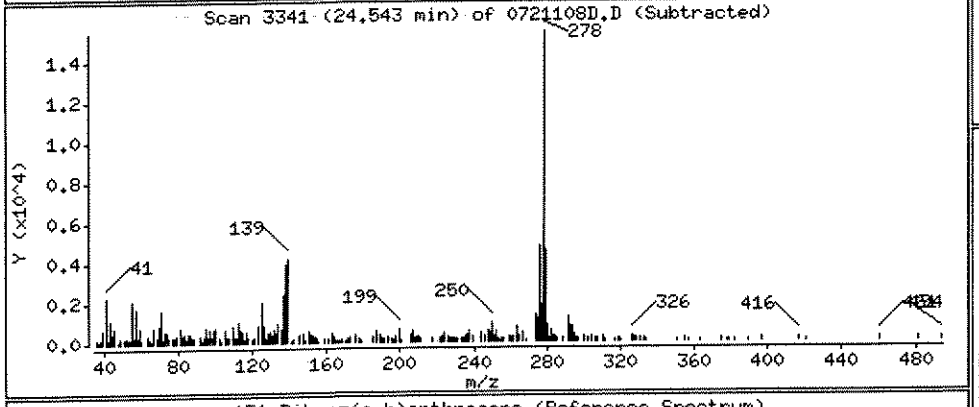
Column phase: fused silica

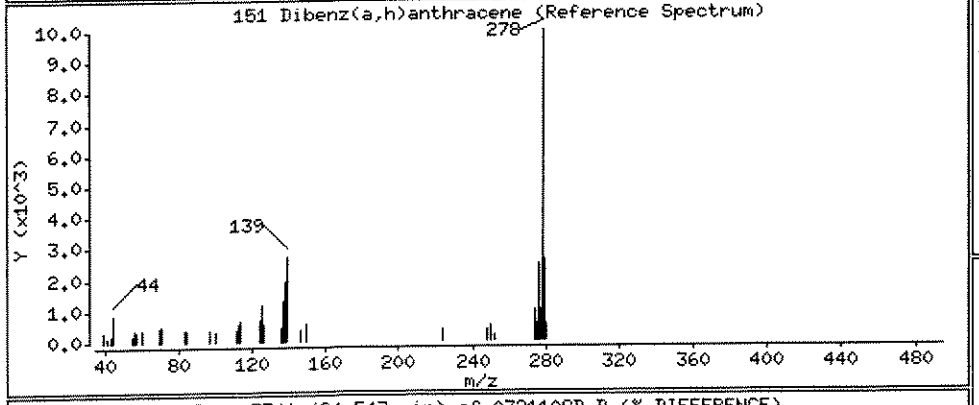
Column diameter: 0.25

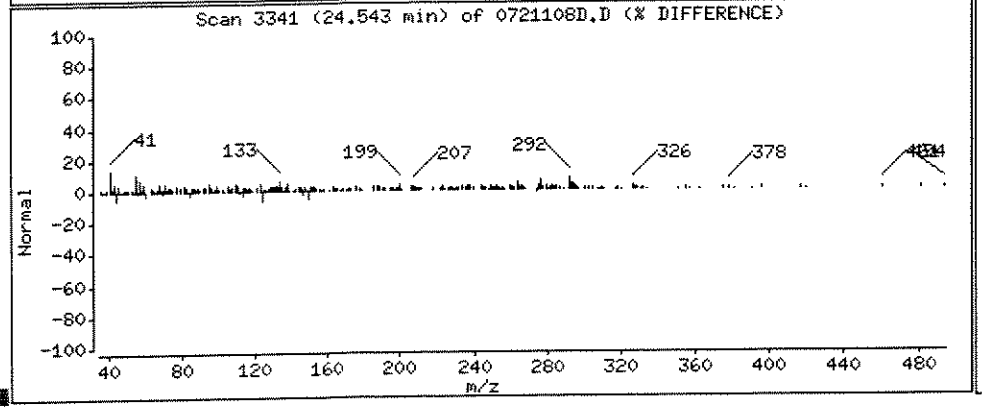
151 Dibenz(a,h)anthracene

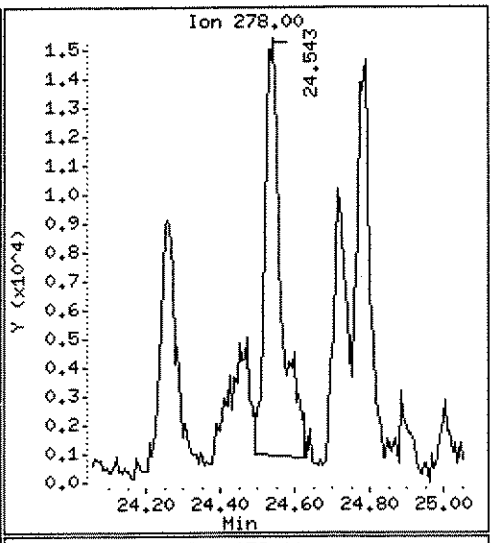
Concentration: 542.7 UG/KG

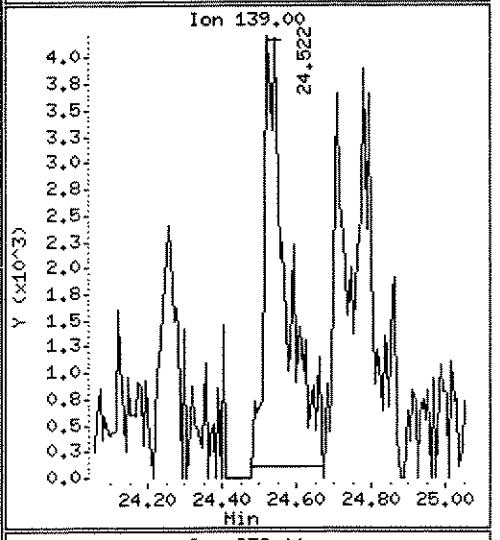


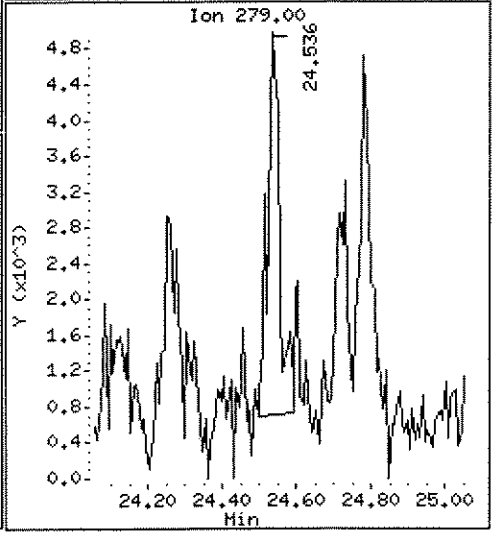












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Data File: \\ELABNSHO4\DD\chem\bna1.i\072706B1.b\0721108D.D

Date : 27-JUL-2006 16:47

Client ID: 51CFM14S060725

Instrument: bna1.i

Sample Info: 0607211-08;15.1;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

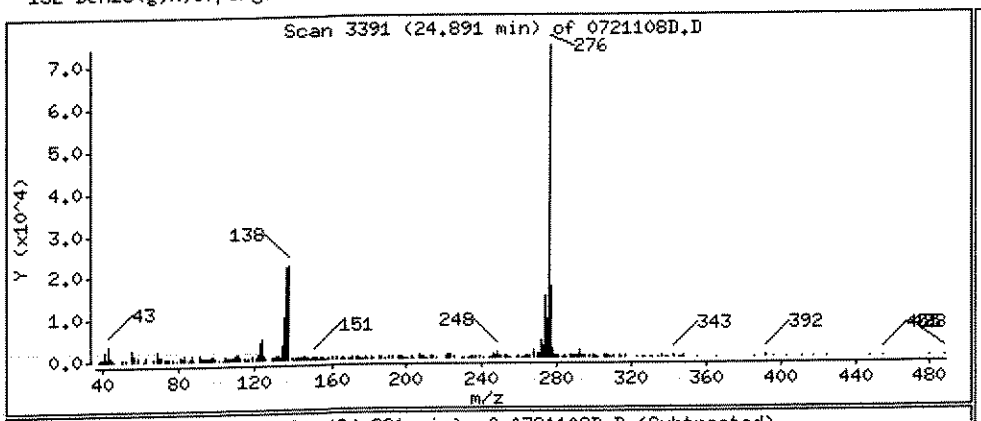
Operator: SDB

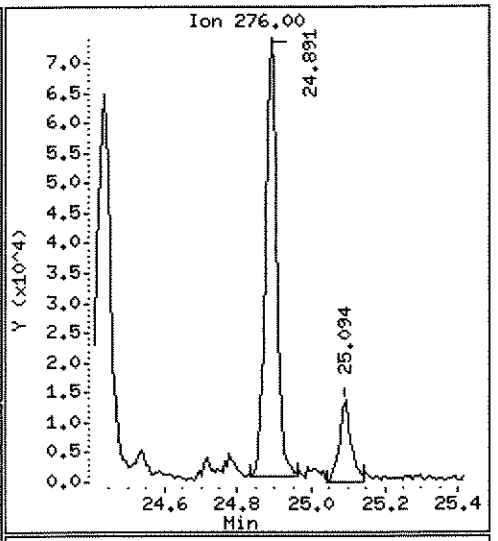
Column phase: fused silica

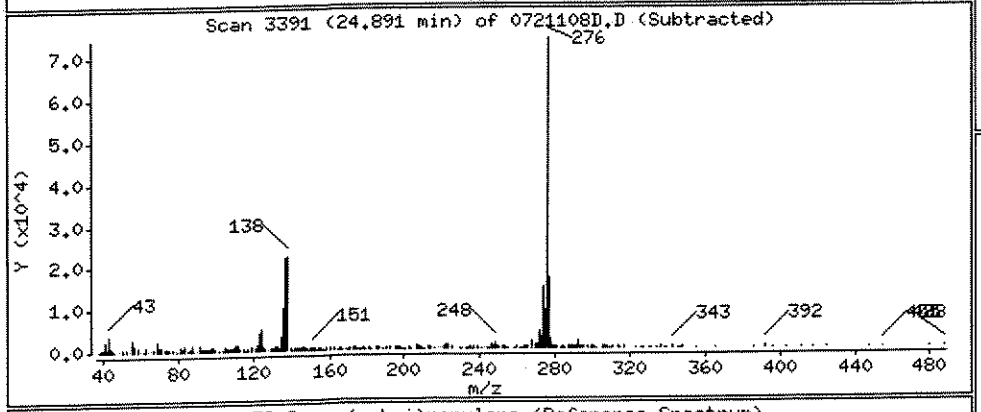
Column diameter: 0.25

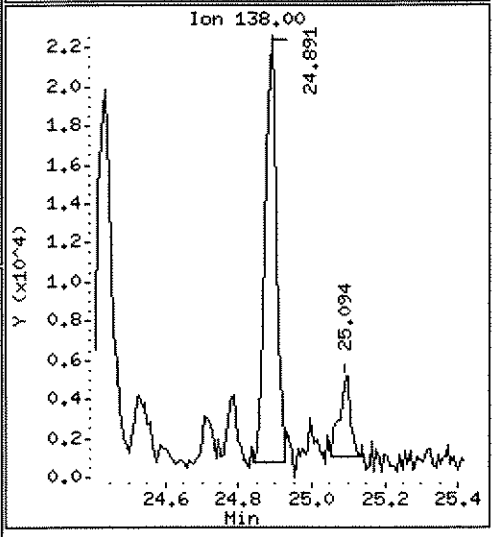
152 Benzo(g,h,i)perylene

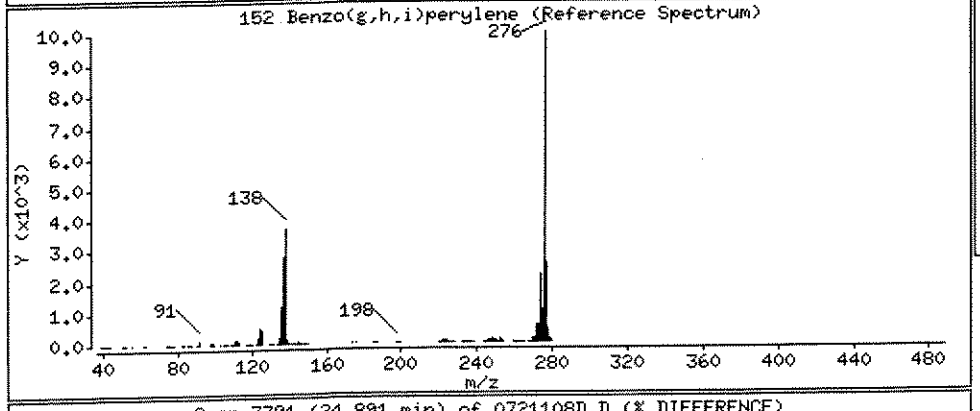
Concentration: 1871 UG/KG

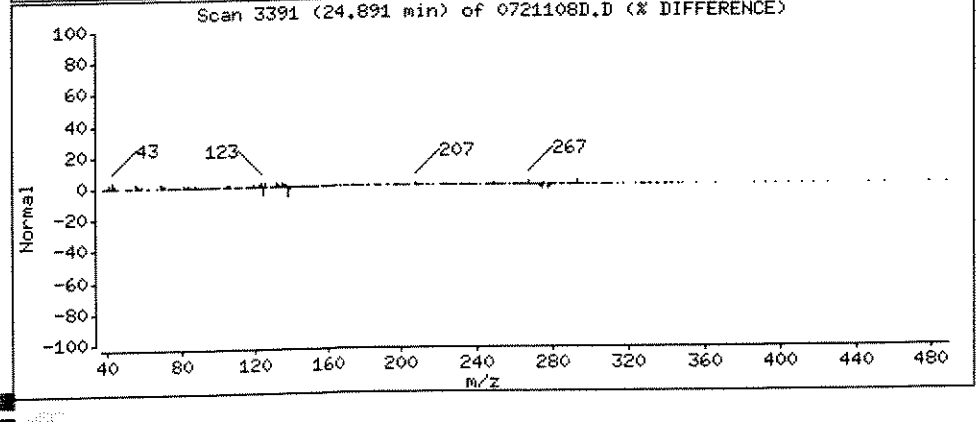












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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180	4400	E
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180	3400	
56-55-3	Benzo(a)anthracene	22	180	13000	E
205-99-2	Benzo(b)fluoranthene	22	180	20000	E*
207-08-9	Benzo(k)fluoranthene	22	180	5900	E*
191-24-2	Benzo(g,h,i)perylene	22	180	2300	*
50-32-8	Benzo(a)pyrene	22	110	12000	E*
218-01-9	Chrysene	22	180	14000	E
53-70-3	Dibenz(a,h)anthracene	22	110	950	*
206-44-0	Fluoranthene	22	180	23000	E
86-73-7	Fluorene	22	180	3500	
193-39-5	Indeno(1,2,3-cd)pyrene	22	180	2800	*
91-57-6	2-Methylnaphthalene	22	180	630	
90-12-0	1-Methylnaphthalene	55	180	680	
91-20-3	Naphthalene	22	180	250	
85-01-8	Phenanthrene	22	180	16000	E
129-00-0	Pyrene	22	180	27000	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D
Report Date: 27-Jul-2006 09:06

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Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 26-JUL-2006 20:20
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-09;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	89.100	Percent Solids

1/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)	
*	1 1,4-Dichlorobenzene-d4	152	4.116	4.120	(1.000)	498672	40.0000		(QM)
*	31 Naphthalene-d8	136	5.091	5.088	(1.000)	1655237	40.0000		
$	32 Nitrobenzene-d5	82	4.549	4.553	(0.893)	543005	30.0517	1109	
	47 Naphthalene	128	5.105	5.108	(1.003)	281399	6.83767	252.4	
	51 2-Methylnaphthalene	141	5.815	5.815	(1.142)	405251	17.1370	632.7	
	52 1-Methylnaphthalene	141	5.947	5.939	(1.168)	418564	18.5416	684.5	
*	65 Acenaphthene-d10	164	7.390	7.382	(1.000)	755154	40.0000		
$	70 2-Fluorobiphenyl	172	6.341	6.345	(0.858)	811325	33.7611	1246	
	76 Acenaphthene	153	7.466	7.437	(1.010)	2583182	118.527	4376(A)	
	84 Fluorene	166	8.471	8.434	(1.146)	2196936	94.2487	3480	
*	97 Phenanthrene-d10	188	10.655	10.583	(1.000)	922634	40.0000		
	106 Phenanthrene	178	10.773	10.645	(1.011)	11549273	439.031	16210(A)	
	107 Anthracene	178	10.849	10.755	(1.018)	2382397	91.7320	3387(H)	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D
Report Date: 27-Jul-2006 09:06

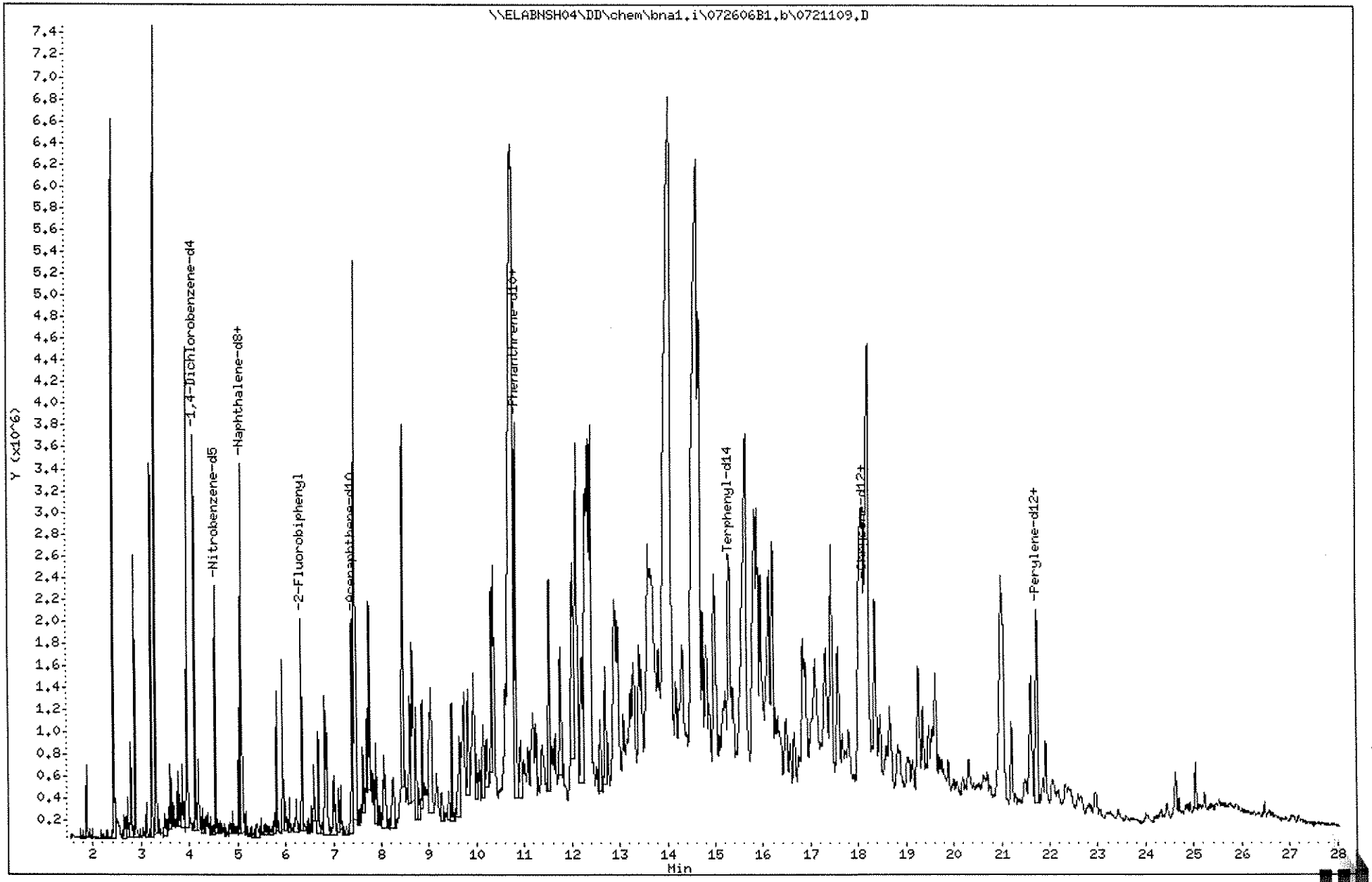
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
110 Fluoranthene	202	14.063	13.814	(1.320)	16188520	621.577	22950(AM)
* 124 Chrysene-d12	240	18.132	17.933	(1.000)	482307	40.0000	
126 Pyrene	202	14.634	14.390	(0.807)	13903865	721.841	26650(AM)
$ 127 Terphenyl-d14	244	15.298	15.177	(0.844)	612383	50.2824	1856
130 Benzo(a)anthracene	228	18.070	17.885	(0.997)	5652472	363.737	13430(A)
131 Chrysene	228	18.223	18.002	(1.005)	5526348	389.359	14370(AH)
* 145 Perylene-d12	264	21.869	21.736	(1.000)	202049	40.0000	
147 Benzo(b)fluoranthene	252	21.021	20.823	(0.961)	3444609	553.441	20430(AM)
148 Benzo(k)fluoranthene	252	21.050	20.893	(0.963)	1028350	159.251	5879(AM)
149 Benzo(a)pyrene	252	21.756	21.584	(0.995)	1734641	323.207	11930(AH)
150 Indeno(1,2,3-cd)pyrene	276	24.624	24.521	(1.126)	347189	75.8219	2799(H)
151 Dibenz(a,h)anthracene	278	24.695	24.618	(1.129)	118703	25.7502	950.7
152 Benzo(g,h,i)perylene	276	25.048	24.961	(1.145)	292537	61.5629	2273

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D
Date : 26-JUL-2006 20:20
Client ID: 51CFM15S060725
Instrument: bna1.i
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000190



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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

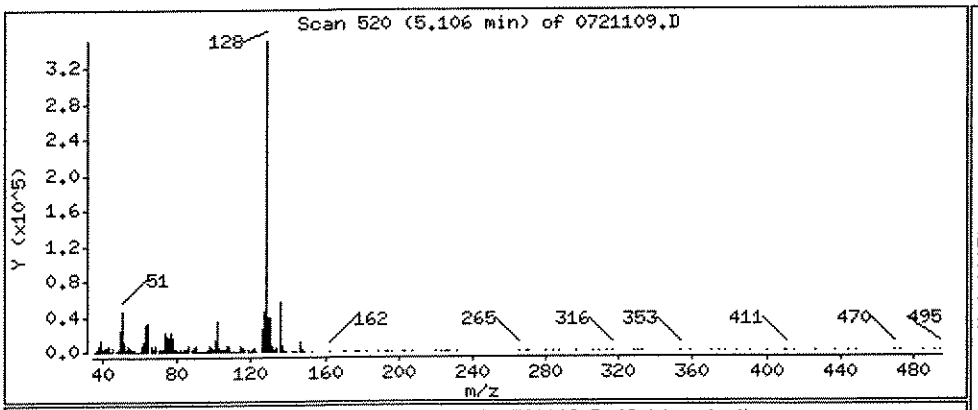
Client ID: 51CFM15S060725 Instrument: bna1.i

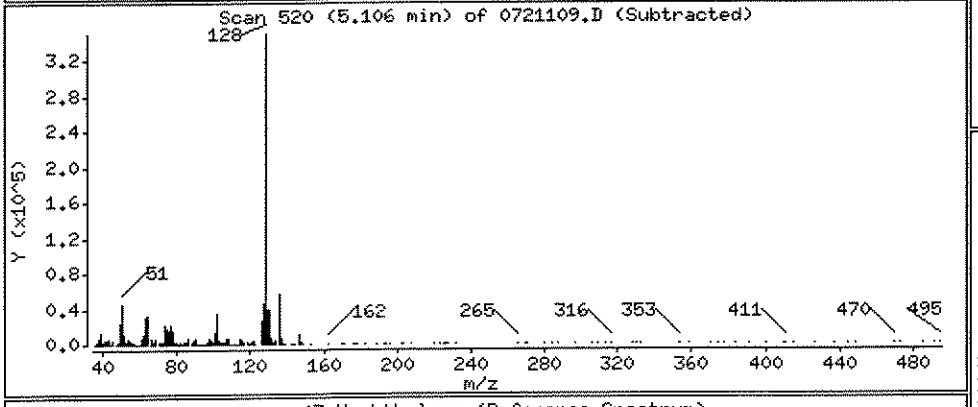
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

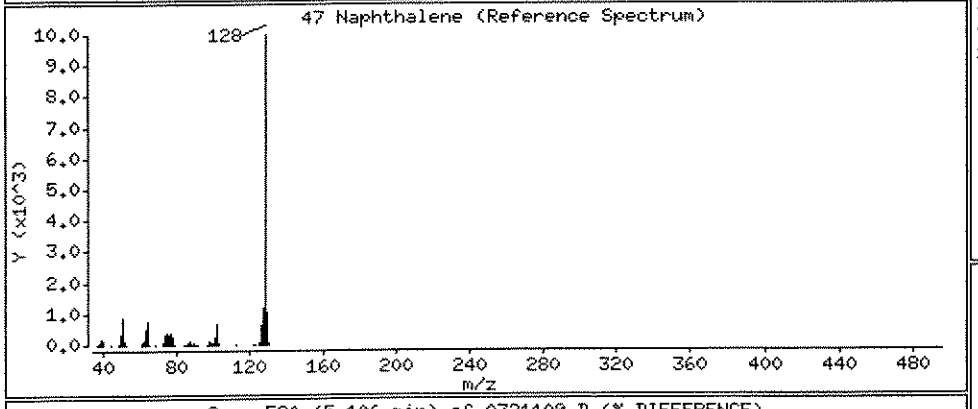
Volume Injected (uL): 0.5 Operator: SDB

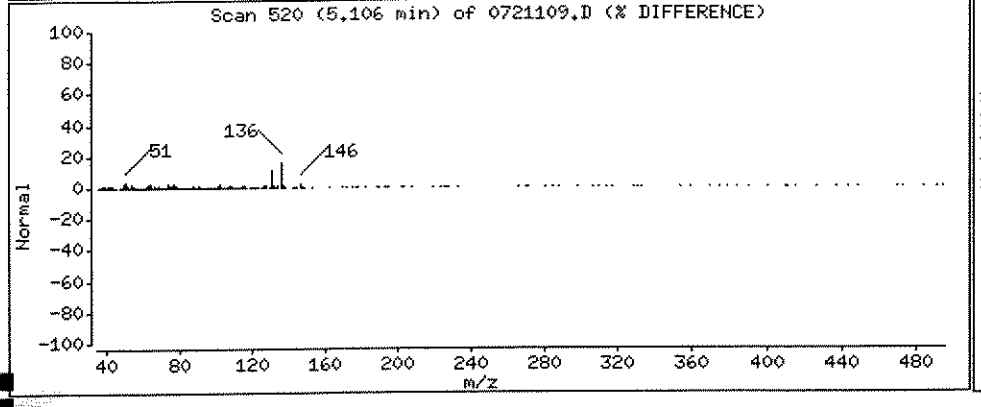
Column phase: fused silica Column diameter: 0.25

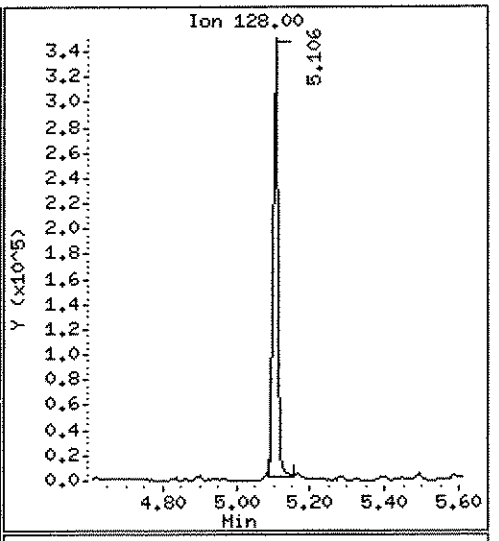
47 Naphthalene Concentration: 224.9 UG/KG

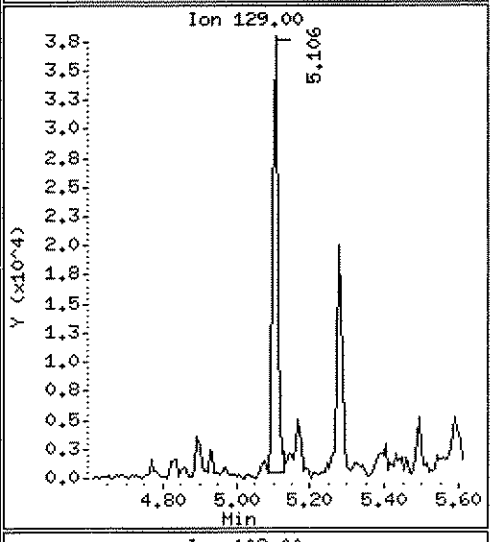


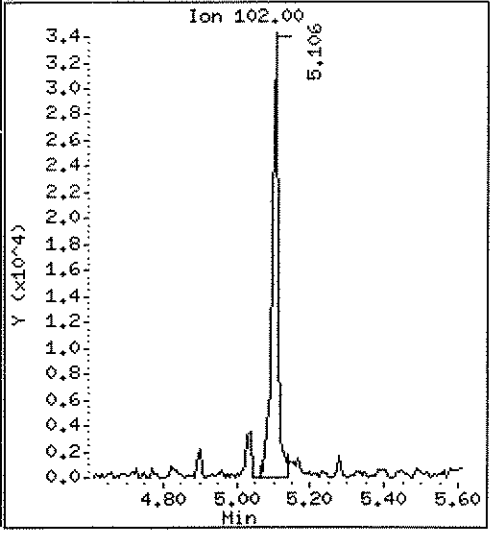












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

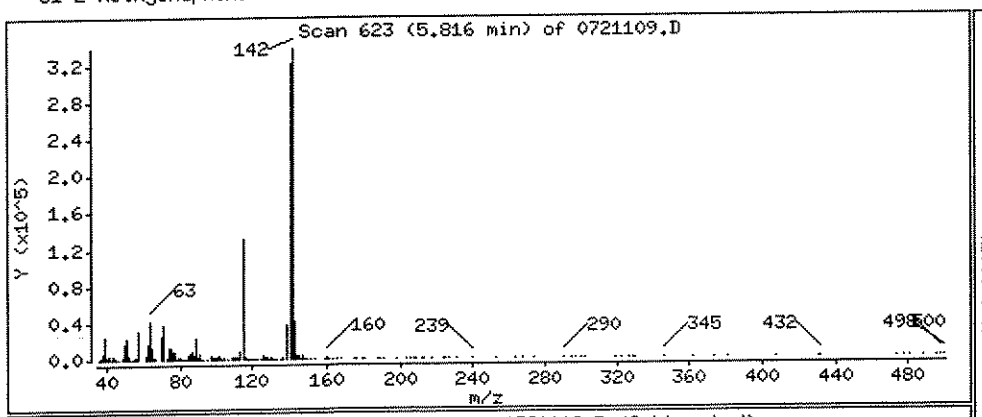
Operator: SDB

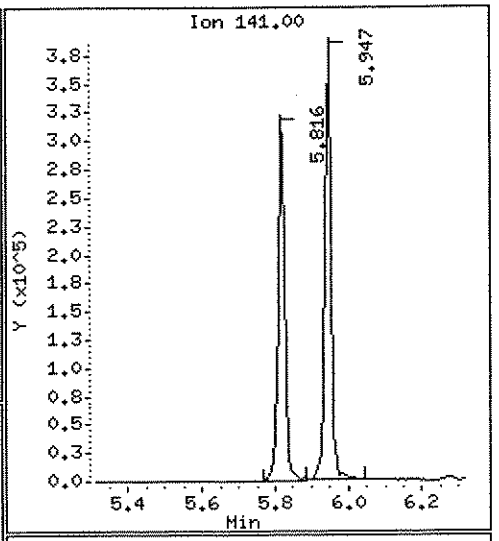
Column phase: fused silica

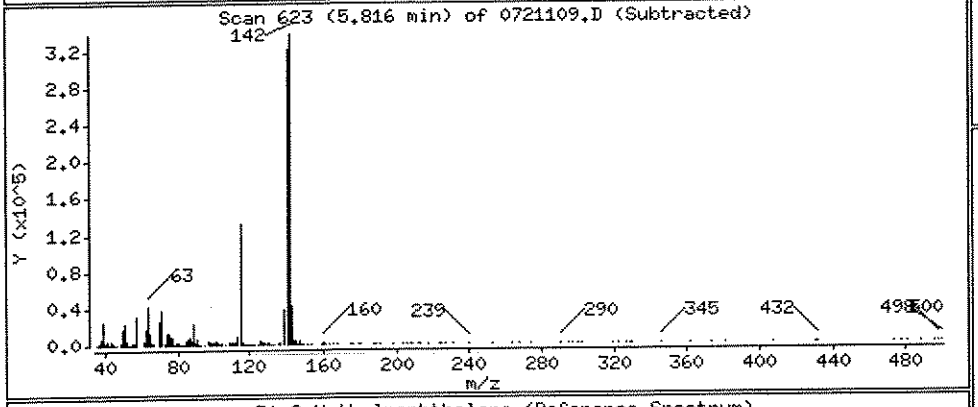
Column diameter: 0.25

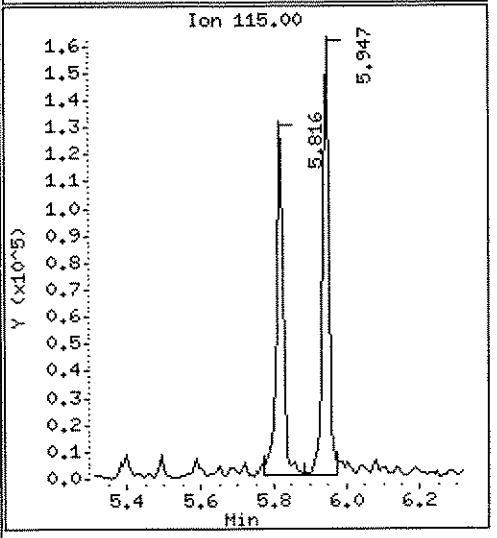
51 2-Methylnaphthalene

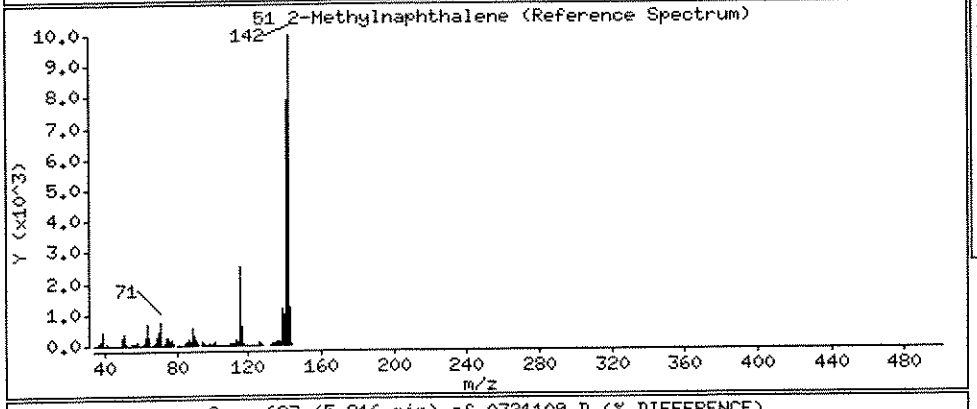
Concentration: 563.7 UG/KG

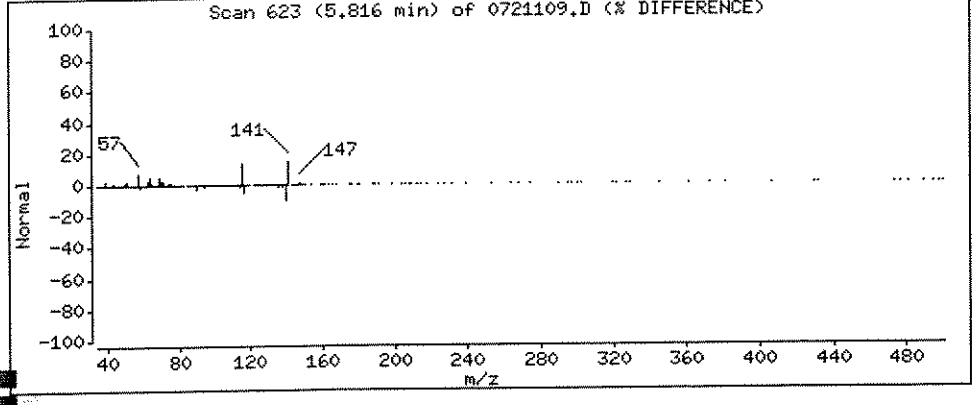












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

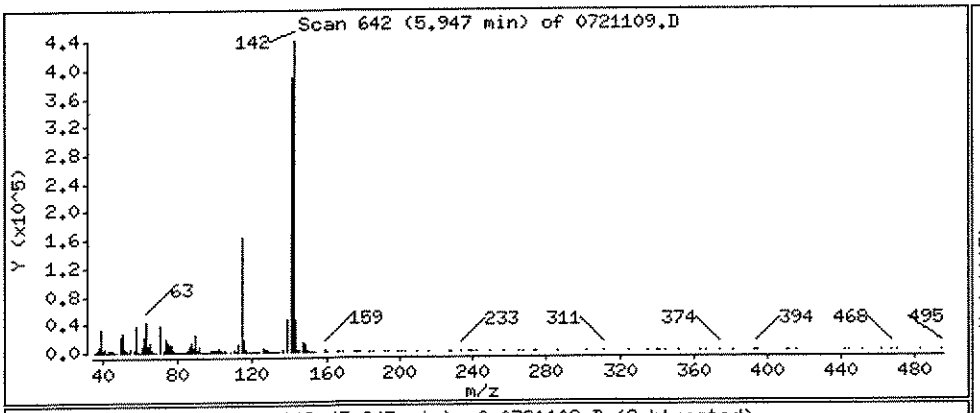
Client ID: 51CFM15S060725 Instrument: bna1.i

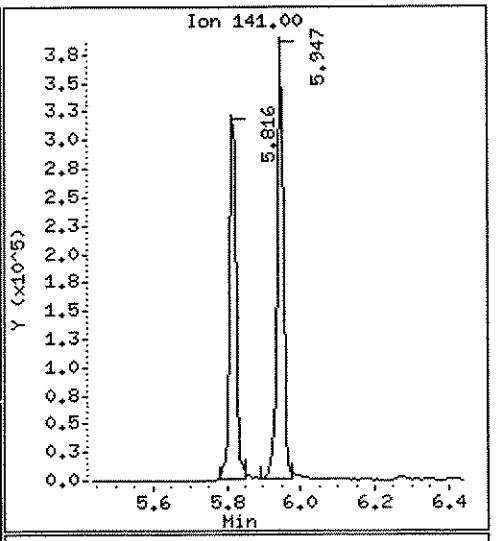
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

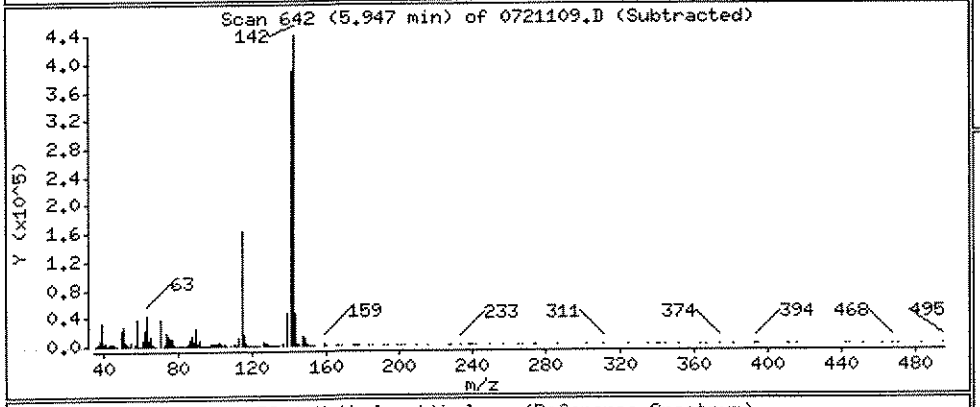
Volume Injected (uL): 0.5 Operator: SDB

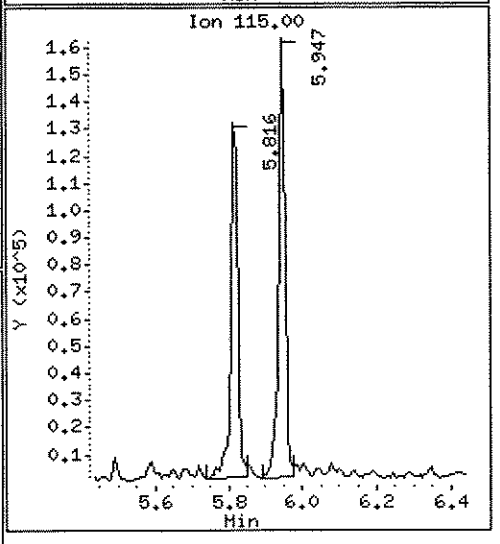
Column phase: fused silica Column diameter: 0.25

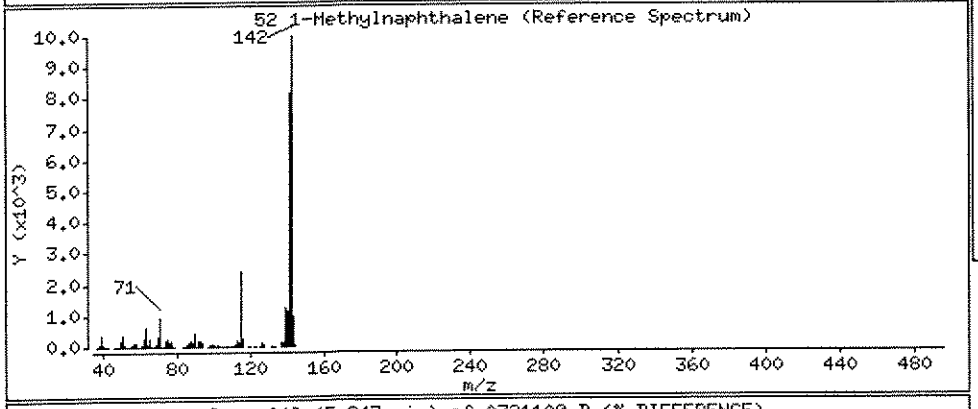
52 1-Methylnaphthalene Concentration: 609.9 UG/KG

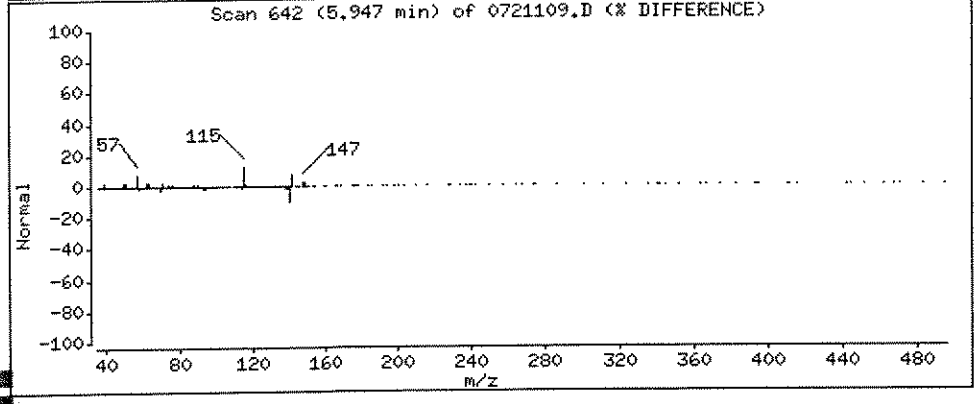












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

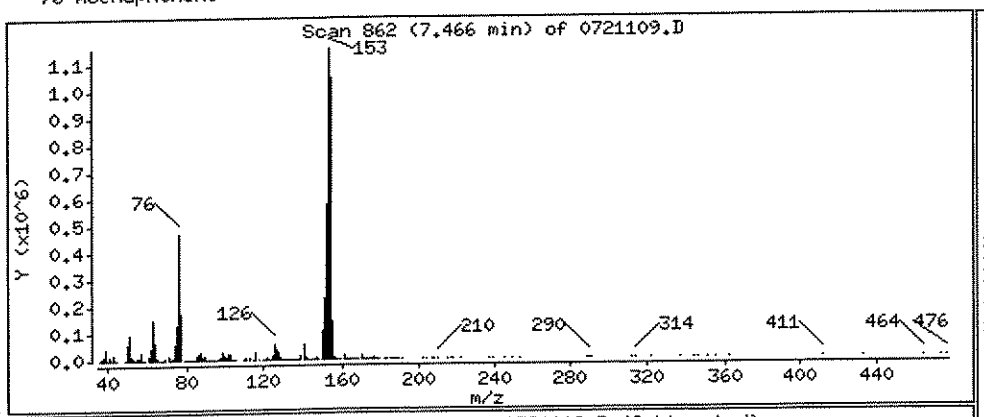
Operator: SDB

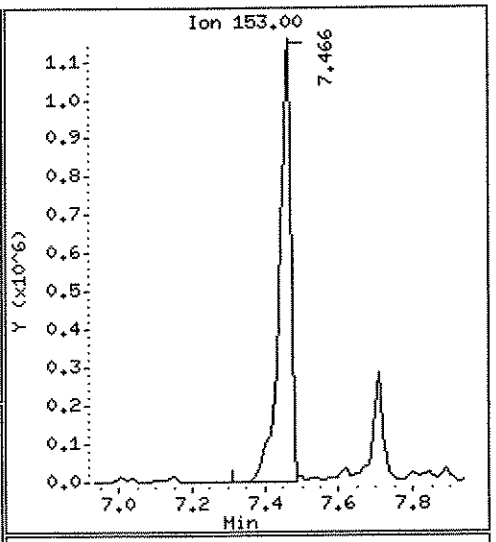
Column phase: fused silica

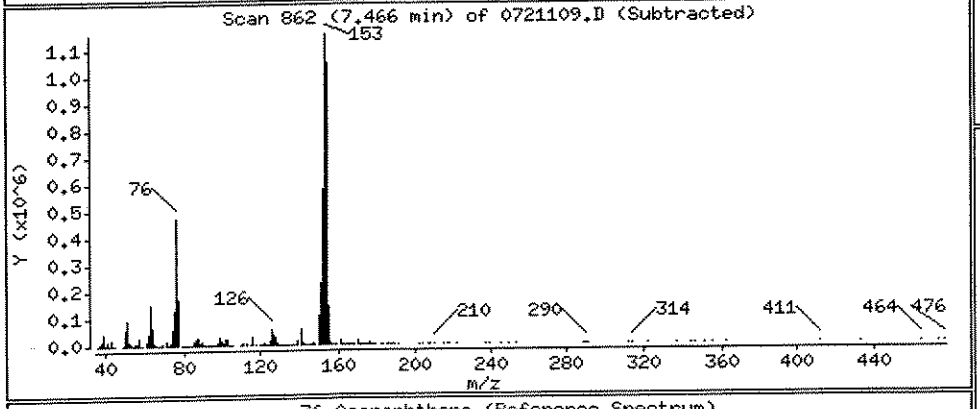
Column diameter: 0.25

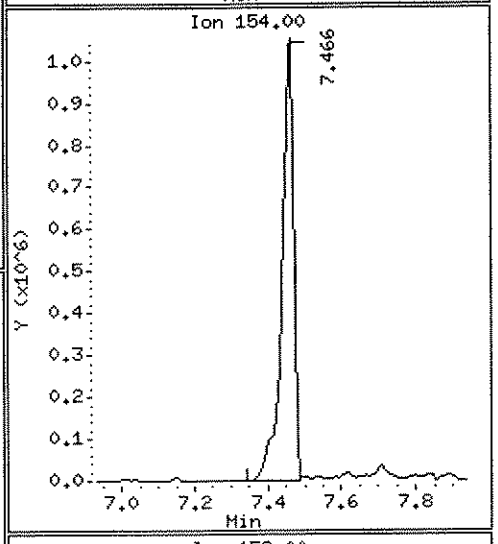
76 Acenaphthene

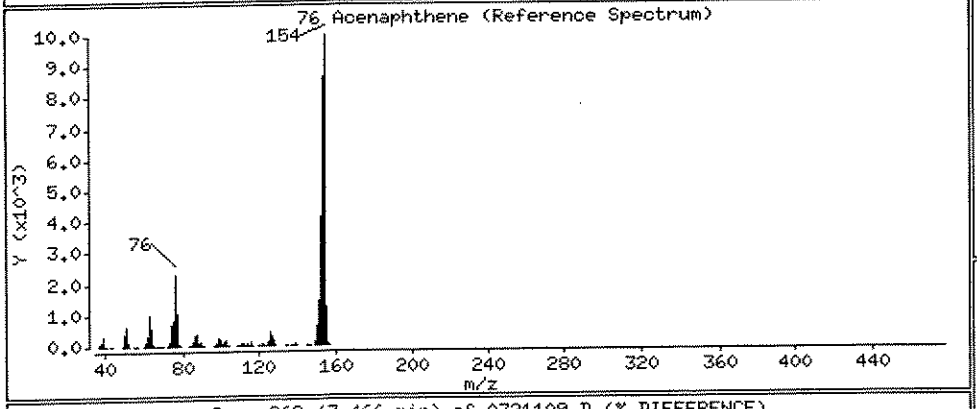
Concentration: 3899 UG/KG

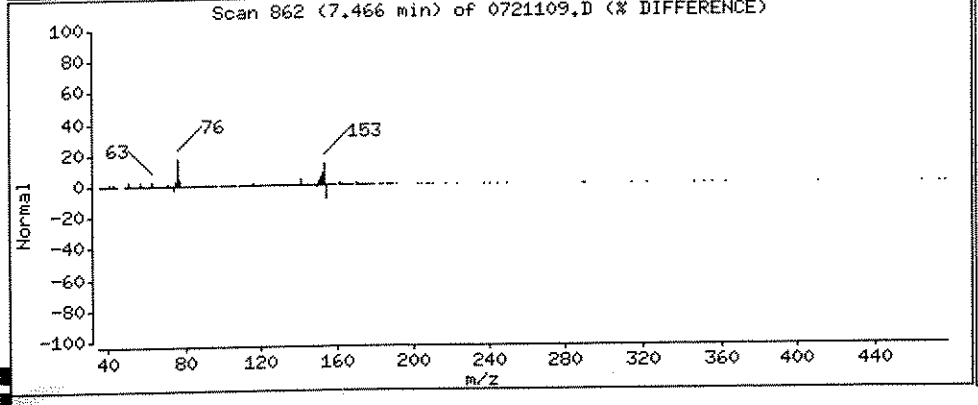


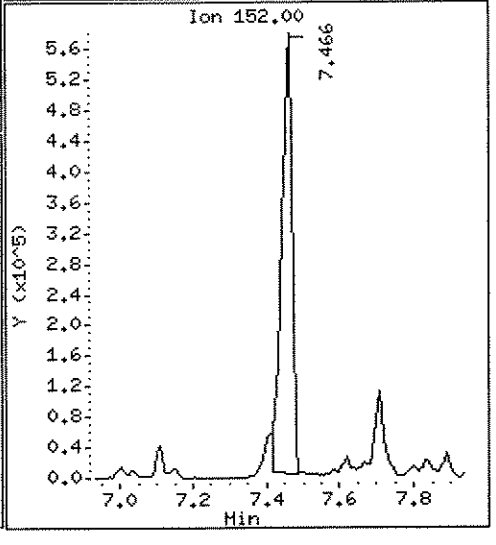












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

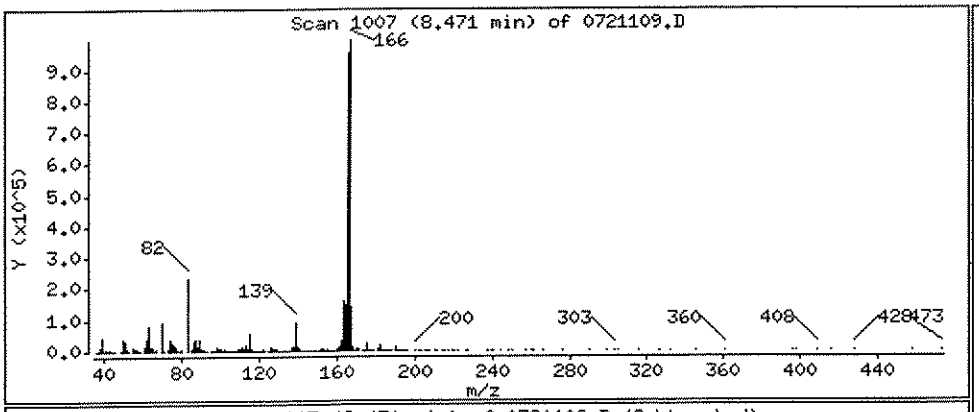
Client ID: 51CFM15S060725 Instrument: bna1.i

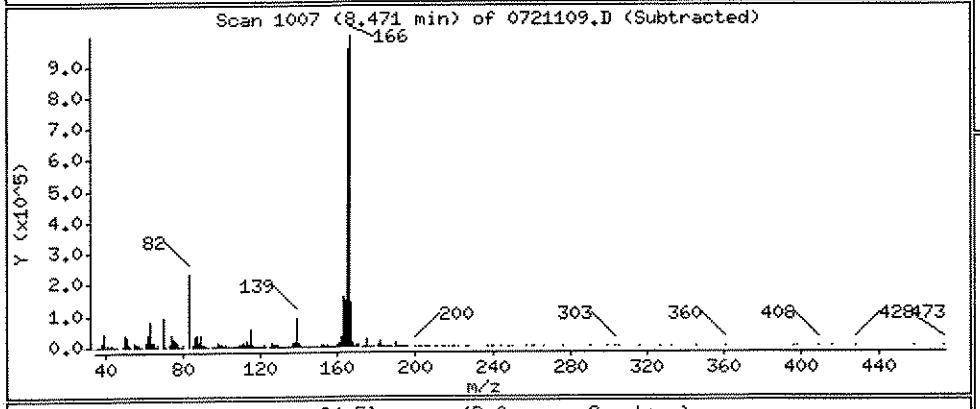
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

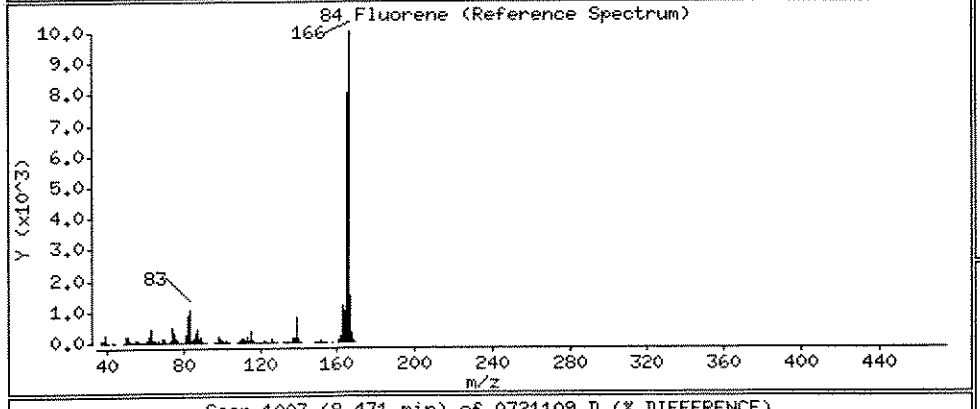
Volume Injected (uL): 0.5 Operator: SDB

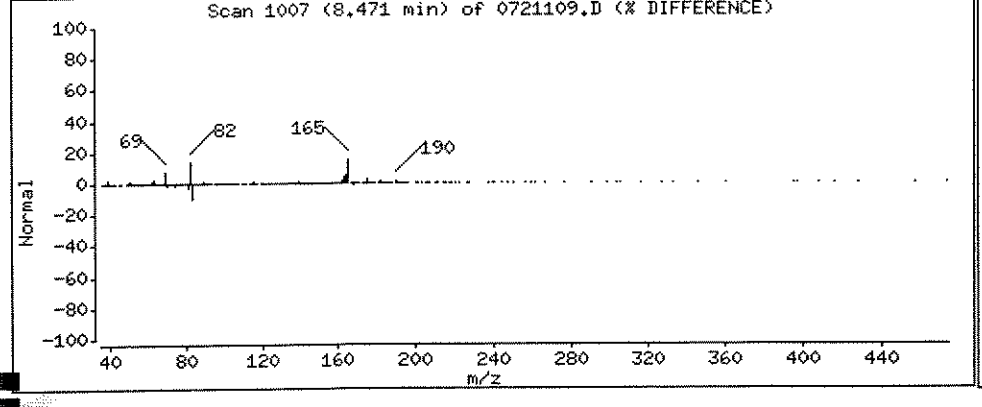
Column phase: fused silica Column diameter: 0.25

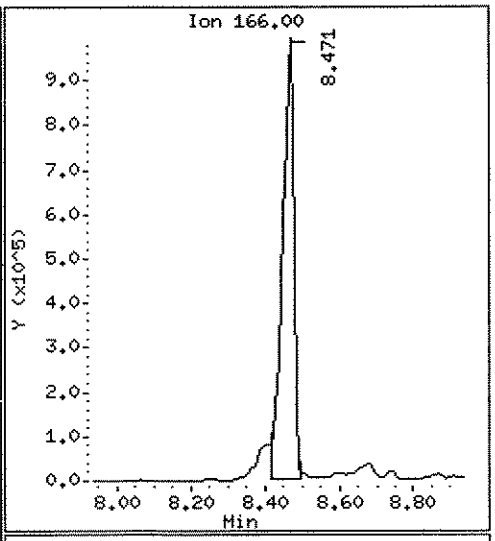
84 Fluorene Concentration: 3100 UG/KG

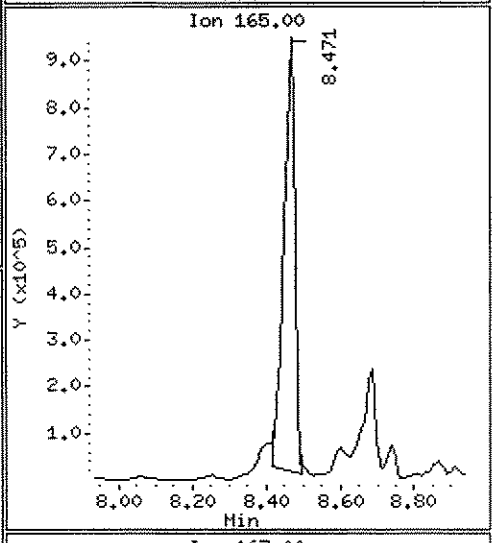


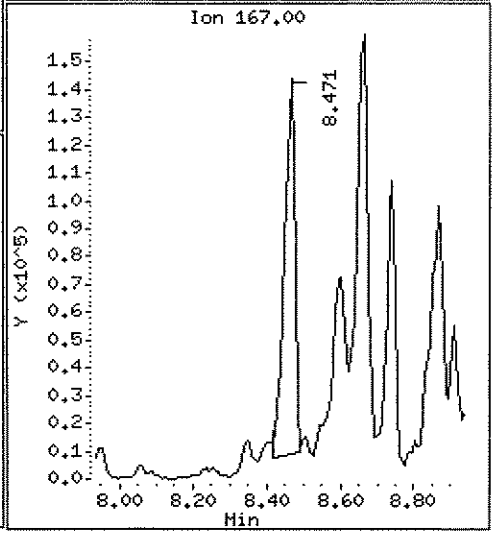












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

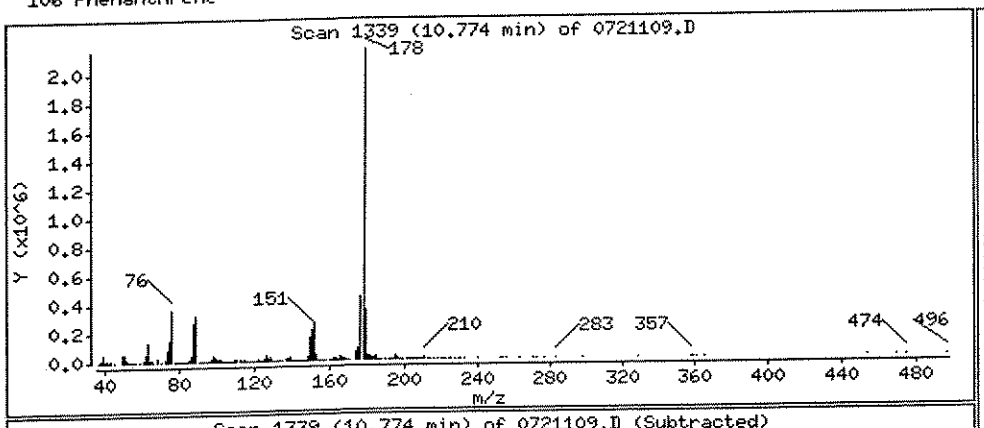
Operator: SDB

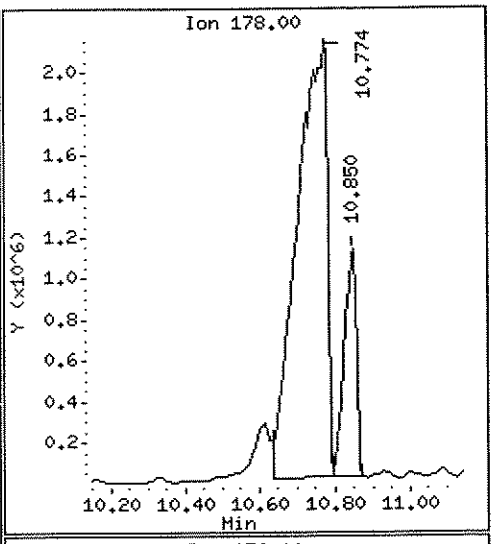
Column phase: fused silica

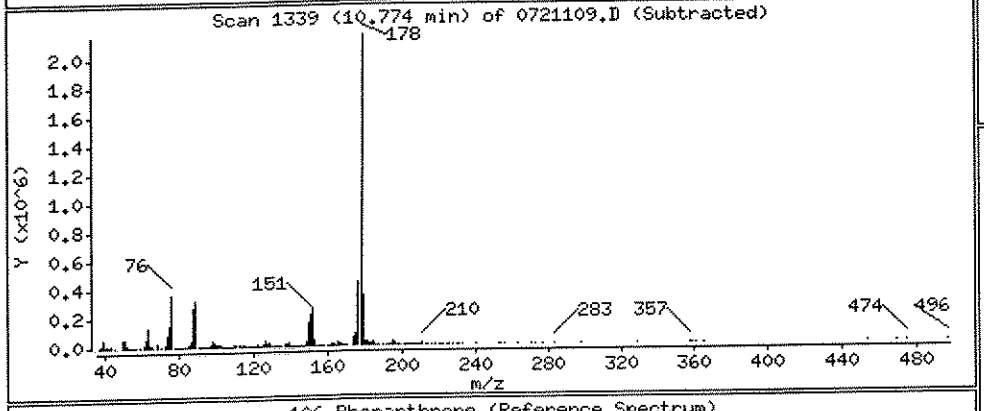
Column diameter: 0.25

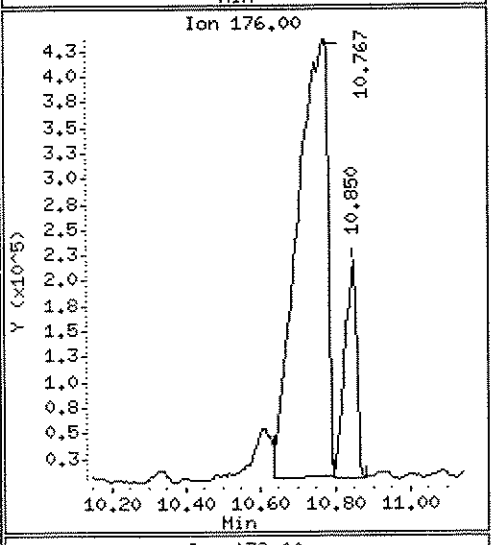
106 Phenanthrene

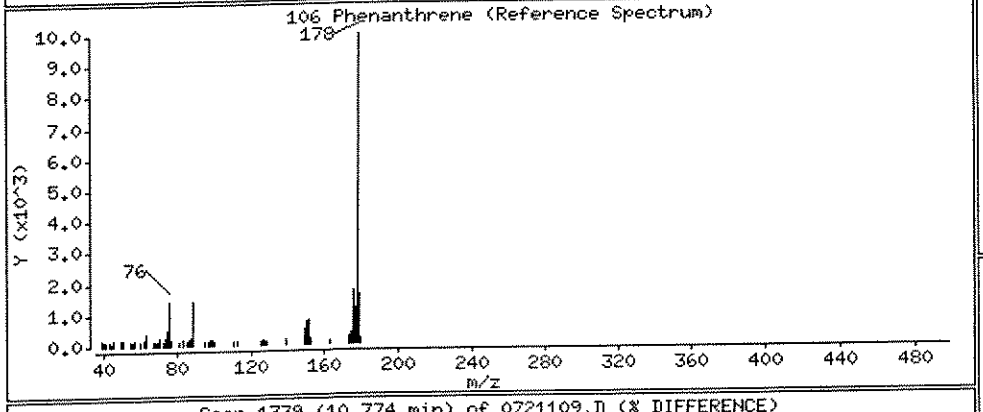
Concentration: 14440 UG/KG

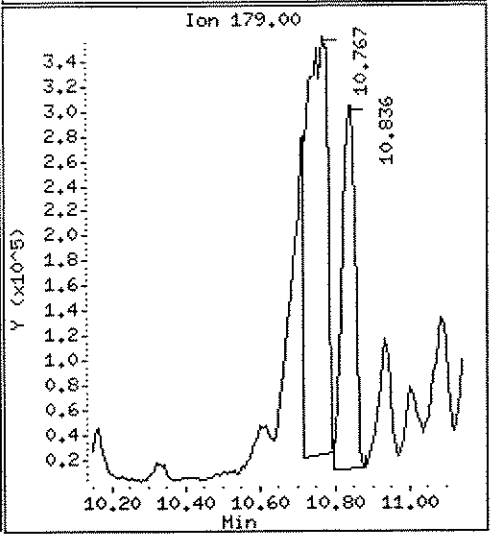


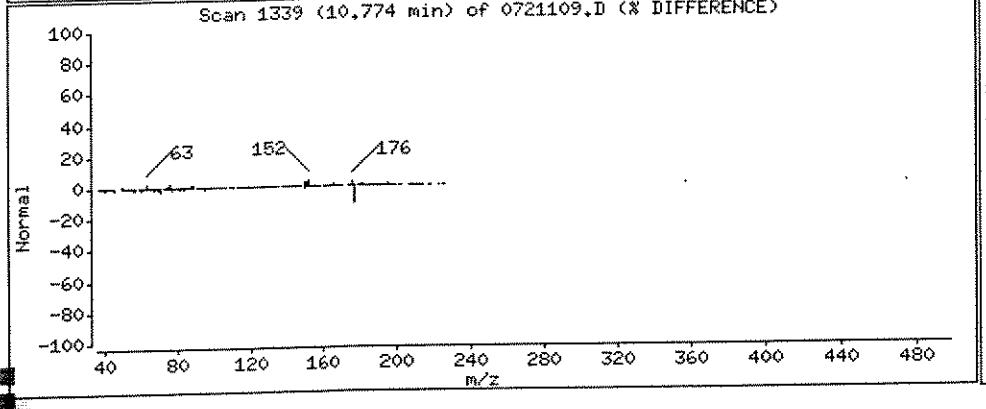












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

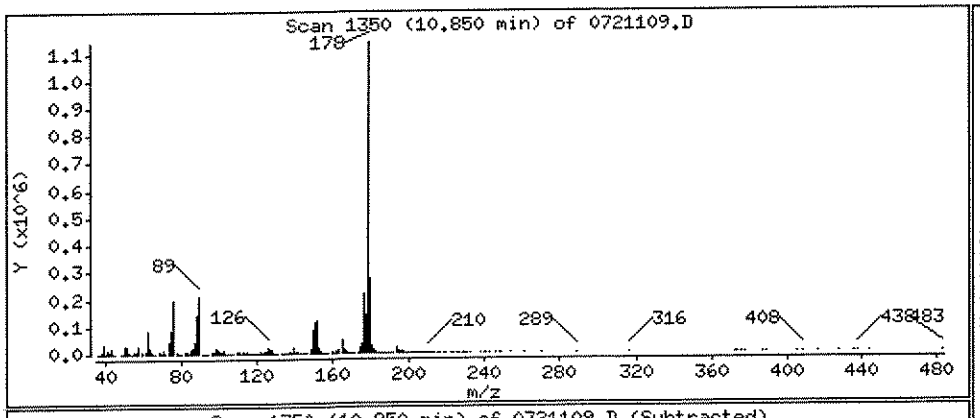
Operator: SDB

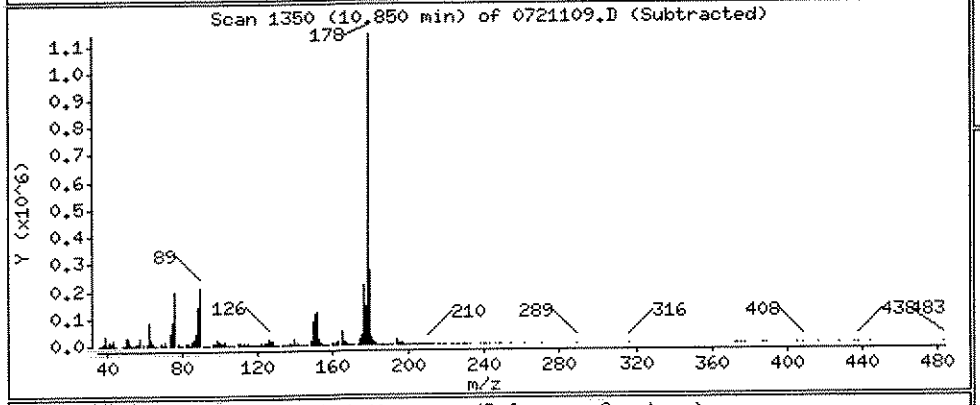
Column phase: fused silica

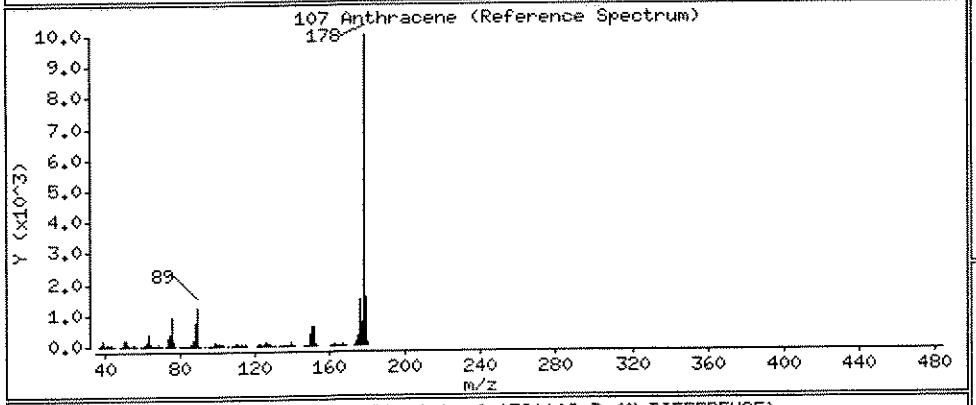
Column diameter: 0.25

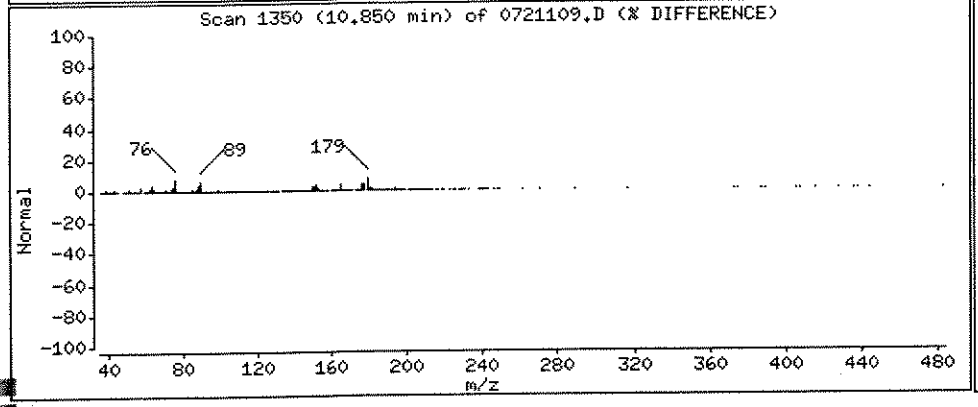
107 Anthracene

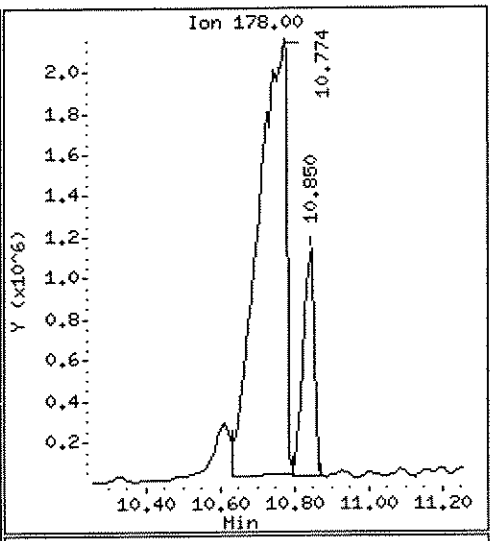
Concentration: 3018 UG/KG

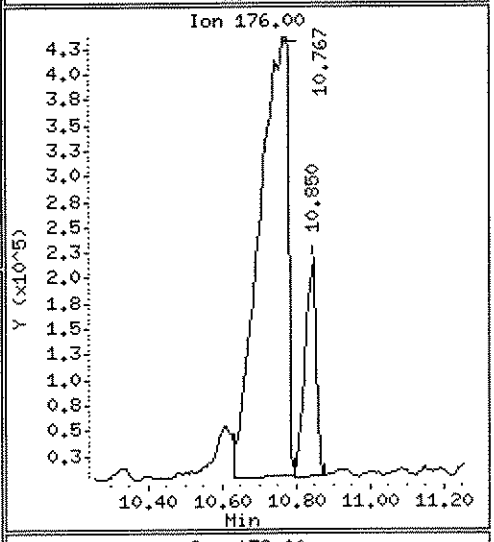


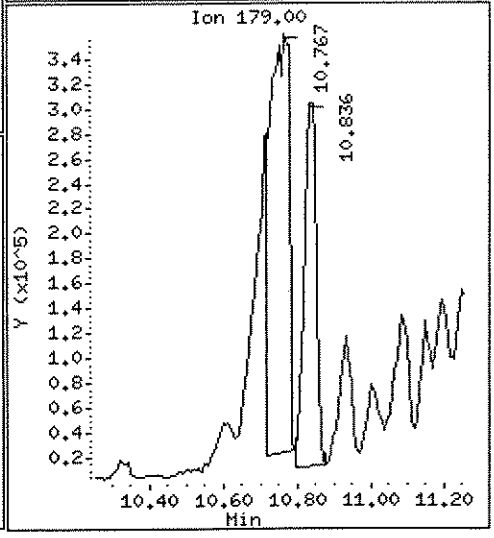












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

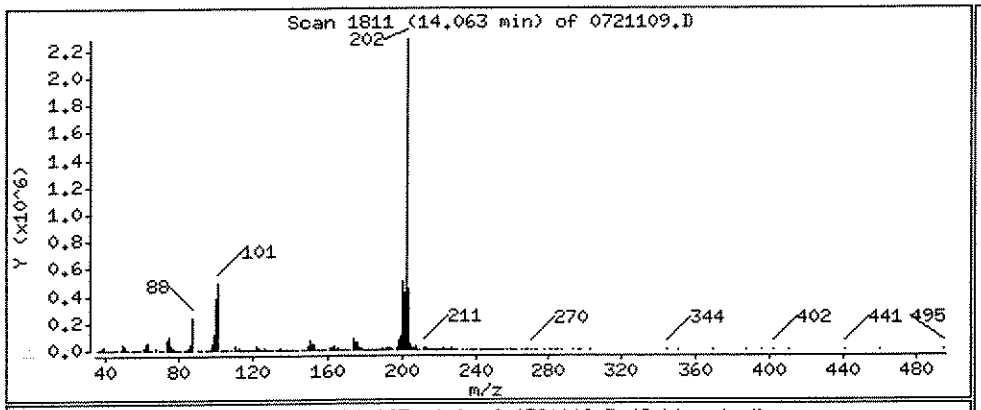
Client ID: 51CFM15S060725 Instrument: bna1.i

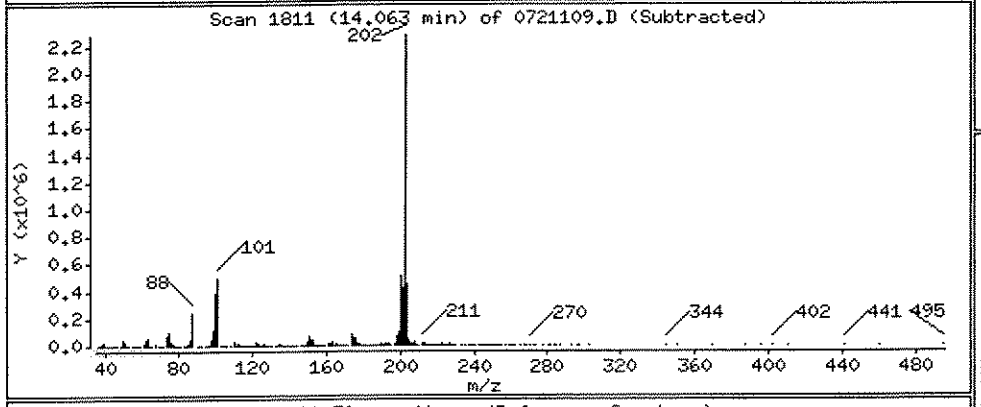
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

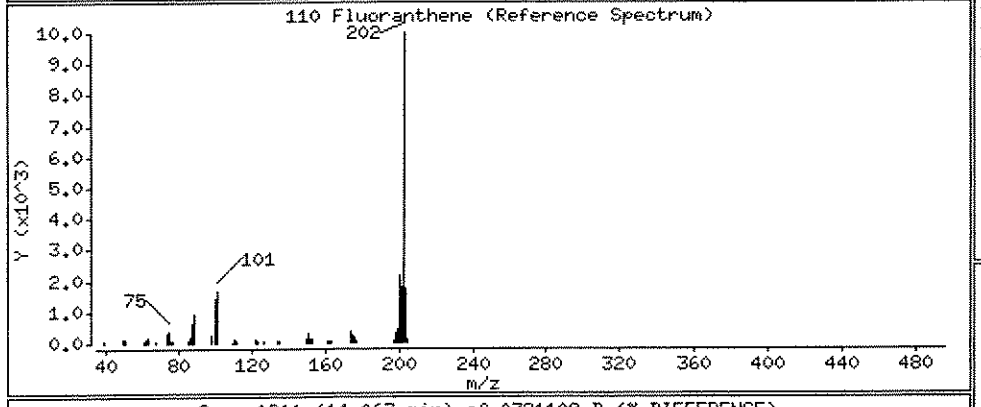
Volume Injected (uL): 0.5 Operator: SDB

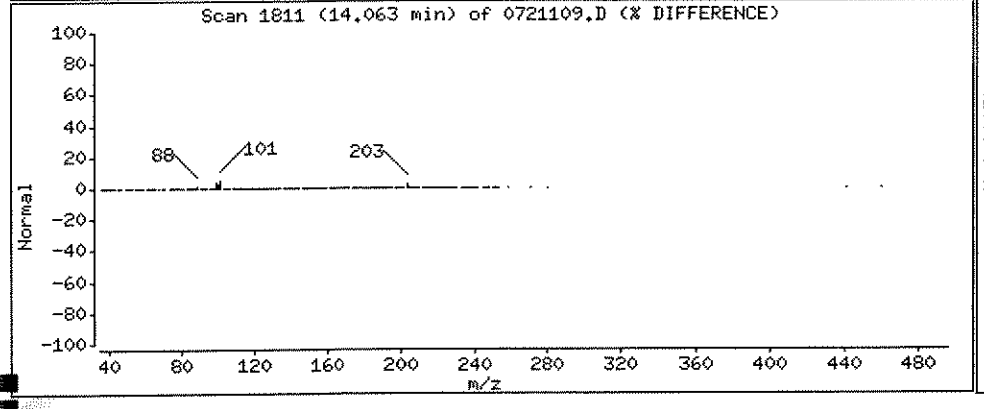
Column phase: fused silica Column diameter: 0.25

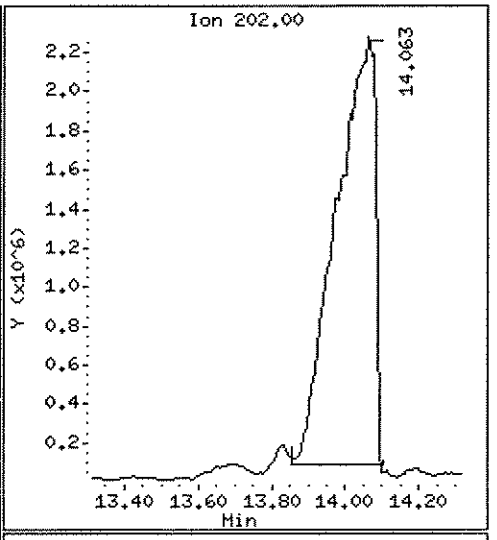
110 Fluoranthene Concentration: 20450 UG/KG

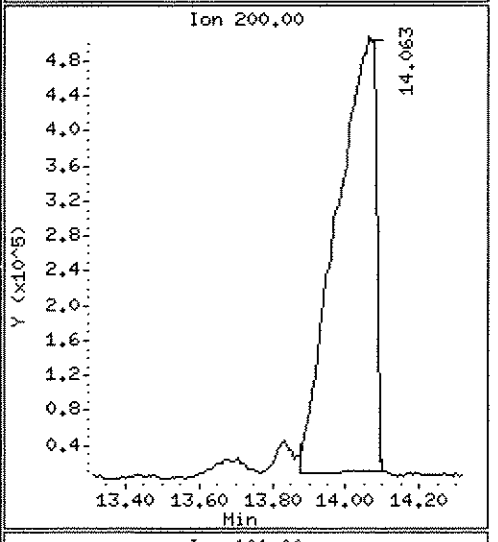


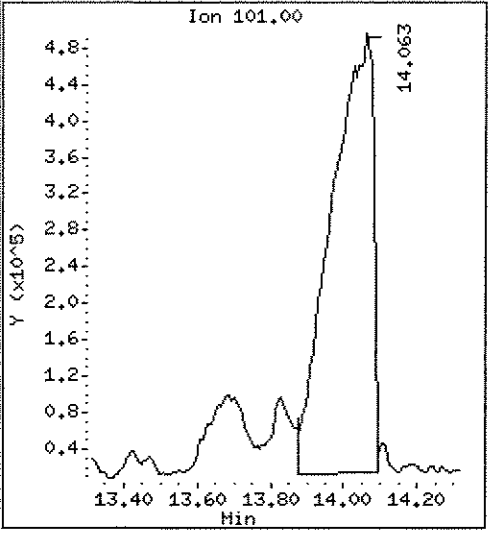












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

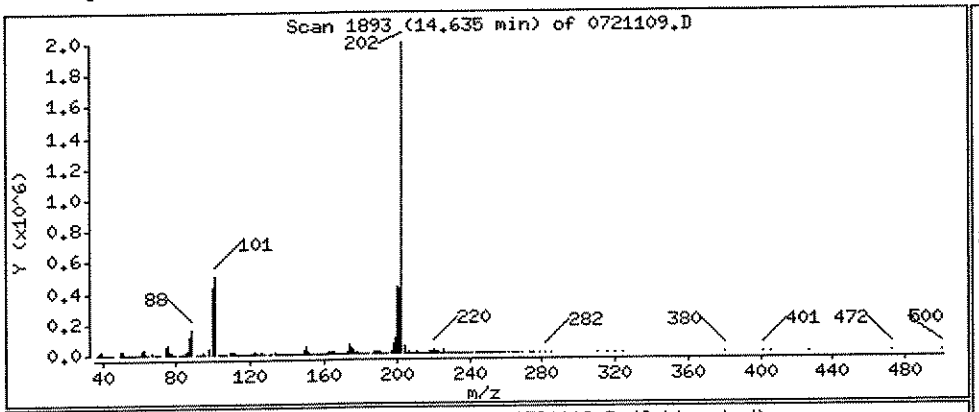
Operator: SDB

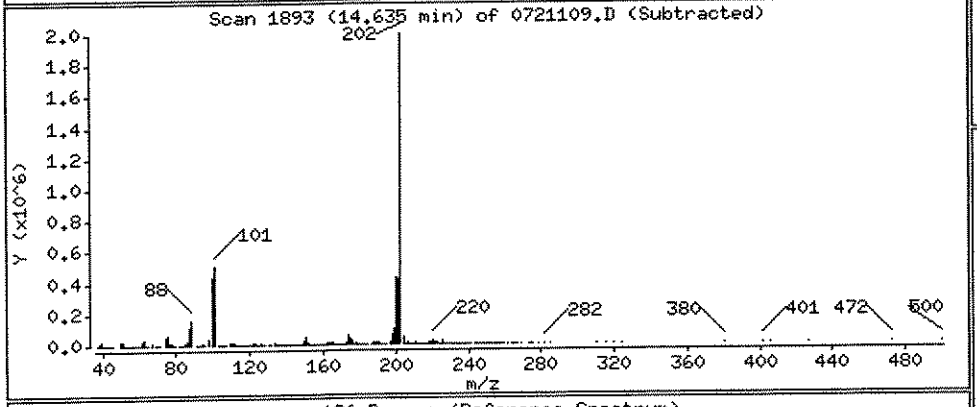
Column phase: fused silica

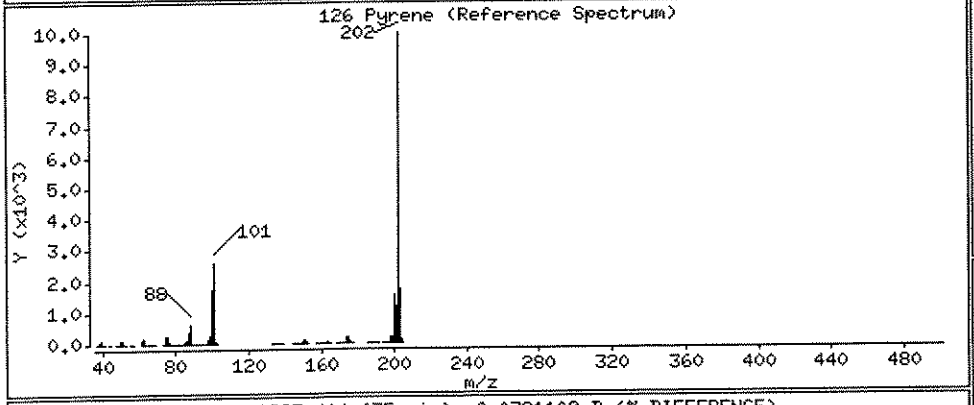
Column diameter: 0.25

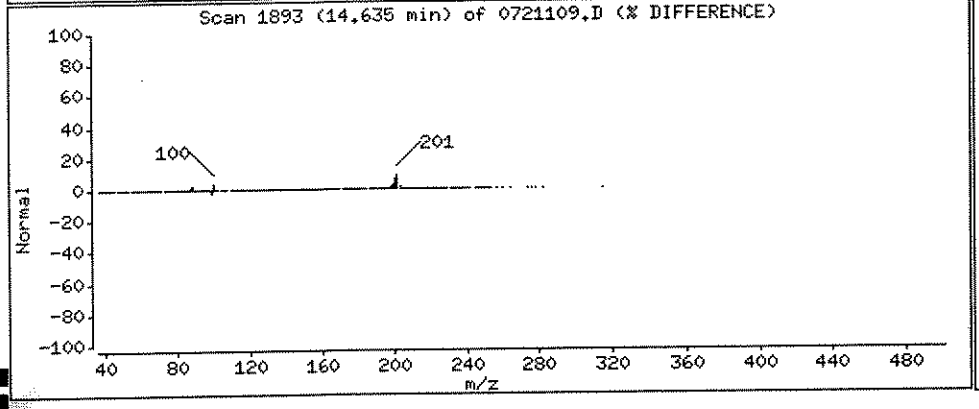
126 Pyrene

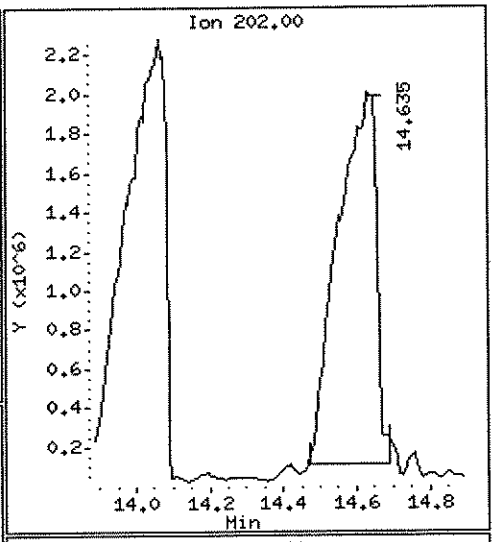
Concentration: 23740 UG/KG

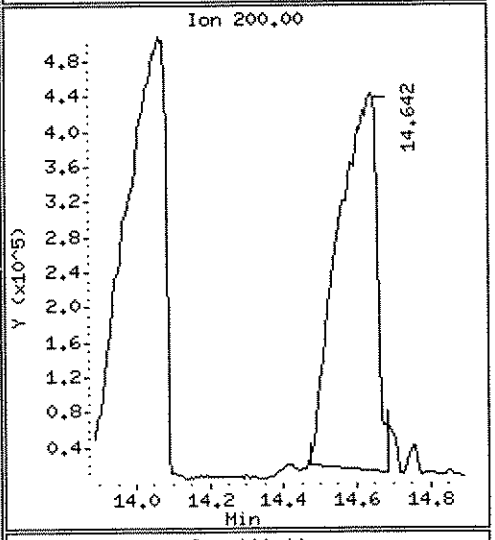


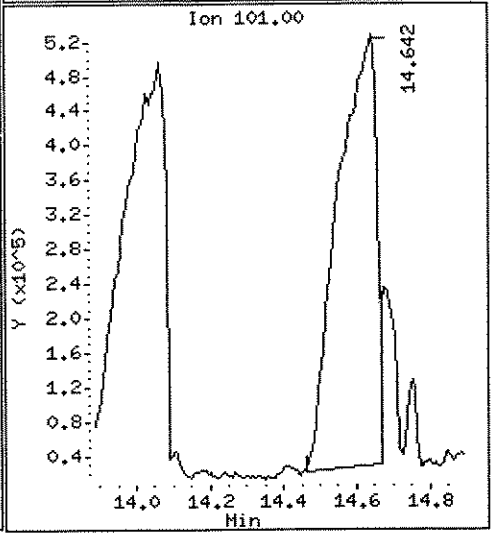












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFH15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

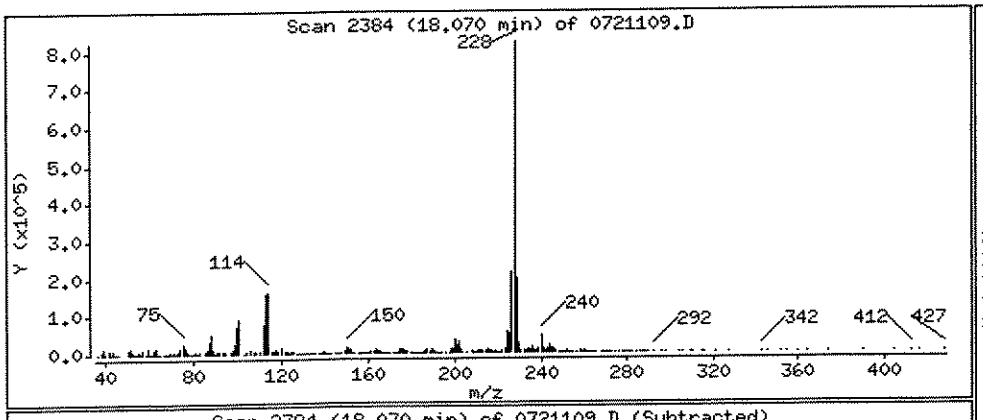
Operator: SDB

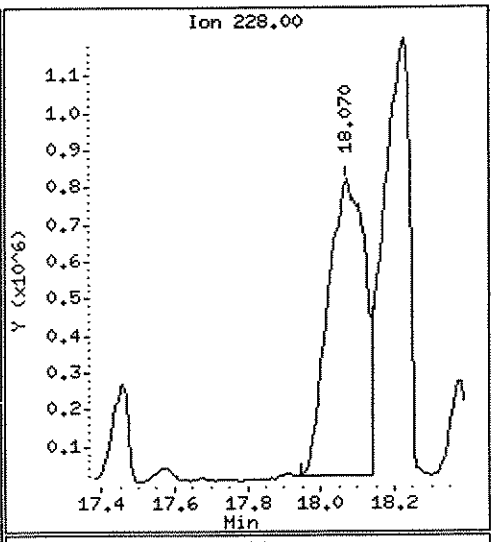
Column phase: fused silica

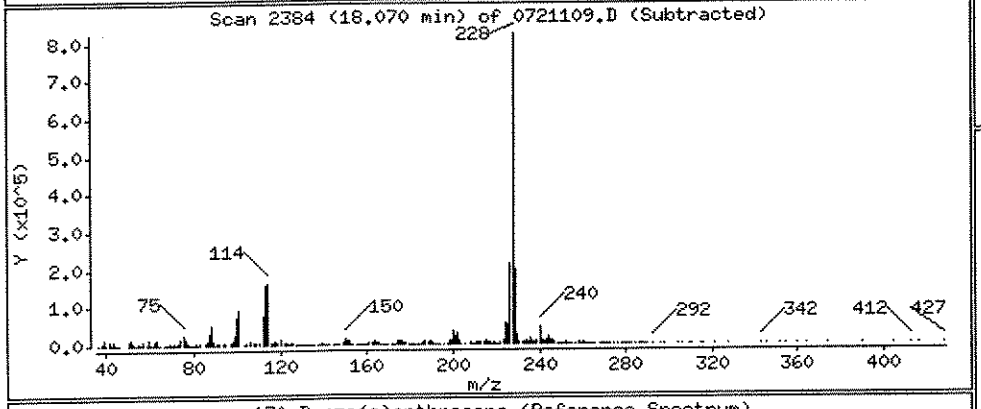
Column diameter: 0.25

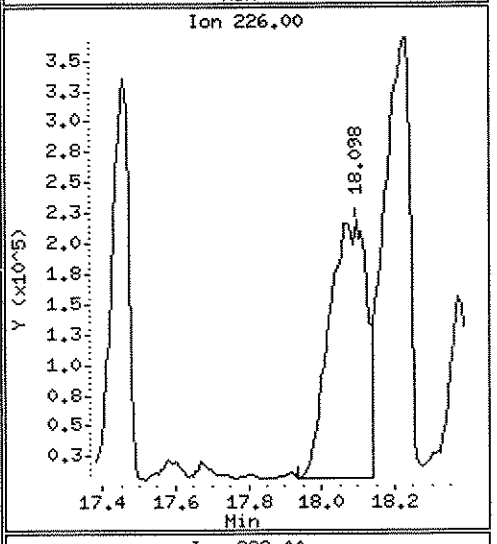
130 Benzo(a)anthracene

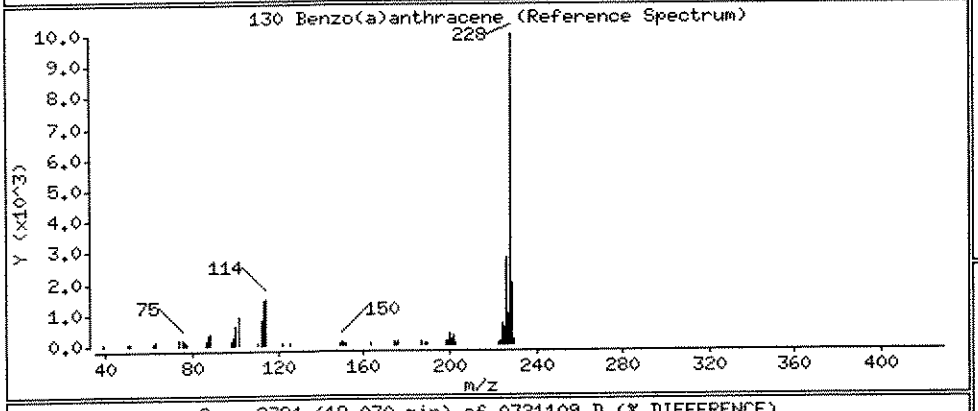
Concentration: 11960 UG/KG

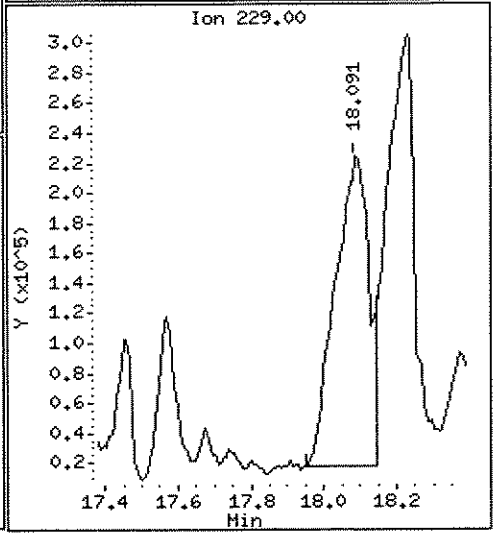


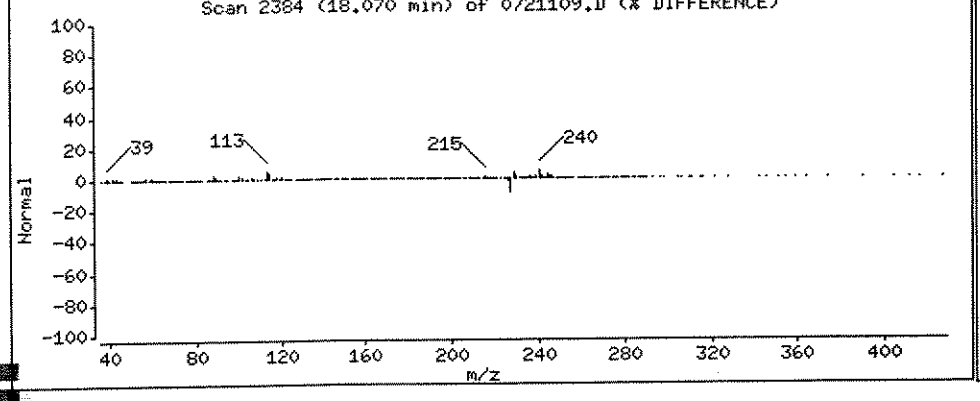












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

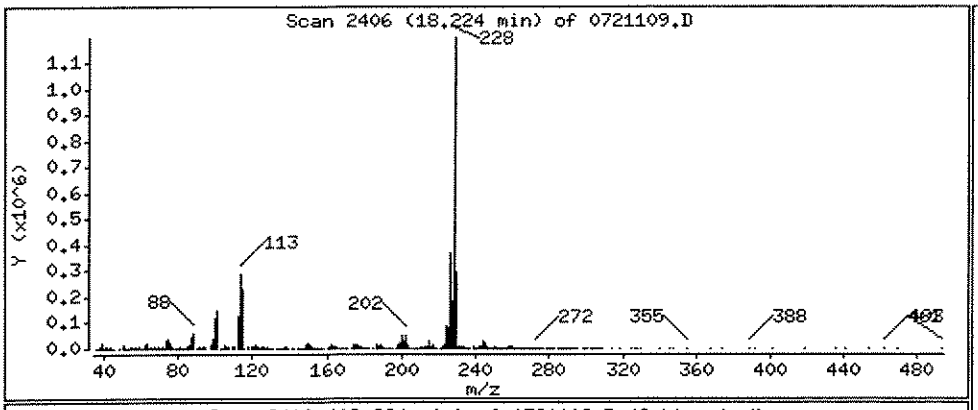
Client ID: 51CFM15S060725 Instrument: bna1.i

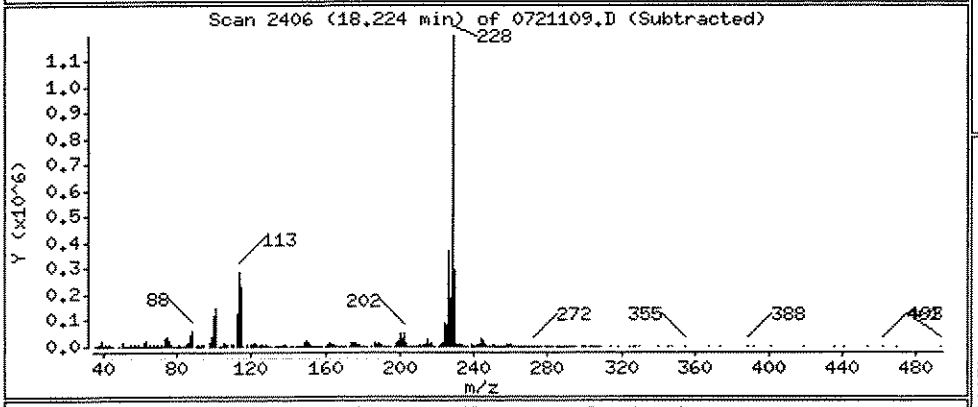
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

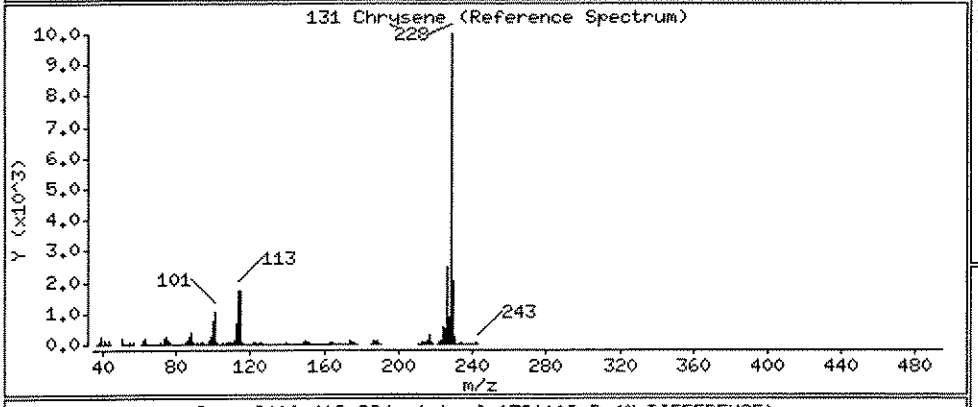
Volume Injected (uL): 0.5 Operator: SDB

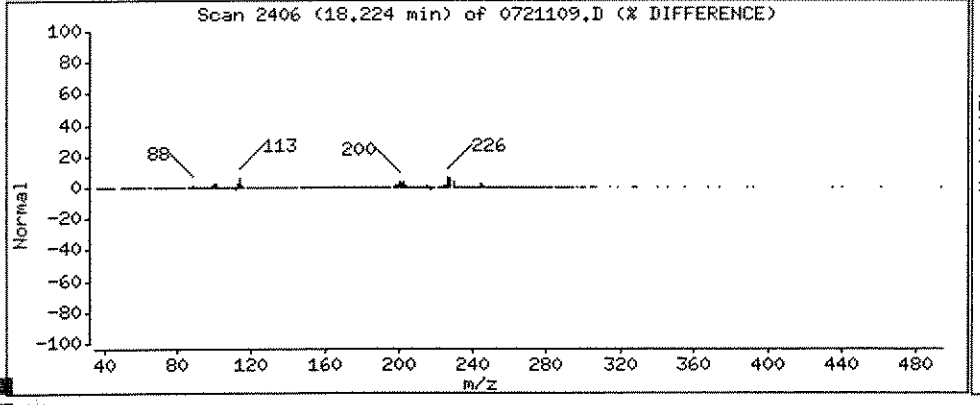
Column phase: fused silica Column diameter: 0.25

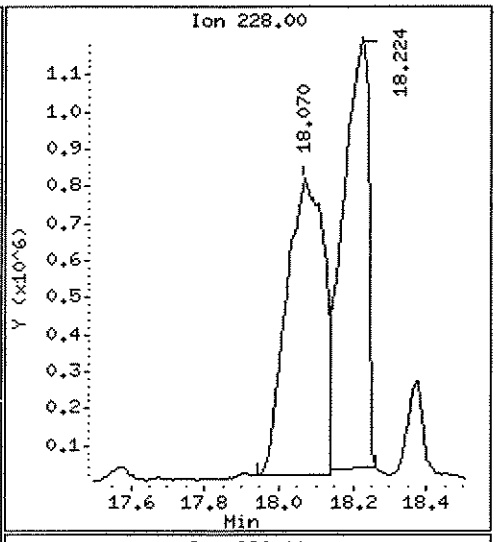
131 Chrysene Concentration: 12810 UG/KG

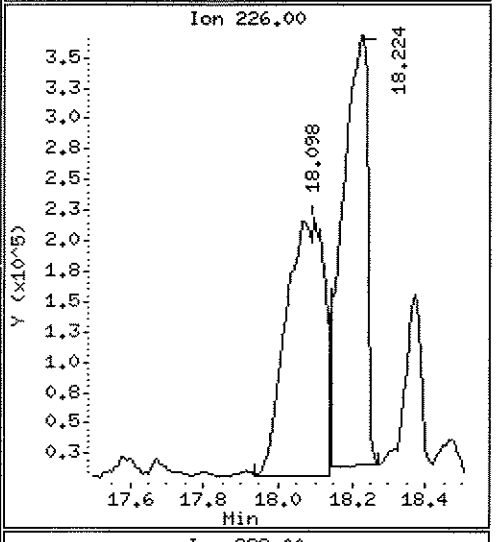


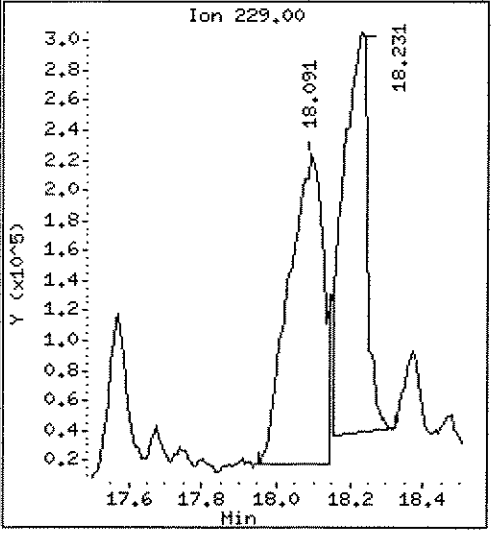












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

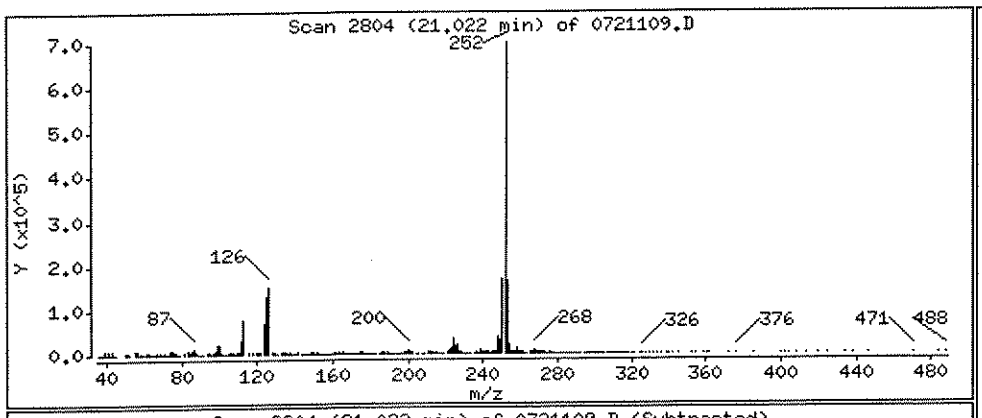
Operator: SDB

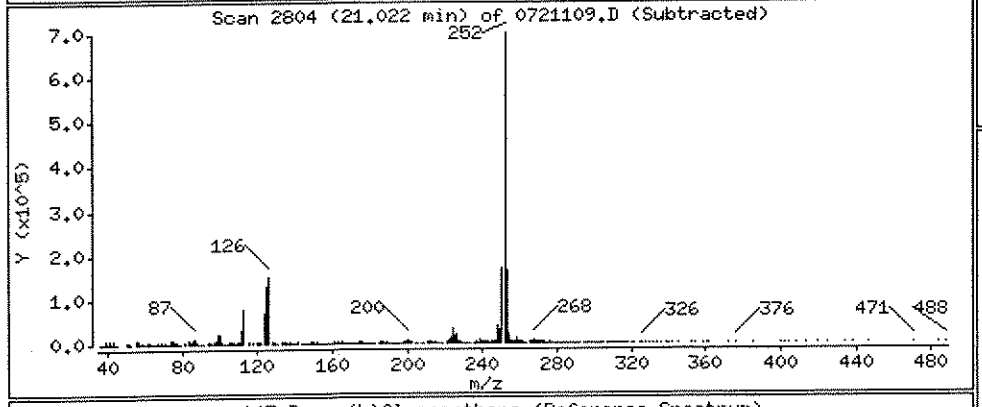
Column phase: fused silica

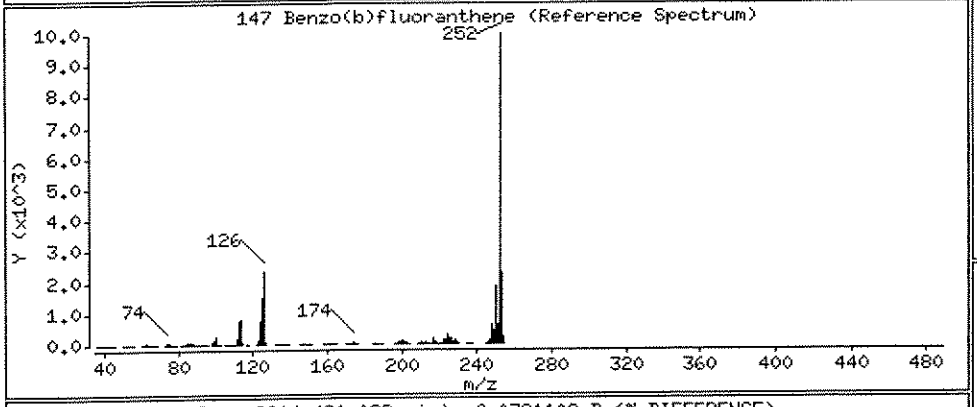
Column diameter: 0.25

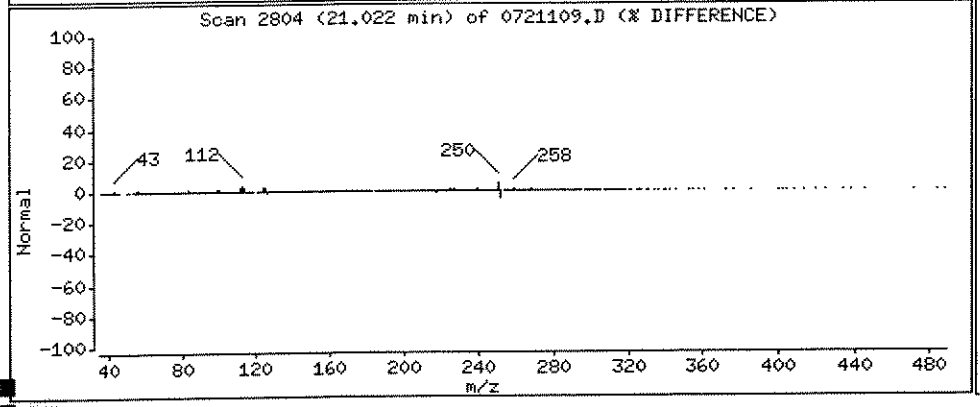
147 Benzo(b)fluoranthene

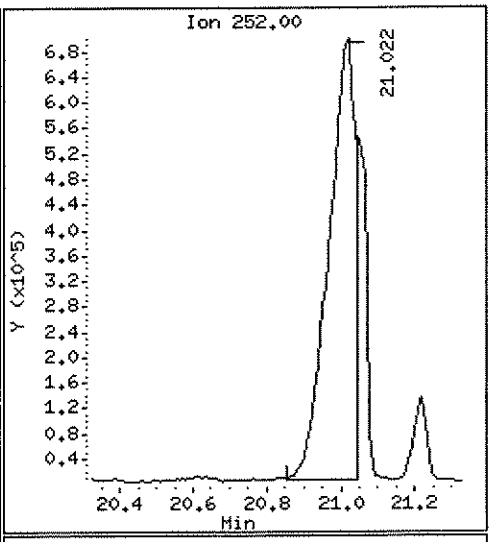
Concentration: 18200 UG/KG

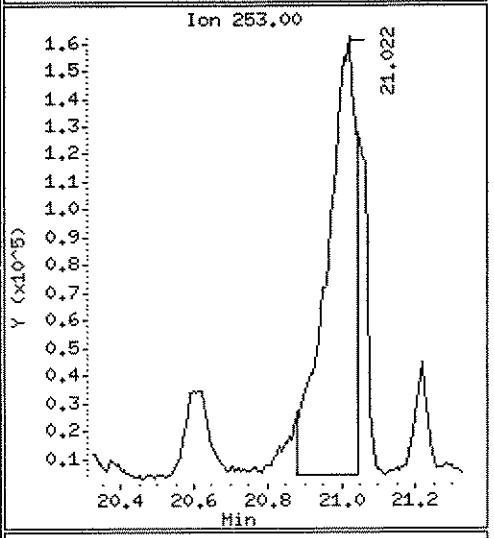


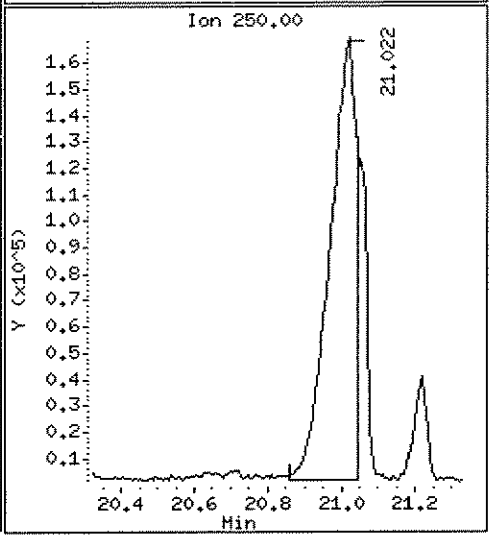












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

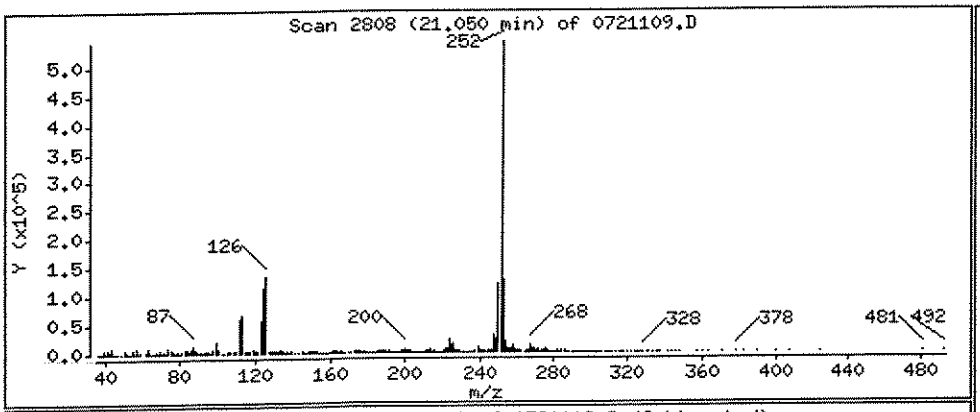
Operator: SDB

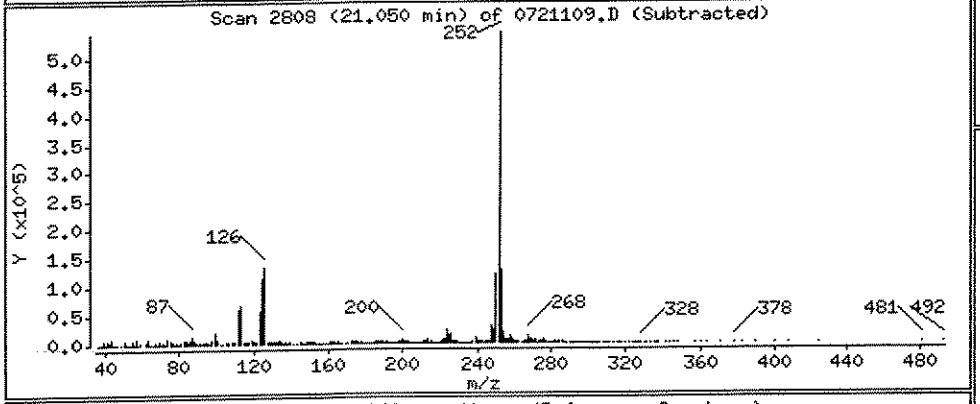
Column phase: fused silica

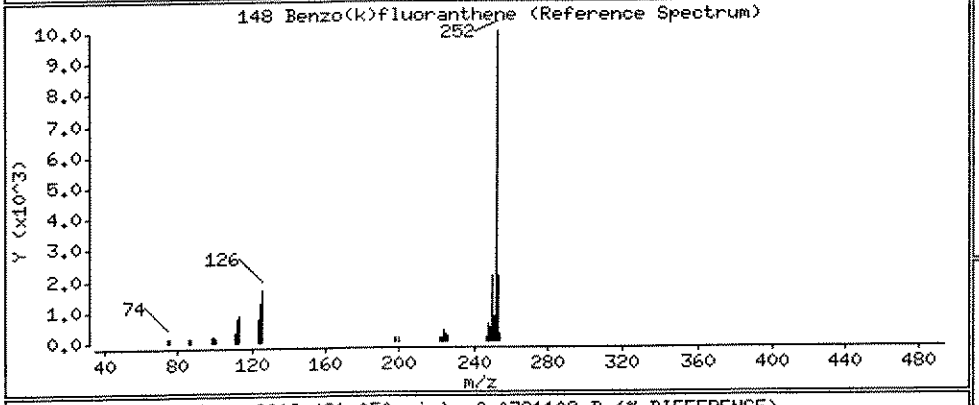
Column diameter: 0.25

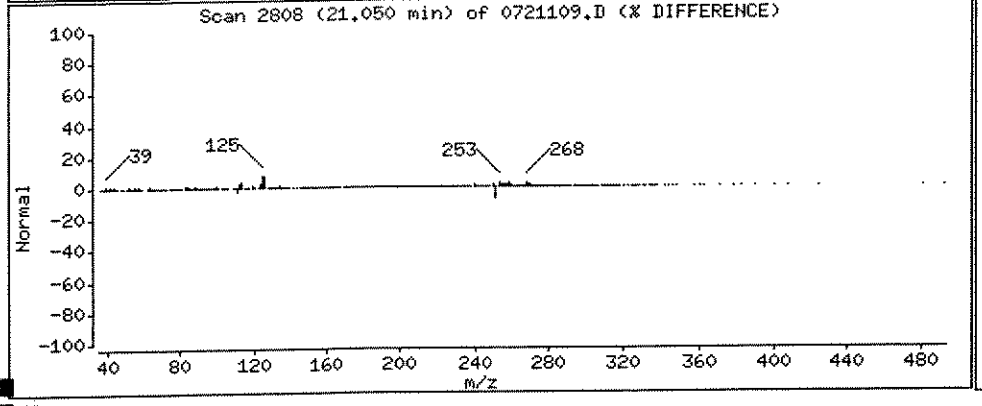
148 Benzo(k)fluoranthene

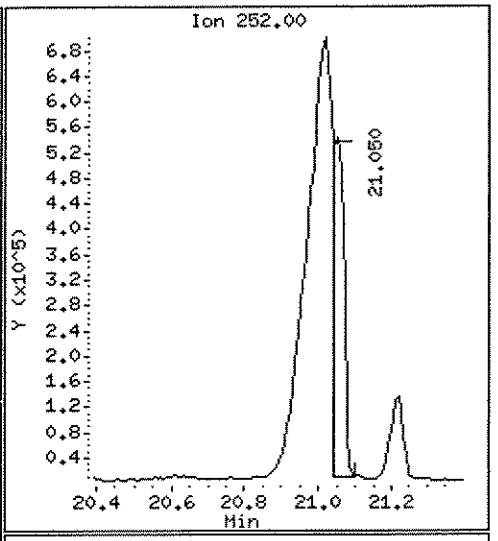
Concentration: 5238 UG/KG

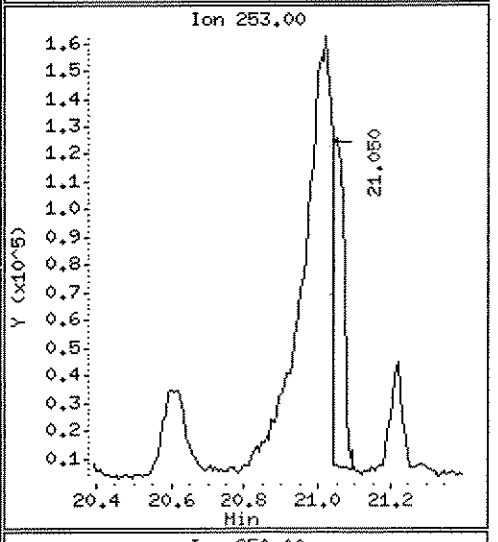


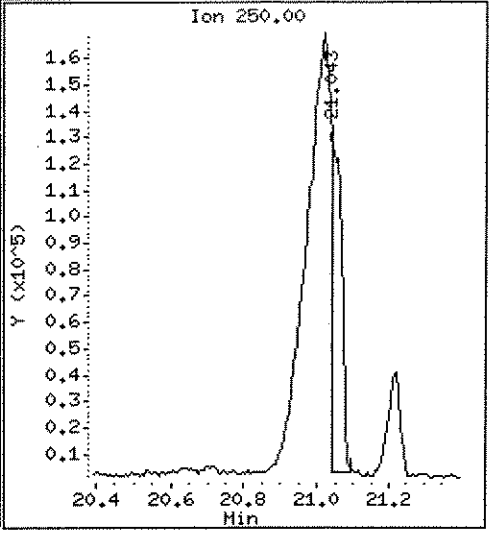












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

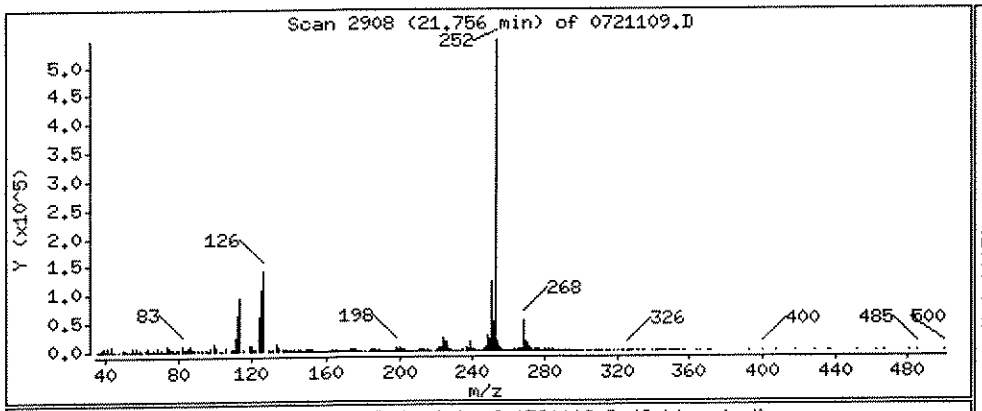
Operator: SDB

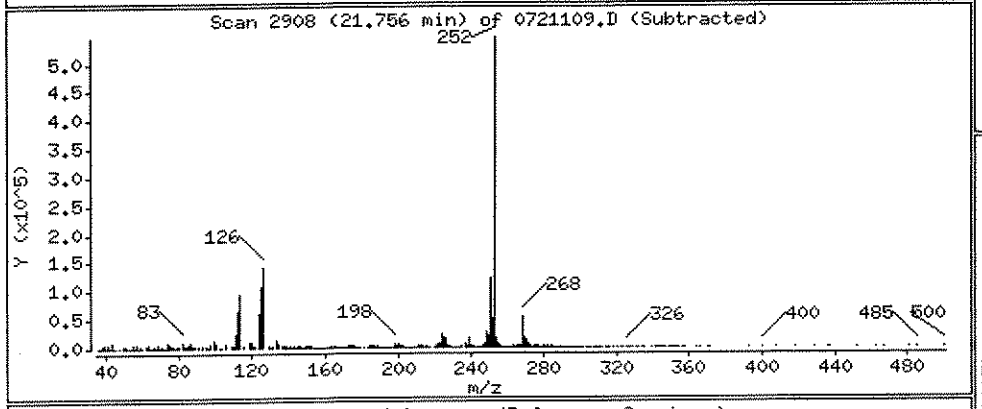
Column phase: fused silica

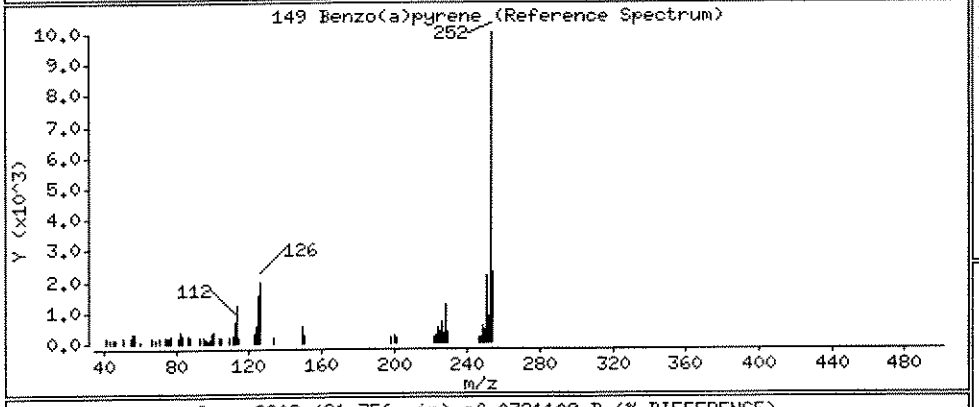
Column diameter: 0.25

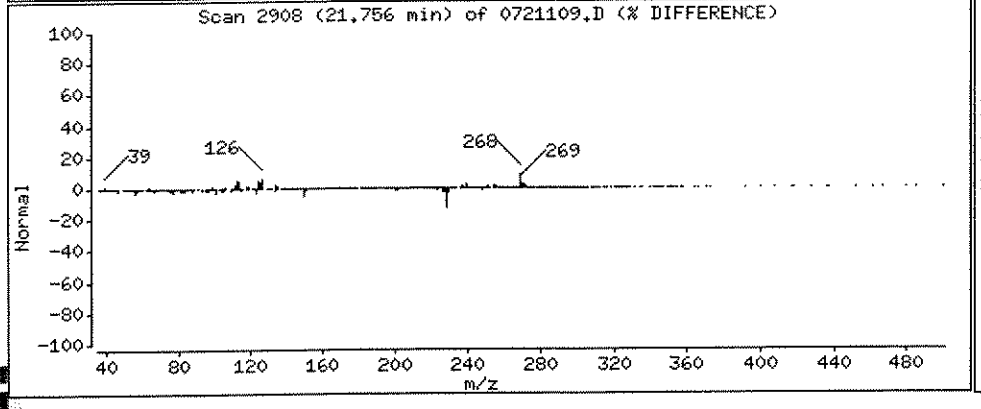
149 Benzo(a)pyrene

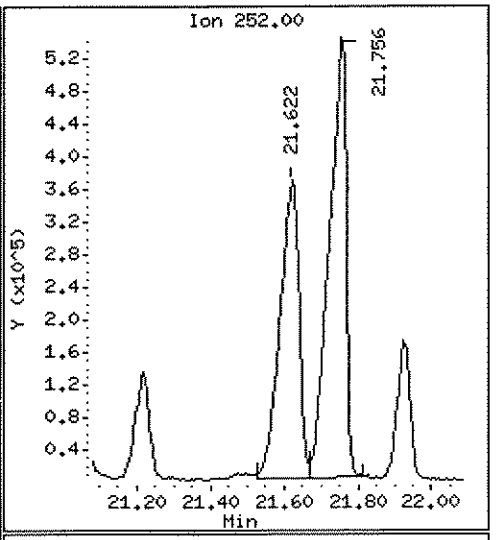
Concentration: 10630 UG/KG

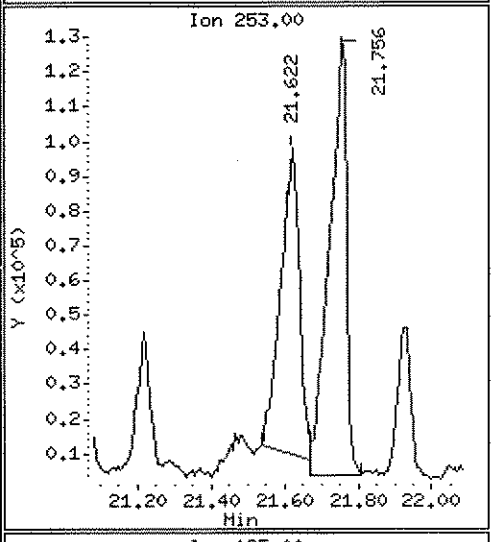


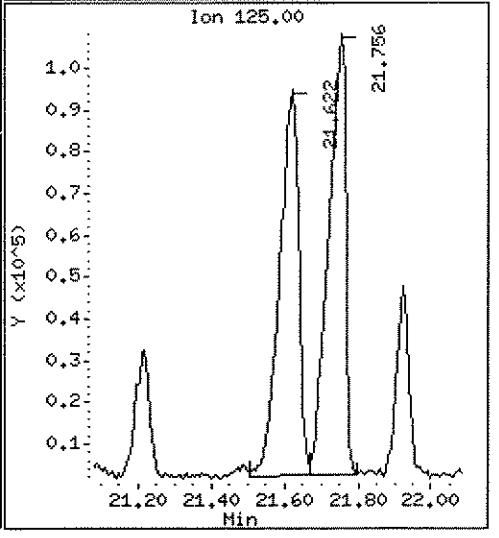












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

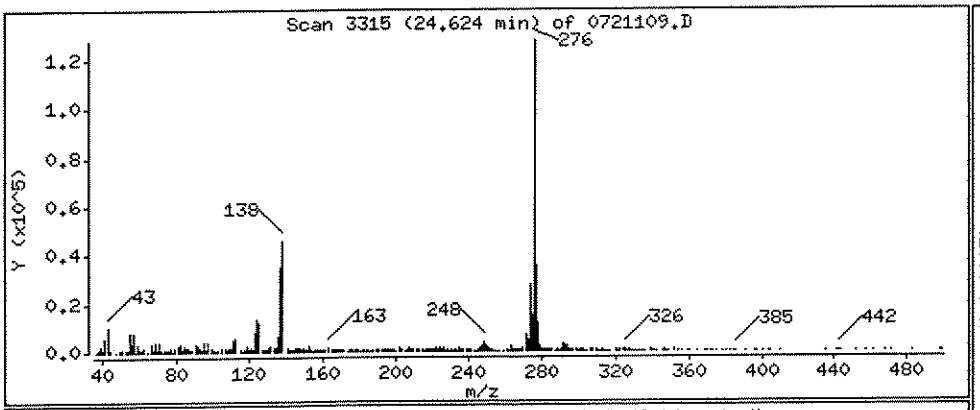
Client ID: 51CFM15S060725 Instrument: bna1.i

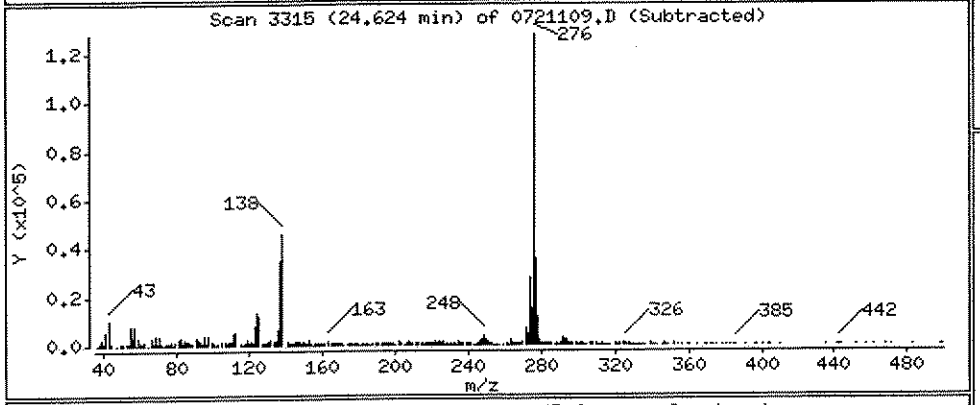
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

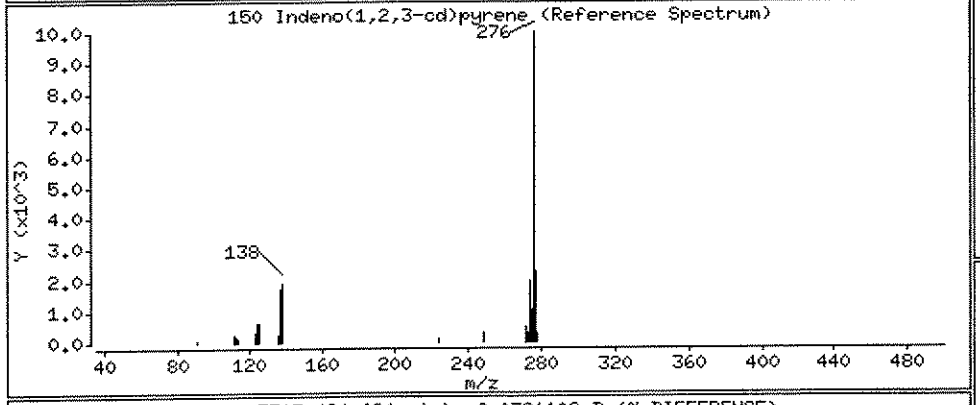
Volume Injected (uL): 0.5 Operator: SDB

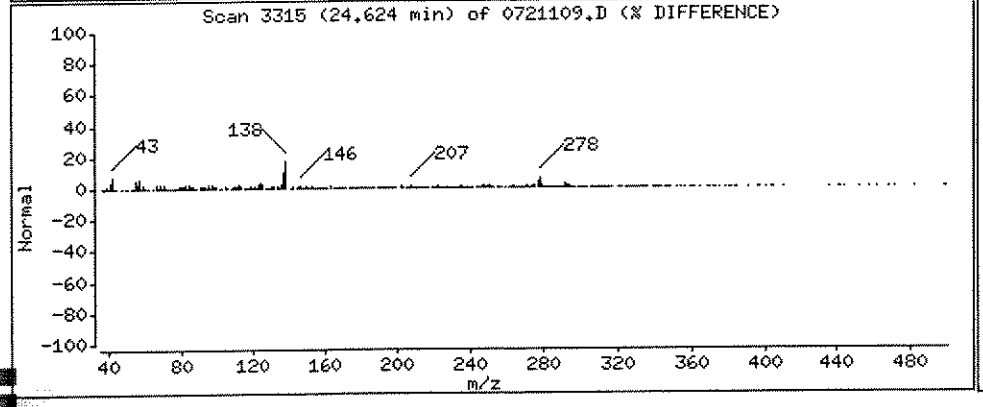
Column phase: fused silica Column diameter: 0.25

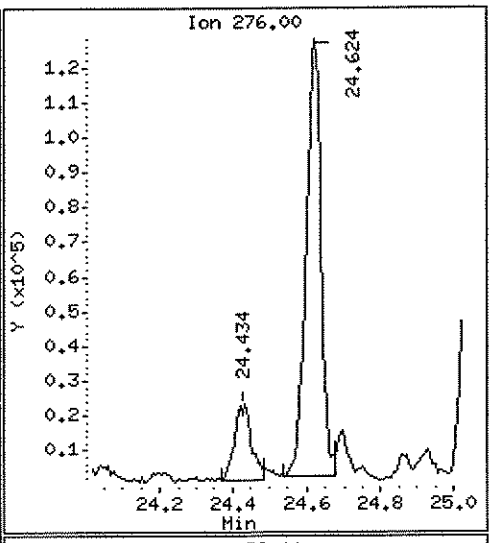
150 Indeno(1,2,3-cd)pyrene Concentration: 2494 UG/KG

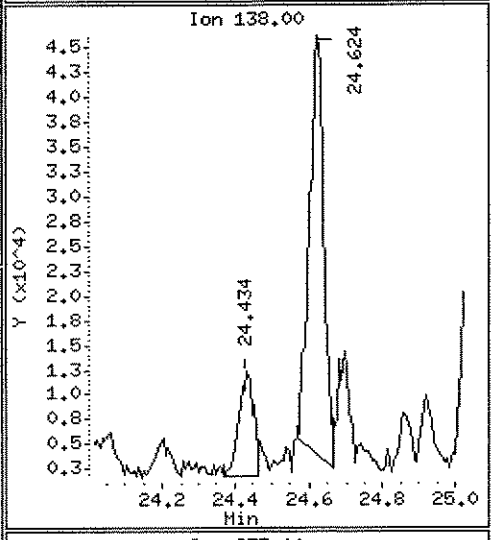


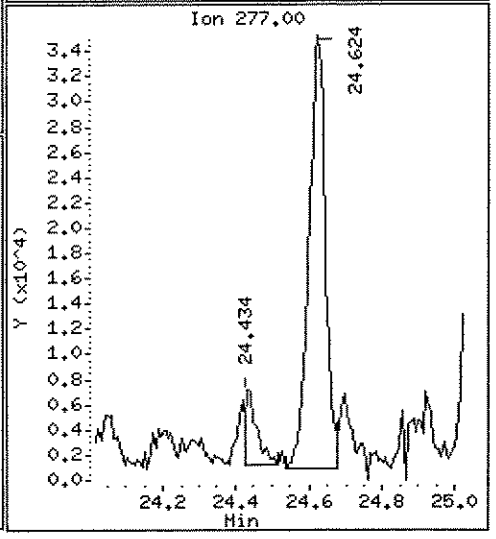












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

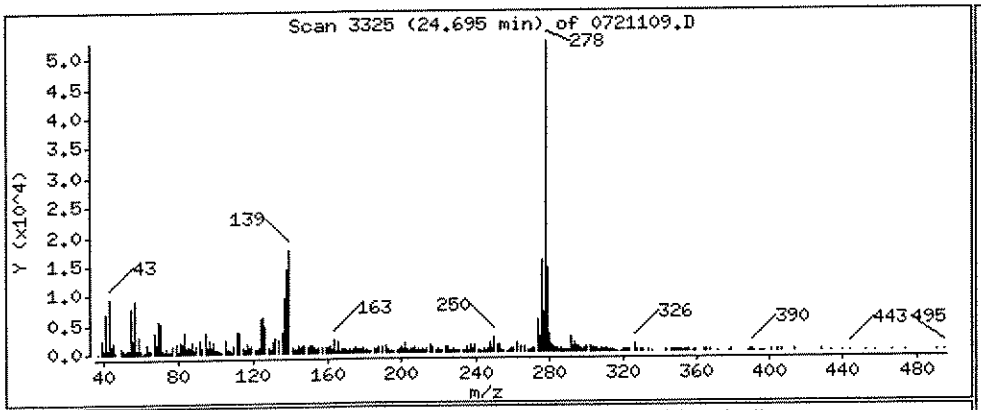
Operator: SDB

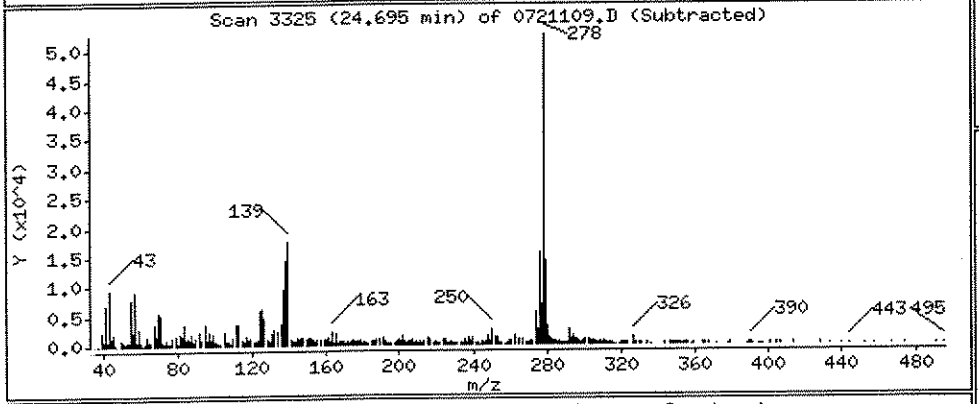
Column phase: fused silica

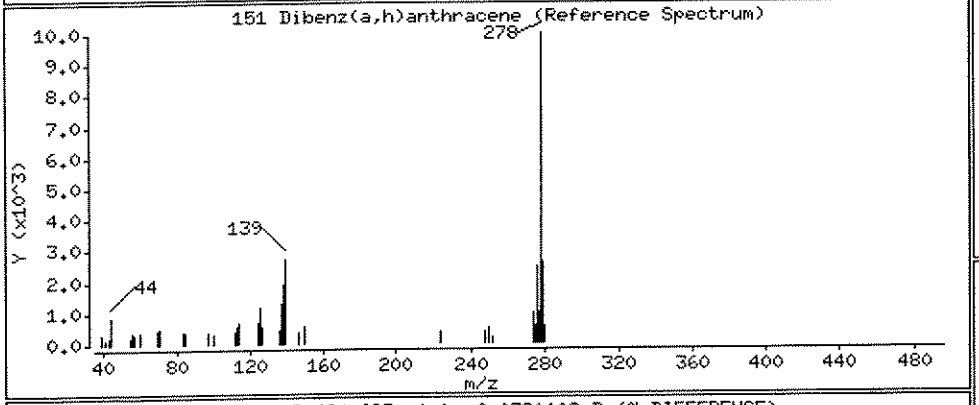
Column diameter: 0.25

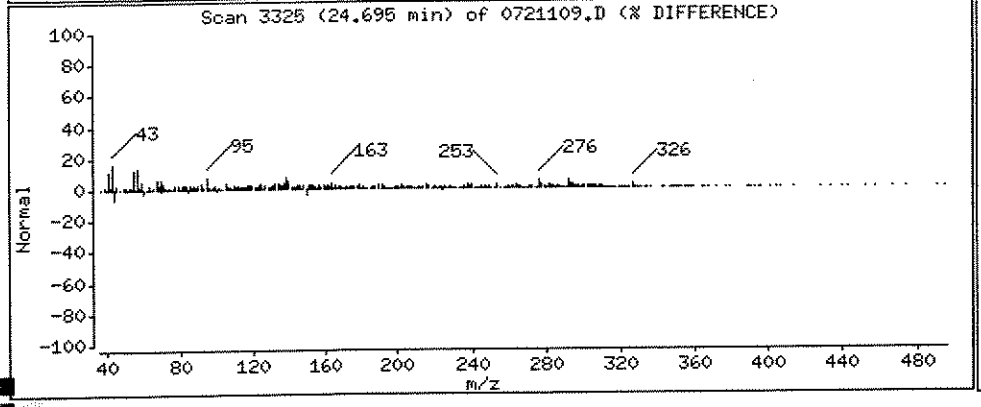
151 Dibenz(a,h)anthracene

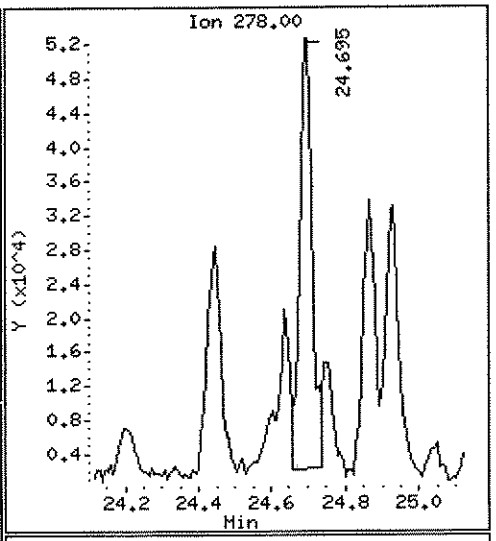
Concentration: 847.0 UG/KG

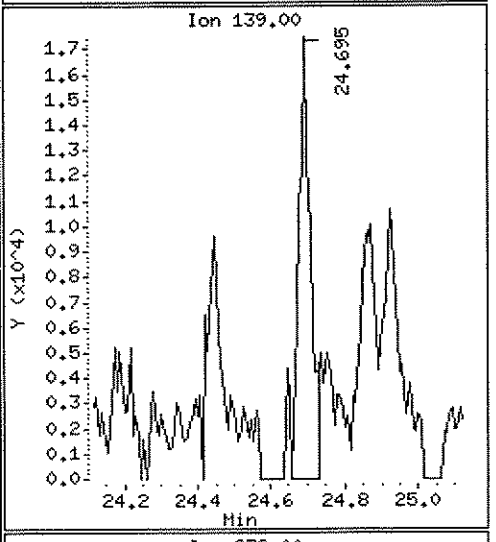


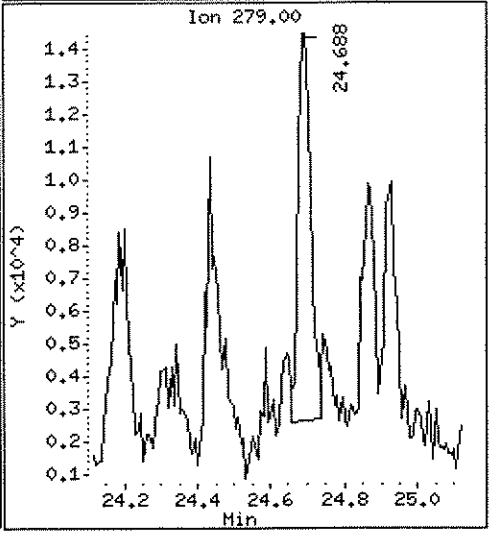












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D

Date : 26-JUL-2006 20:20

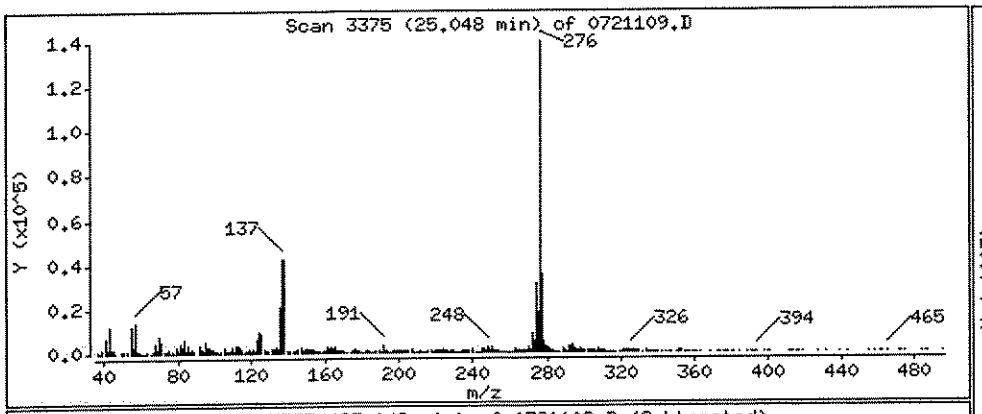
Client ID: 51CFM15S060725 Instrument: bna1.i

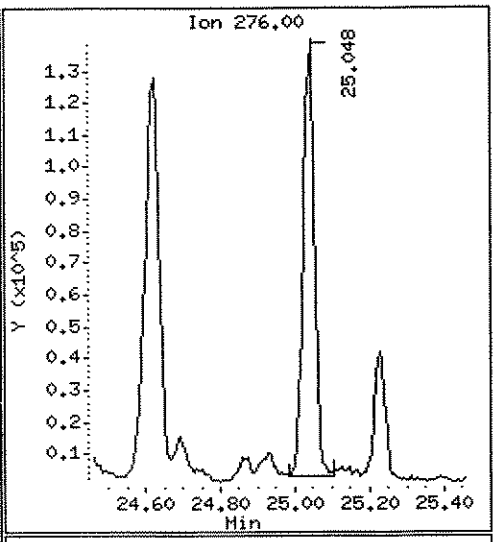
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

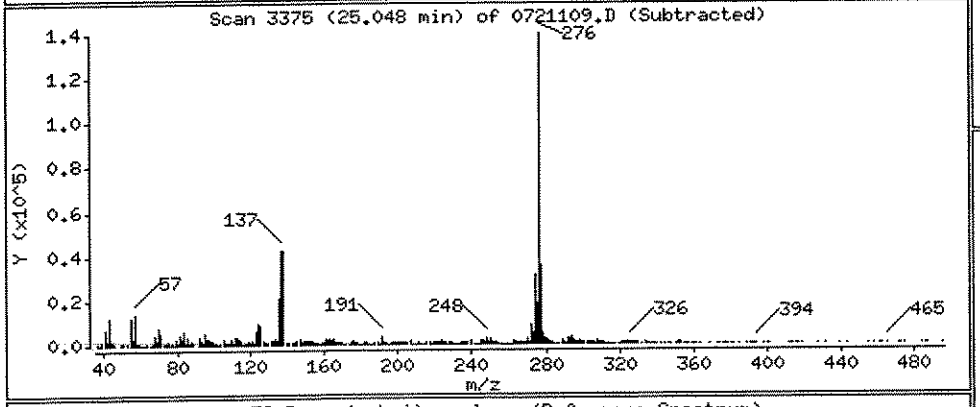
Volume Injected (uL): 0.5 Operator: SDB

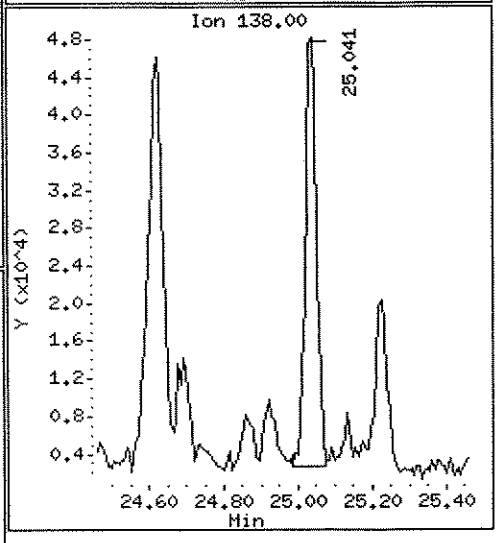
Column phase: fused silica Column diameter: 0.25

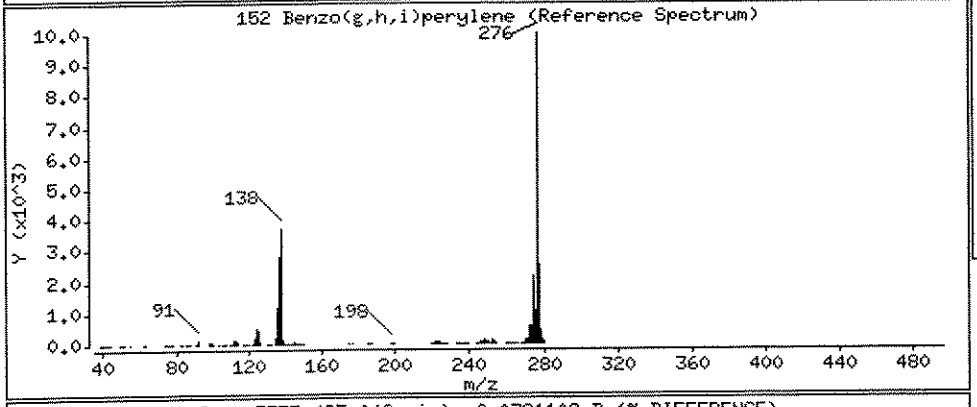
152 Benzo(g,h,i)perylene Concentration: 2025 UG/KG

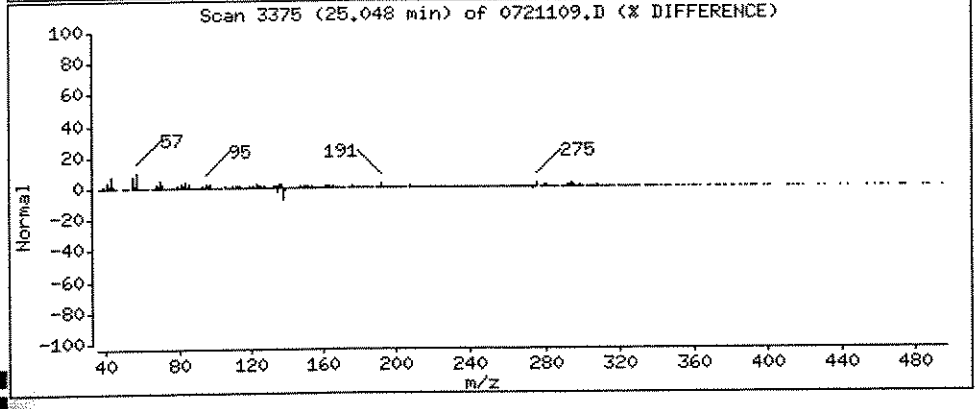












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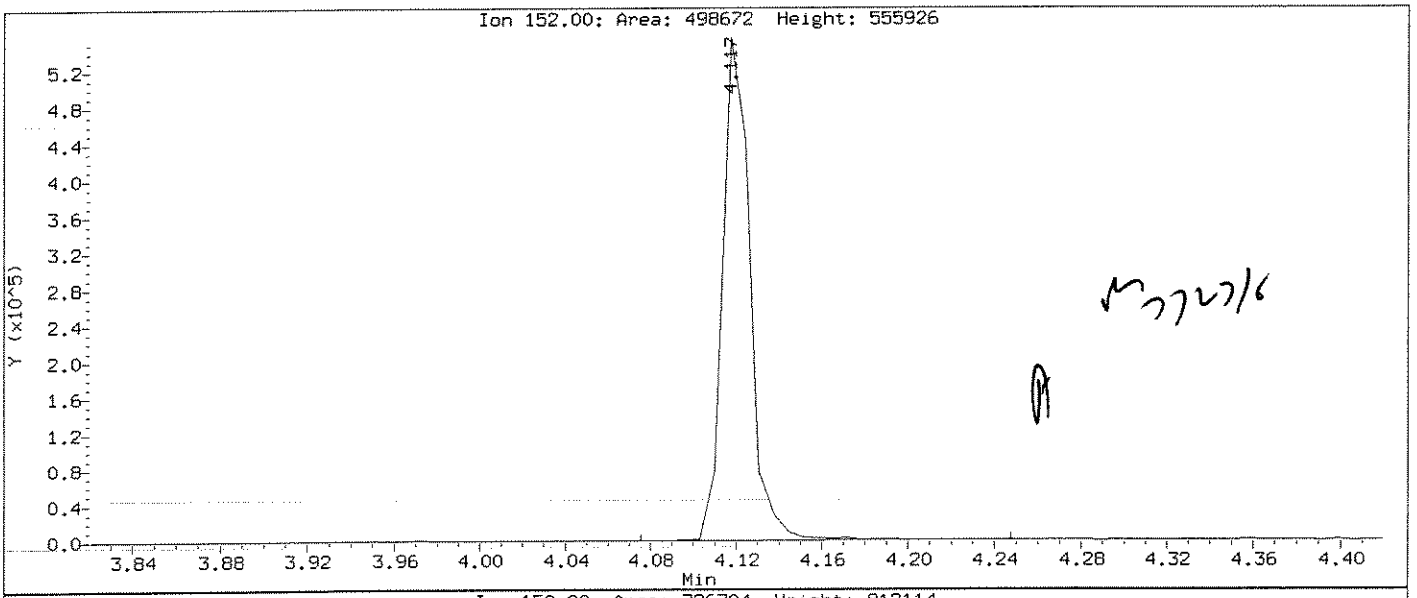
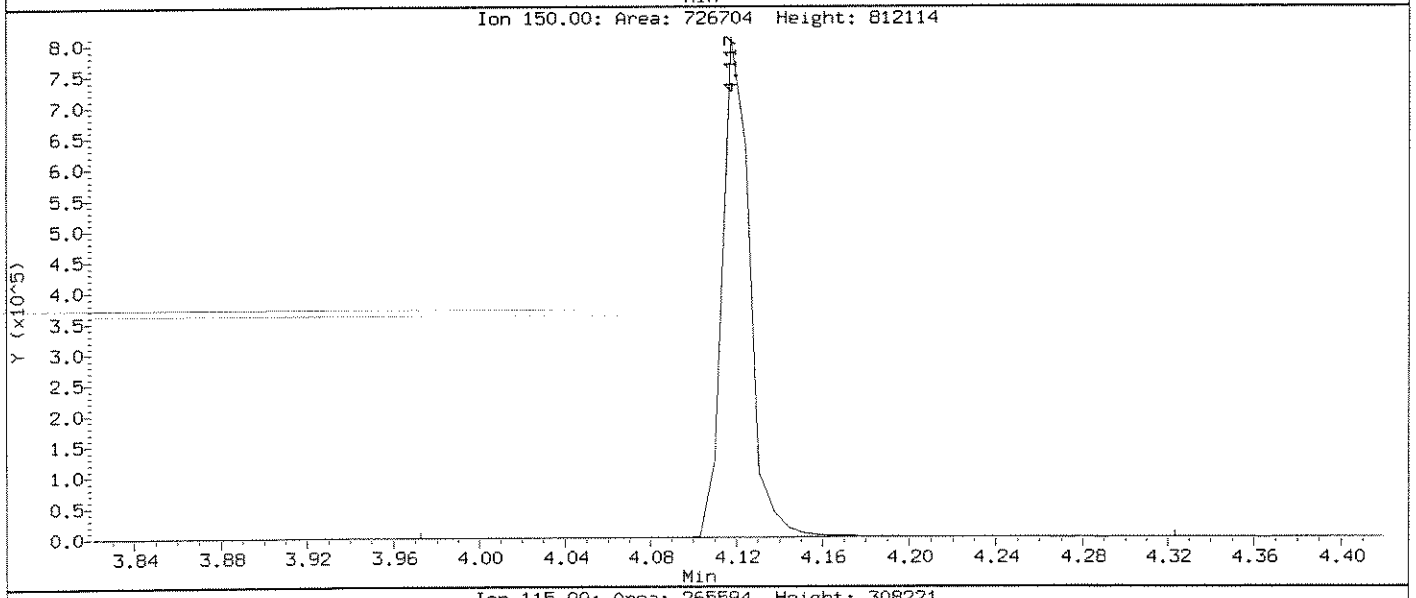
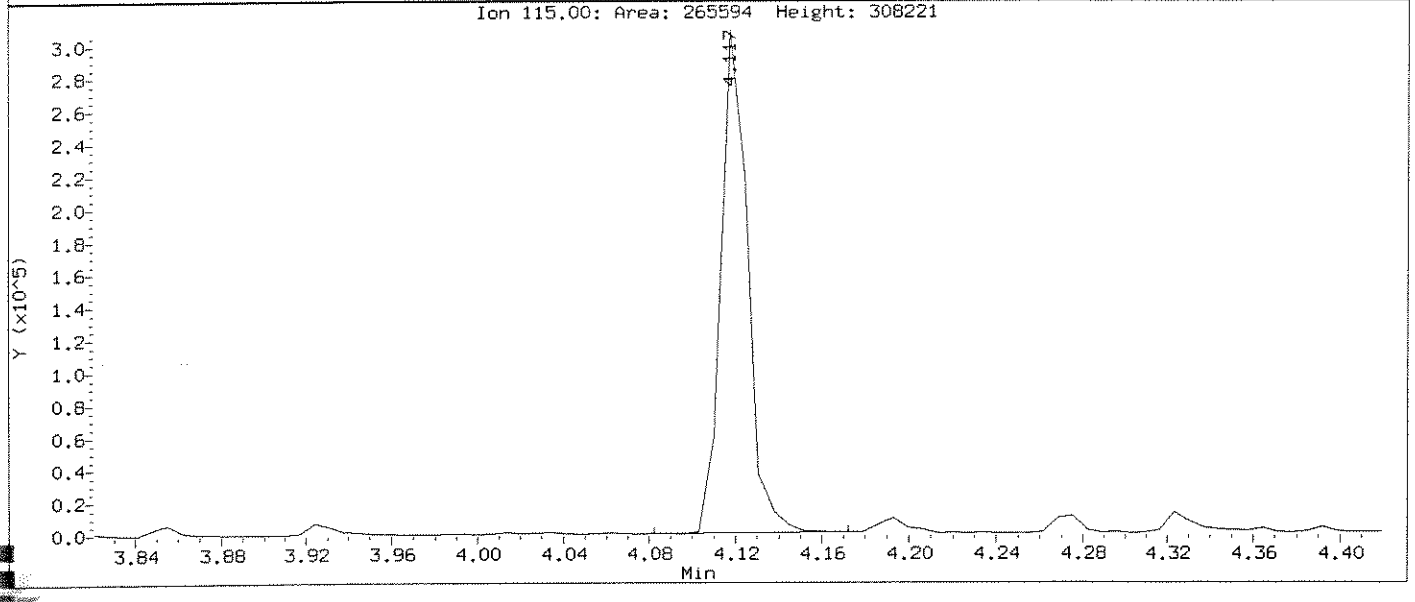
Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721109.D
Injection Date: 26-JUL-2006 20:20
Instrument: bna1.i
Client Sample ID: 51CFM15SO60725

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1







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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721109D

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 16:12

Injection Volume: 0.5(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	1100	9200	6000	JD
208-96-8	Acenaphthylene	1100	9200		UD
120-12-7	Anthracene	1100	9200	4000	JD
56-55-3	Benzo(a)anthracene	1100	9200	17000	D
205-99-2	Benzo(b)fluoranthene	1100	9200	22000	D
207-08-9	Benzo(k)fluoranthene	1100	9200	10000	D
191-24-2	Benzo(g,h,i)perylene	1100	9200	9300	D
50-32-8	Benzo(a)pyrene	1100	5500	19000	D
218-01-9	Chrysene	1100	9200	20000	D
53-70-3	Dibenz(a,h)anthracene	1100	5500		UD
206-44-0	Fluoranthene	1100	9200	36000	D
86-73-7	Fluorene	1100	9200	4500	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1100	9200	8000	JD
91-57-6	2-Methylnaphthalene	1100	9200		UD
90-12-0	1-Methylnaphthalene	2800	9200		UD
91-20-3	Naphthalene	1100	9200		UD
85-01-8	Phenanthrene	1100	9200	26000	D
129-00-0	Pyrene	1100	9200	37000	D

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D
Report Date: 28-Jul-2006 06:35

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 27-JUL-2006 16:12
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-09;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 28-Jul-2006 06:34 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 9
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	89.100	Percent Solids

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 1	1,4-Dichlorobenzene-d4	152	4.086	4.088	(1.000)	433073	40.0000	(M)
* 31	Naphthalene-d8	136	5.050	5.055	(1.000)	1357876	40.0000	
* 65	Acenaphthene-d10	164	7.316	7.324	(1.000)	633856	40.0000	
76	Acenaphthene	153	7.364	7.387	(1.007)	59418	3.24806	5996(a)
84	Fluorene	166	8.359	8.375	(1.143)	47632	2.43446	4494(a)
* 97	Phenanthrene-d10	188	10.503	10.512	(1.000)	744717	40.0000	
106	Phenanthrene	178	10.551	10.568	(1.005)	300485	14.1515	26120
107	Anthracene	178	10.662	10.685	(1.015)	45888	2.18899	4041(a)
110	Fluoranthene	202	13.719	13.736	(1.306)	408975	19.4546	35910
* 124	Chrysene-d12	240	17.831	17.850	(1.000)	416505	40.0000	
126	Pyrene	202	14.295	14.311	(0.802)	334465	20.1076	37120
130	Benzo(a)anthracene	228	17.790	17.809	(0.998)	124614	9.28581	17140
131	Chrysene	228	17.893	17.927	(1.003)	130468	10.6443	19650

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D
Report Date: 28-Jul-2006 06:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
* 145 Perylene-d12	264	21.636	21.664	(1.000)	258138	40.0000	
147 Benzo(b)fluoranthene	252	20.716	20.746	(0.957)	93913	11.8103	21800
148 Benzo(k)fluoranthene	252	20.778	20.822	(0.960)	45130	5.47030	10100(M)
149 Benzo(a)pyrene	252	21.478	21.512	(0.993)	69910	10.1957	18820
150 Indeno(1,2,3-cd)pyrene	276	24.407	24.452	(1.128)	25518	4.36194	8052(a)
152 Benzo(g,h,i)perylene	276	24.873	24.910	(1.150)	30477	5.02013	9267

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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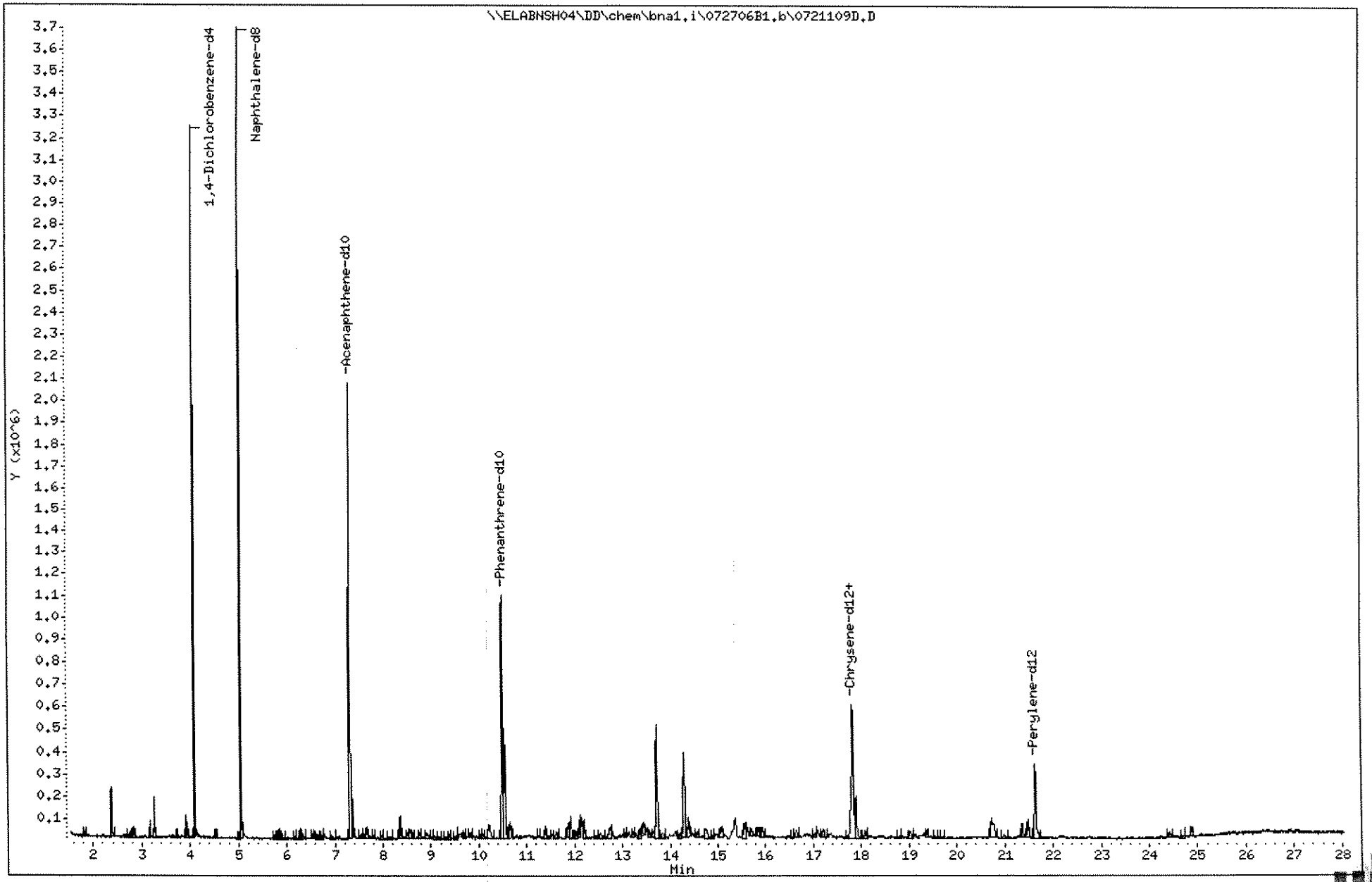
Date : 27-JUL-2006 16:12
Client ID: 51CFM15S060725
Instrument: bna1.i
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000212



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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

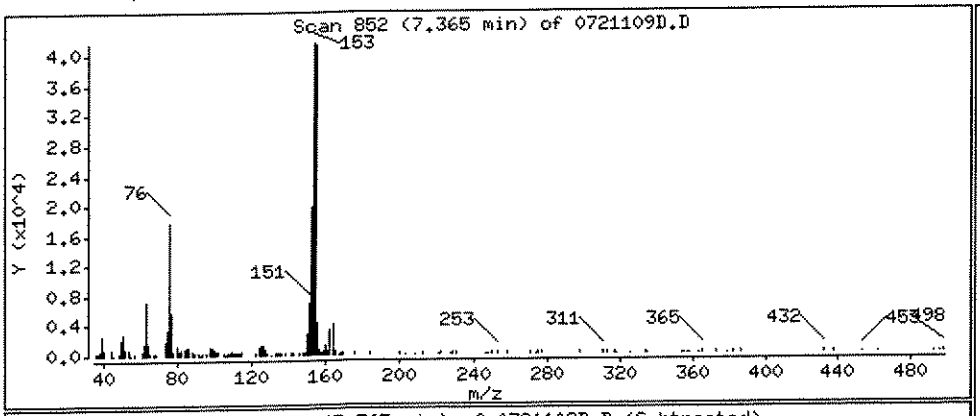
Operator: SDB

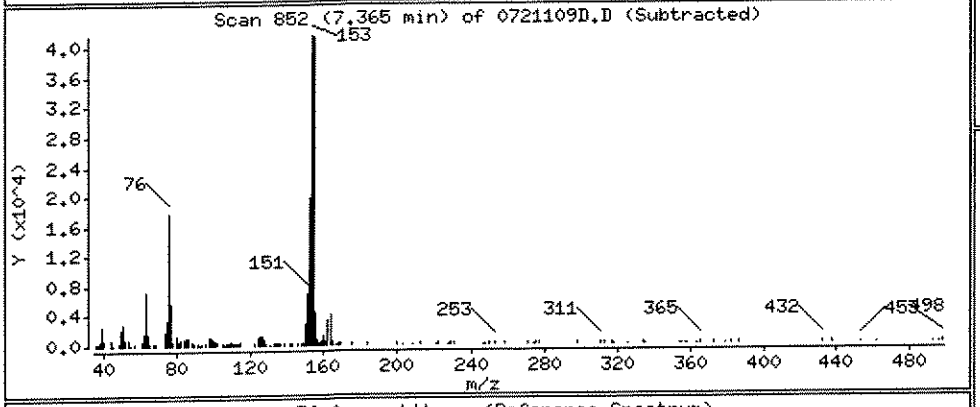
Column phase: fused silica

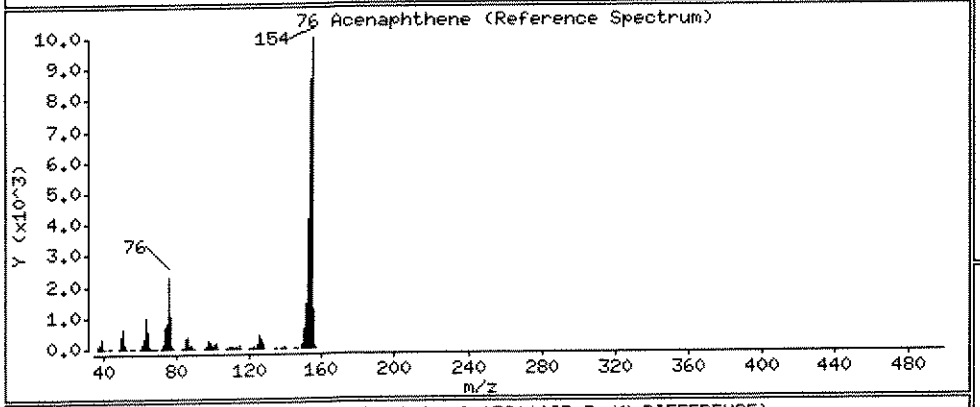
Column diameter: 0.25

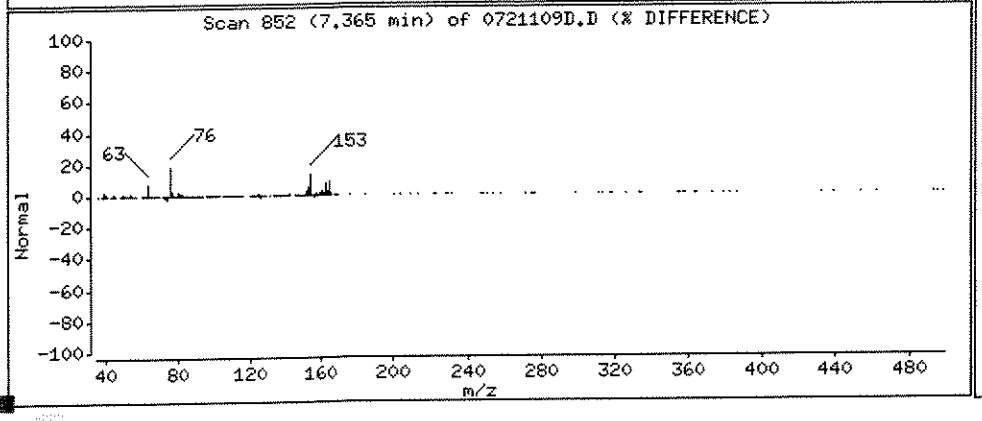
76 Acenaphthene

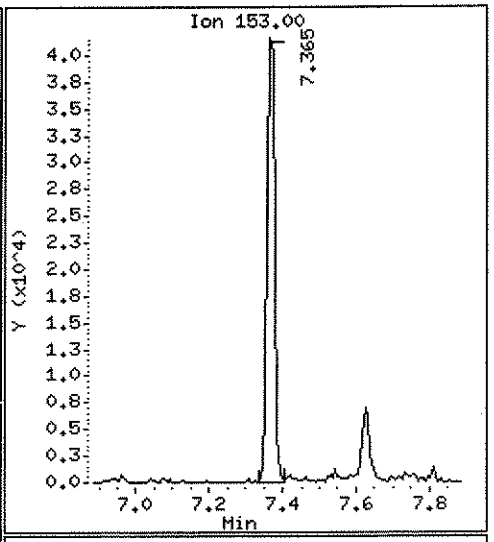
Concentration: 5996 UG/KG

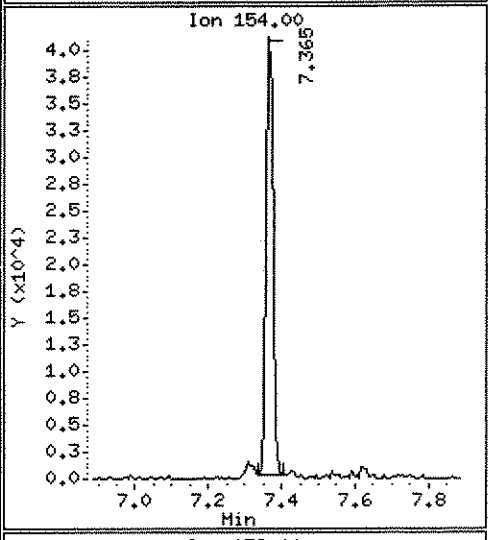


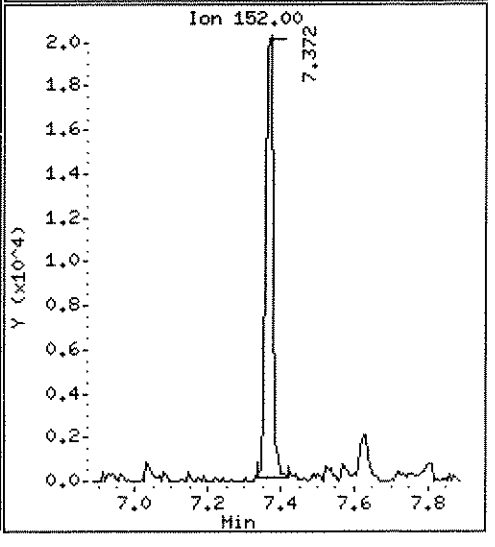












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

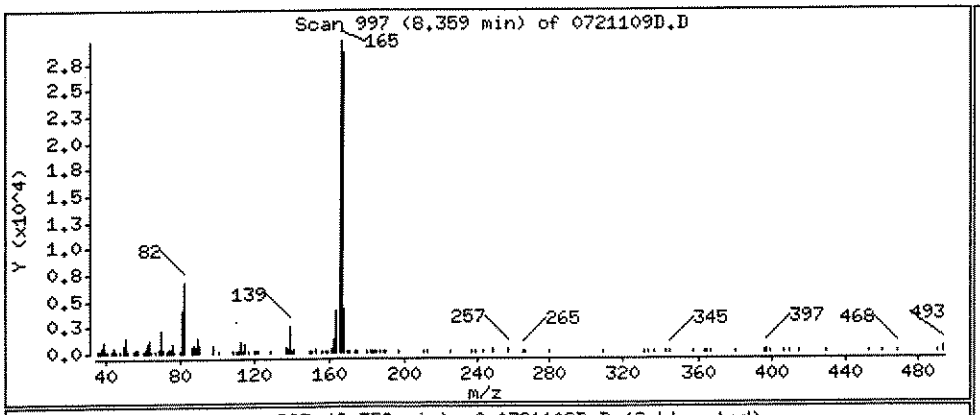
Client ID: 51CFM15S060725 Instrument: bna1.i

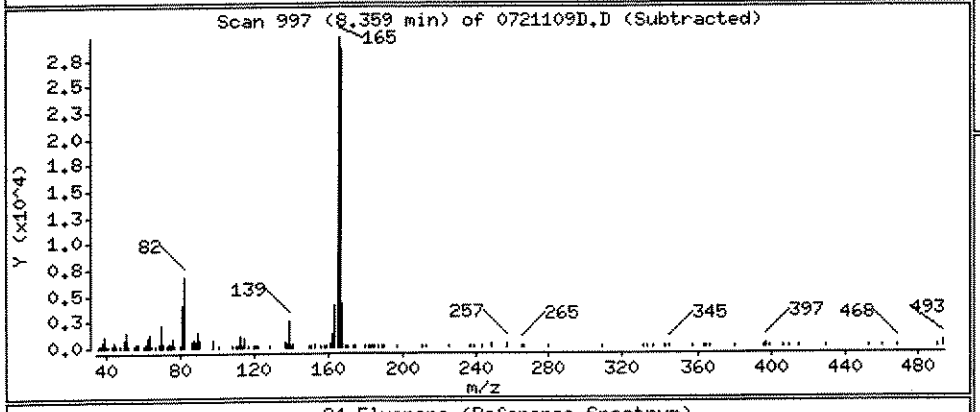
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

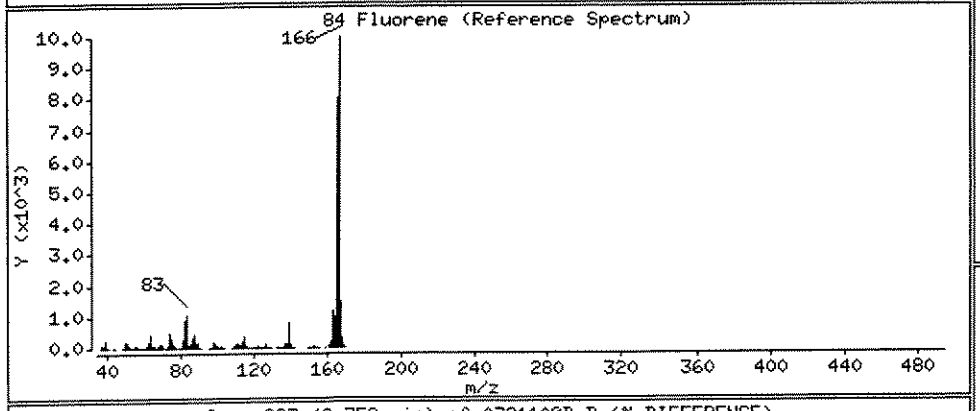
Volume Injected (uL): 0.5 Operator: SDB

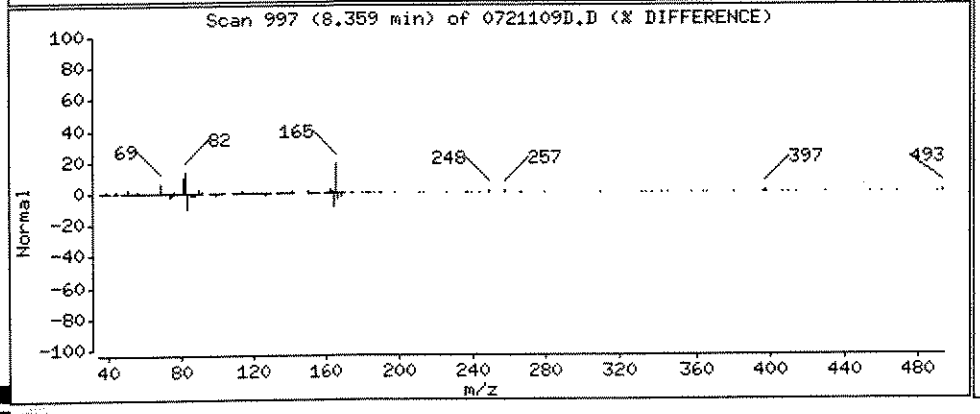
Column phase: fused silica Column diameter: 0.25

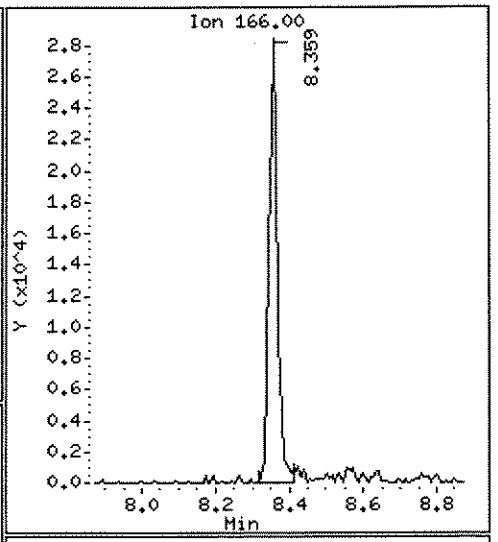
84 Fluorene Concentration: 4494 UG/KG

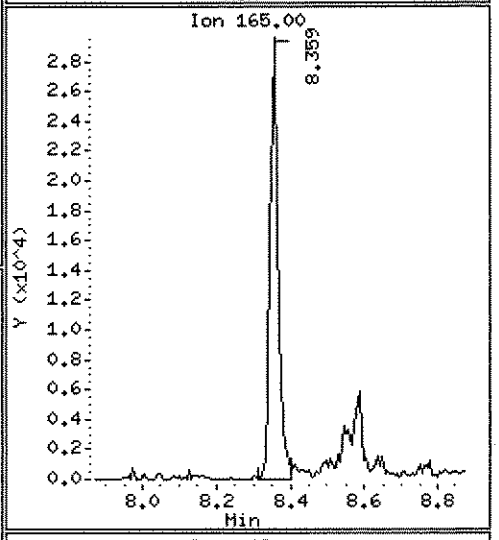


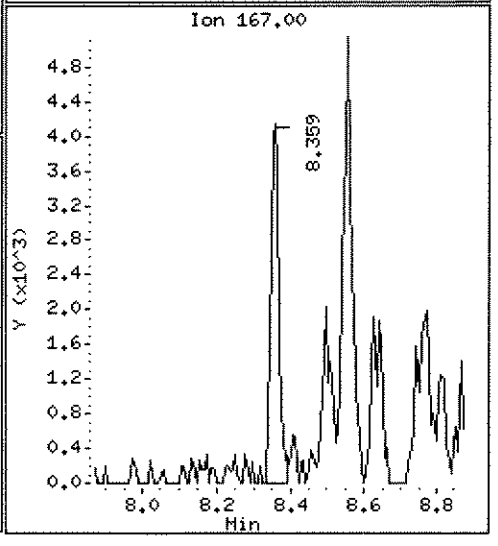












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

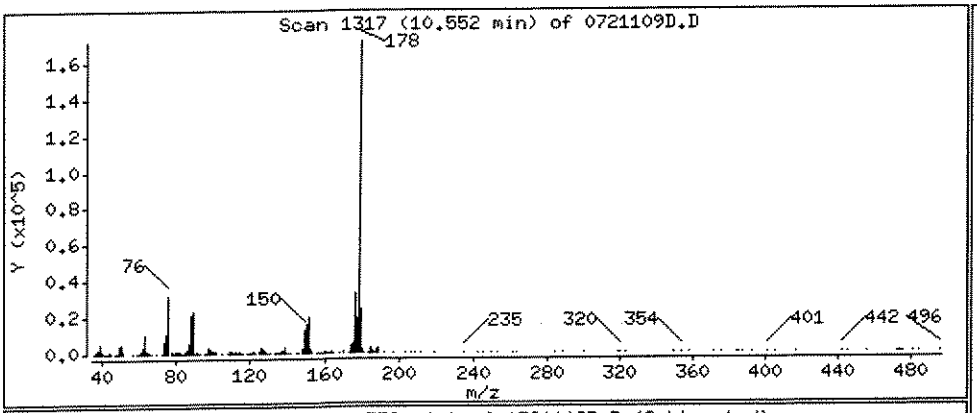
Operator: SDB

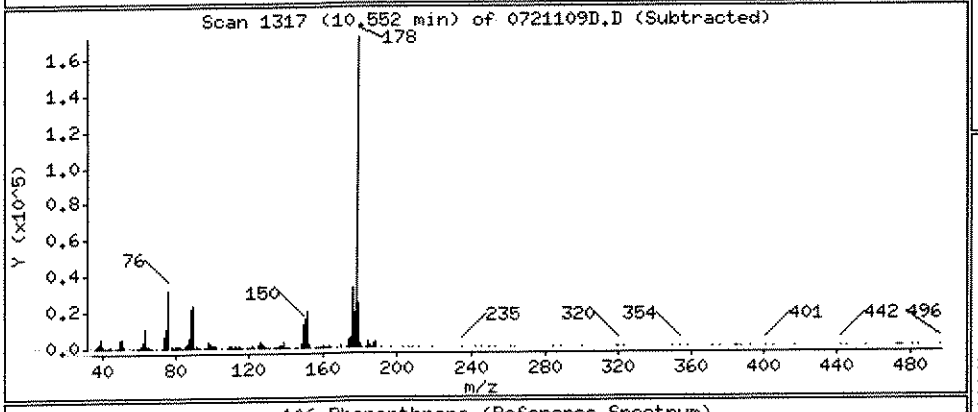
Column phase: fused silica

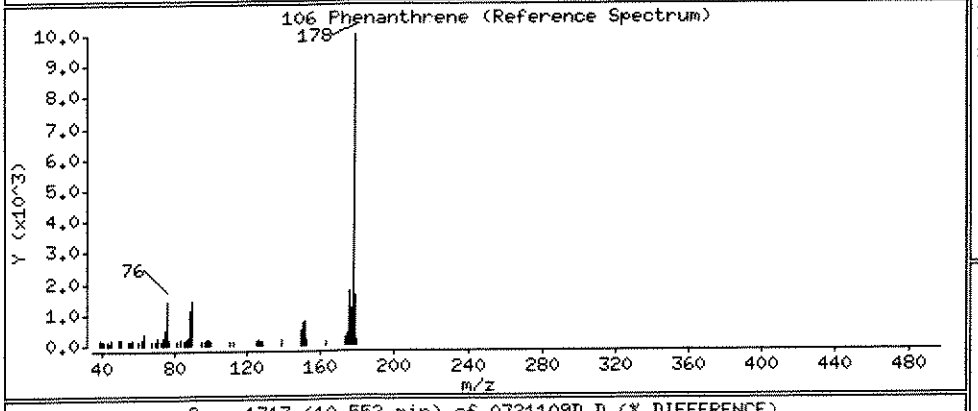
Column diameter: 0.25

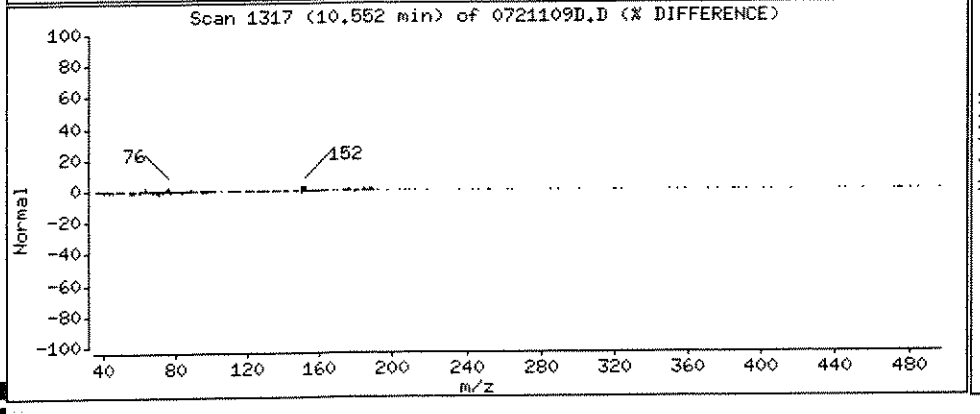
106 Phenanthrene

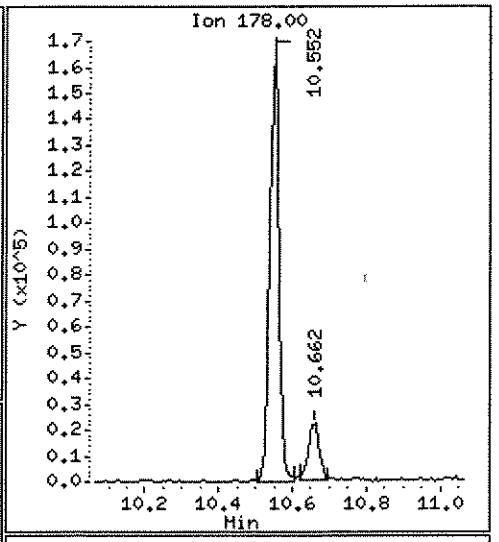
Concentration: 26120 UG/KG

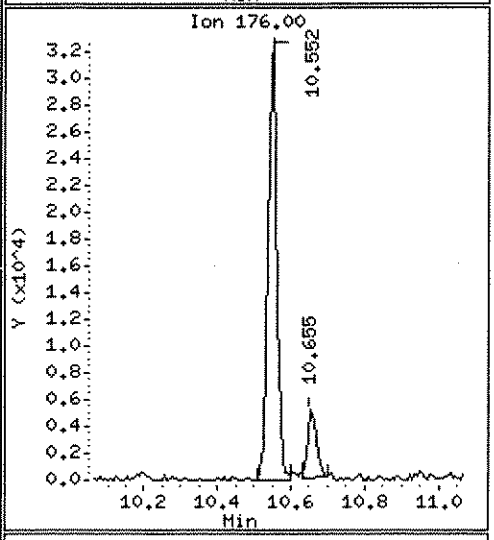


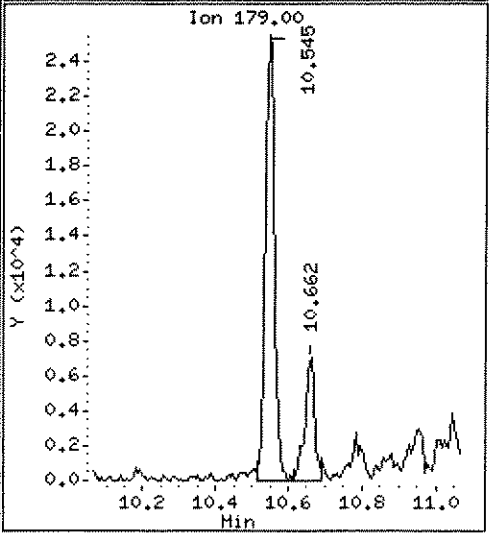












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

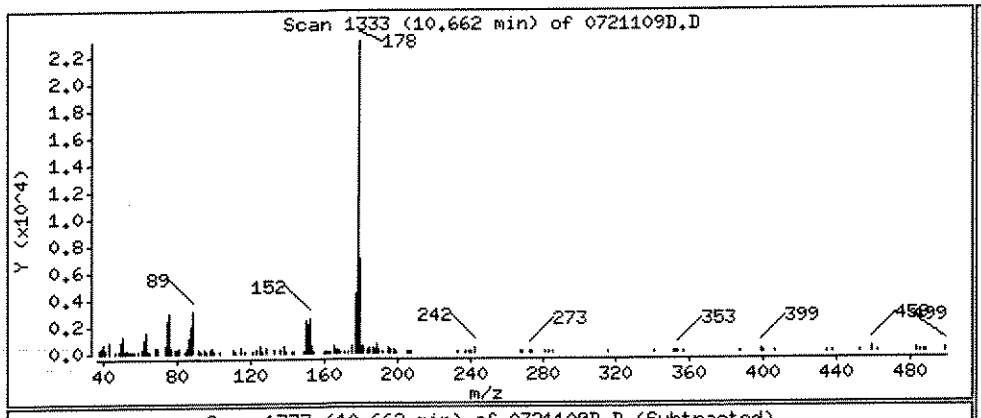
Client ID: 51CFM15S060725 Instrument: bna1.i

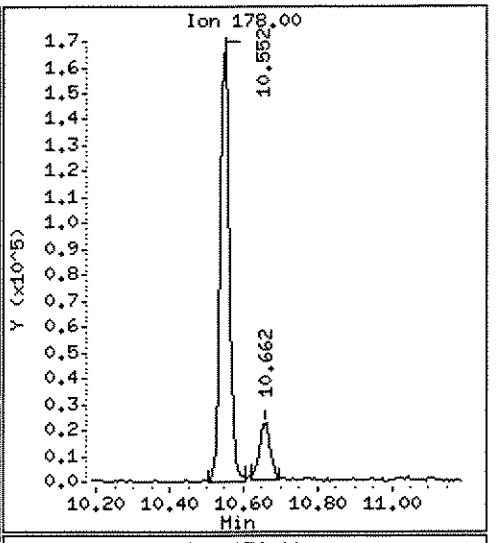
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

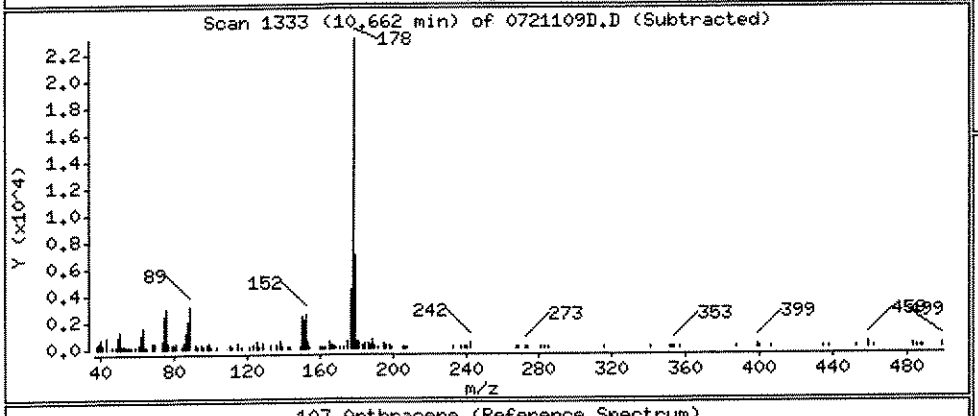
Volume Injected (uL): 0.5 Operator: SDB

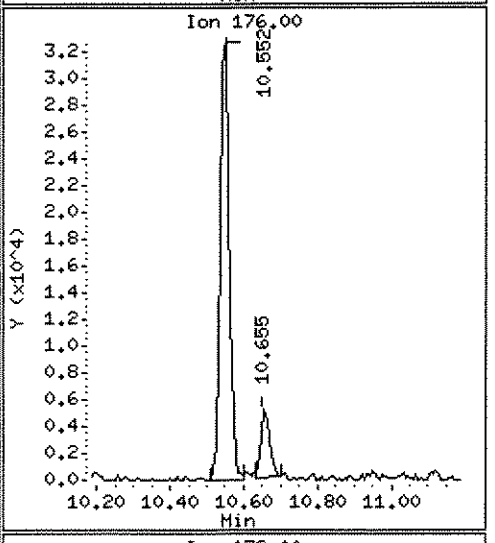
Column phase: fused silica Column diameter: 0.25

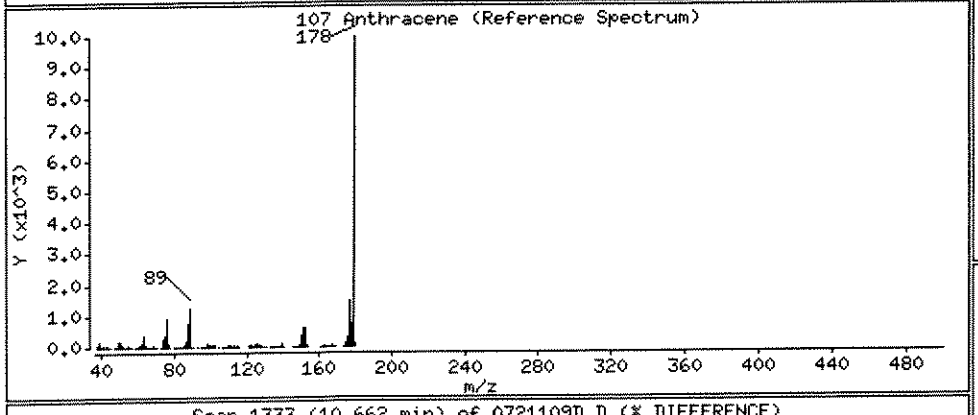
107 Anthracene Concentration: 4041 UG/KG

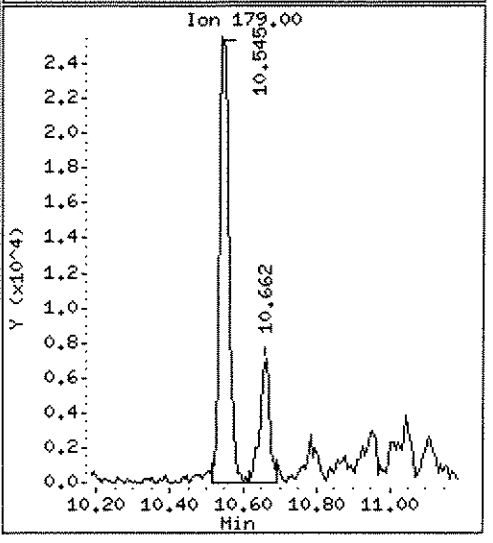


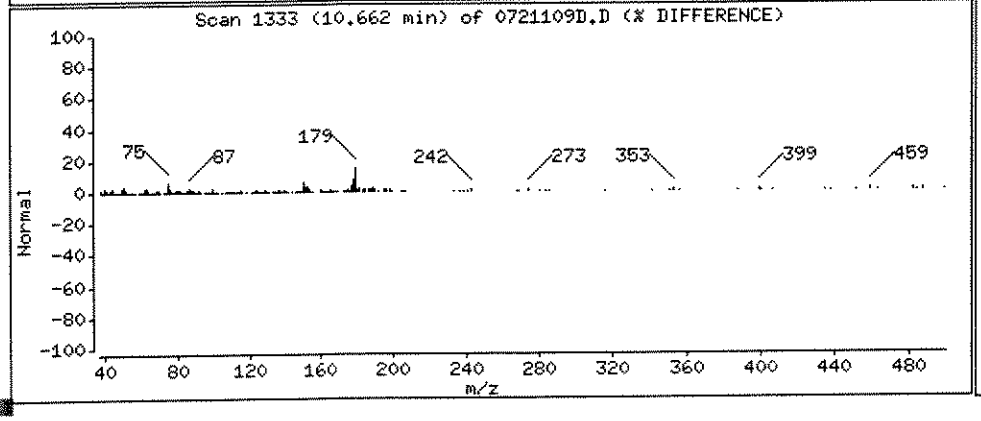












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

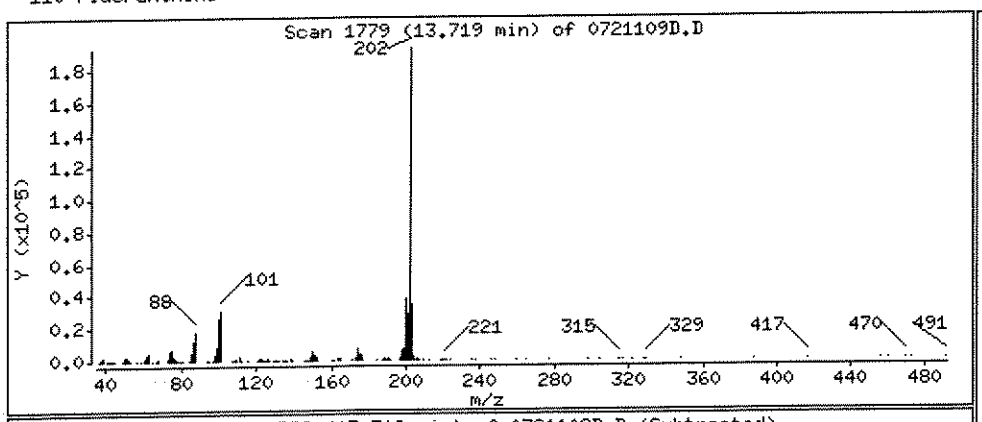
Operator: SDB

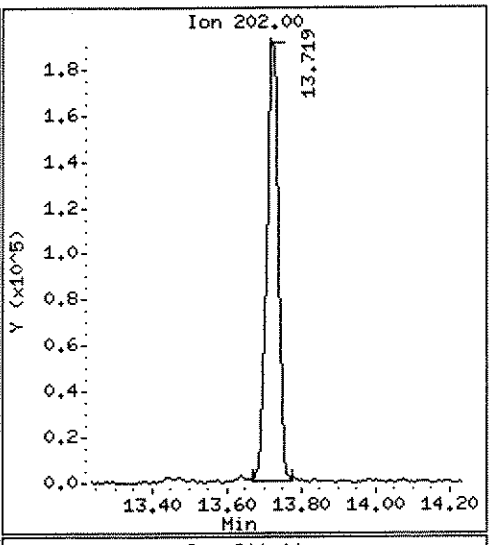
Column phase: fused silica

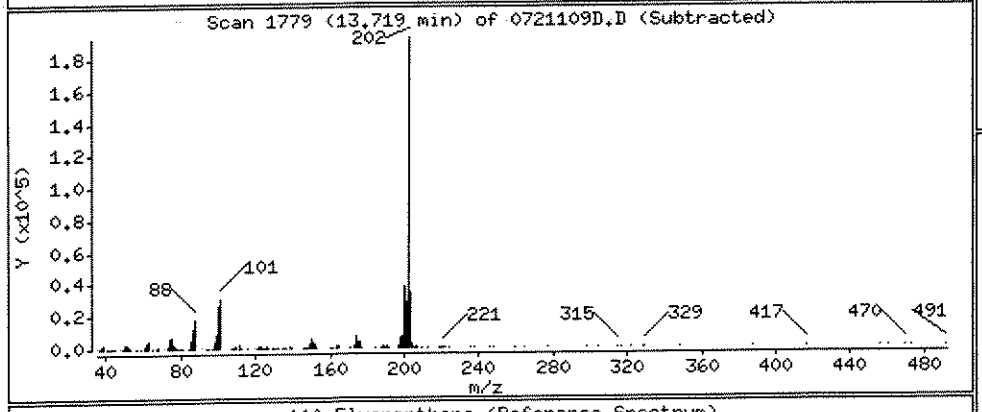
Column diameter: 0.25

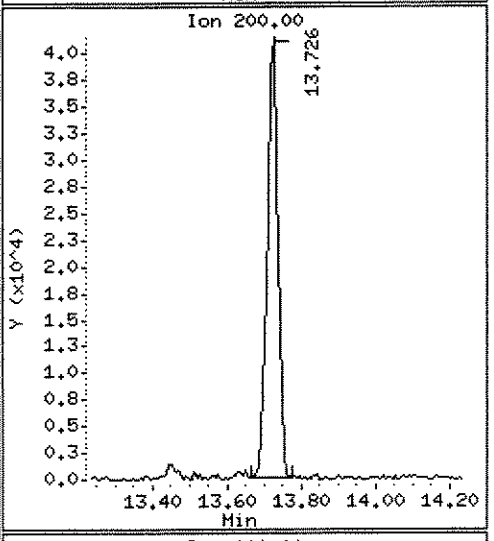
110 Fluoranthene

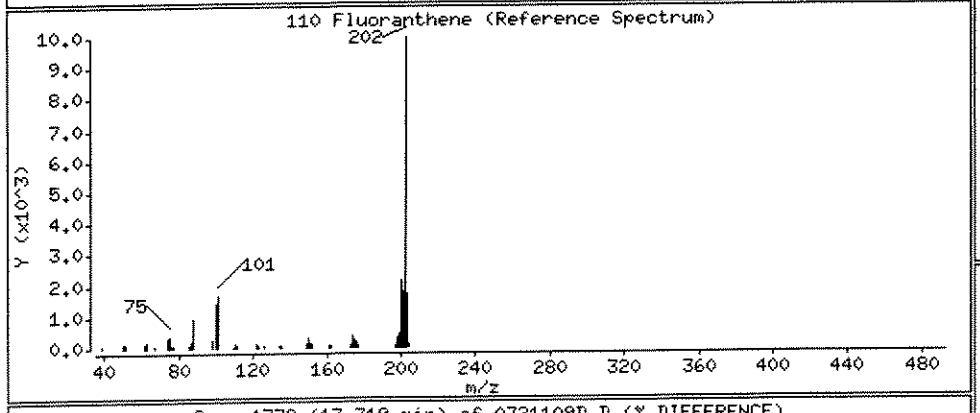
Concentration: 35910 UG/KG

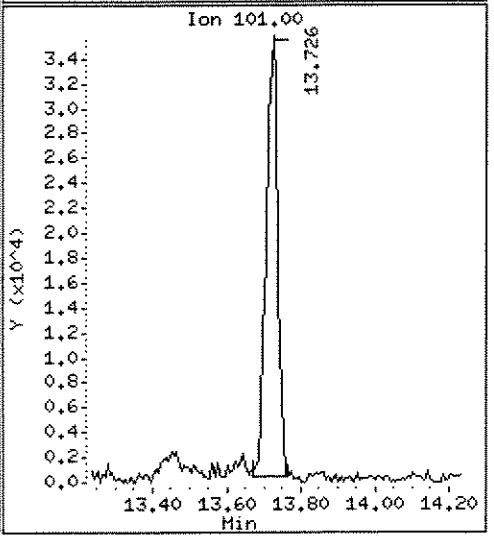


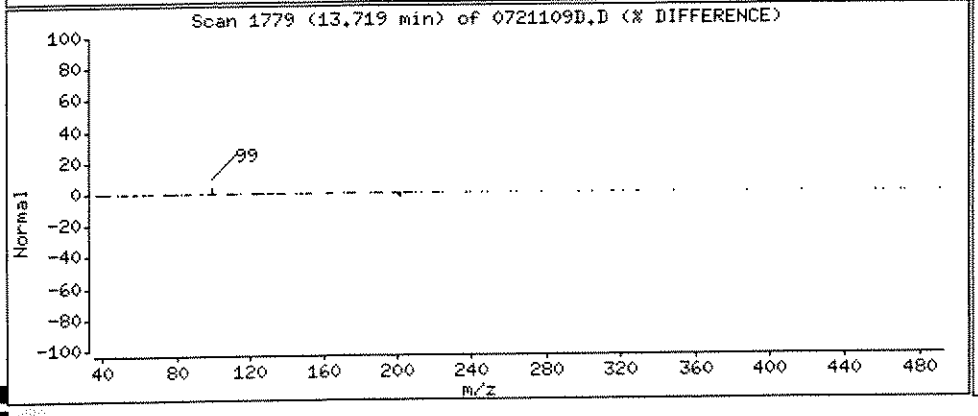












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

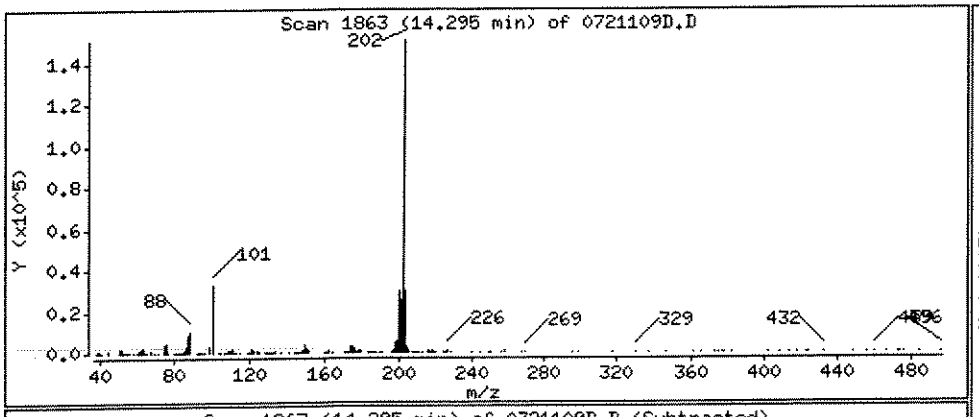
Client ID: 51CFM15S060725 Instrument: bna1.i

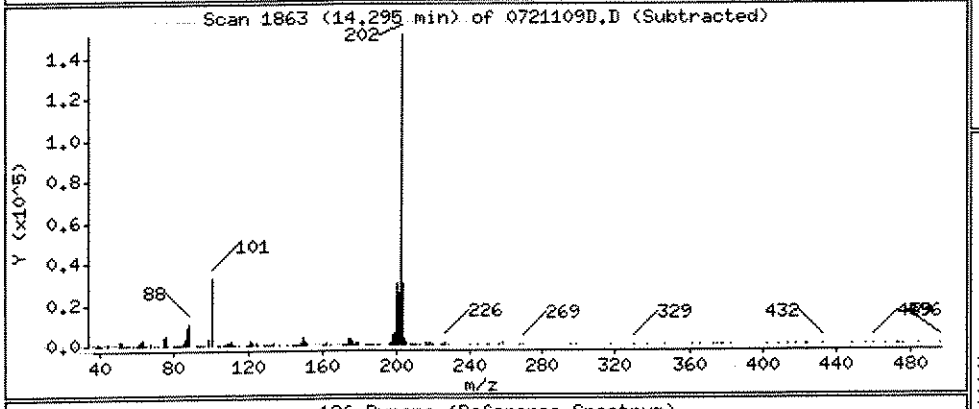
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

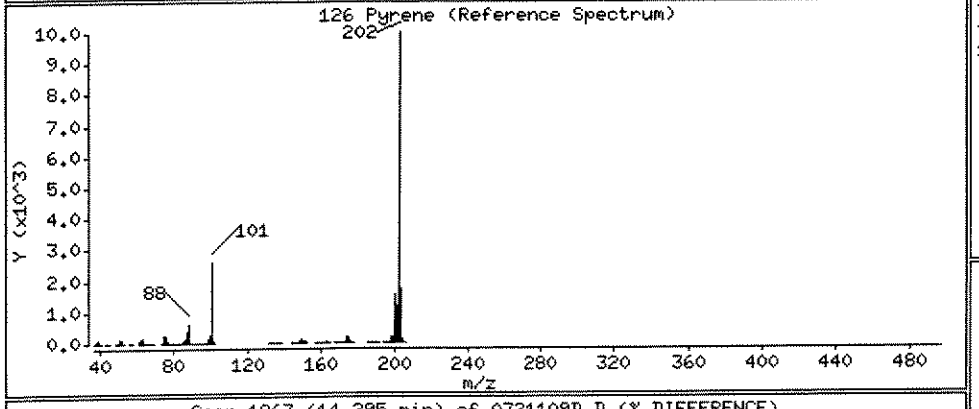
Volume Injected (uL): 0.5 Operator: SDB

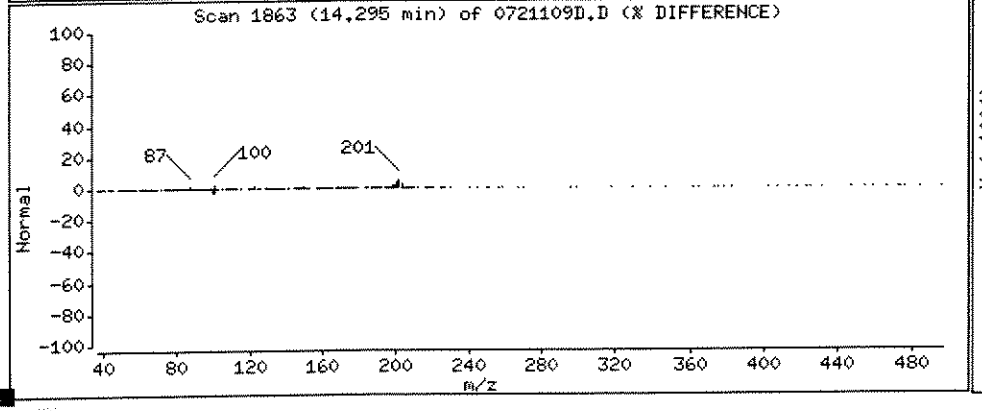
Column phase: fused silica Column diameter: 0.25

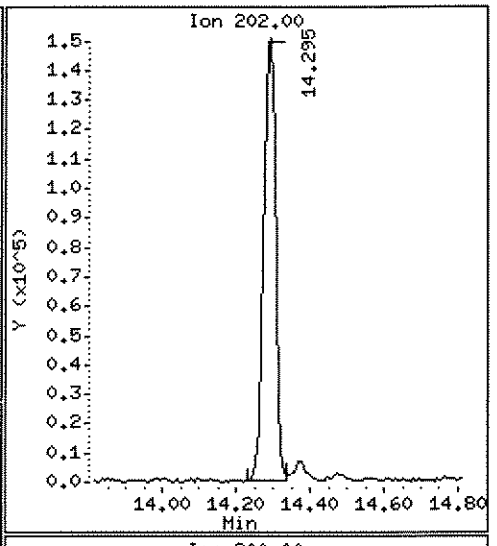
126 Pyrene Concentration: 37120 UG/KG

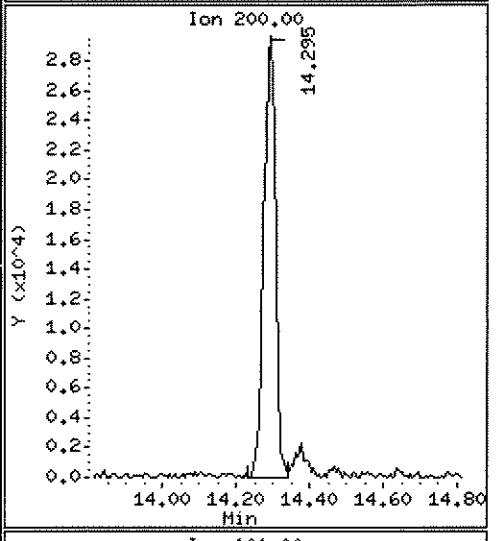


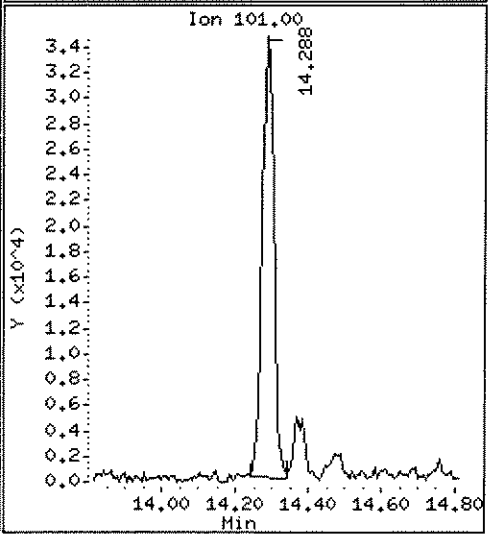












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

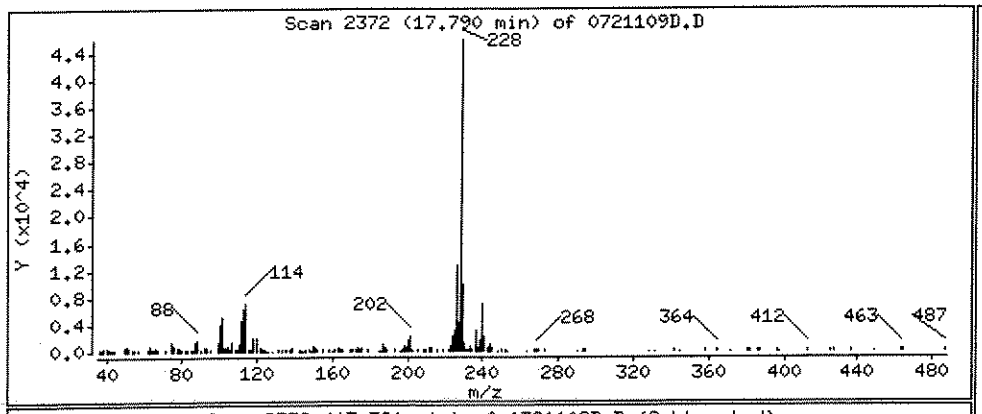
Client ID: 51CFM15S060725 Instrument: bna1.i

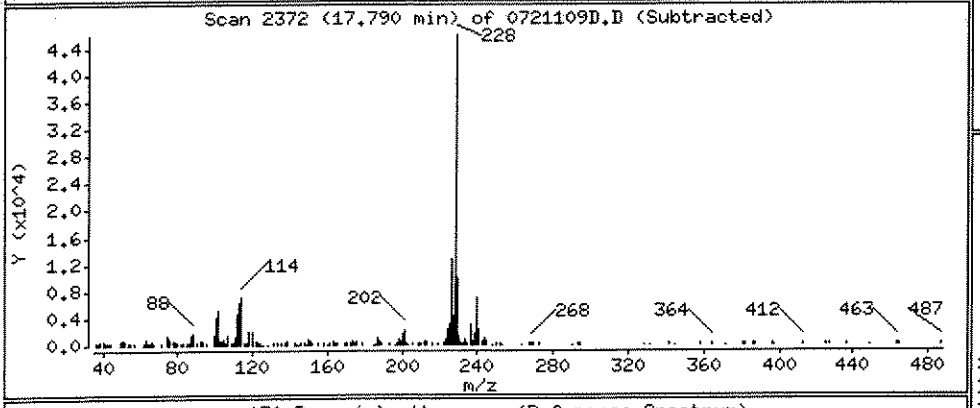
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

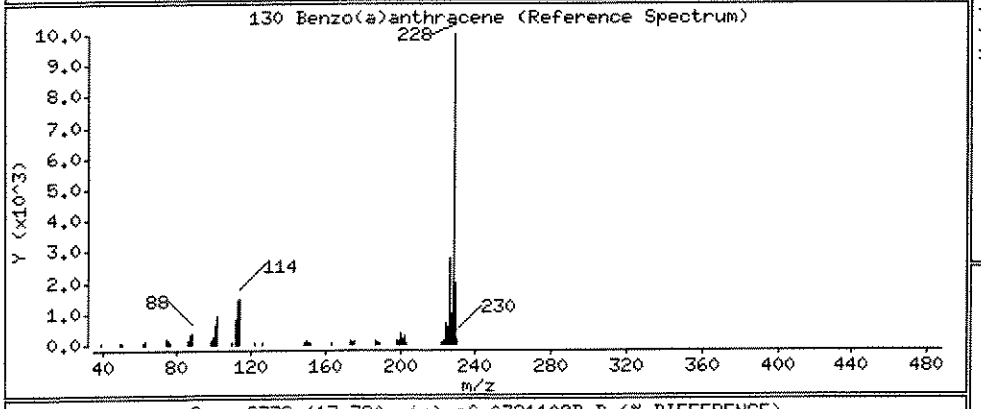
Volume Injected (uL): 0.5 Operator: SDB

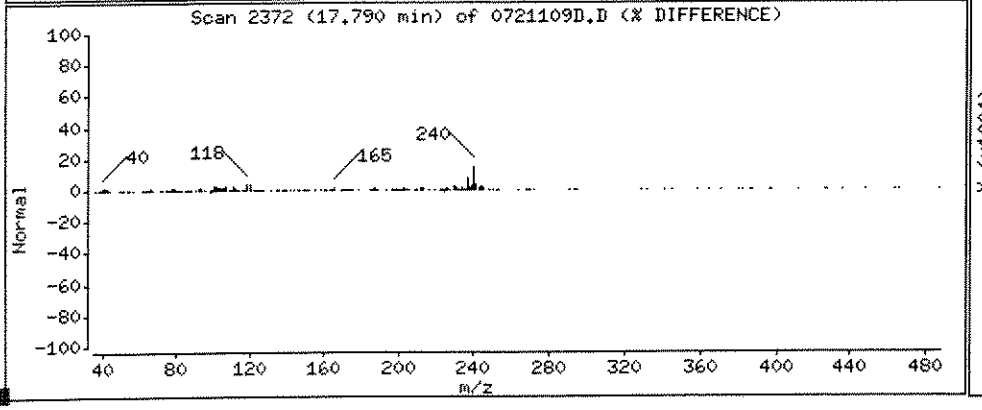
Column phase: fused silica Column diameter: 0.25

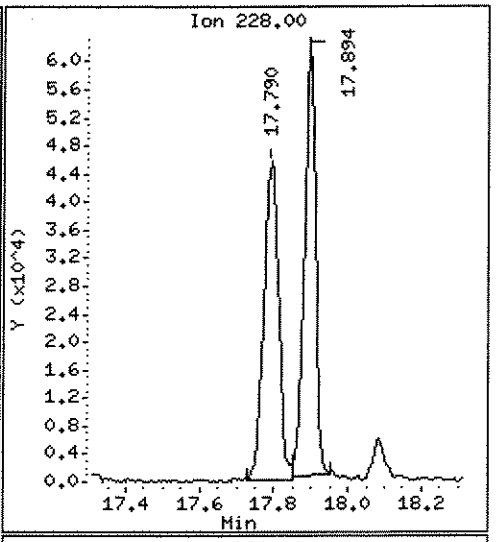
130 Benzo(a)anthracene Concentration: 17140 UG/KG

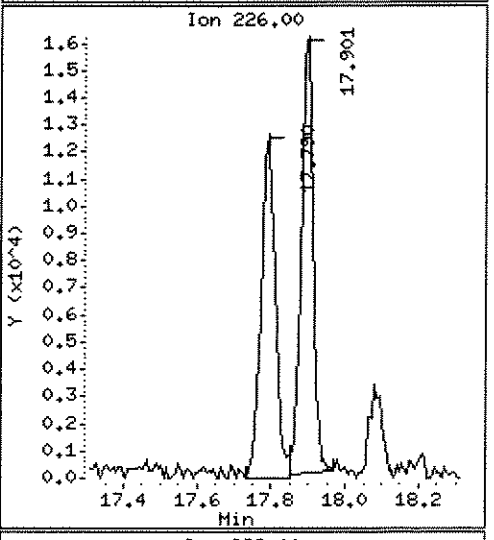


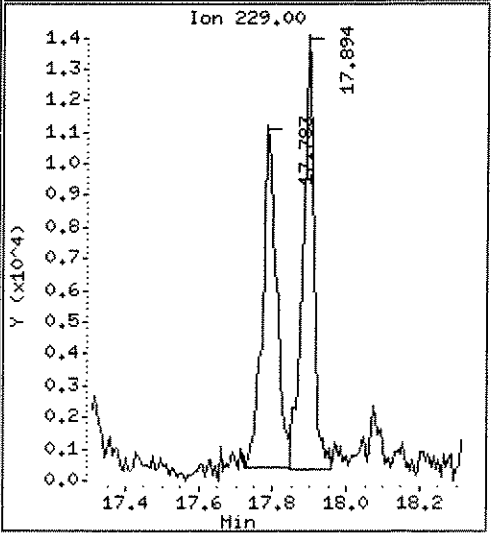












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

Client ID: 51CFM15S060725

Instrument: bna1.i

Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

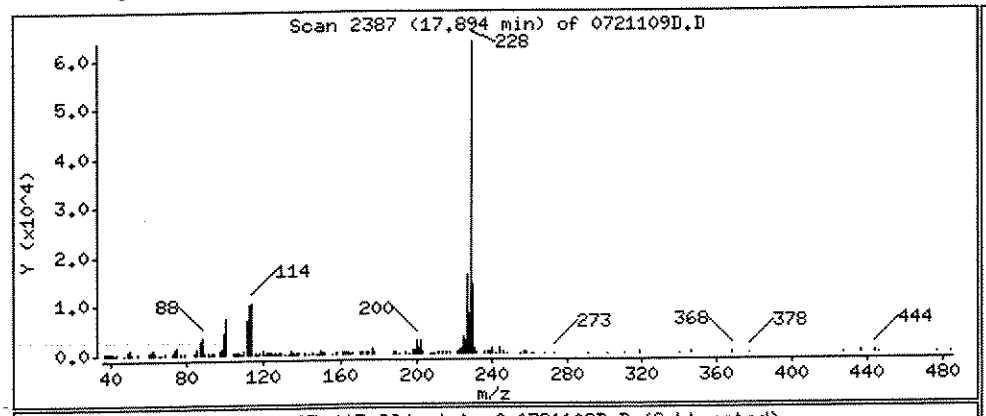
Operator: SDB

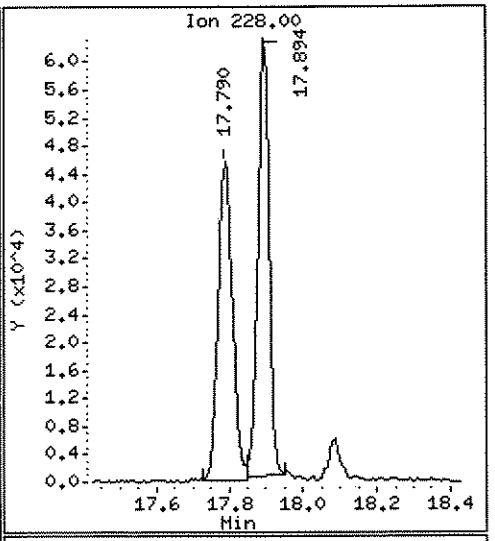
Column phase: fused silica

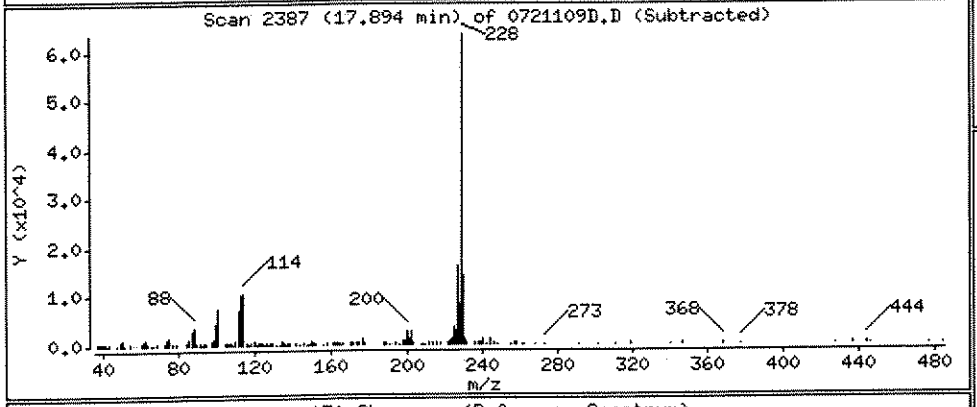
Column diameter: 0.25

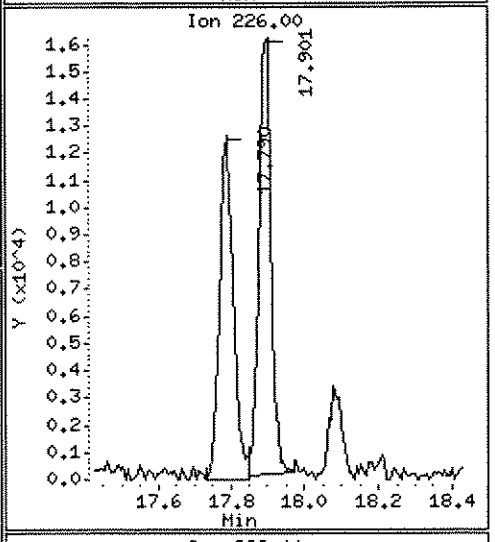
131 Chrysene

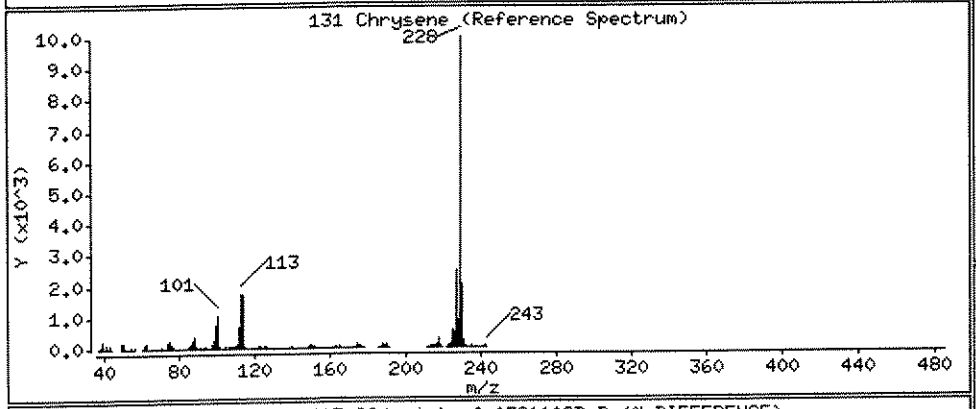
Concentration: 19650 UG/KG

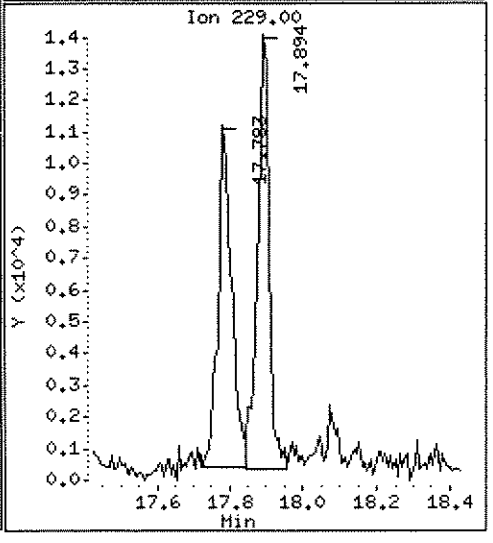


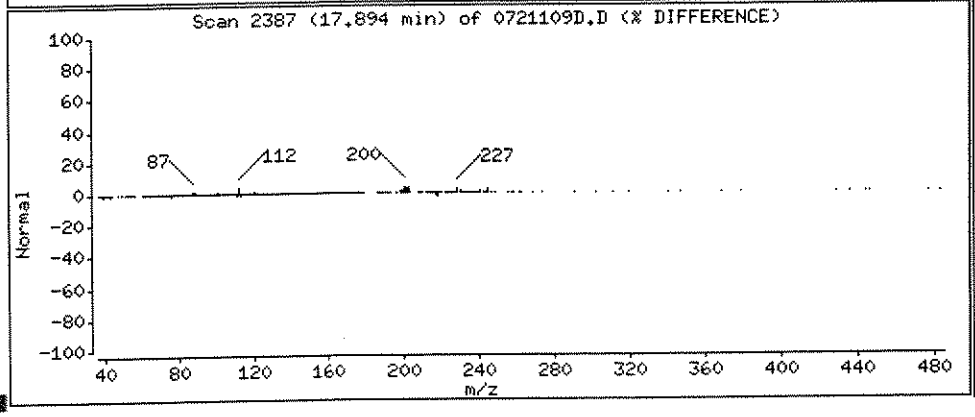












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

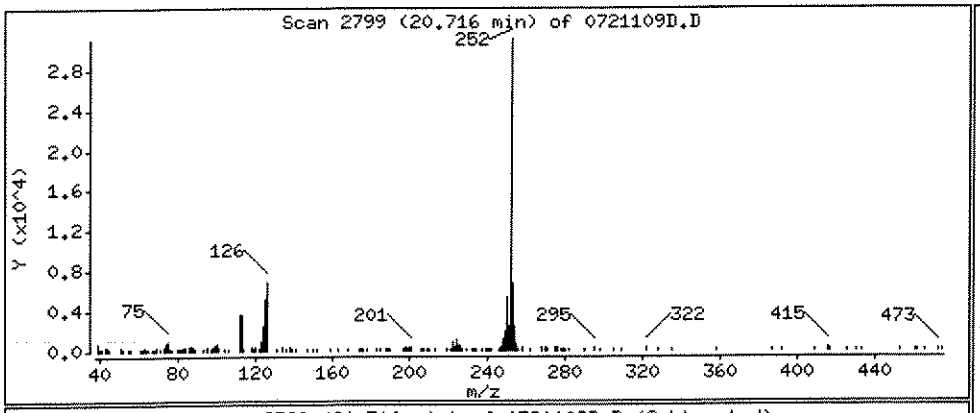
Client ID: 51CFM15S060725 Instrument: bna1.i

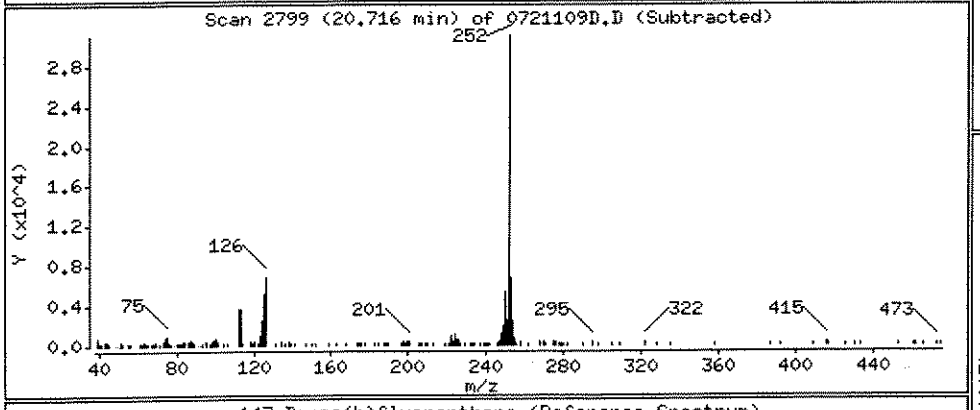
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

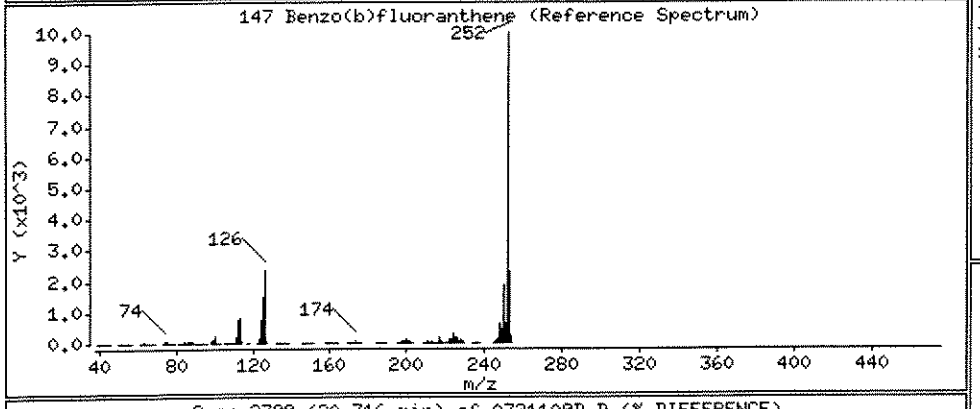
Volume Injected (uL): 0.5 Operator: SDB

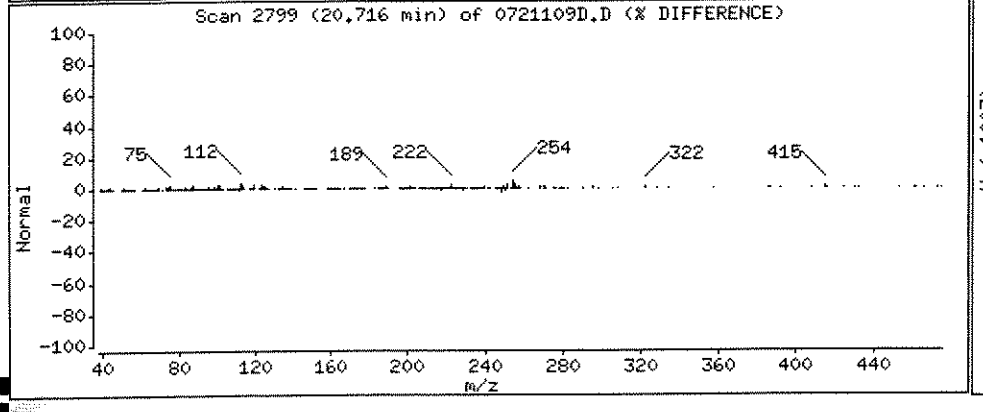
Column phase: fused silica Column diameter: 0.25

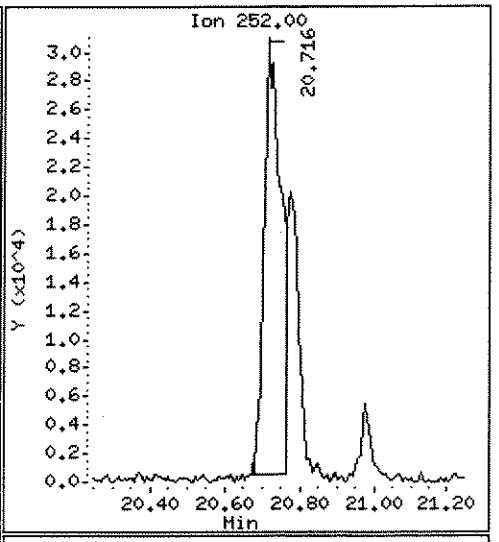
147 Benzo(b)fluoranthene Concentration: 21800 UG/KG

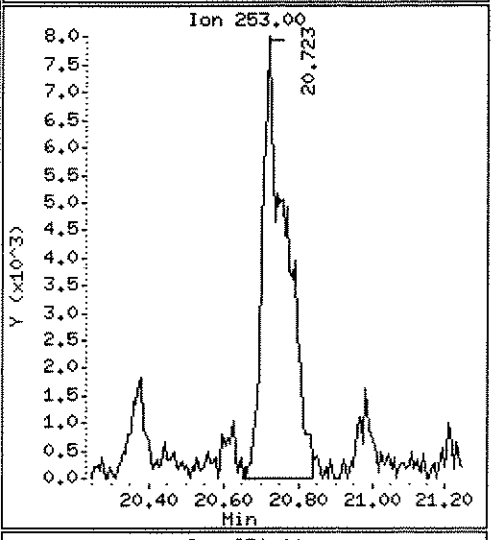


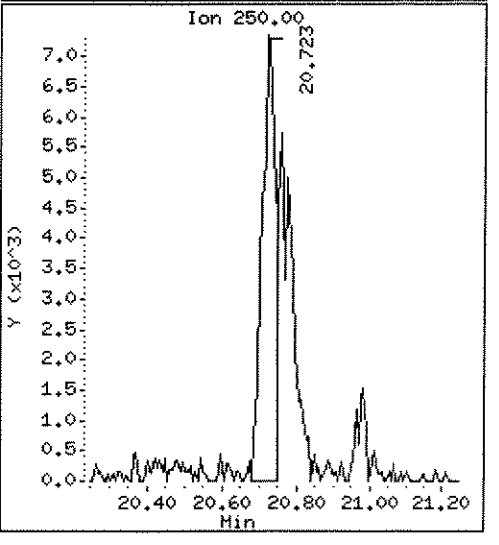












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

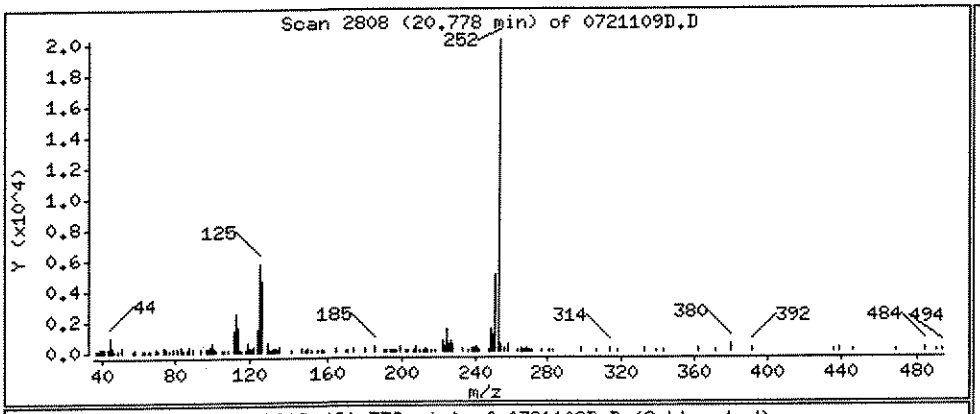
Client ID: 51CFM15S060725 Instrument: bna1.i

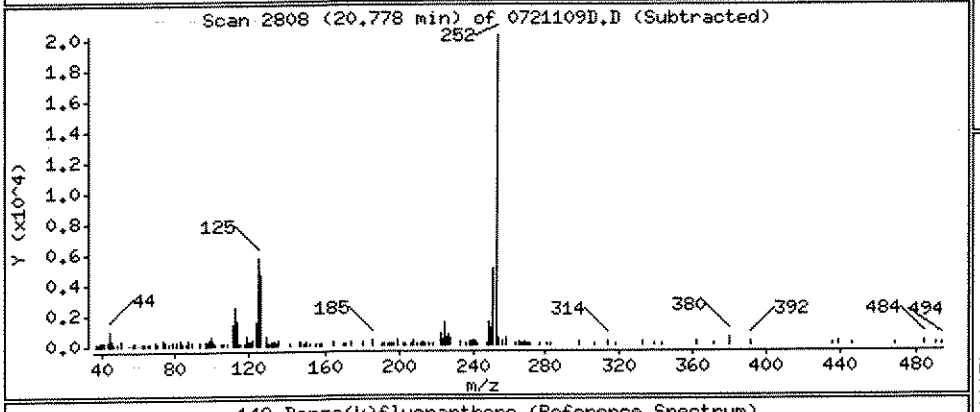
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

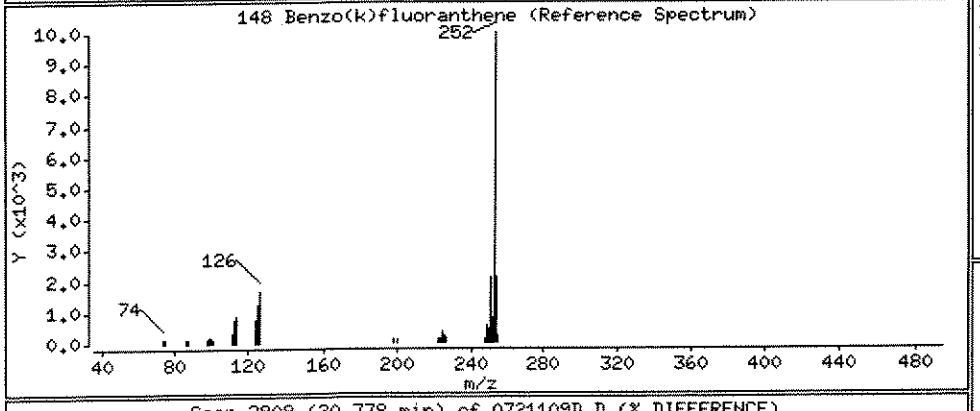
Volume Injected (uL): 0.5 Operator: SDB

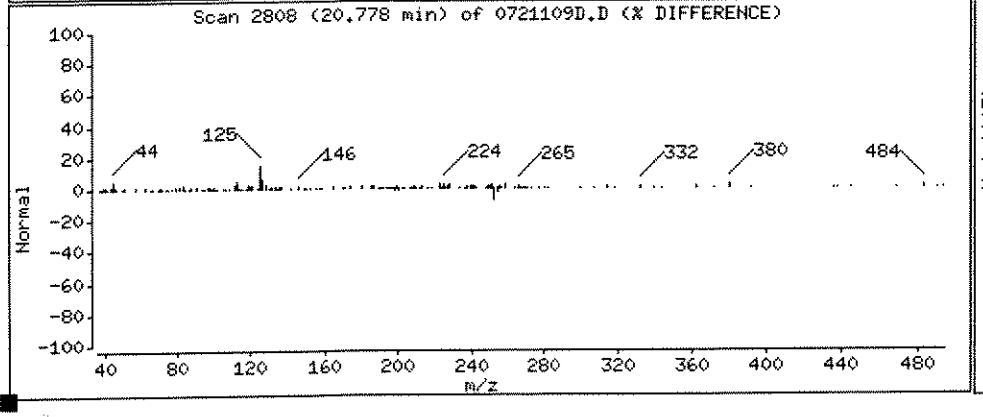
Column phase: fused silica Column diameter: 0.25

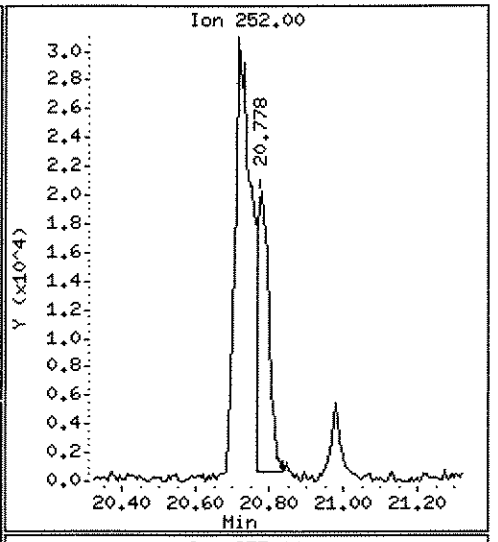
148 Benzo(k)fluoranthene Concentration: 10100 UG/KG

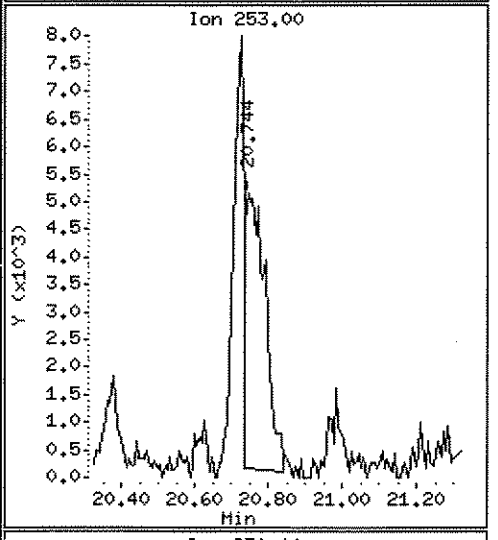


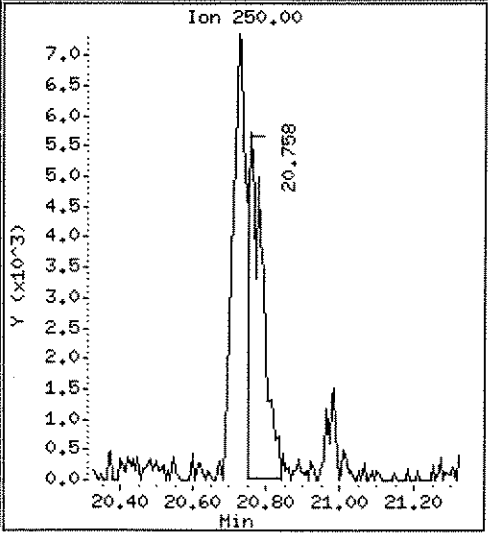












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

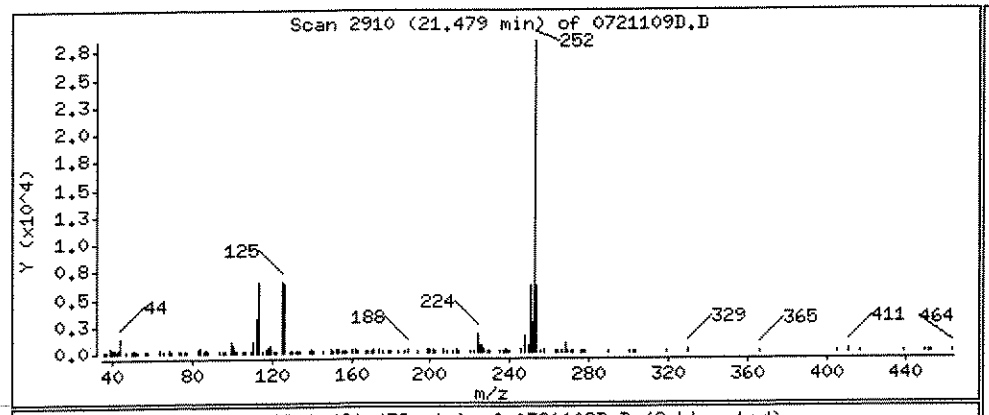
Client ID: 51CFM15S060725 Instrument: bna1.i

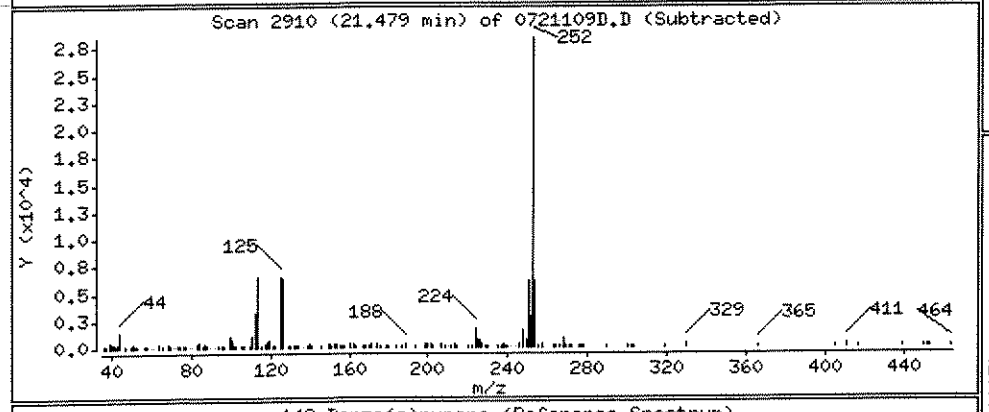
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

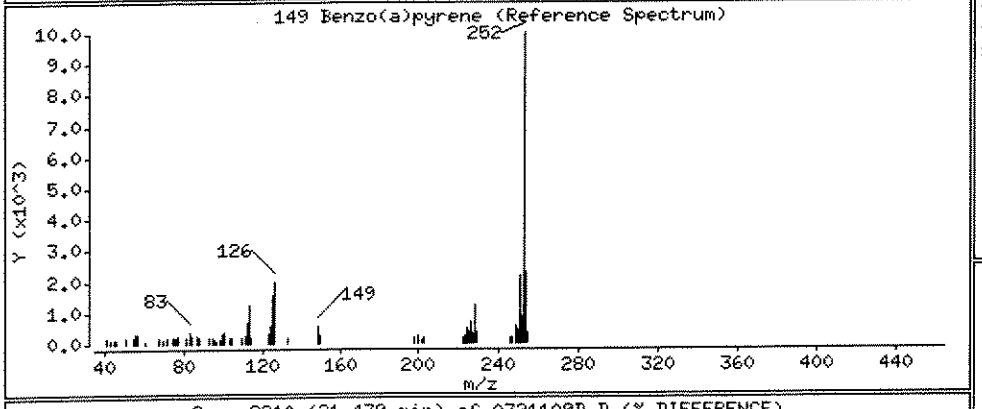
Volume Injected (uL): 0.5 Operator: SDB

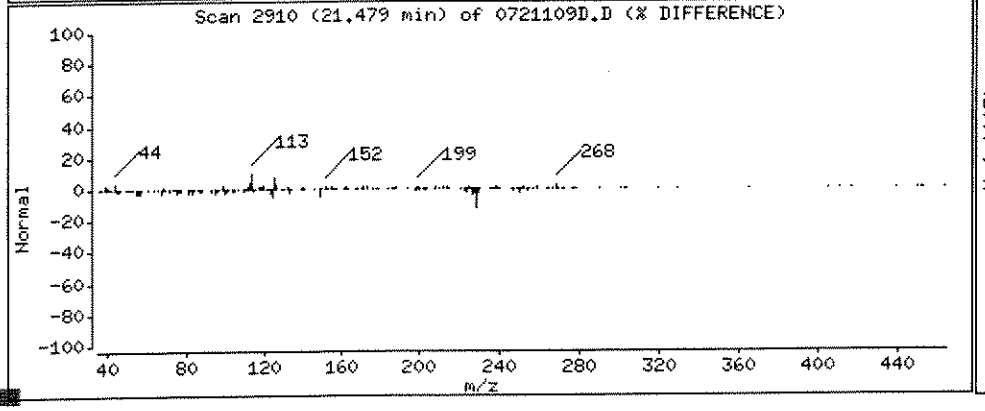
Column phase: fused silica Column diameter: 0.25

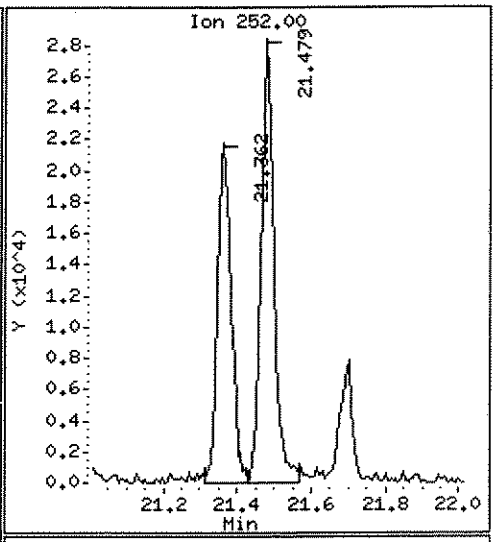
149 Benzo(a)pyrene Concentration: 18820 UG/KG

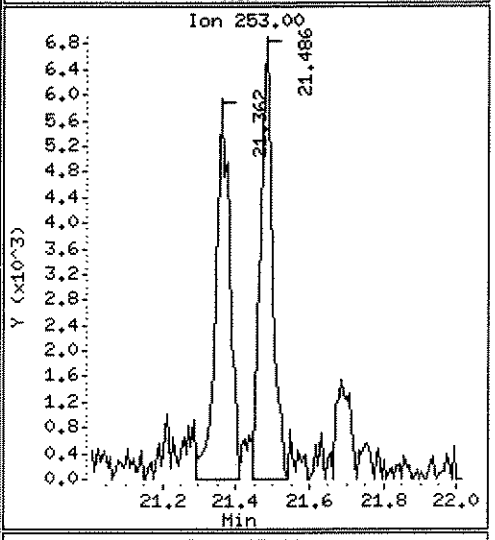


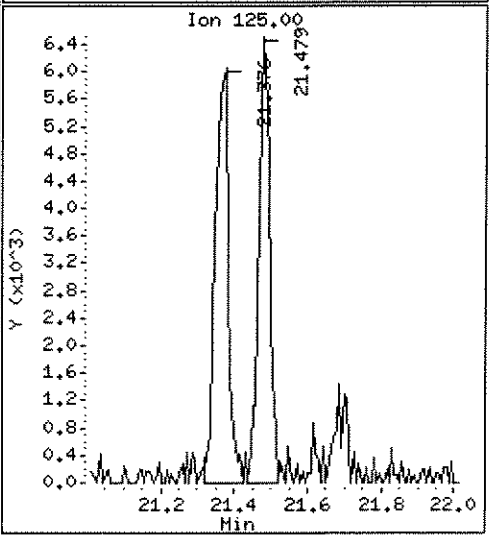












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

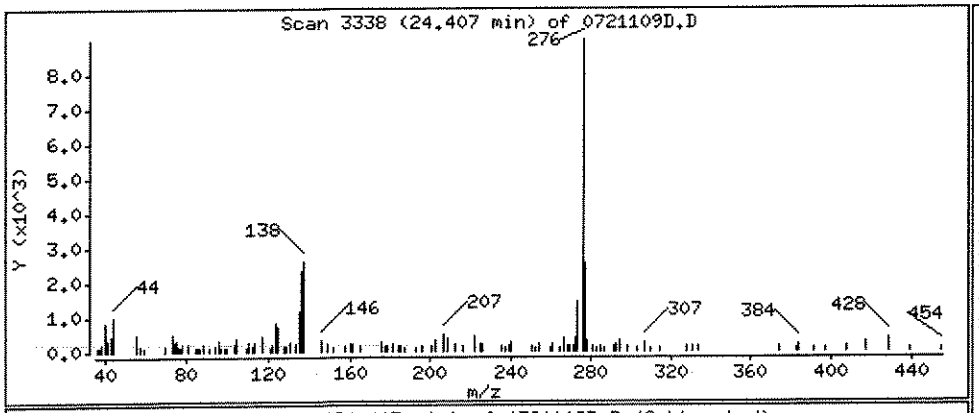
Client ID: 51CFM15S060725 Instrument: bna1.i

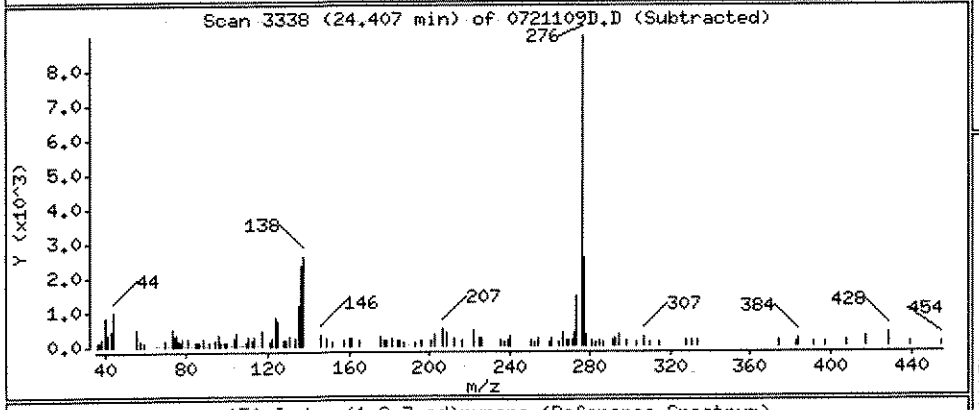
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

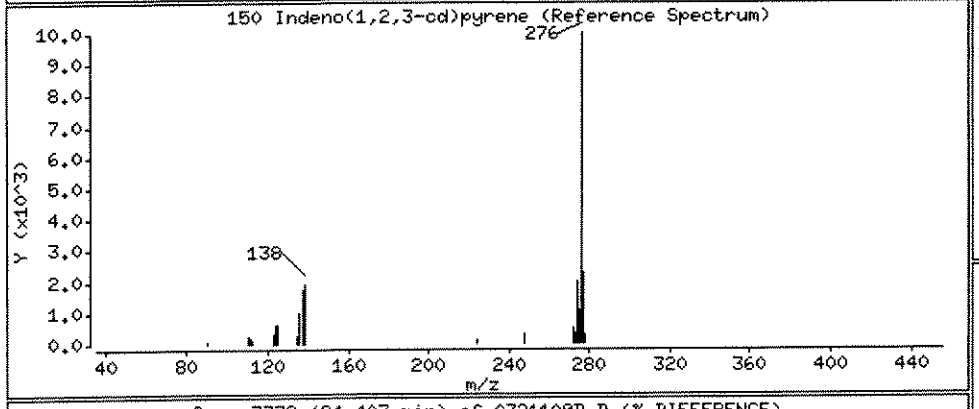
Volume Injected (uL): 0.5 Operator: SDB

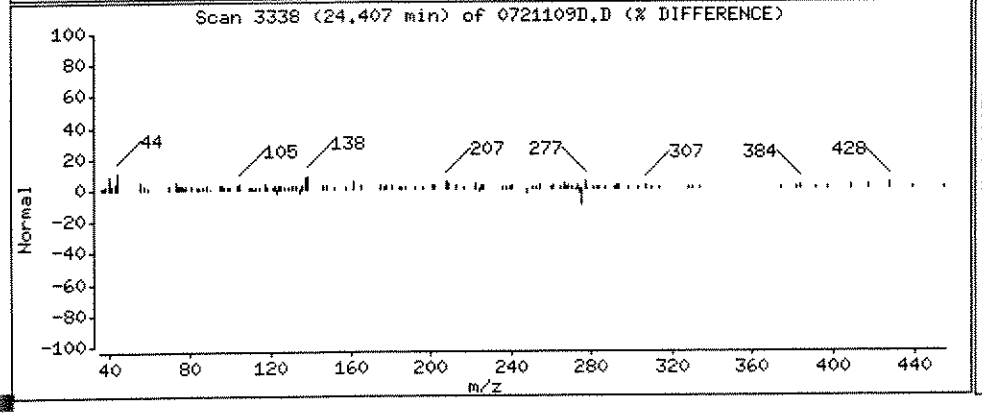
Column phase: fused silica Column diameter: 0.25

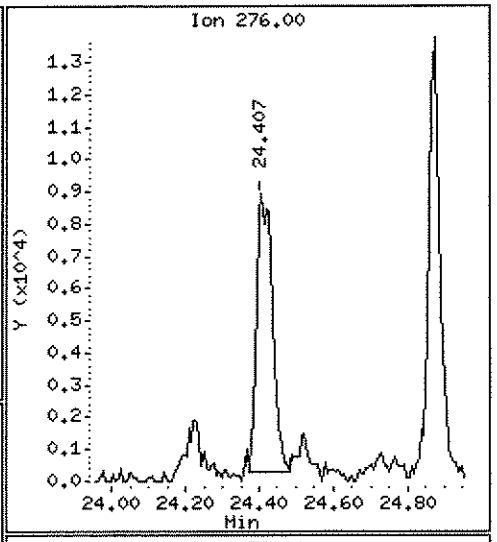
150 Indeno(1,2,3-cd)pyrene Concentration: 8052 UG/KG

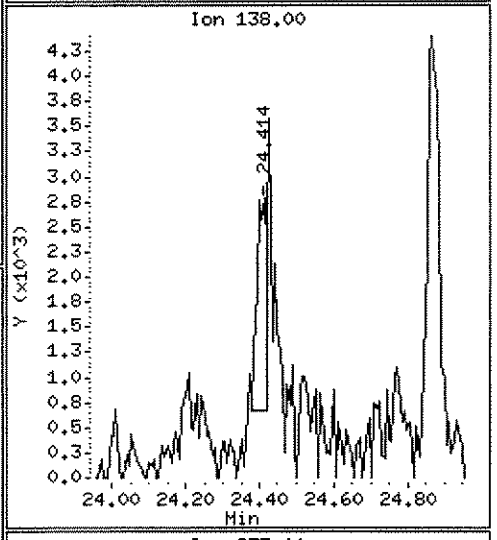


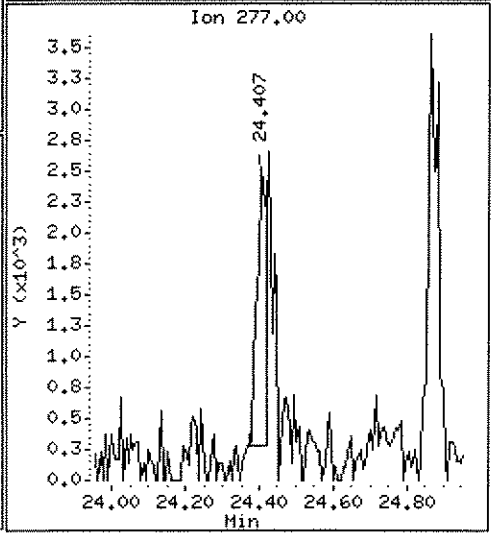












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D

Date : 27-JUL-2006 16:12

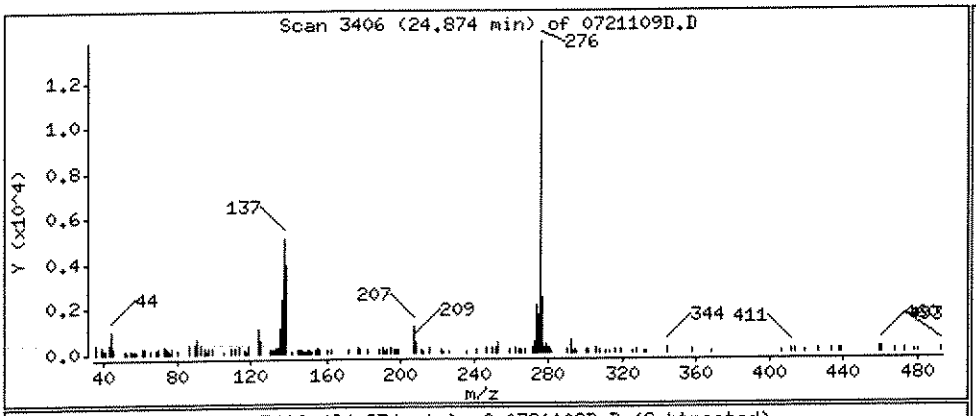
Client ID: 51CFM15S060725 Instrument: bna1.i

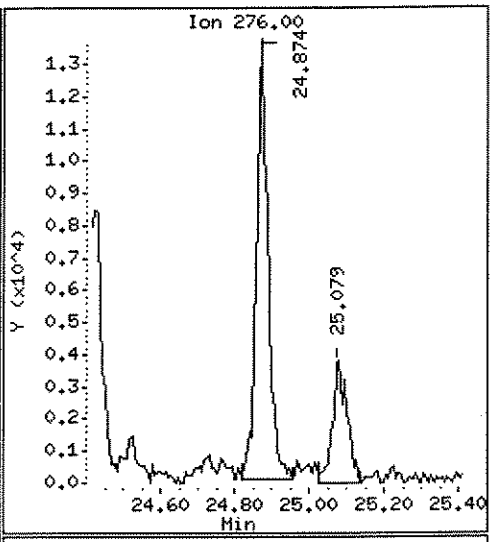
Sample Info: 0607211-09;15.2;500;1;UG/KG;26-JUL-2006

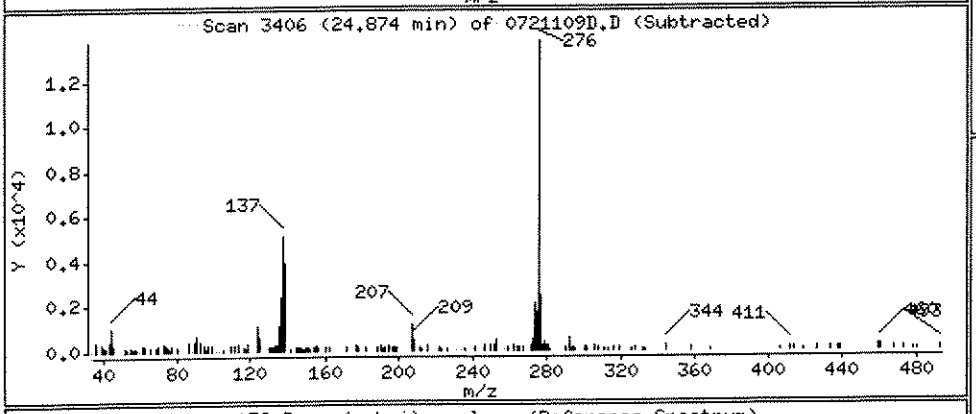
Volume Injected (uL): 0.5 Operator: SDB

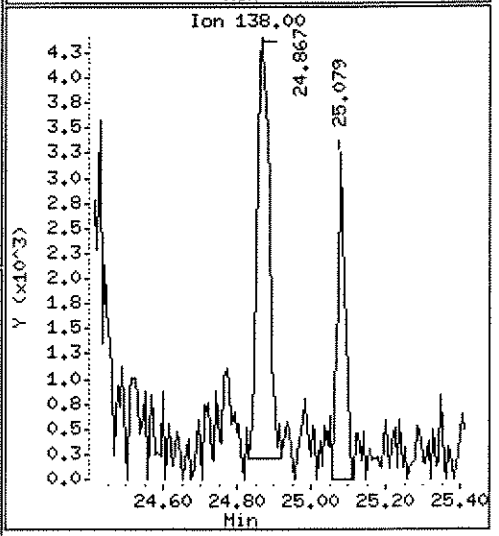
Column phase: fused silica Column diameter: 0.25

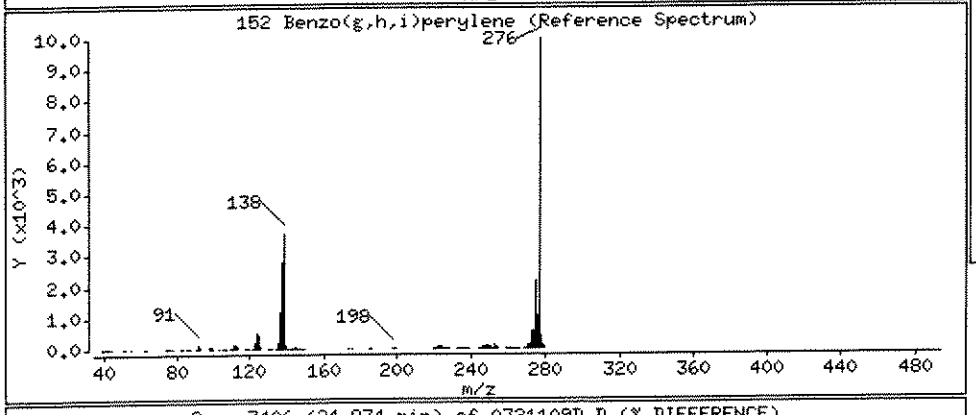
152 Benzo(g,h,i)perylene Concentration: 9267 UG/KG

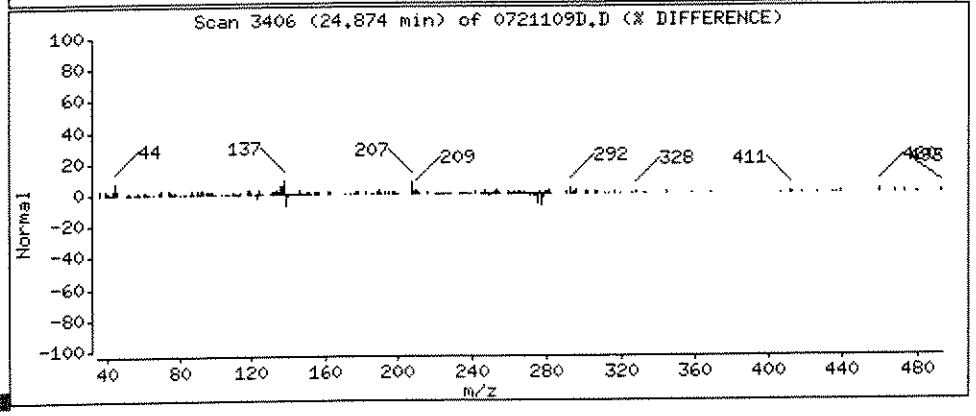












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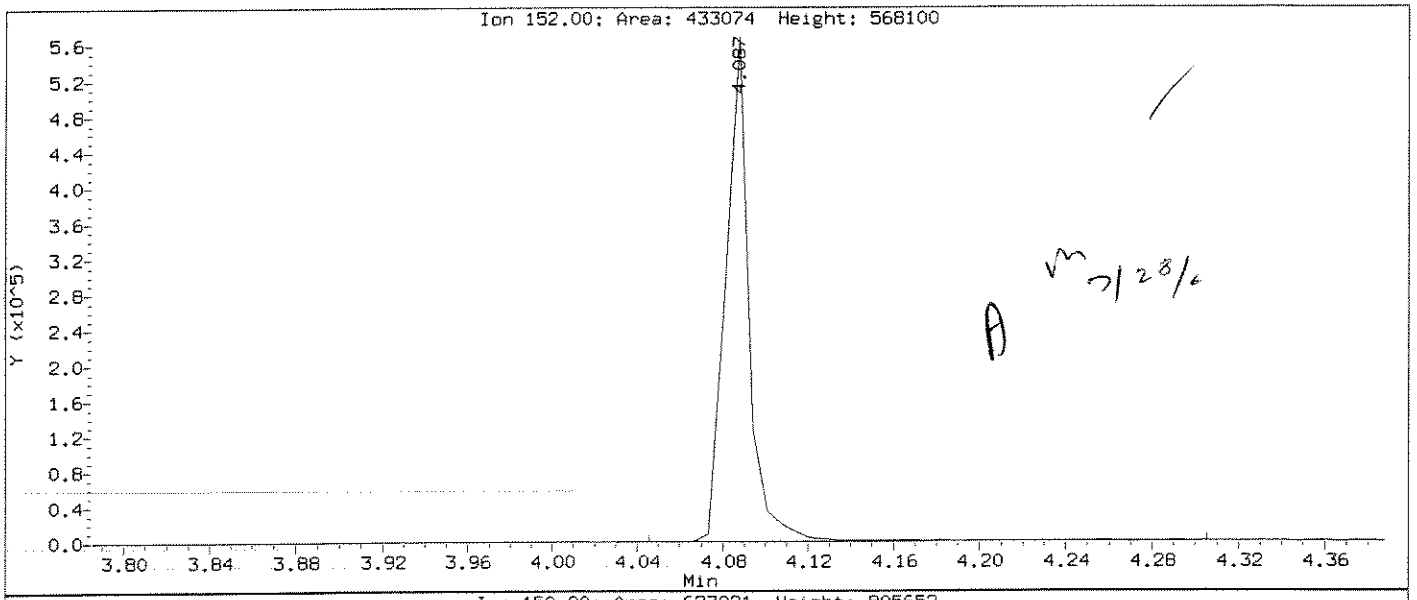
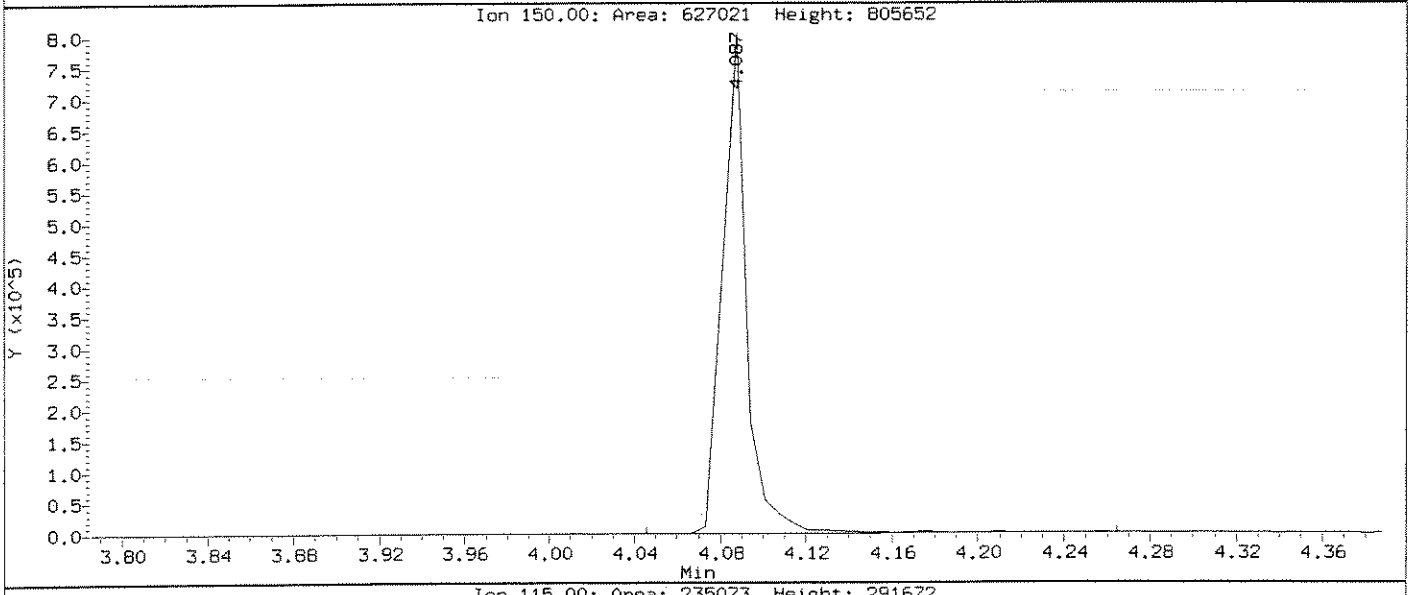
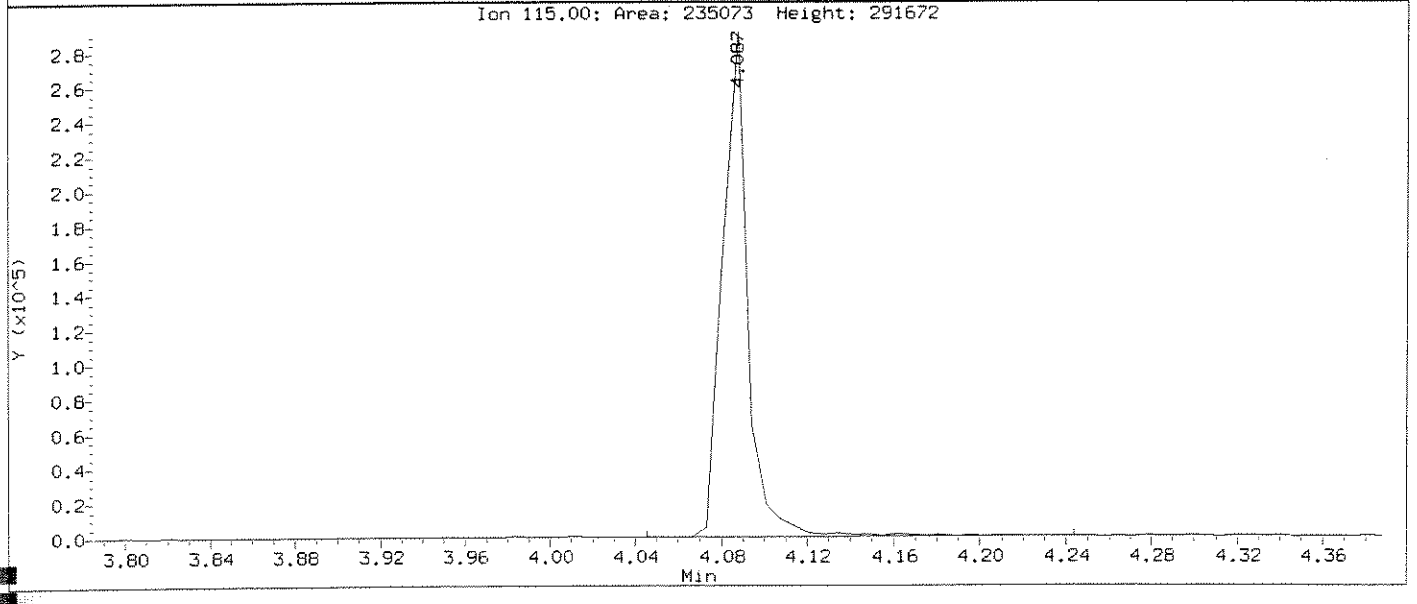
Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721109D.D
Injection Date: 27-JUL-2006 16:12
Instrument: bna1.i
Client Sample ID: 51CFM15S060725

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1







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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721110

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 20:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	180	26	J
208-96-8	Acenaphthylene	21	180		U
120-12-7	Anthracene	21	180	62	J
56-55-3	Benzo(a)anthracene	21	180	510	
205-99-2	Benzo(b)fluoranthene	21	180	810	
207-08-9	Benzo(k)fluoranthene	21	180	390	
191-24-2	Benzo(g,h,i)perylene	21	180	150	J
50-32-8	Benzo(a)pyrene	21	110	540	
218-01-9	Chrysene	21	180	710	
53-70-3	Dibenz(a,h)anthracene	21	110	46	J
206-44-0	Fluoranthene	21	180	870	
86-73-7	Fluorene	21	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	21	180	180	
91-57-6	2-Methylnaphthalene	21	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-20-3	Naphthalene	21	180		U
85-01-8	Phenanthrene	21	180	550	
129-00-0	Pyrene	21	180	890	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D
Report Date: 27-Jul-2006 09:06

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Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D
Lab Smp Id: 0607211-10 Client Smp ID: 51CFM16S060725
Inj Date : 26-JUL-2006 20:55
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-10;15.3;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	92.200	Percent Solids

1/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.120	4.120	(1.000)	559793	40.0000	
* 31 Naphthalene-d8	136	5.088	5.088	(1.000)	1779952	40.0000	
$ 32 Nitrobenzene-d5	82	4.546	4.553	(0.893)	597369	30.7440	1090
* 65 Acenaphthene-d10	164	7.384	7.382	(1.000)	948276	40.0000	
$ 70 2-Fluorobiphenyl	172	6.338	6.345	(0.858)	814099	26.9774	956.2
76 Acenaphthene	153	7.432	7.437	(1.006)	19959	0.72929	25.85(a)
* 97 Phenanthrene-d10	188	10.597	10.583	(1.000)	1224655	40.0000	
106 Phenanthrene	178	10.653	10.645	(1.005)	546388	15.6479	554.6
107 Anthracene	178	10.749	10.755	(1.014)	60060	1.74224	61.75(a)
110 Fluoranthene	202	13.841	13.814	(1.306)	852336	24.6555	873.9
* 124 Chrysene-d12	240	17.972	17.933	(1.000)	753795	40.0000	
126 Pyrene	202	14.413	14.390	(0.802)	757010	25.1465	891.3
$ 127 Terphenyl-d14	244	15.195	15.177	(0.845)	709333	37.2660	1321

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D
Report Date: 27-Jul-2006 09:06

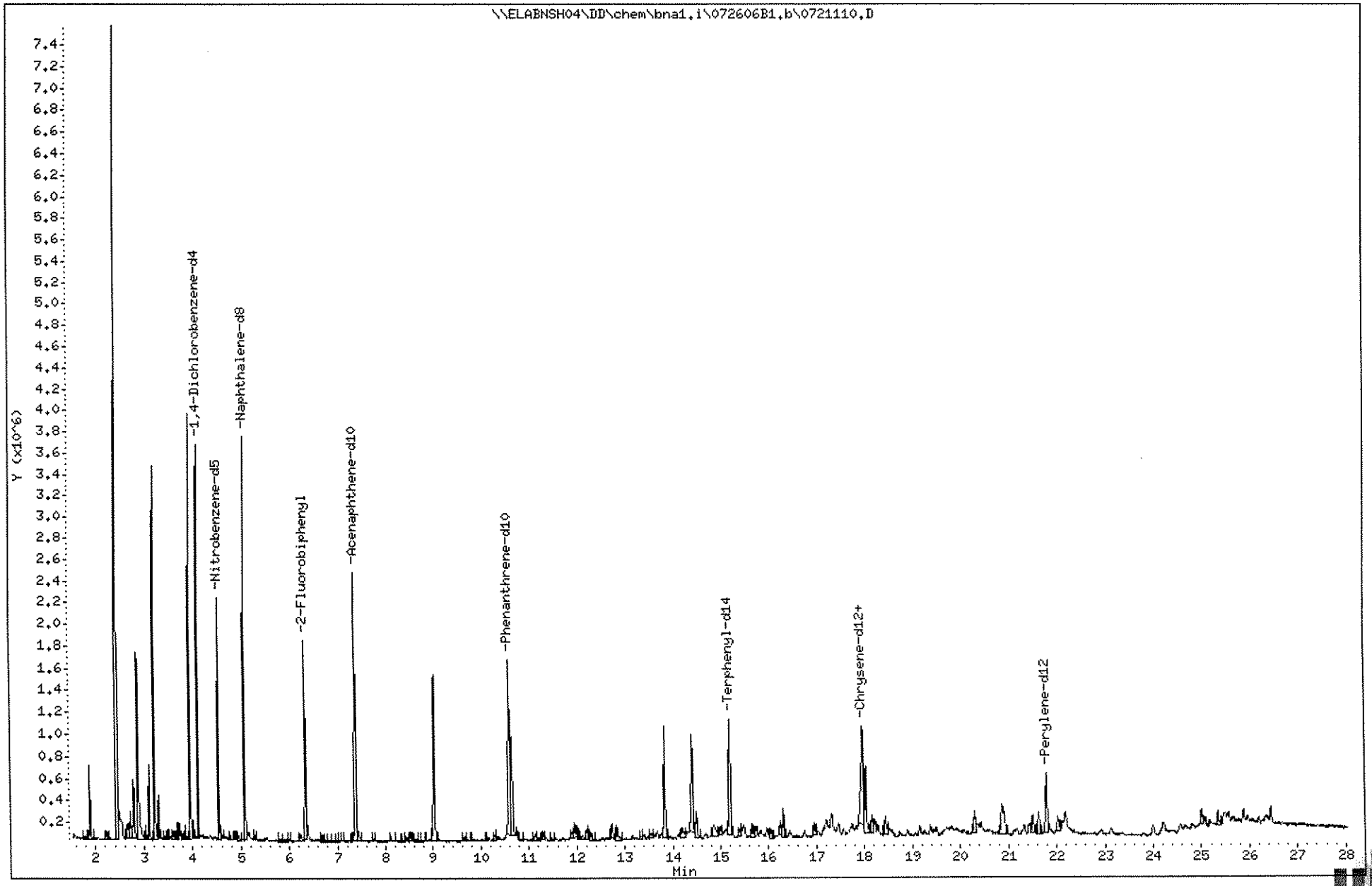
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
130 Benzo(a)anthracene	228	17.923	17.885	(0.997)	352239	14.5030	514.0
131 Chrysene	228	18.035	18.002	(1.003)	443113	19.9754	708.0
* 145 Perylene-d12	264	21.794	21.736	(1.000)	437645	40.0000	
147 Benzo(b)fluoranthene	252	20.868	20.823	(0.958)	308442	22.8791	810.9(M)
148 Benzo(k)fluoranthene	252	20.917	20.893	(0.960)	155124	11.0906	393.1(M)
149 Benzo(a)pyrene	252	21.634	21.584	(0.993)	178572	15.3610	544.5
150 Indeno(1,2,3-cd)pyrene	276	24.573	24.521	(1.127)	51533	5.19576	184.2
151 Dibenz(a,h)anthracene	278	24.664	24.618	(1.132)	12830	1.28493	45.54(a)
152 Benzo(g,h,i)perylene	276	25.000	24.961	(1.147)	43832	4.25858	150.9(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D
Date : 26-JUL-2006 20:55
Client ID: 51CFM16S060725
Instrument: bna1.i
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000230



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Date : 26-JUL-2006 20:55

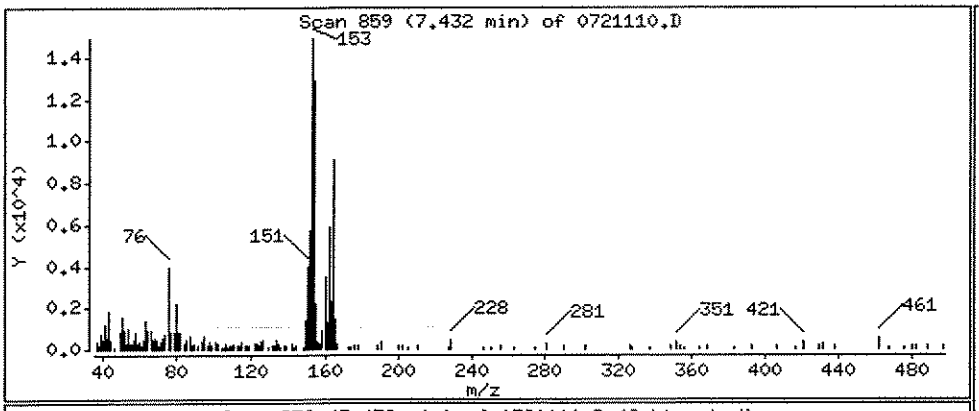
Client ID: 51CFM16S060725 Instrument: bna1.i

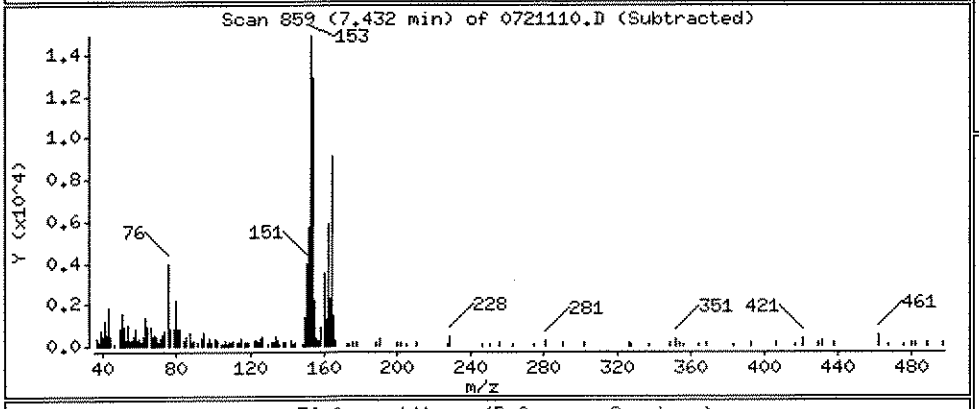
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

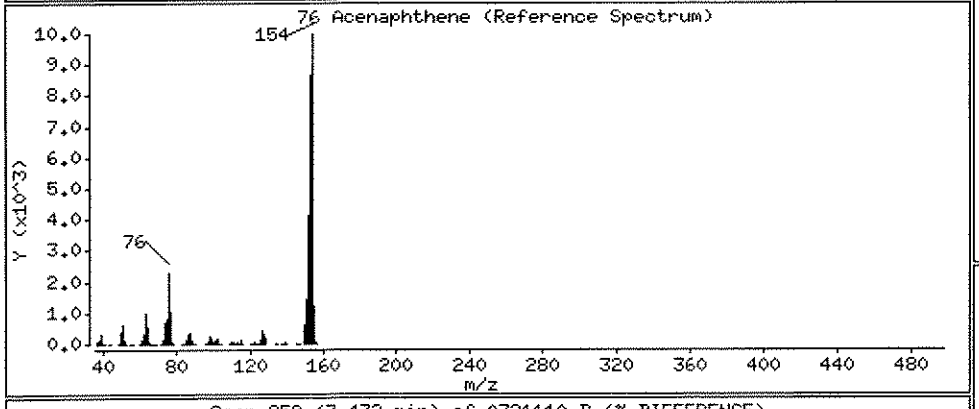
Volume Injected (uL): 0.5 Operator: SDB

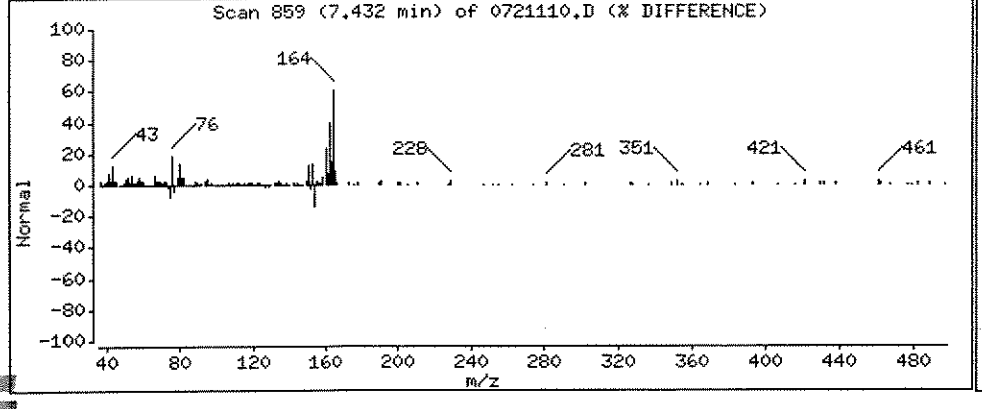
Column phase: fused silica Column diameter: 0.25

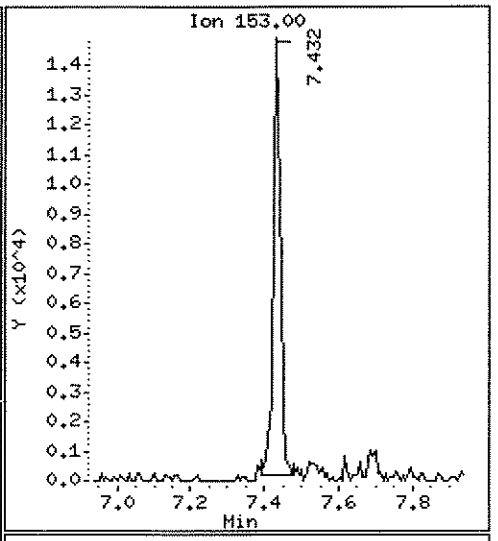
76 Acenaphthene Concentration: 23.83 UG/KG

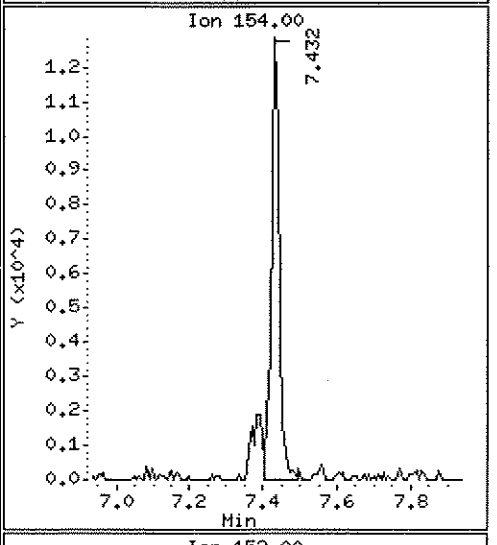


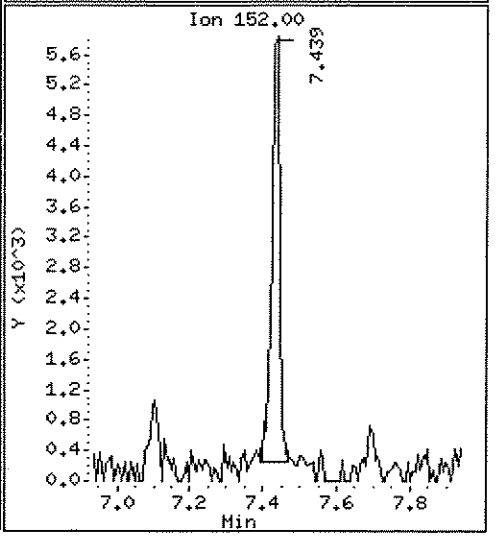












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Date : 26-JUL-2006 20:55

Client ID: 51CFM16S060725

Instrument: bna1.i

Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

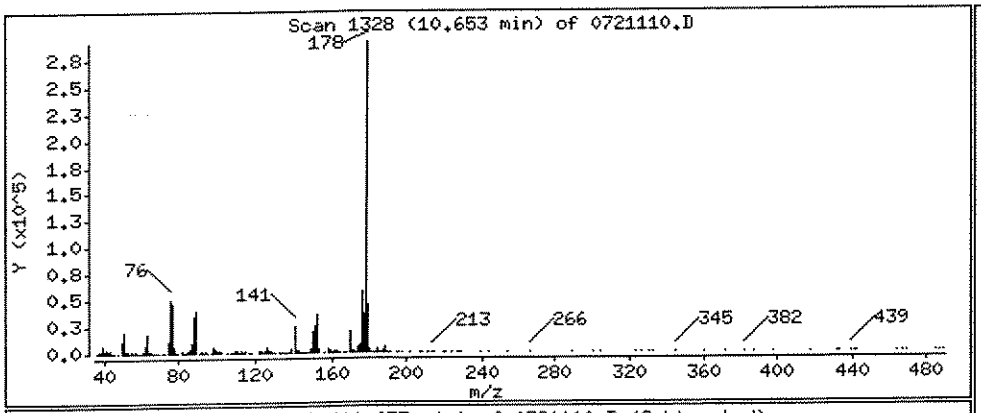
Operator: SDB

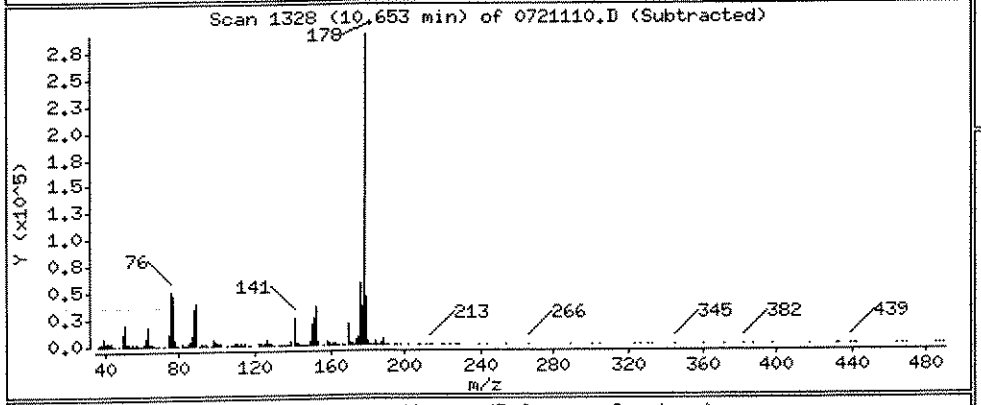
Column phase: fused silica

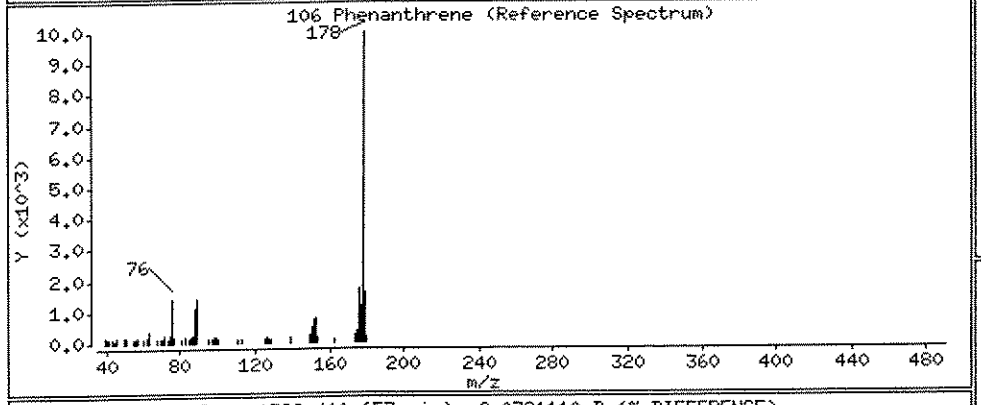
Column diameter: 0.25

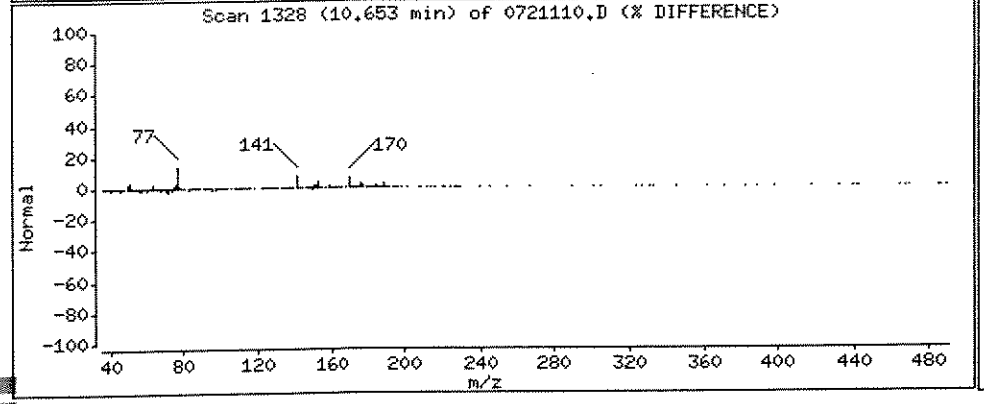
106 Phenanthrene

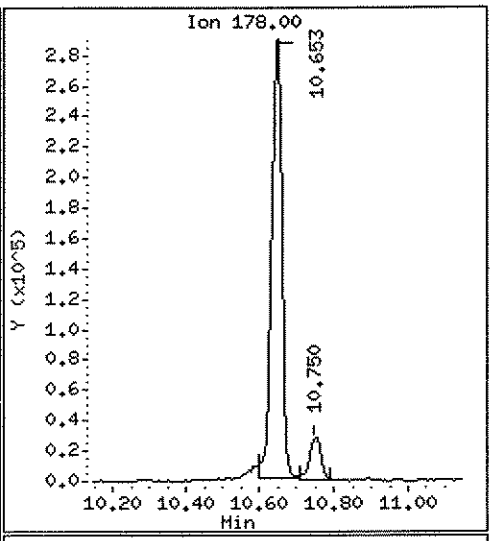
Concentration: 511.4 UG/KG

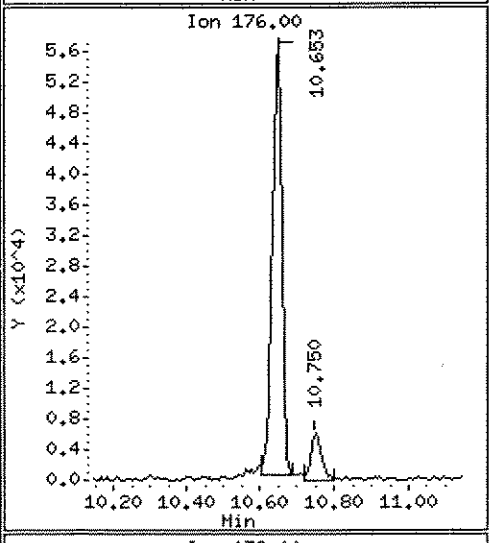


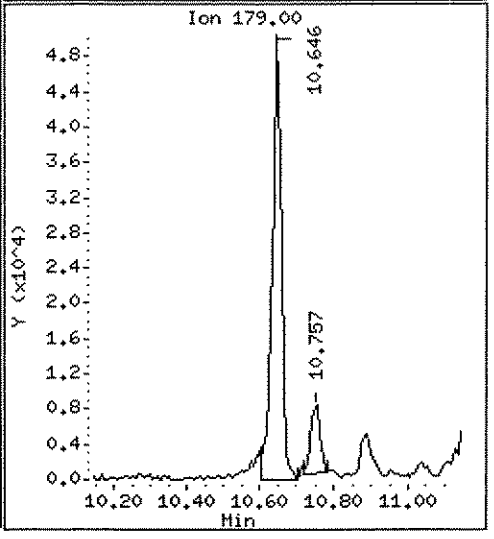












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Date : 26-JUL-2006 20:55

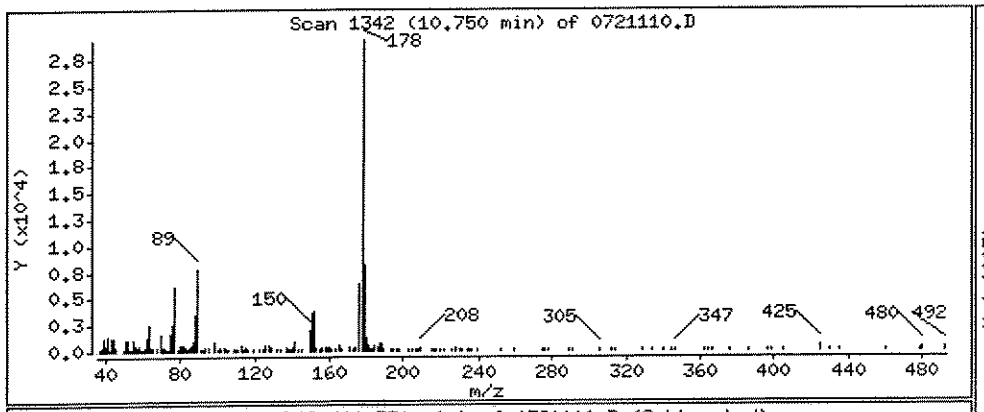
Client ID: 51CFM16S060725 Instrument: bna1.i

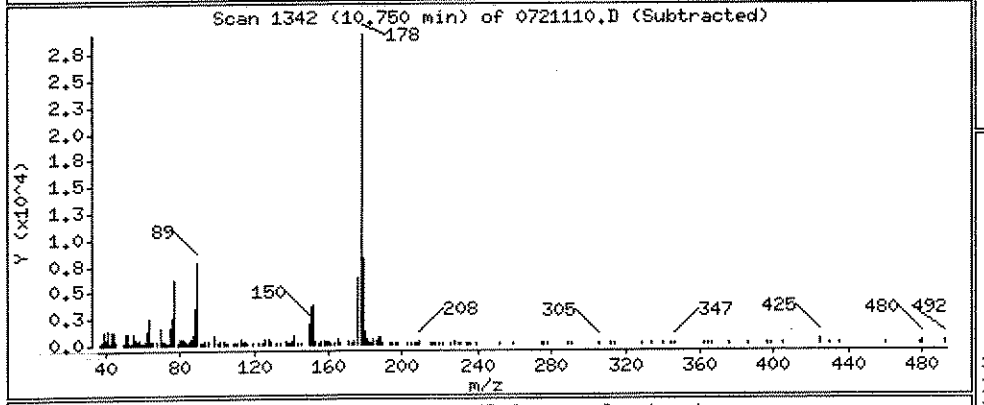
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

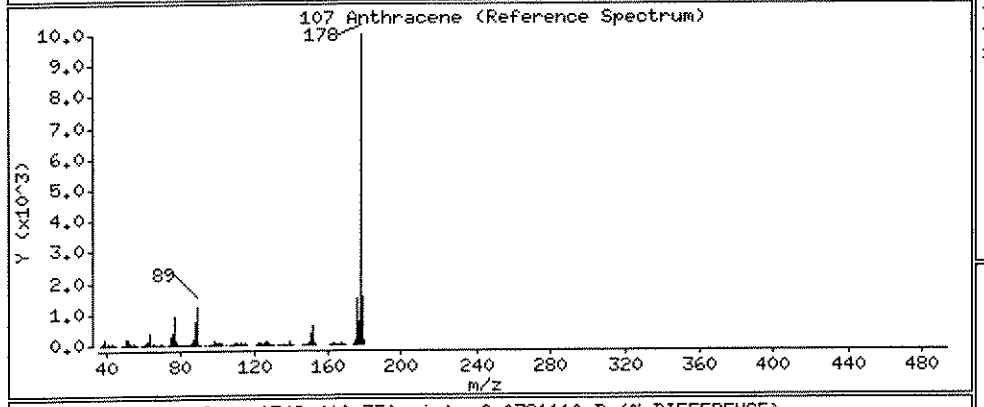
Volume Injected (uL): 0.5 Operator: SDB

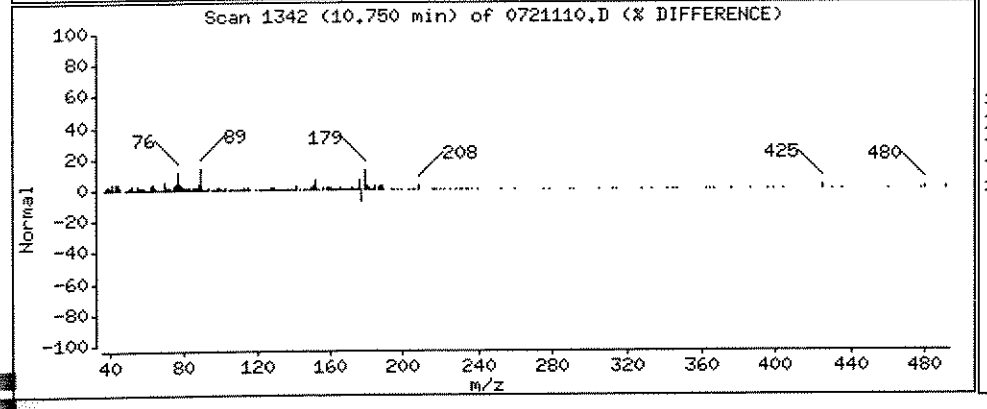
Column phase: fused silica Column diameter: 0.25

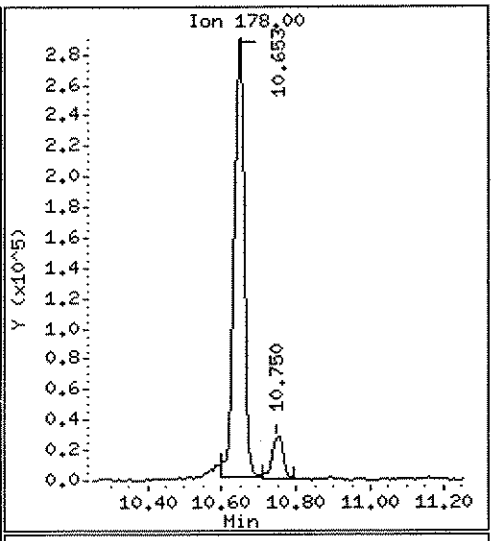
107 Anthracene Concentration: 56.94 UG/KG

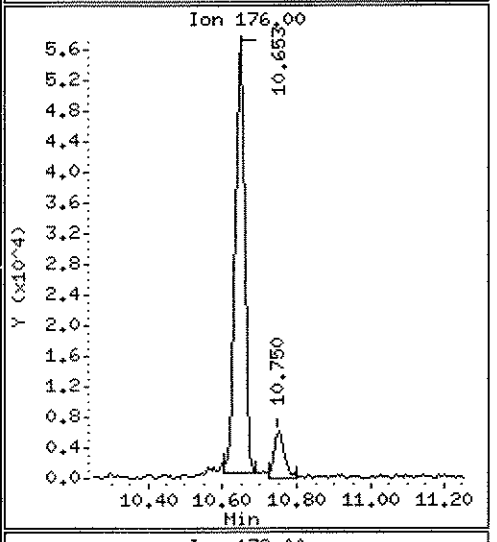


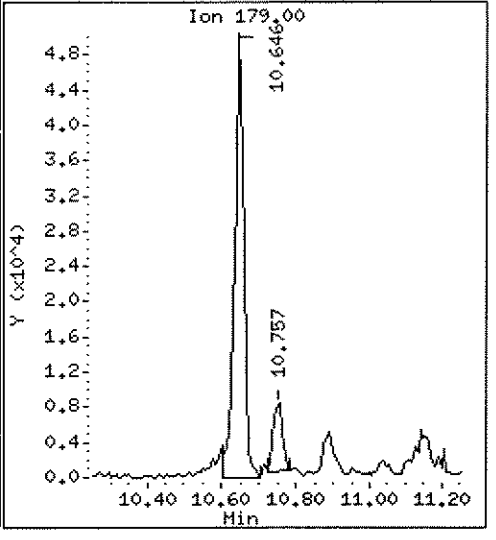












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Date : 26-JUL-2006 20:55

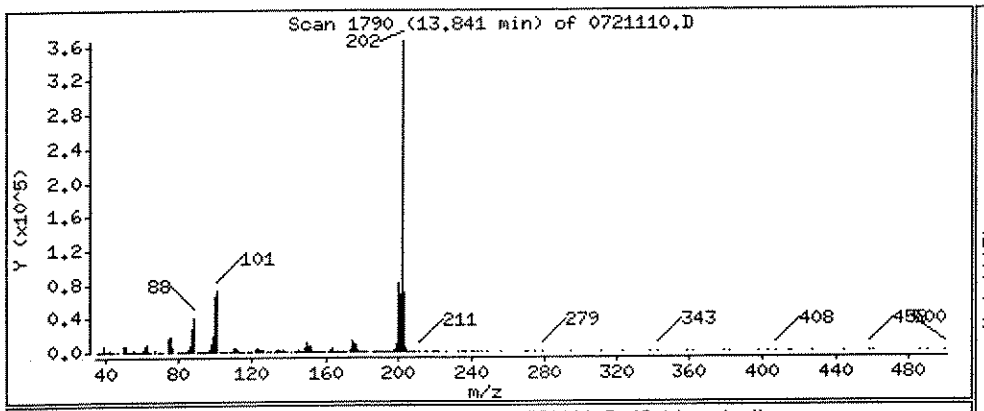
Client ID: 51CFM16S060725 Instrument: bna1.i

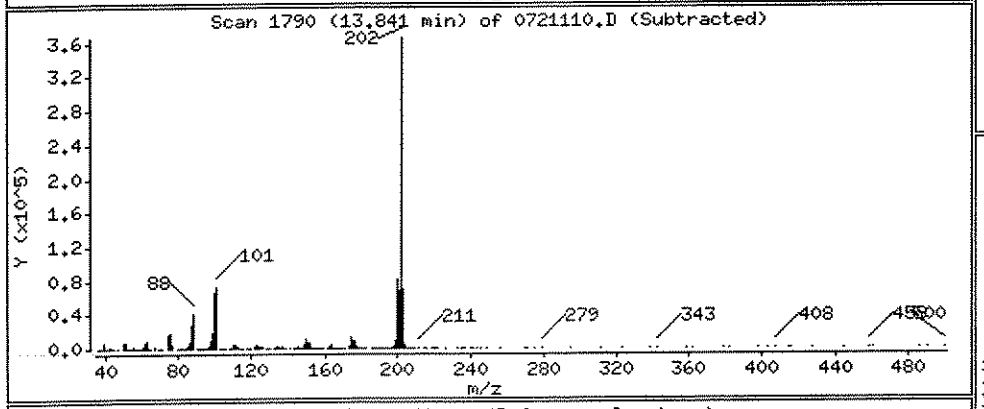
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

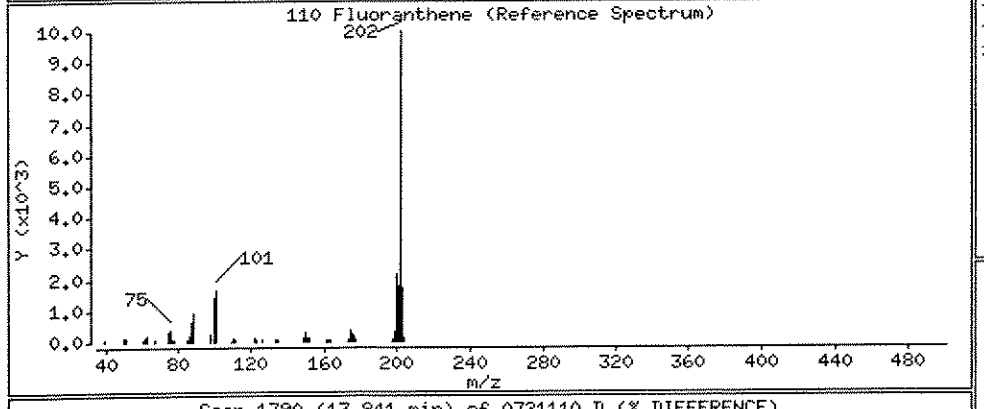
Volume Injected (uL): 0.5 Operator: SDB

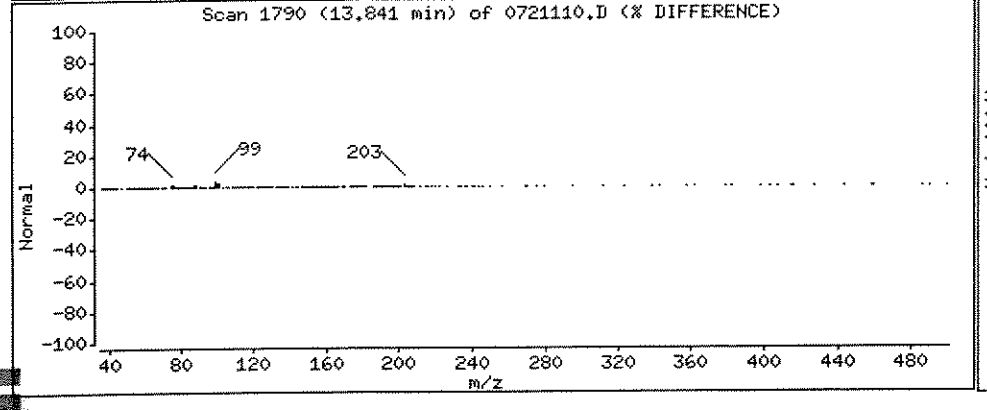
Column phase: fused silica Column diameter: 0.25

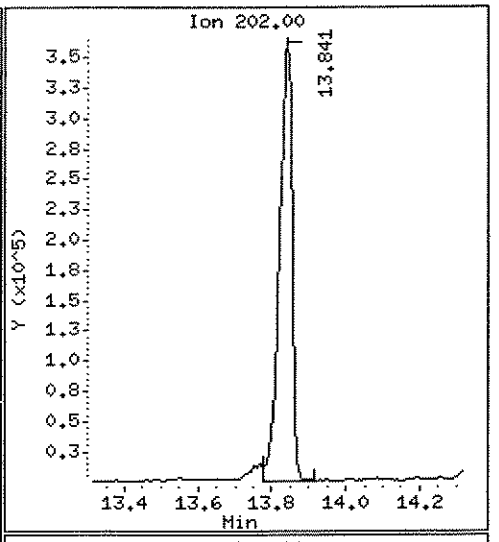
110 Fluoranthene Concentration: 805.7 UG/KG

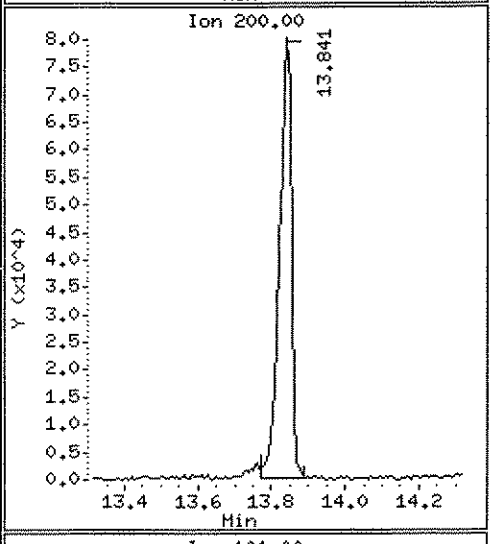


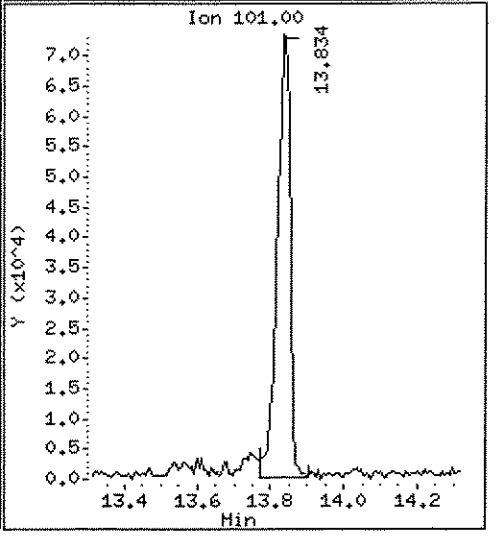












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Date : 26-JUL-2006 20:55

Client ID: 51CFM16S060725

Instrument: bna1.i

Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

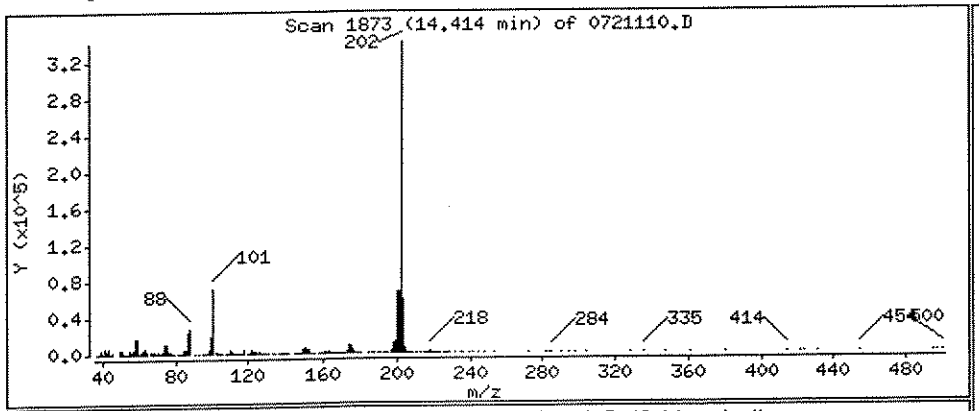
Operator: SDB

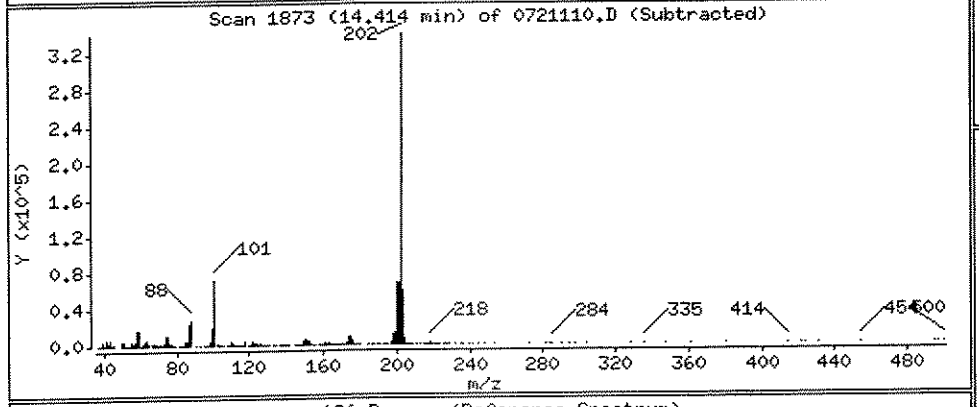
Column phase: fused silica

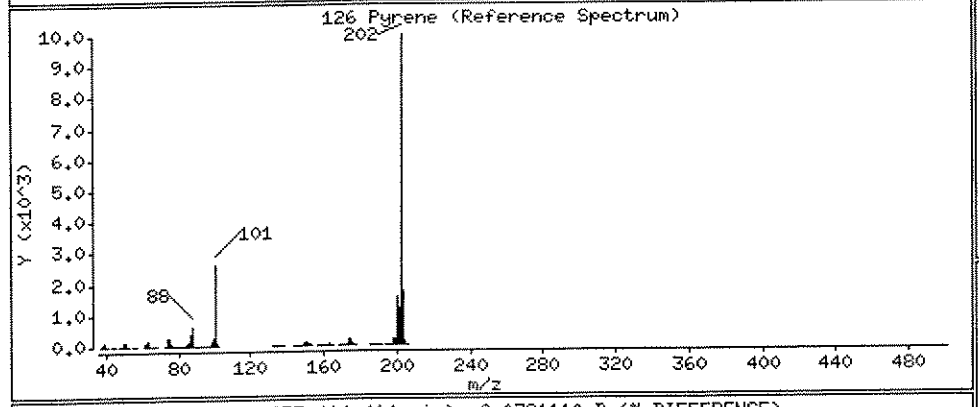
Column diameter: 0.25

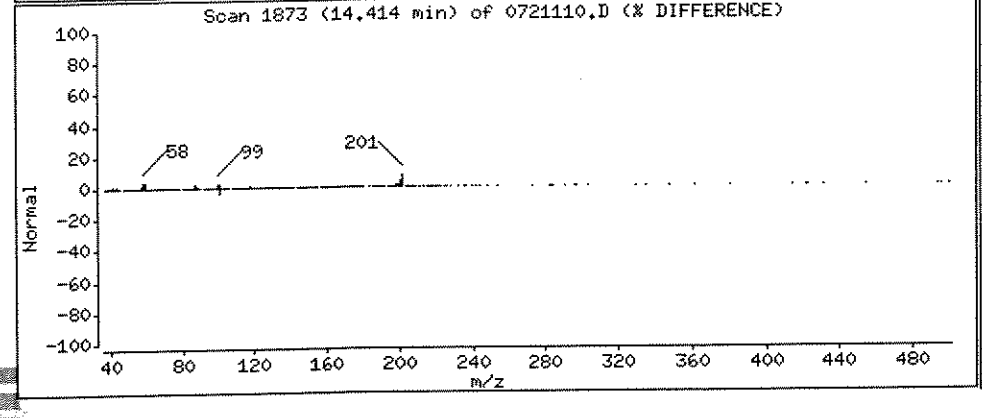
126 Pyrene

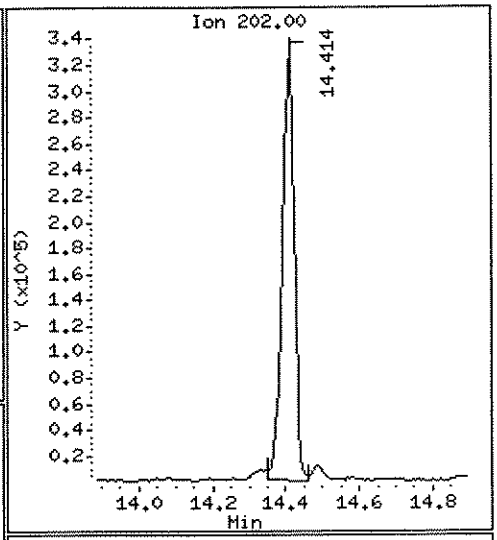
Concentration: 821.8 UG/KG

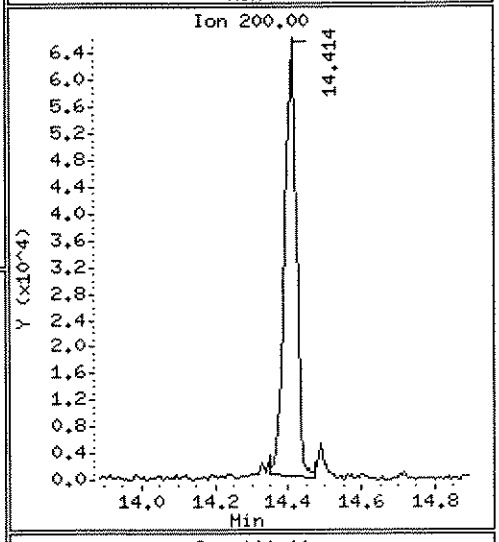


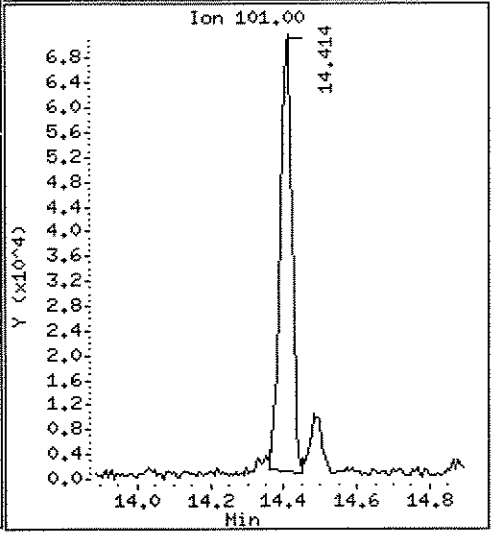












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Date : 26-JUL-2006 20:55

Client ID: 51CFM16S060725

Instrument: bna1.i

Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

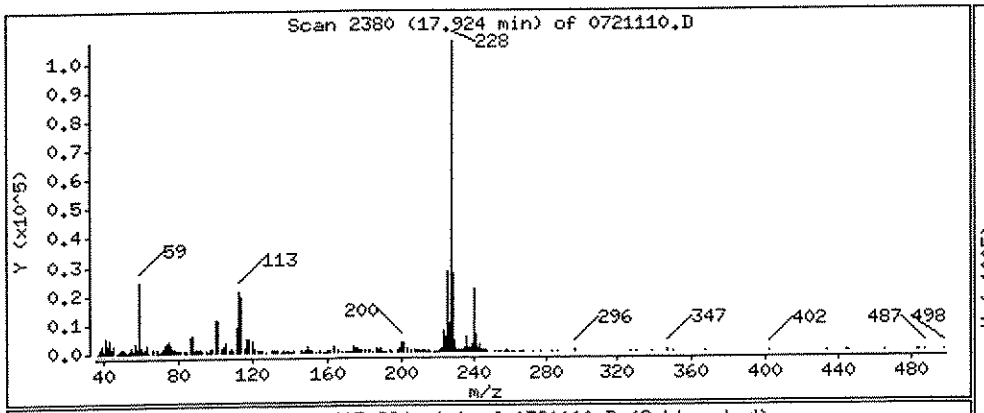
Operator: SDB

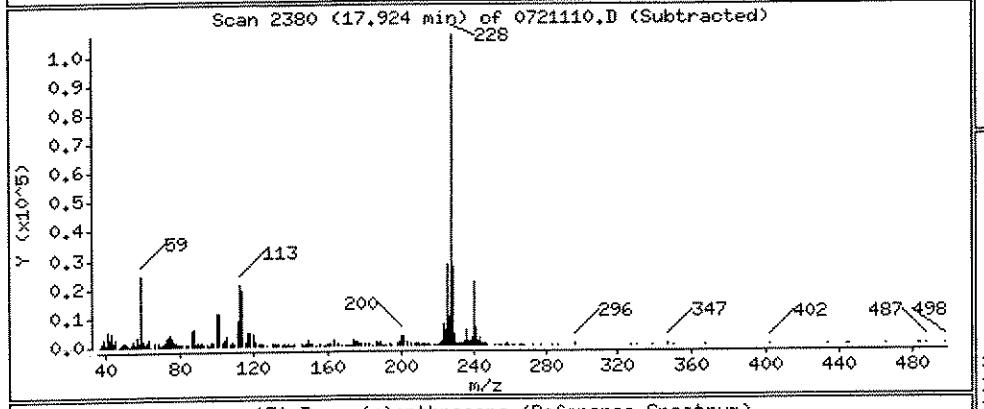
Column phase: fused silica

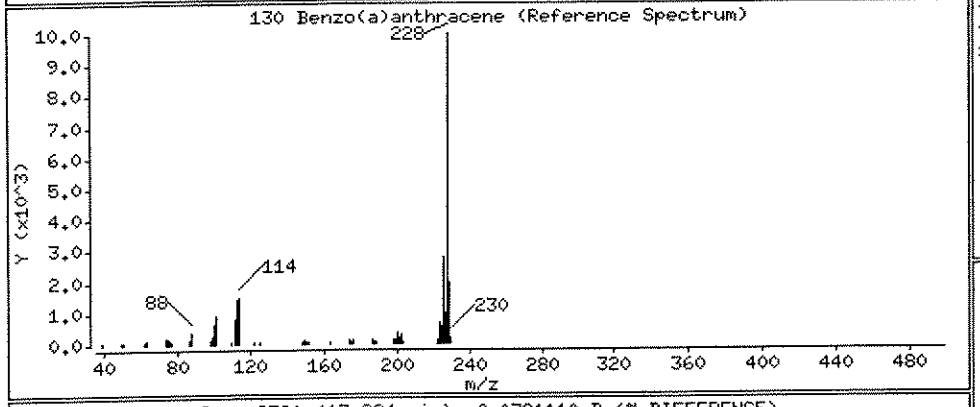
Column diameter: 0.25

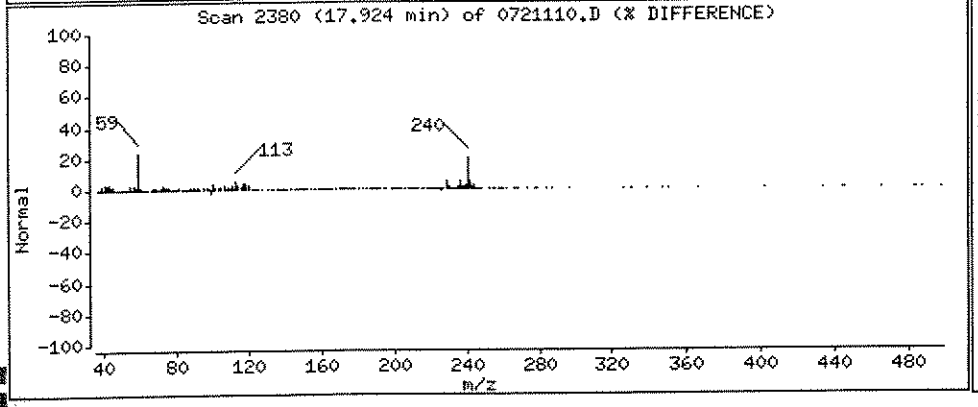
130 Benzo(a)anthracene

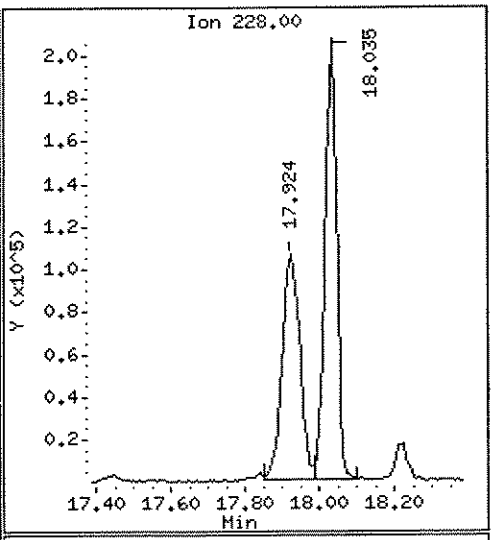
Concentration: 474.0 UG/KG

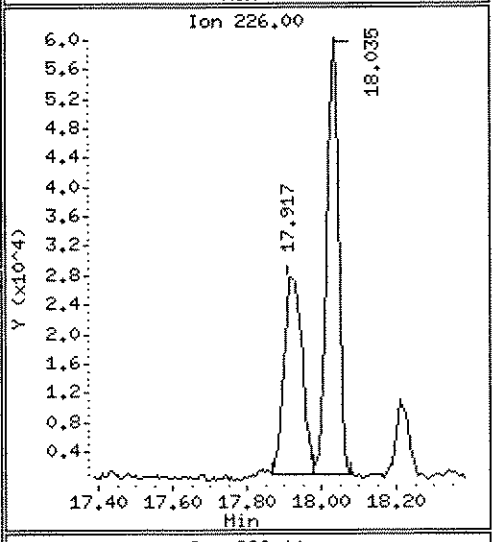


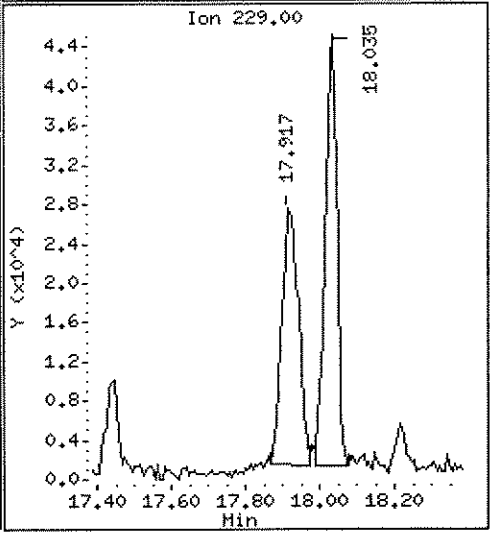












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

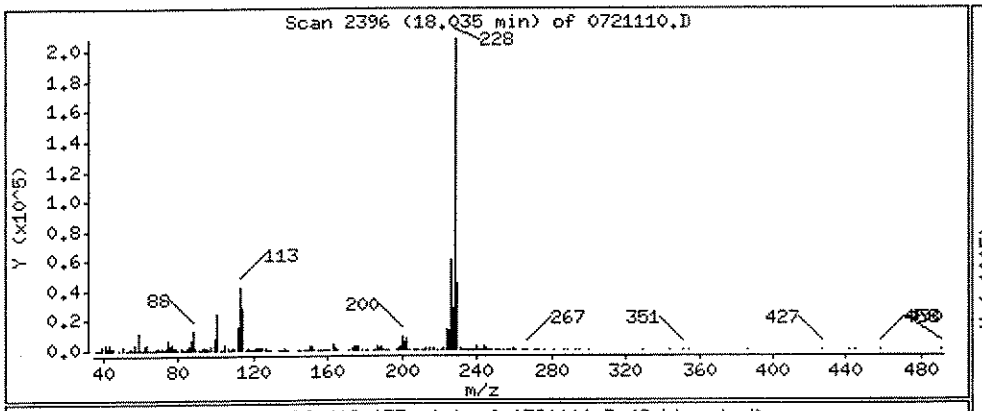
Client ID: 51CFM16S060725 Instrument: bna1.i

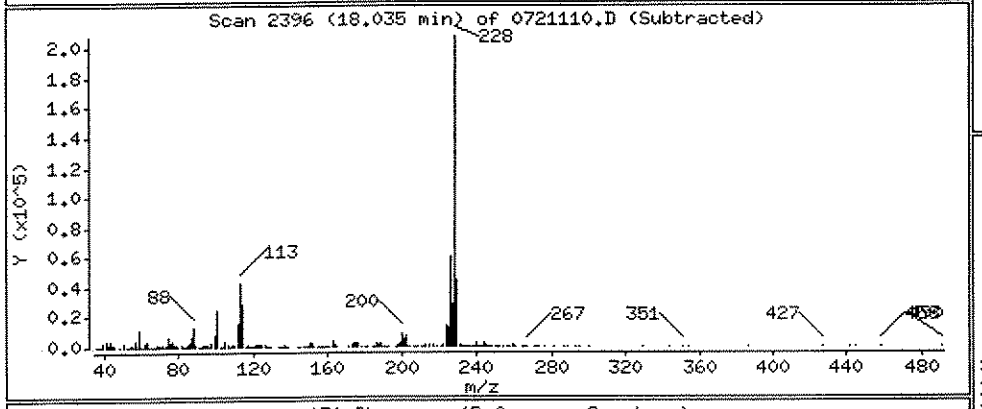
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

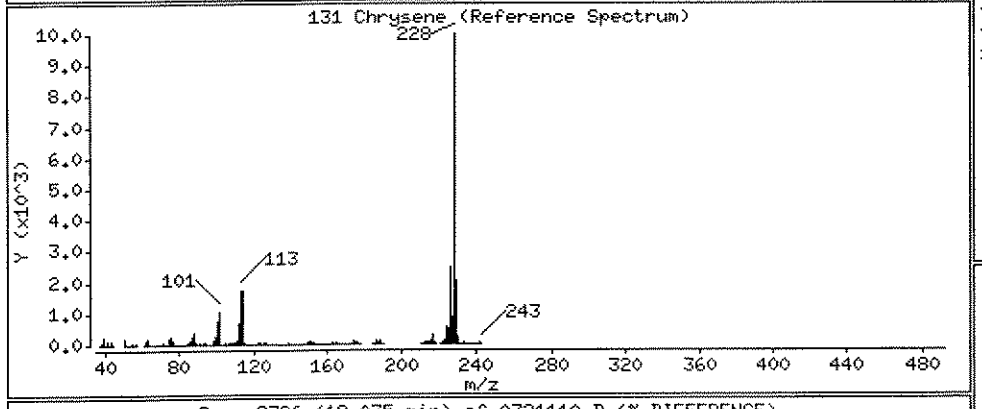
Volume Injected (uL): 0.5 Operator: SDB

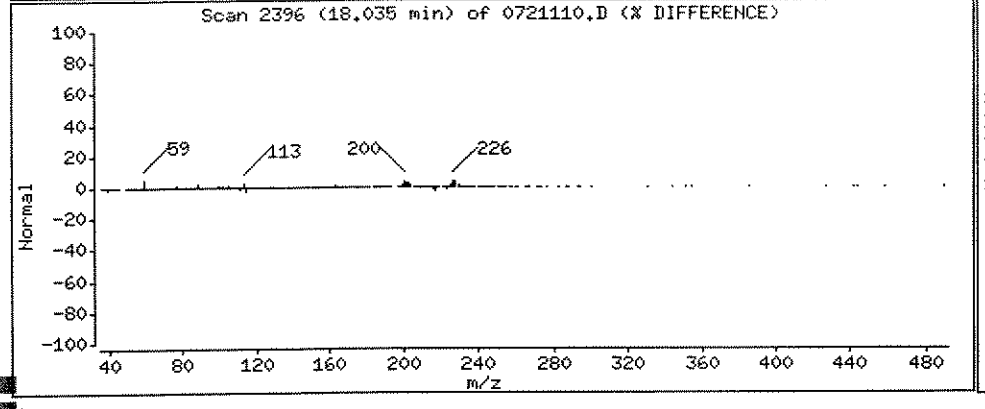
Column phase: fused silica Column diameter: 0.25

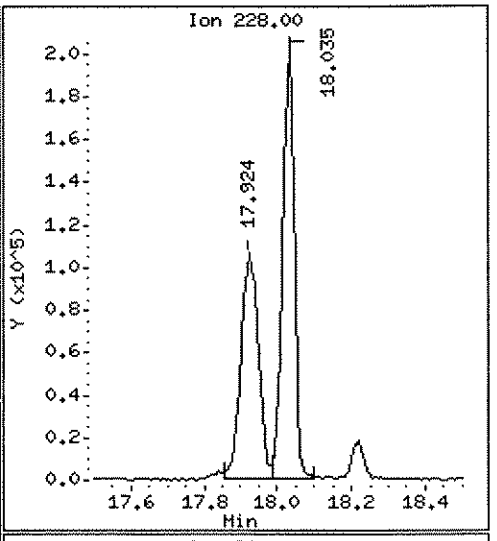
131 Chrysene Concentration: 652.8 UG/KG

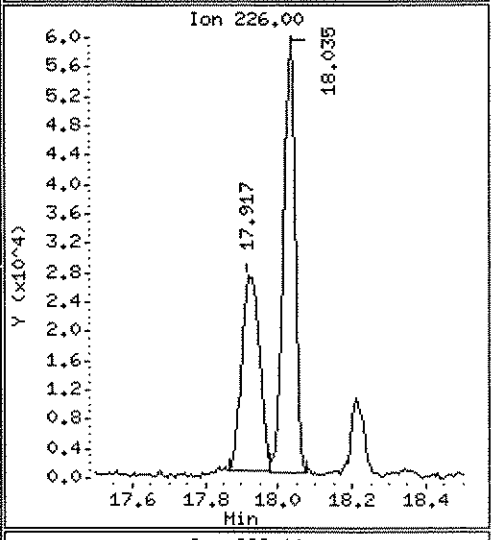


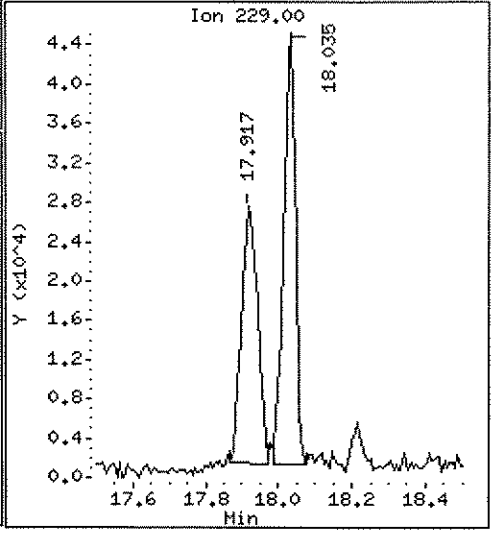












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

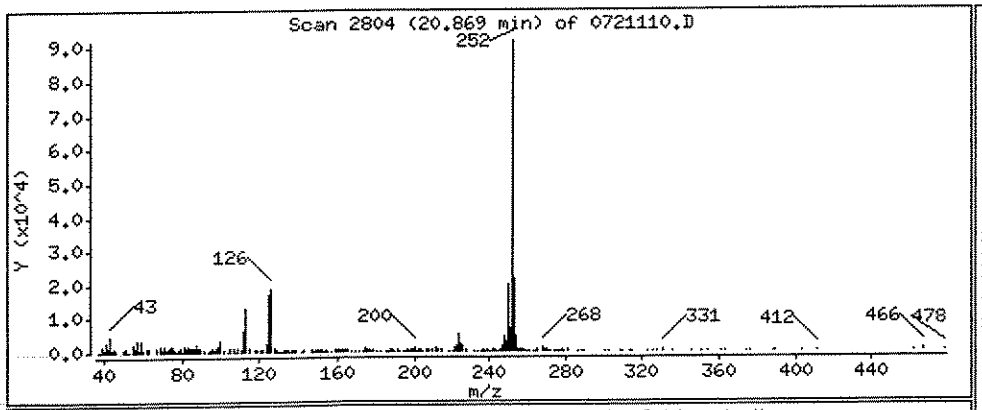
Client ID: 51CFM16S060725 Instrument: bna1.i

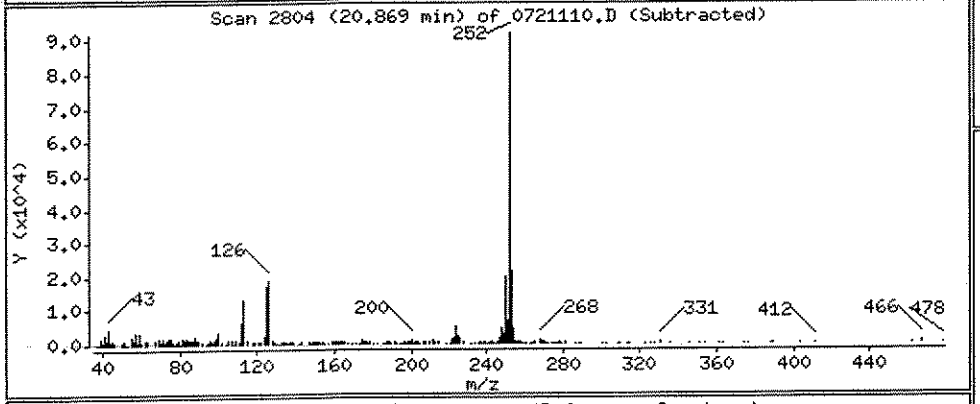
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

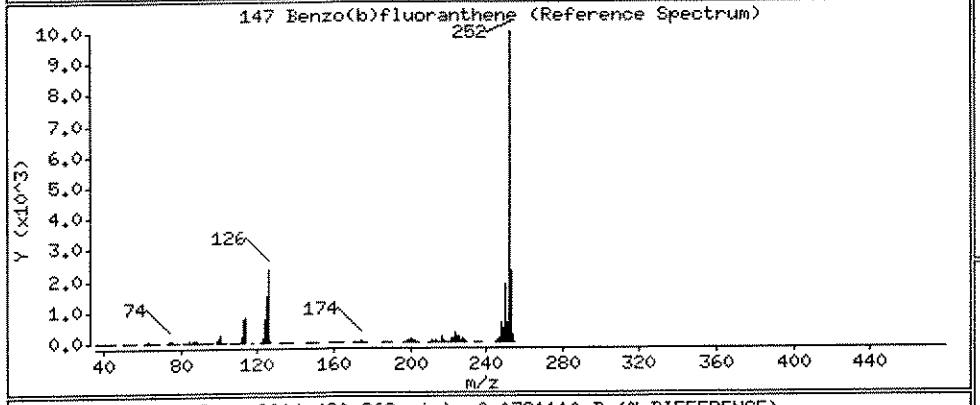
Volume Injected (uL): 0.5 Operator: SDB

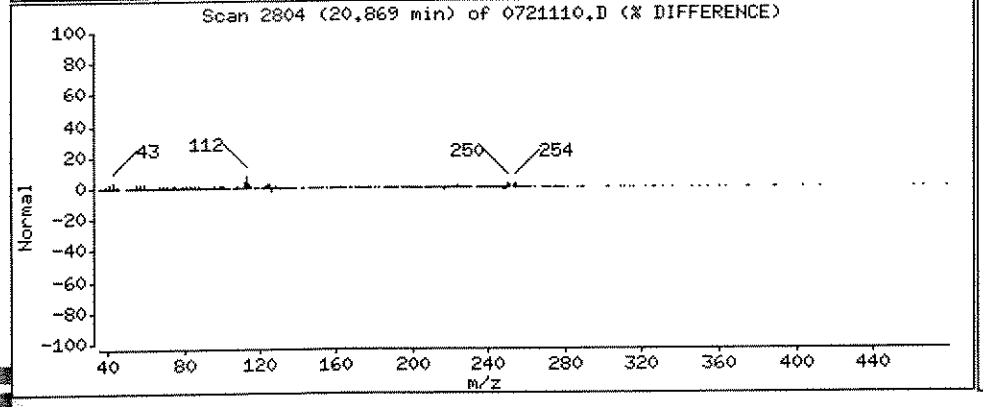
Column phase: fused silica Column diameter: 0.25

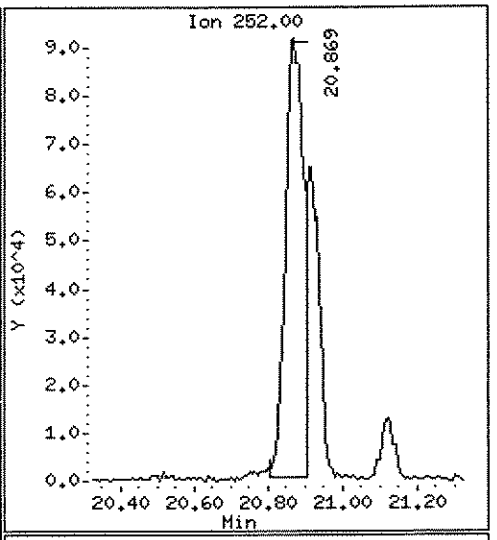
147 Benzo(b)fluoranthene Concentration: 747.7 UG/KG

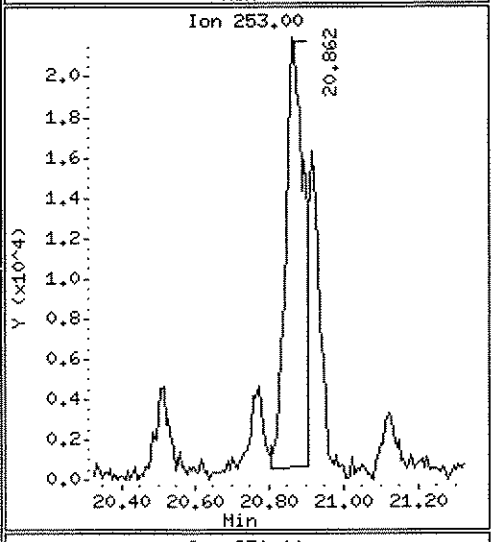


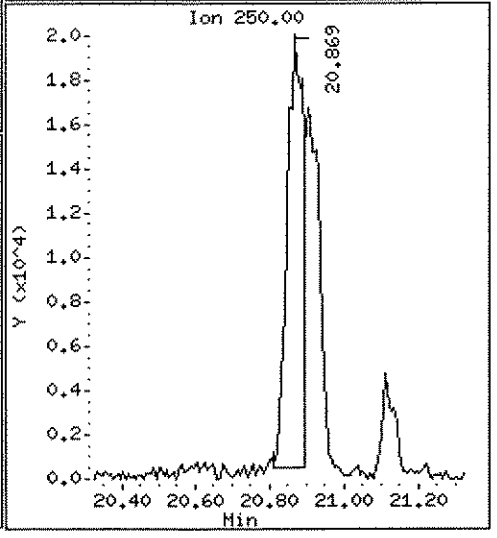












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

Client ID: 51CFM16S060725

Instrument: bna1.i

Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

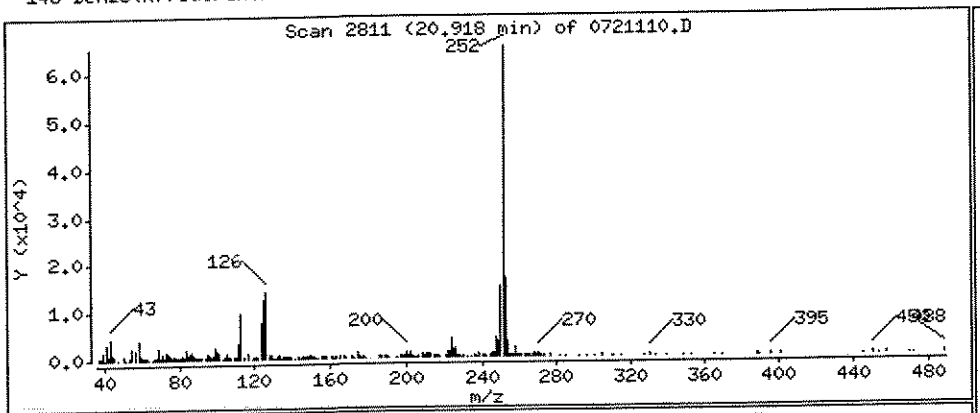
Operator: SDB

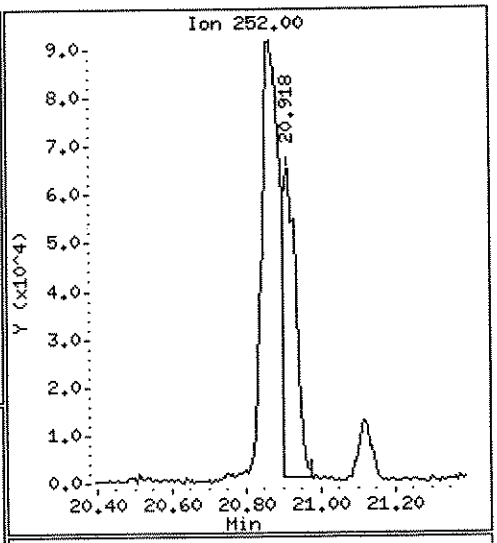
Column phase: fused silica

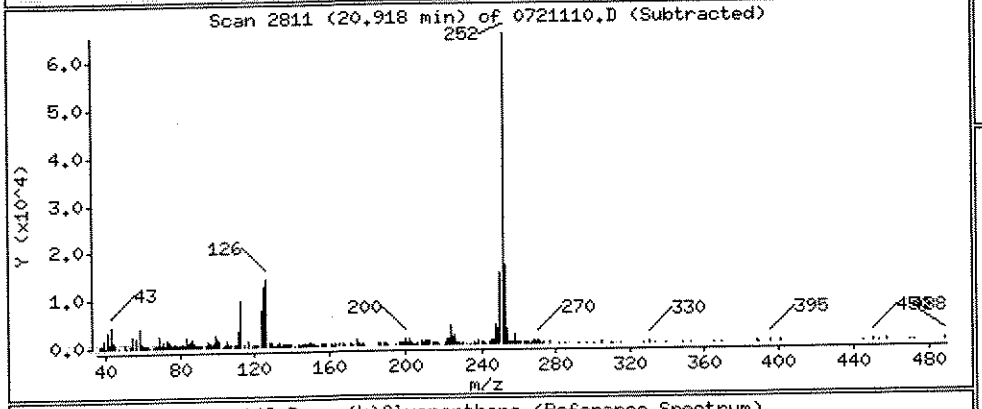
Column diameter: 0.25

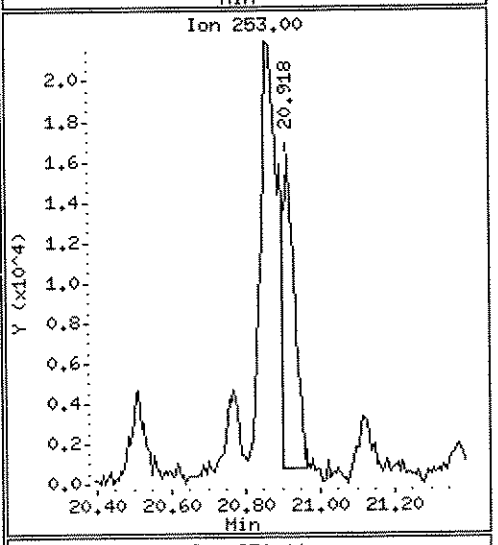
148 Benzo(k)fluoranthene

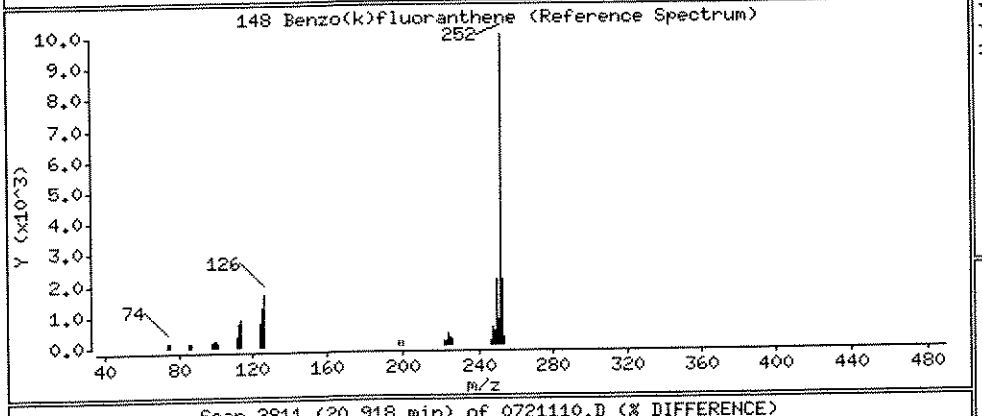
Concentration: 362.4 UG/KG

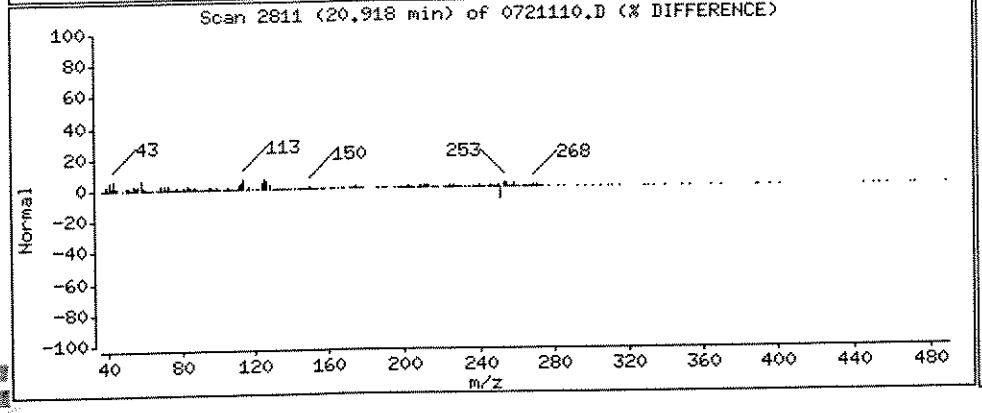


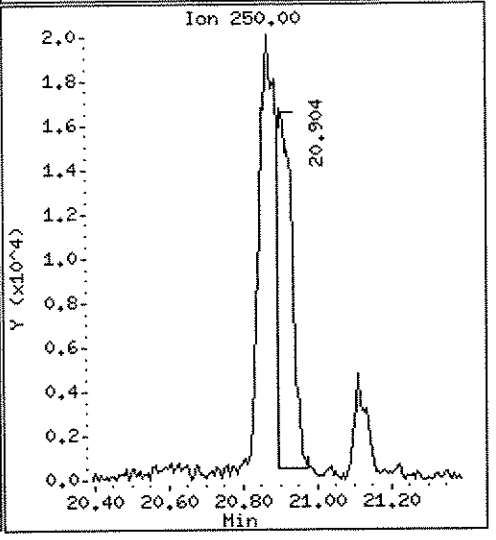












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

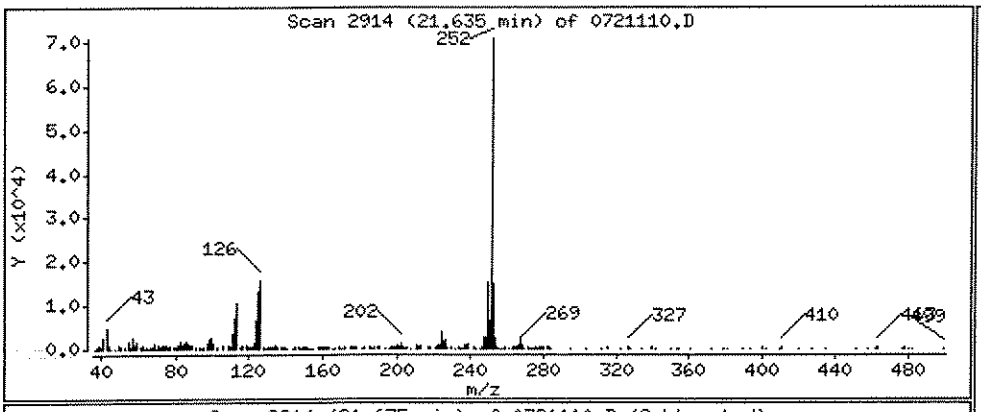
Client ID: 51CFM16S060725 Instrument: bna1.i

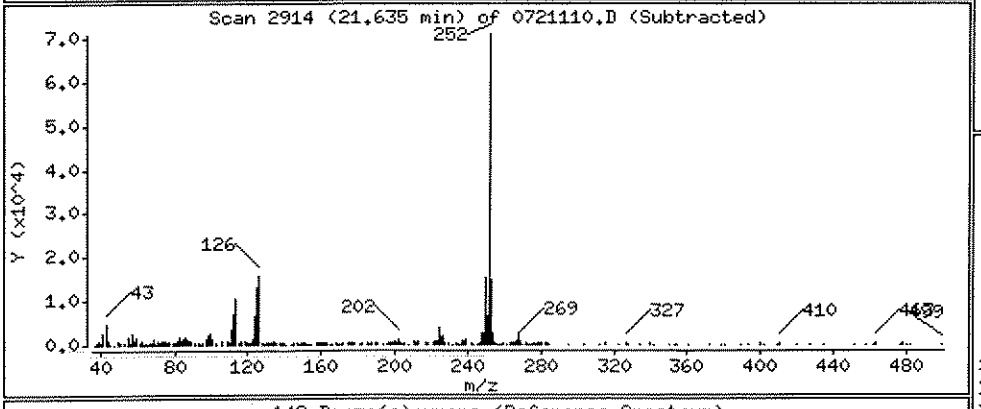
Sample Info: 0607211-10:15.3:500:1:UG/KG:26-JUL-2006

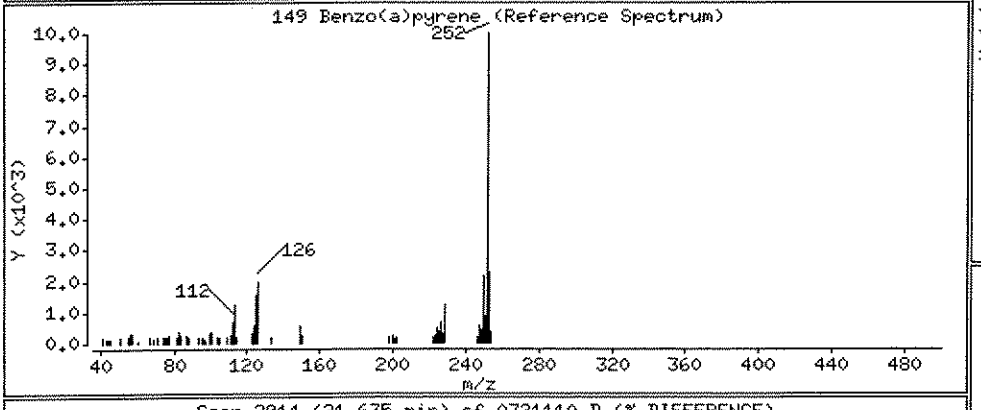
Volume Injected (uL): 0.5 Operator: SDB

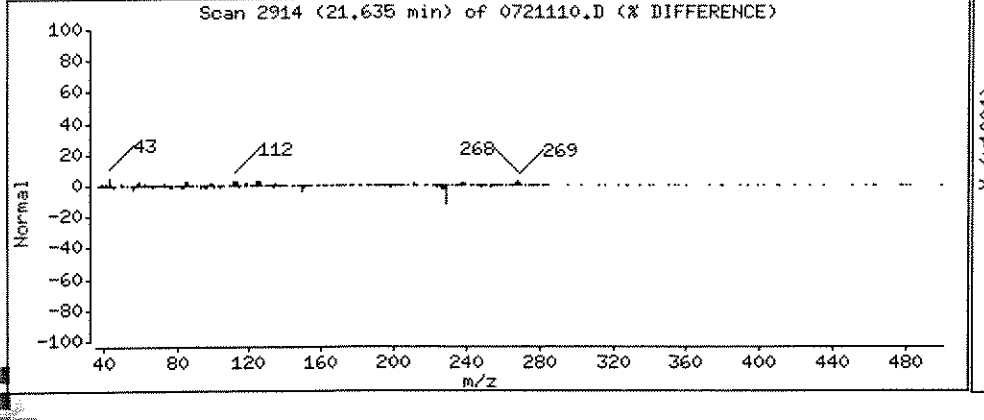
Column phase: fused silica Column diameter: 0.25

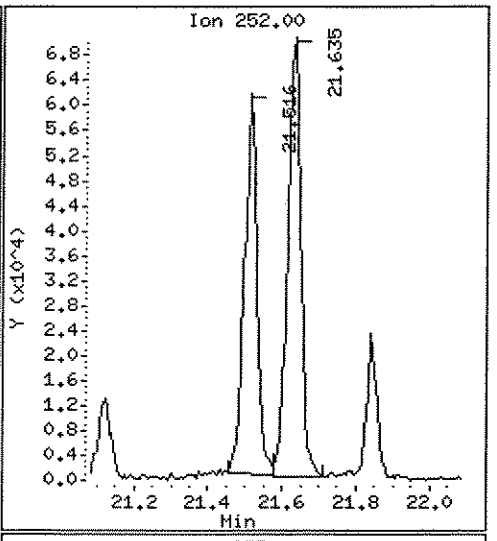
149 Benzo(a)pyrene Concentration: 502.0 UG/KG

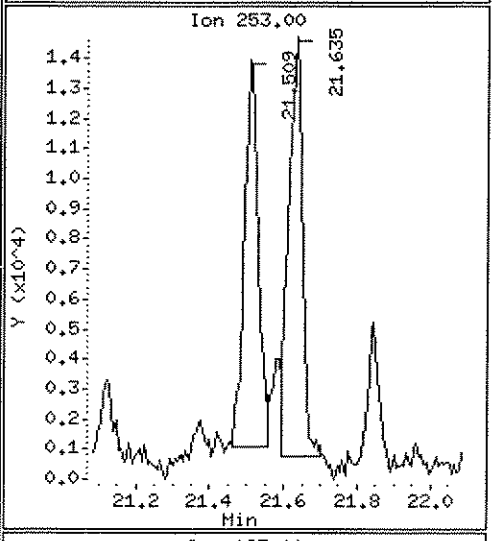


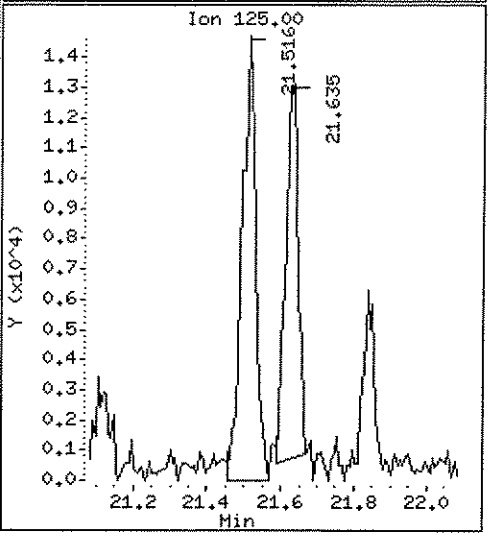












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

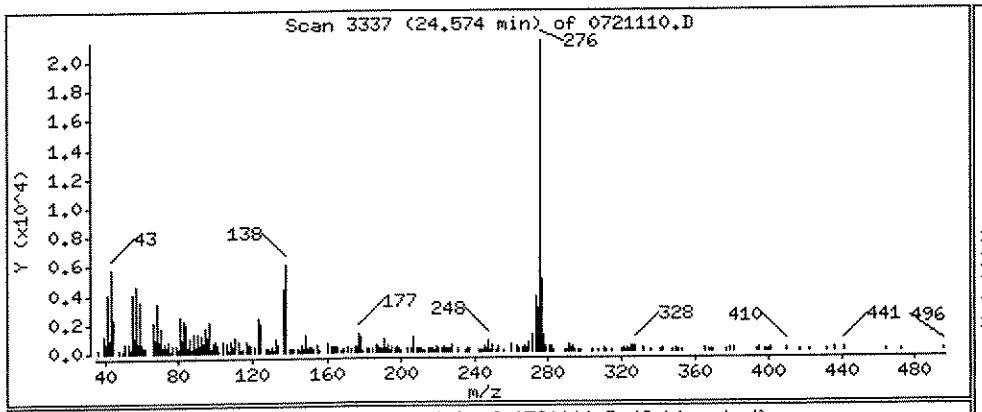
Client ID: 51CFH16S060725 Instrument: bna1.i

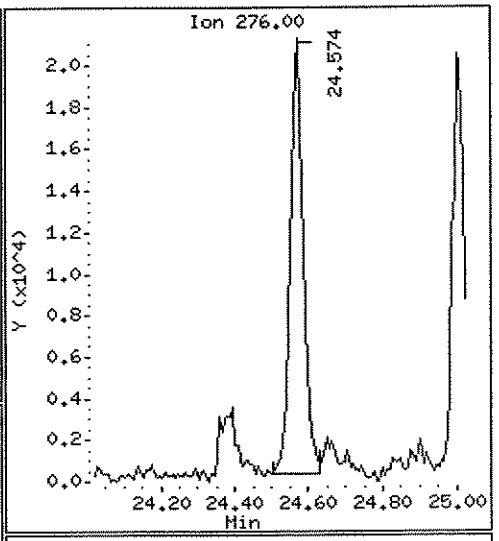
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

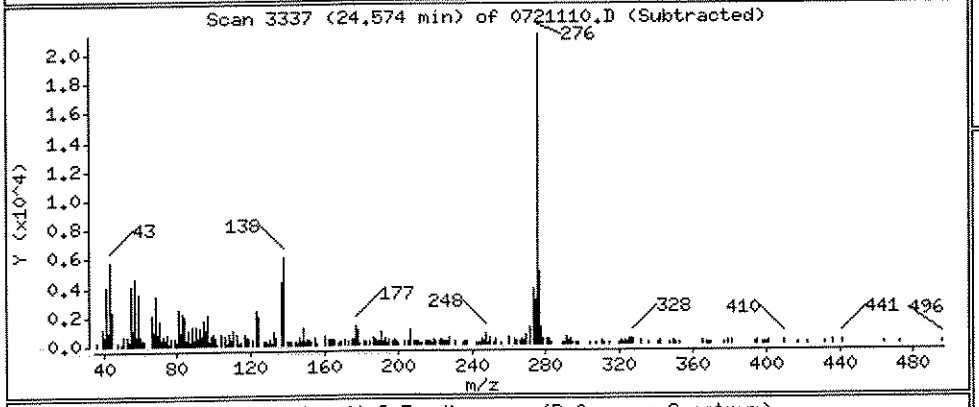
Volume Injected (uL): 0.5 Operator: SDB

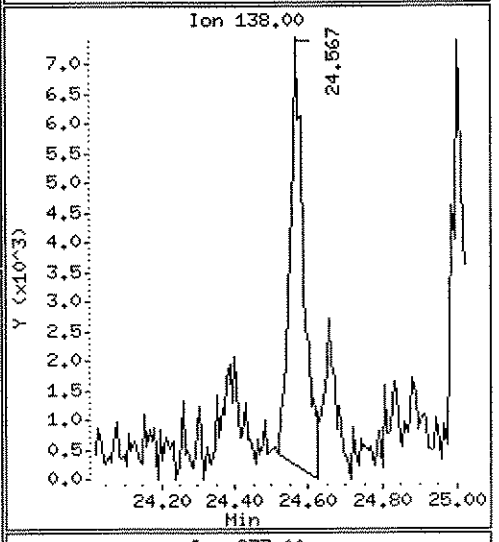
Column phase: fused silica Column diameter: 0.25

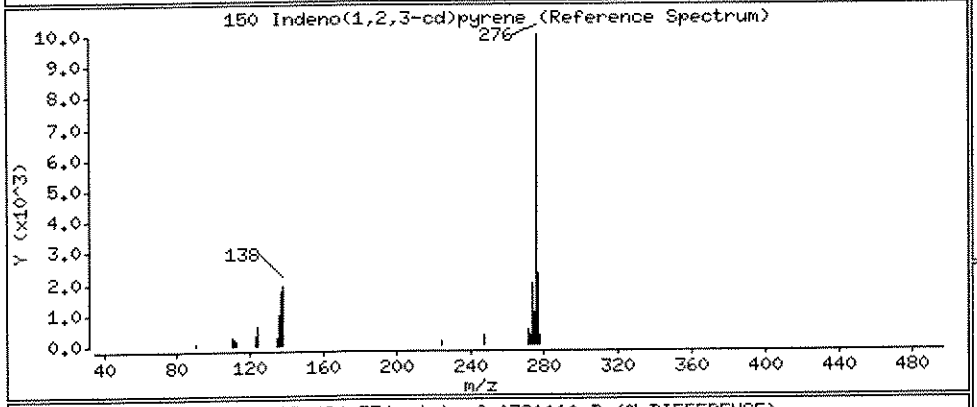
150 Indeno(1,2,3-cd)pyrene Concentration: 169.8 UG/KG

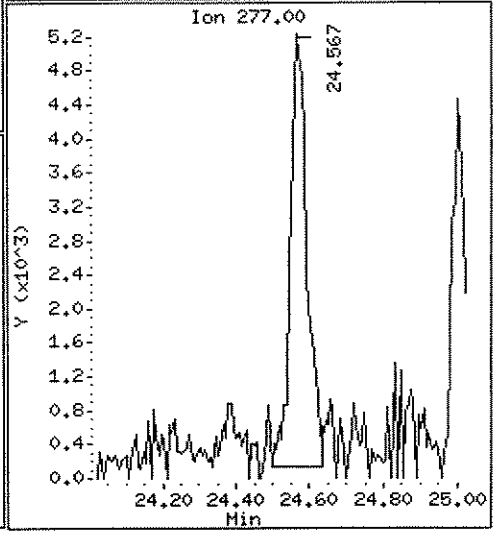


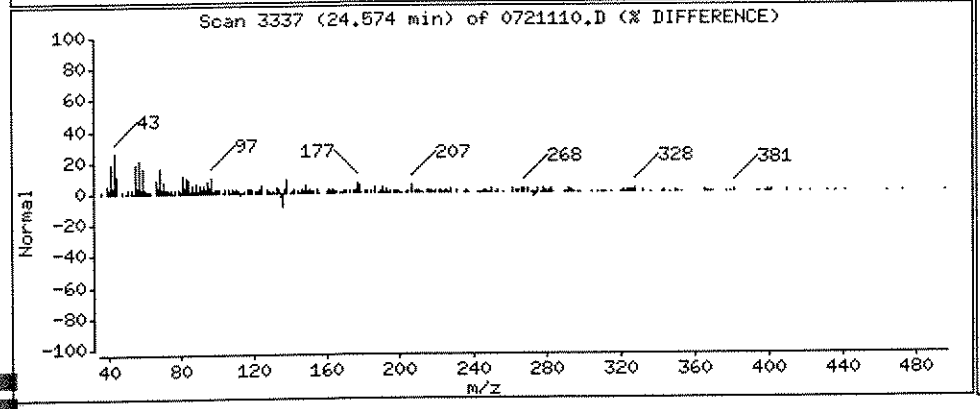












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

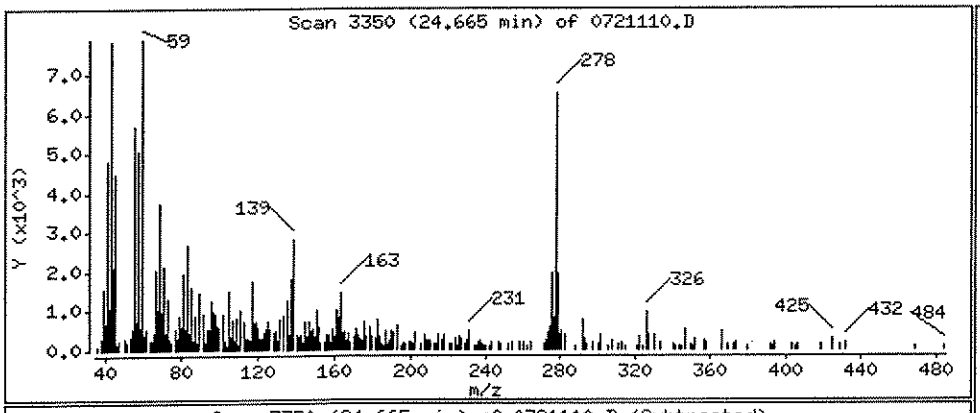
Client ID: 51CFM16S060725 Instrument: bna1.i

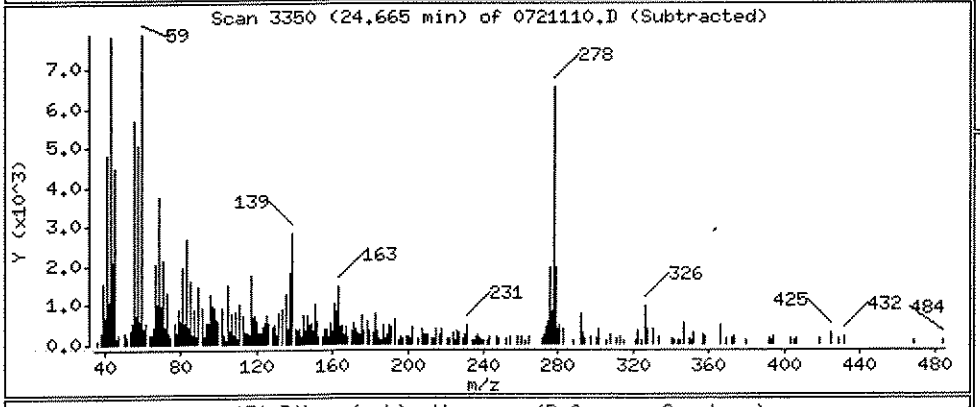
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

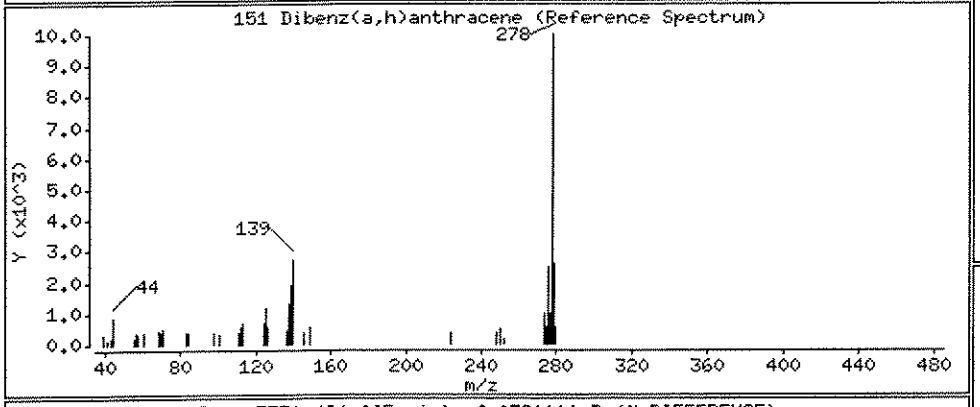
Volume Injected (uL): 0.5 Operator: SDB

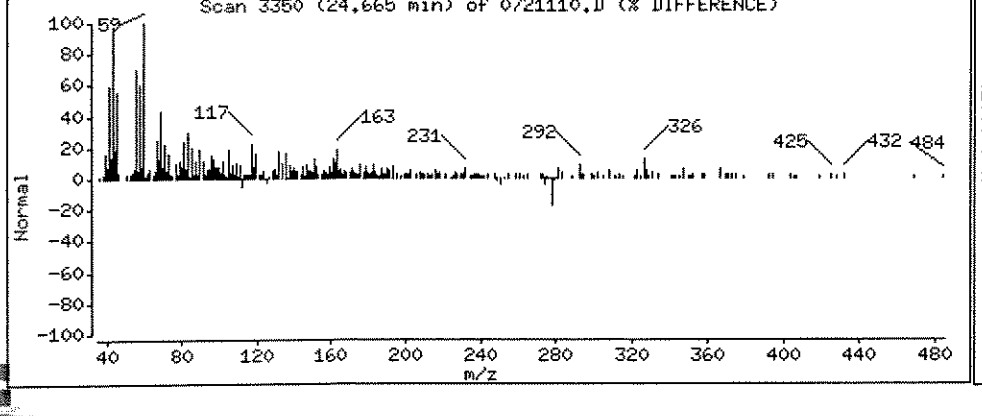
Column phase: fused silica Column diameter: 0.25

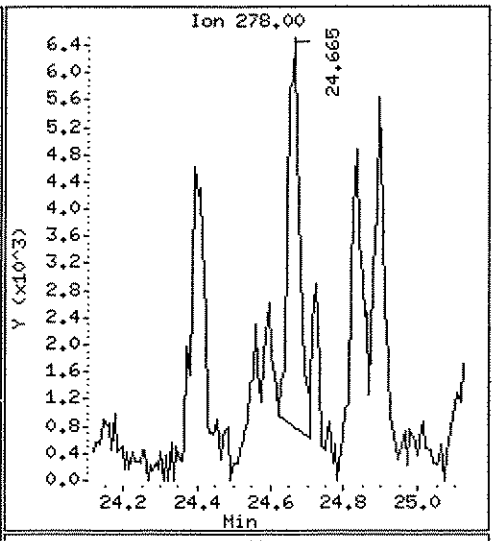
151 Dibenz(a,h)anthracene Concentration: 41.99 UG/KG

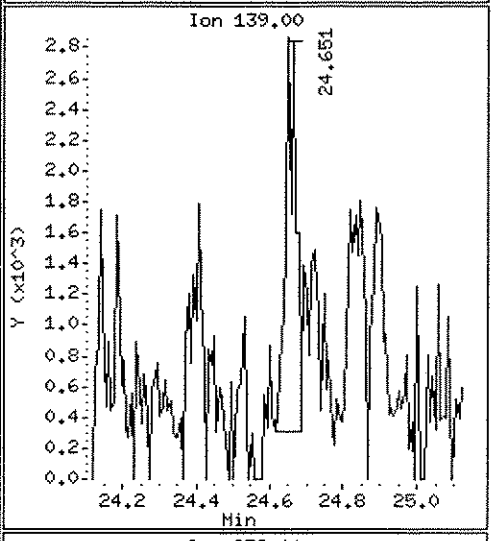


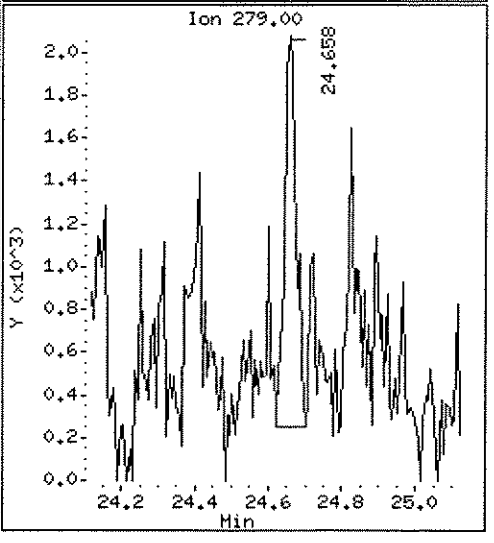












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721110.D

Date : 26-JUL-2006 20:55

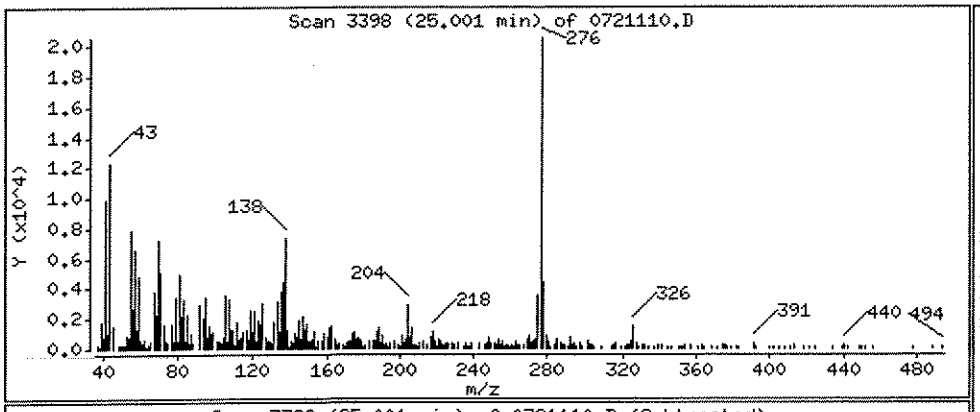
Client ID: 51CFM16S060725 Instrument: bna1.i

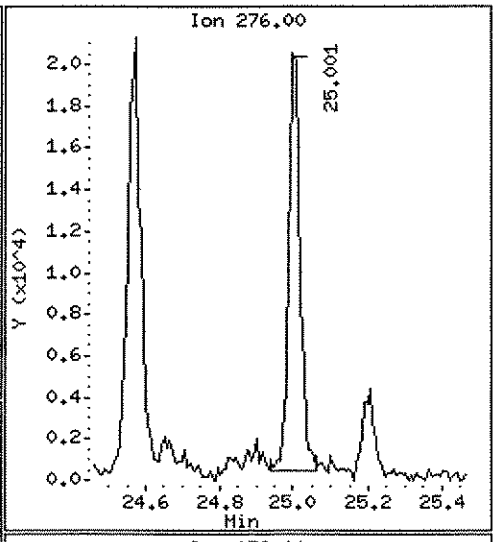
Sample Info: 0607211-10;15.3;500;1;UG/KG;26-JUL-2006

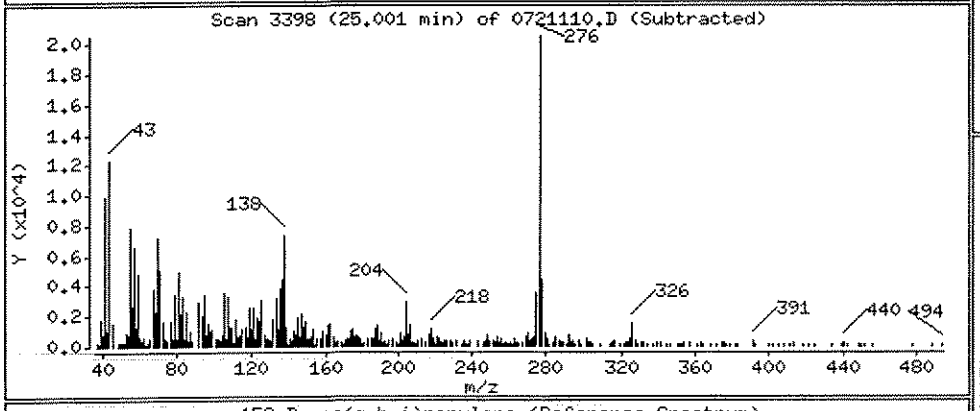
Volume Injected (uL): 0.5 Operator: SDB

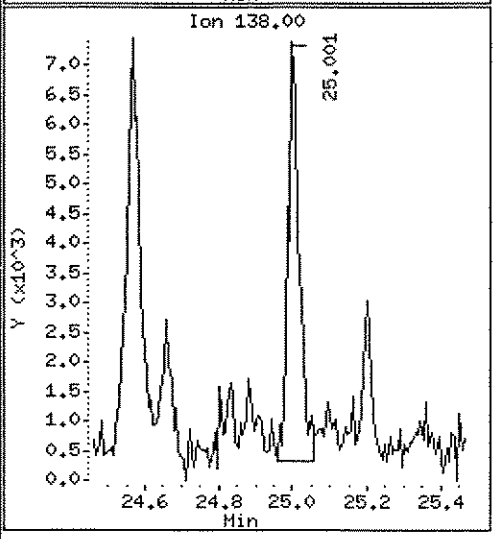
Column phase: fused silica Column diameter: 0.25

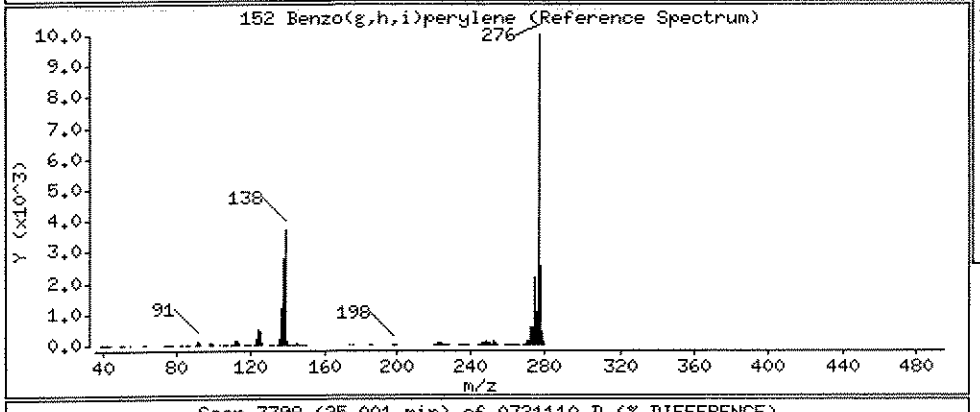
152 Benzo(g,h,i)perylene Concentration: 139.2 UG/KG

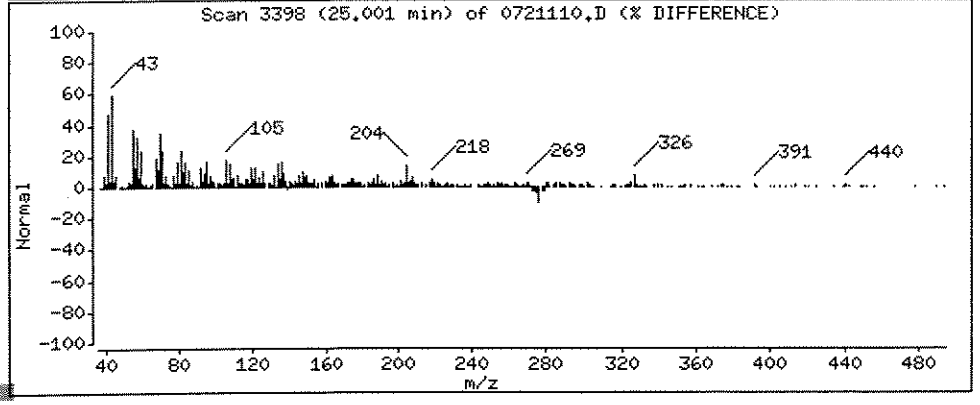












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721111

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 21:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	22	180		U
208-96-8	Acenaphthylene	22	180		U
120-12-7	Anthracene	22	180		U
56-55-3	Benzo(a)anthracene	22	180		U
205-99-2	Benzo(b)fluoranthene	22	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	22	180		U
50-32-8	Benzo(a)pyrene	22	110		U
218-01-9	Chrysene	22	180		U
53-70-3	Dibenz(a,h)anthracene	22	110		U
206-44-0	Fluoranthene	22	180		U
86-73-7	Fluorene	22	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	22	180		U
91-57-6	2-Methylnaphthalene	22	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-20-3	Naphthalene	22	180		U
85-01-8	Phenanthrene	22	180		U
129-00-0	Pyrene	22	180		U

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721111.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721111.D
Lab Smp Id: 0607211-11 Client Smp ID: 51CFM17S060725
Inj Date : 26-JUL-2006 21:29
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-11;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

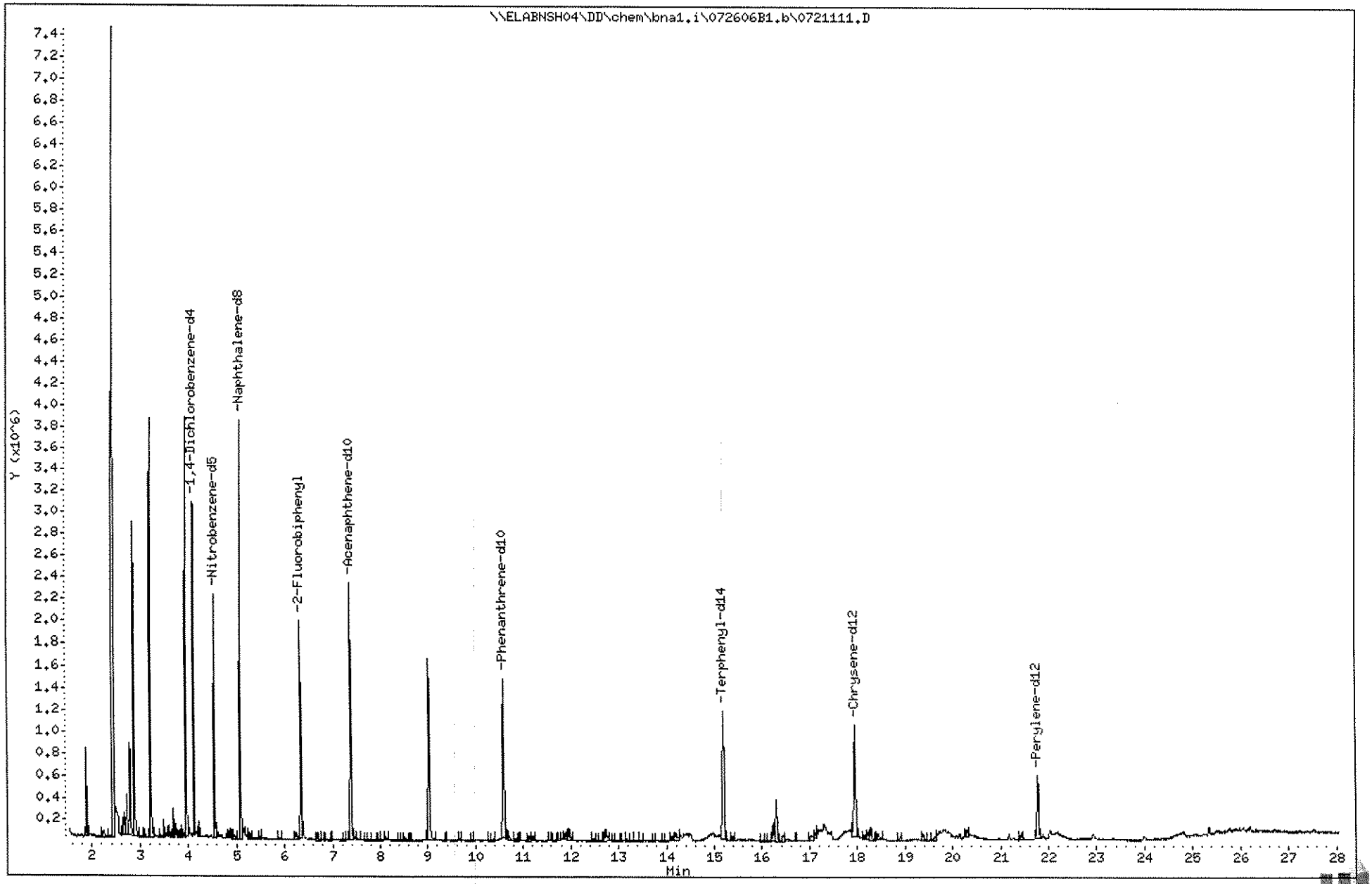
Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	91.000	Percent Solids

7/27/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 1 1,4-Dichlorobenzene-d4	152	4.120	4.120	(1.000)	488287	40.0000	
* 31 Naphthalene-d8	136	5.088	5.088	(1.000)	1782907	40.0000	
$ 32 Nitrobenzene-d5	82	4.546	4.553	(0.894)	589093	30.2678	1094
* 65 Acenaphthene-d10	164	7.388	7.382	(1.000)	842544	40.0000	
$ 70 2-Fluorobiphenyl	172	6.345	6.345	(0.859)	863291	32.1975	1164
* 97 Phenanthrene-d10	188	10.596	10.583	(1.000)	1066134	40.0000	
* 124 Chrysene-d12	240	17.962	17.933	(1.000)	748911	40.0000	
$ 127 Terphenyl-d14	244	15.201	15.177	(0.846)	813330	43.0083	1555
* 145 Perylene-d12	264	21.781	21.736	(1.000)	487170	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721111.D
Date : 26-JUL-2006 21:29
Client ID: 51CFM17S060725
Instrument: bna1.i
Sample Info: 0607211-11;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25



FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 22:04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	310	
208-96-8	Acenaphthylene	21	170		U
120-12-7	Anthracene	21	170	730	
56-55-3	Benzo(a)anthracene	21	170	3200	
205-99-2	Benzo(b)fluoranthene	21	170	5300	E
207-08-9	Benzo(k)fluoranthene	21	170	2200	
191-24-2	Benzo(g,h,i)perylene	21	170	1200	
50-32-8	Benzo(a)pyrene	21	100	4100	E
218-01-9	Chrysene	21	170	4100	E
53-70-3	Dibenz(a,h)anthracene	21	100	390	
206-44-0	Fluoranthene	21	170	5500	E
86-73-7	Fluorene	21	170	310	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1400	
91-57-6	2-Methylnaphthalene	21	170	32	J
90-12-0	1-Methylnaphthalene	52	170		U
91-20-3	Naphthalene	21	170		U
85-01-8	Phenanthrene	21	170	3600	E
129-00-0	Pyrene	21	170	6200	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D
Lab Smp Id: 0607211-12 Client Smp ID: 51DUP1S060725
Inj Date : 26-JUL-2006 22:04
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-12;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	94.500	Percent Solids

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	568274	40.0000	
*	31 Naphthalene-d8	136	5.090	5.088	(1.000)	1871190	40.0000	
$	32 Nitrobenzene-d5	82	4.547	4.553	(0.893)	541919	26.5303	923.5
	51 2-Methylnaphthalene	141	5.818	5.815	(1.143)	24761	0.92624	32.24(a)
*	65 Acenaphthene-d10	164	7.385	7.382	(1.000)	912770	40.0000	
$	70 2-Fluorobiphenyl	172	6.347	6.345	(0.859)	860509	29.6245	1031
	76 Acenaphthene	153	7.440	7.437	(1.007)	234921	8.91780	310.4
	84 Fluorene	166	8.438	8.434	(1.143)	249898	8.86942	308.7
*	97 Phenanthrene-d10	188	10.615	10.583	(1.000)	931690	40.0000	
	106 Phenanthrene	178	10.684	10.645	(1.007)	2728335	102.706	3575(A)
	107 Anthracene	178	10.774	10.755	(1.015)	548963	20.9319	728.6
	110 Fluoranthene	202	13.920	13.814	(1.311)	4149371	157.771	5492(AH)
*	124 Chrysene-d12	240	18.022	17.933	(1.000)	608528	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D
Report Date: 27-Jul-2006 09:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
126 Pyrene	202	14.493	14.390	(0.804)	4365109	179.616	6252(A)
$ 127 Terphenyl-d14	244	15.231	15.177	(0.845)	666598	43.3810	1510
130 Benzo(a)anthracene	228	17.987	17.885	(0.998)	1778734	90.7201	3158
131 Chrysene	228	18.107	18.002	(1.005)	2130546	118.972	4141(AH)
* 145 Perylene-d12	264	21.838	21.736	(1.000)	325374	40.0000	
147 Benzo(b)fluoranthene	252	20.946	20.823	(0.959)	1535841	153.233	5334(AM)
148 Benzo(k)fluoranthene	252	20.989	20.893	(0.961)	668396	64.2760	2237(M)
149 Benzo(a)pyrene	252	21.712	21.584	(0.994)	1015298	117.473	4089(AH)
150 Indeno(1,2,3-cd)pyrene	276	24.618	24.521	(1.127)	297305	40.3185	1403
151 Dibenz(a,h)anthracene	278	24.695	24.618	(1.131)	83771	11.2846	392.8
152 Benzo(g,h,i)perylene	276	25.046	24.961	(1.147)	273632	35.7585	1245

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D
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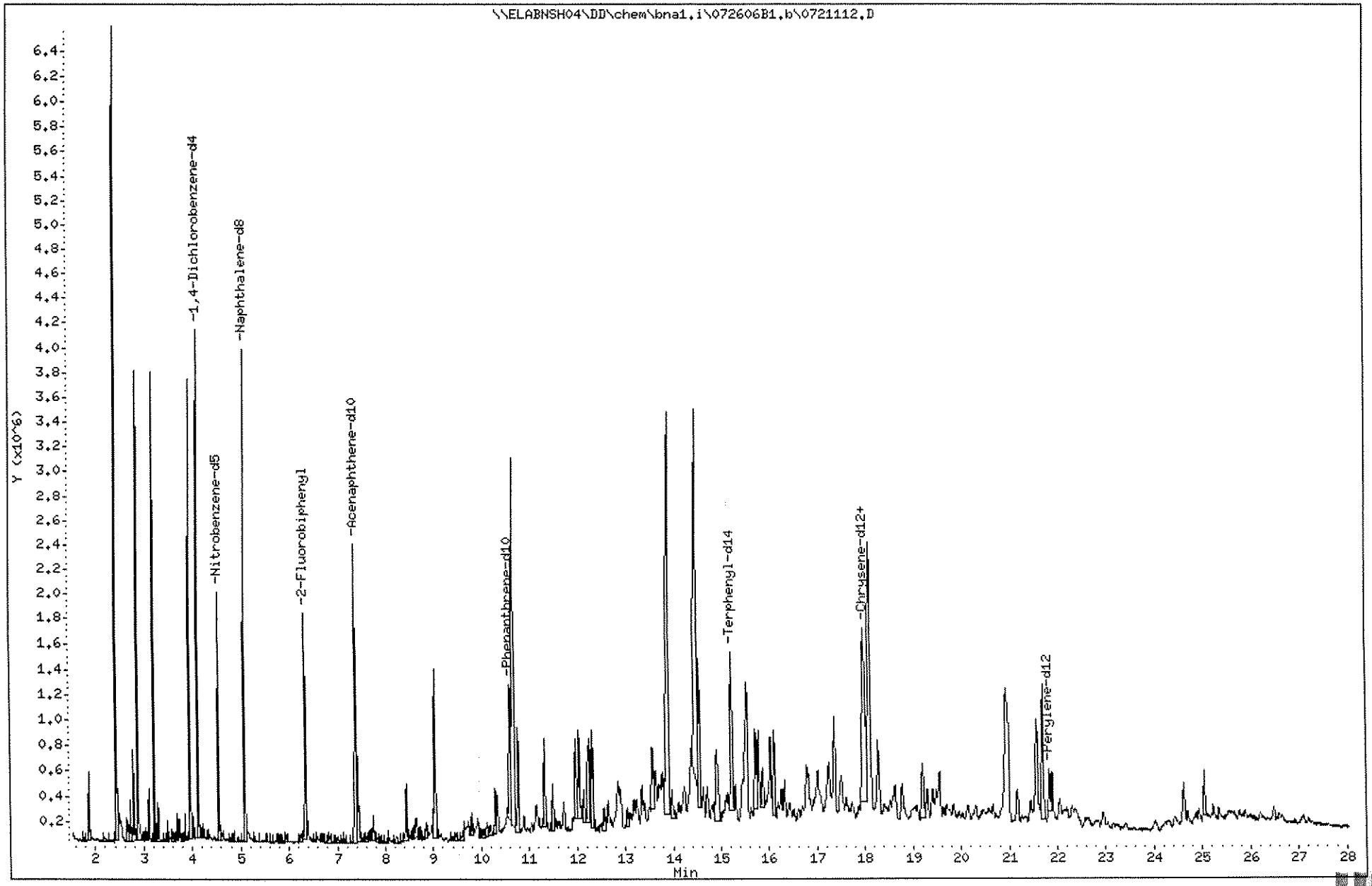
Client ID: 51DUP1S060725
Instrument: bna1.i
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000250



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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

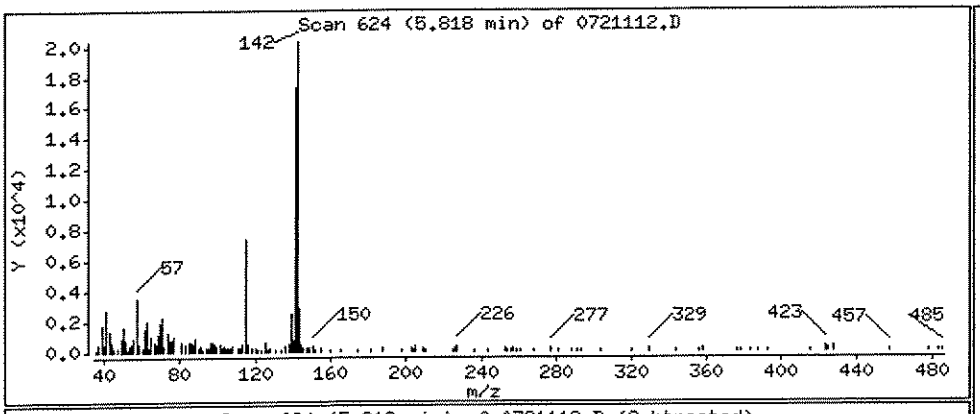
Client ID: 51DUP1S060725 Instrument: bna1.i

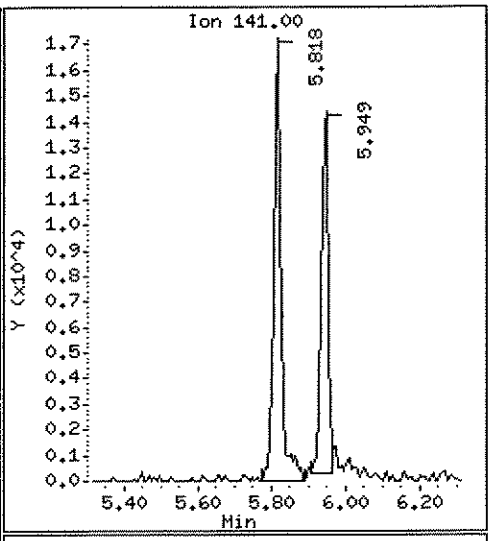
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

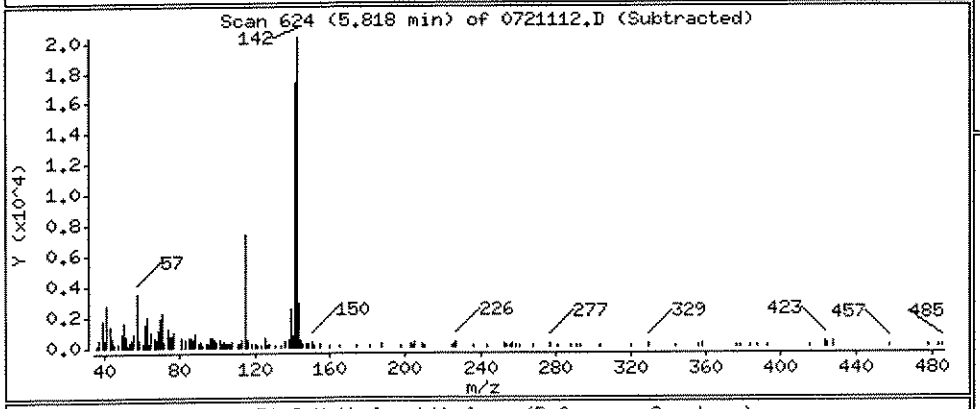
Volume Injected (uL): 0.5 Operator: SDB

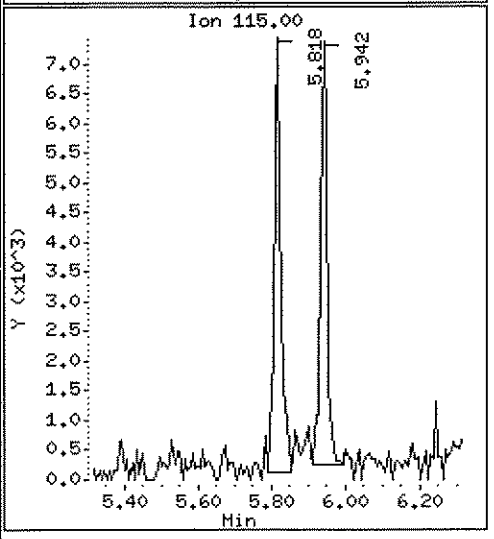
Column phase: fused silica Column diameter: 0.25

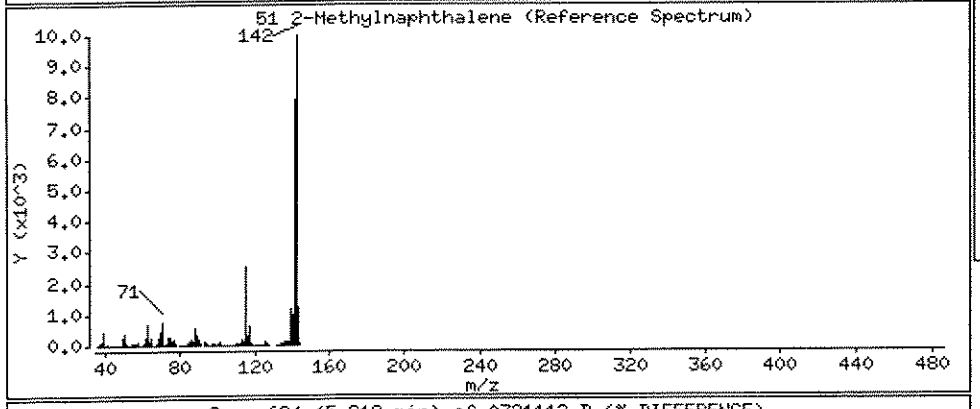
51 2-Methylnaphthalene Concentration: 30.47 UG/KG

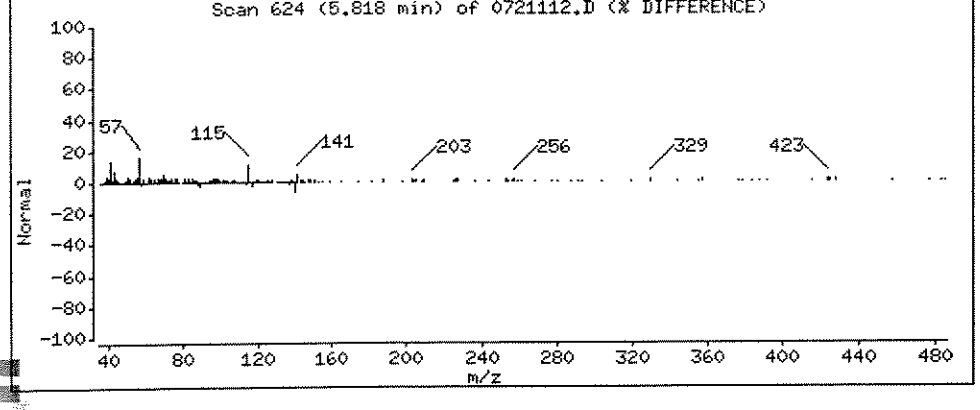












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

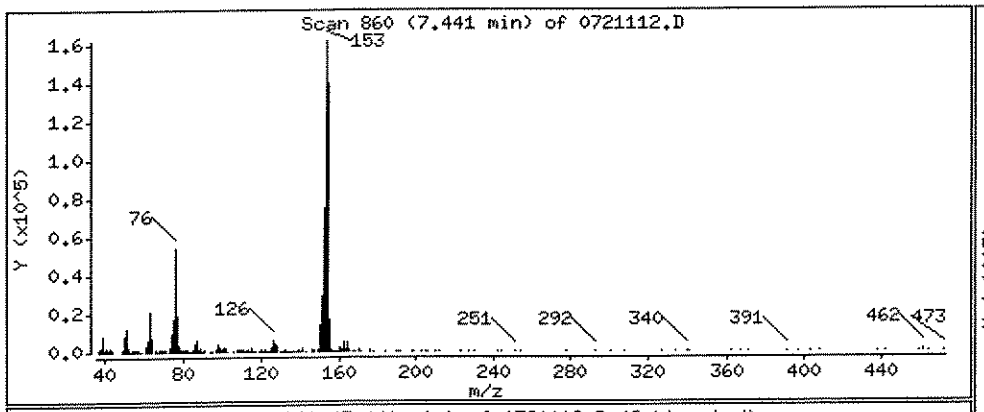
Client ID: 51DUP1S060725 Instrument: bna1.i

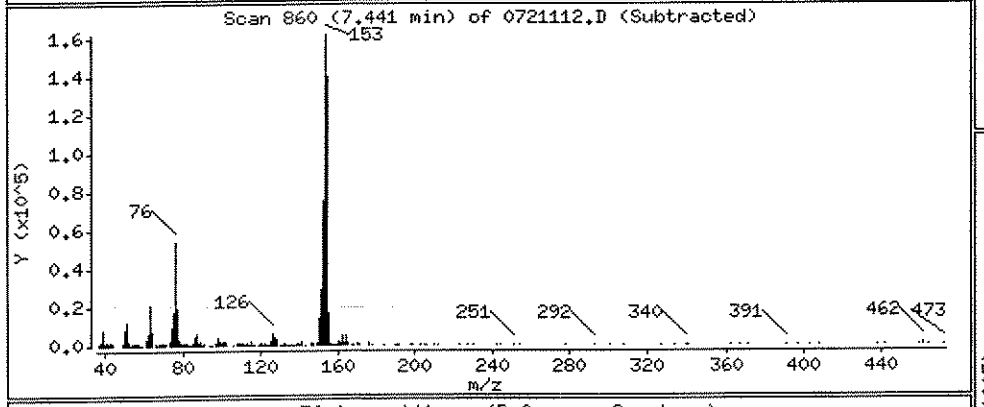
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

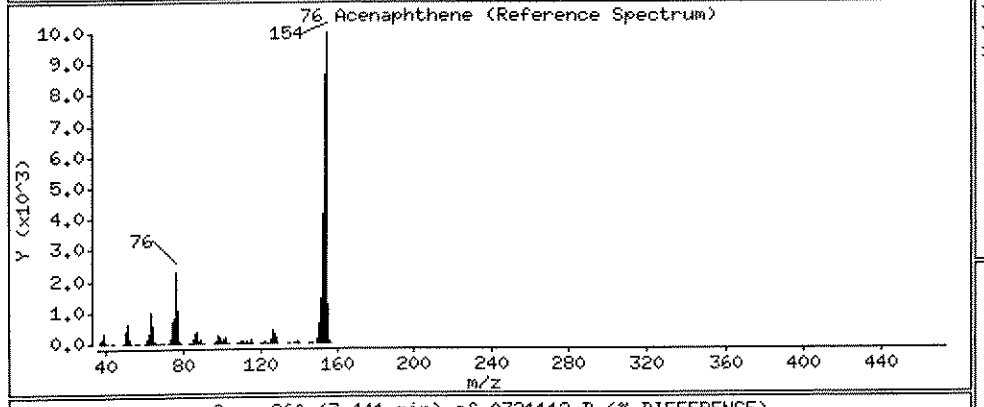
Volume Injected (uL): 0.5 Operator: SDB

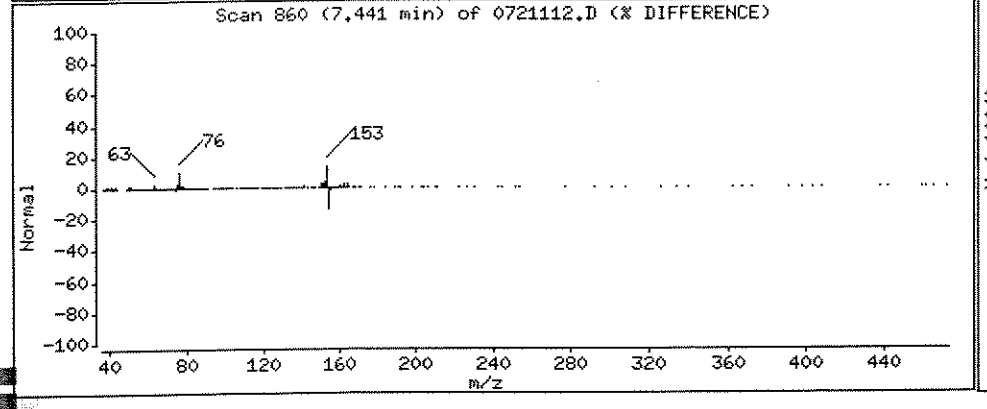
Column phase: fused silica Column diameter: 0.25

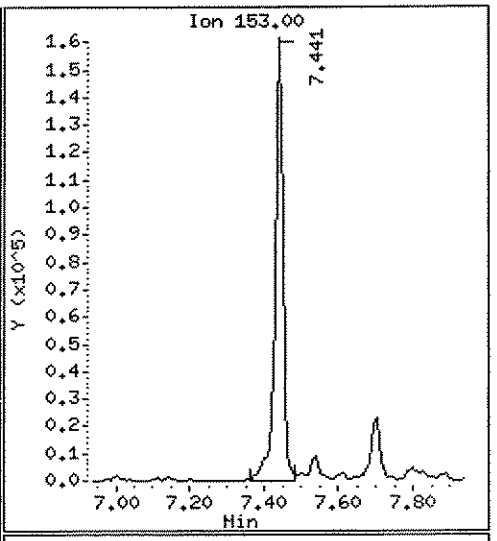
76 Acenaphthene Concentration: 293.3 UG/KG

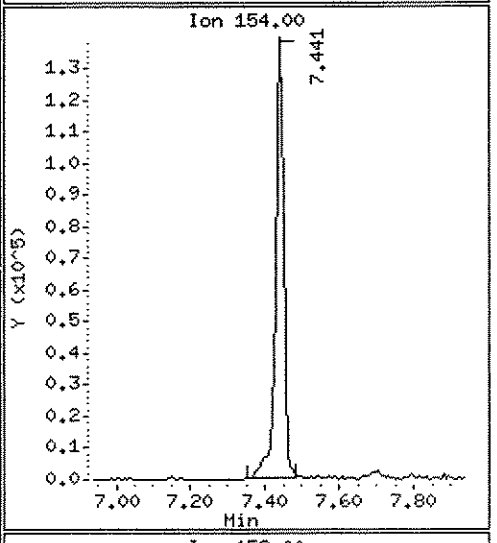


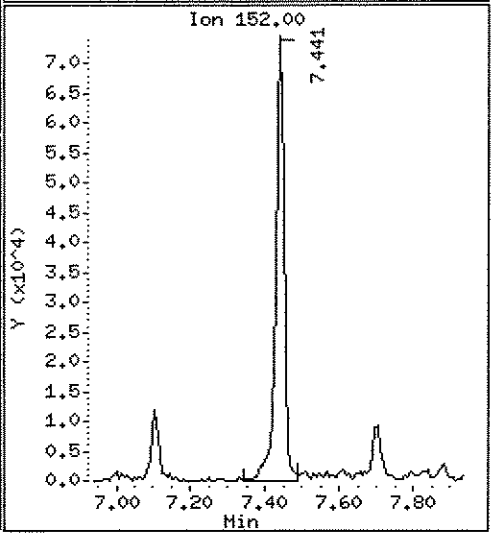












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

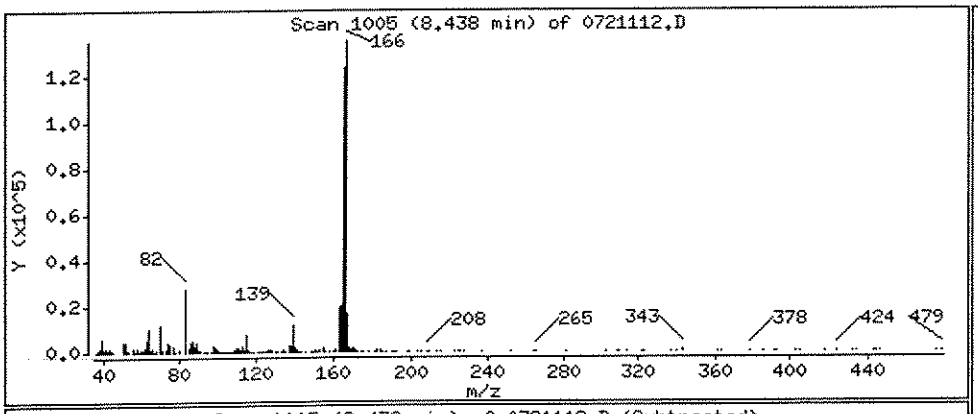
Client ID: 51DUP1S060725 Instrument: bna1.i

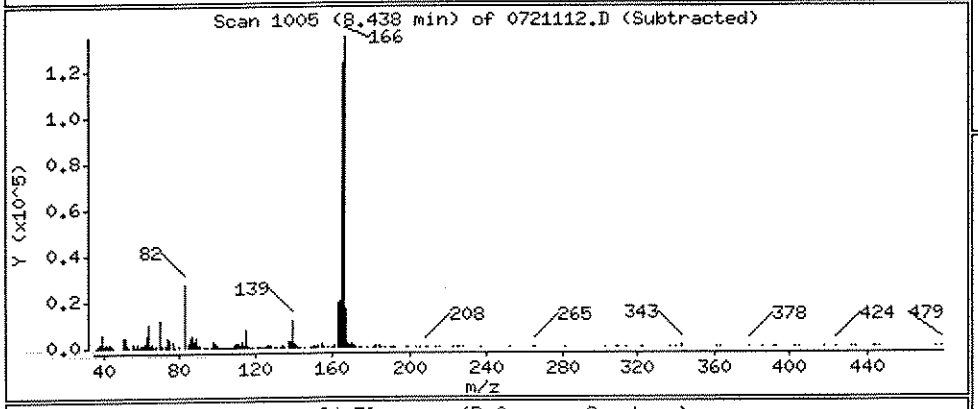
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

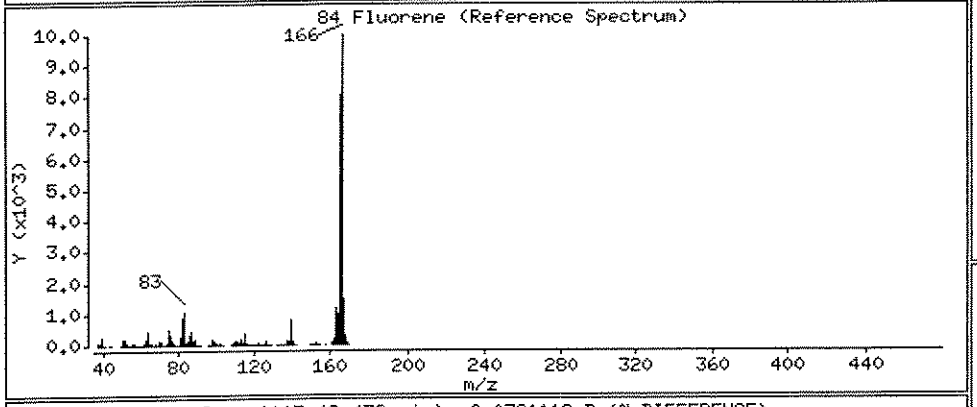
Volume Injected (uL): 0.5 Operator: SDB

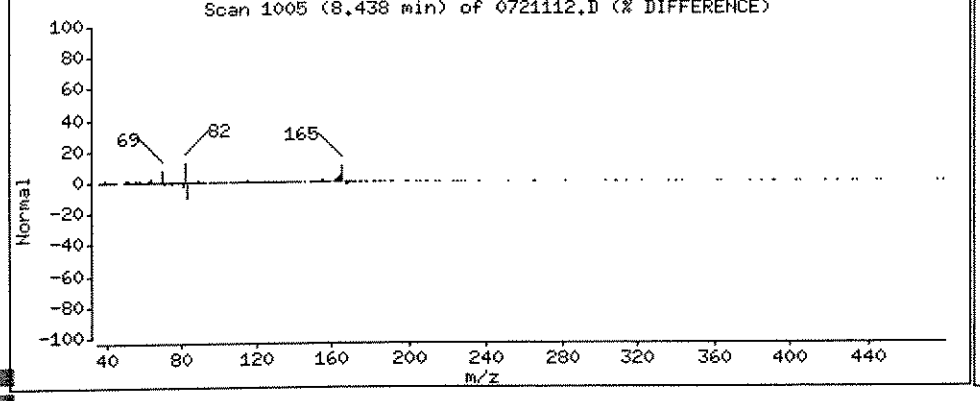
Column phase: fused silica Column diameter: 0.25

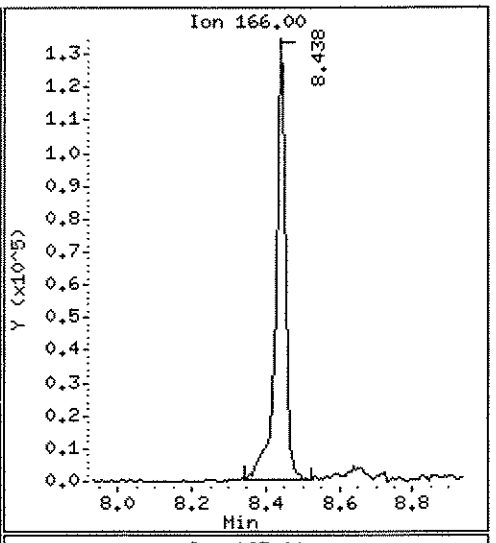
84 Fluorene Concentration: 291.8 UG/KG

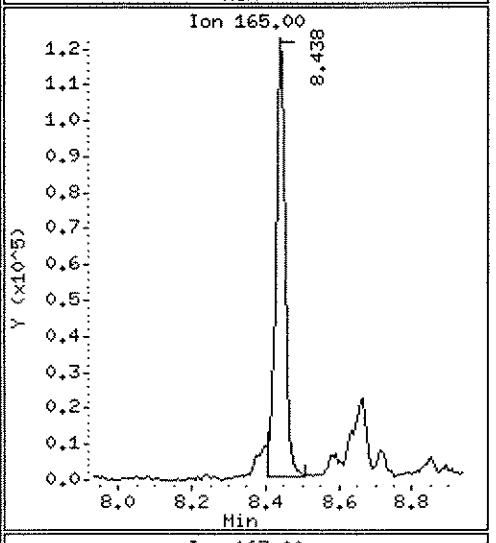


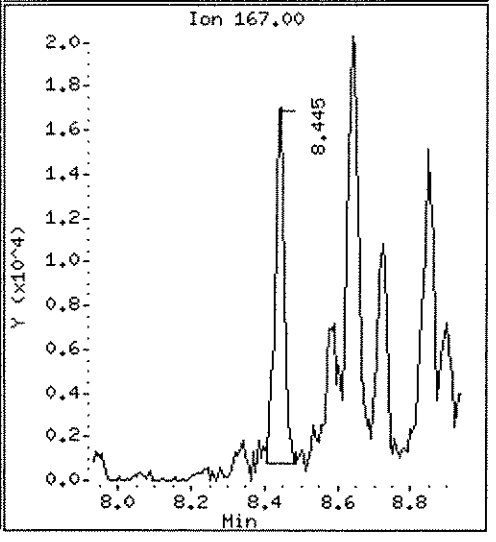












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

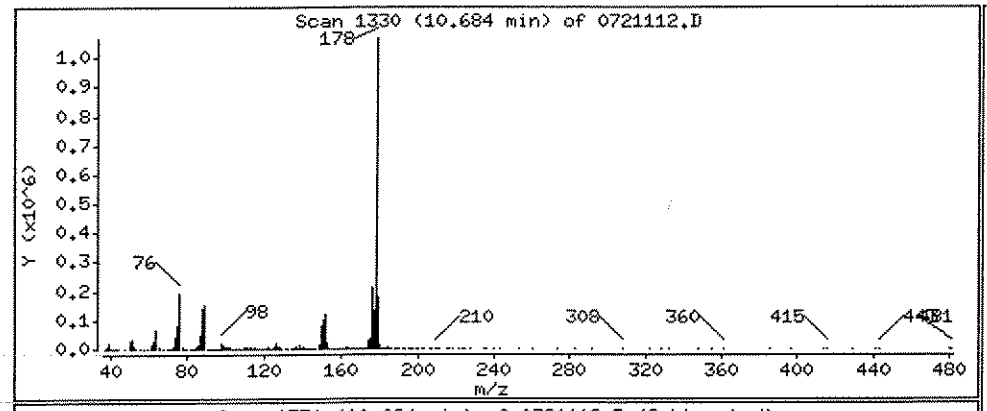
Client ID: 51DUP1S060725 Instrument: bna1.i

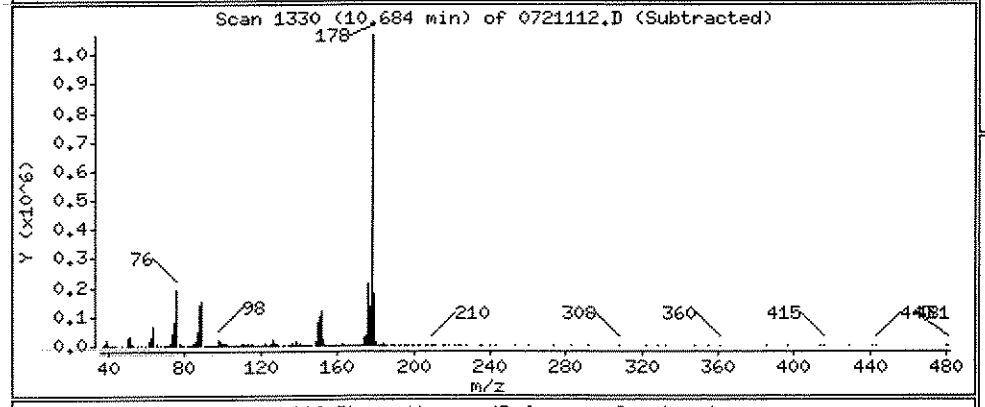
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

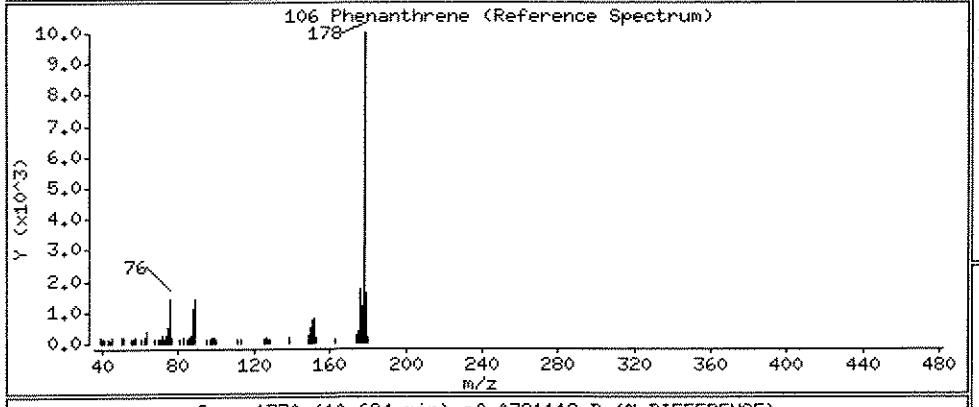
Volume Injected (uL): 0.5 Operator: SDB

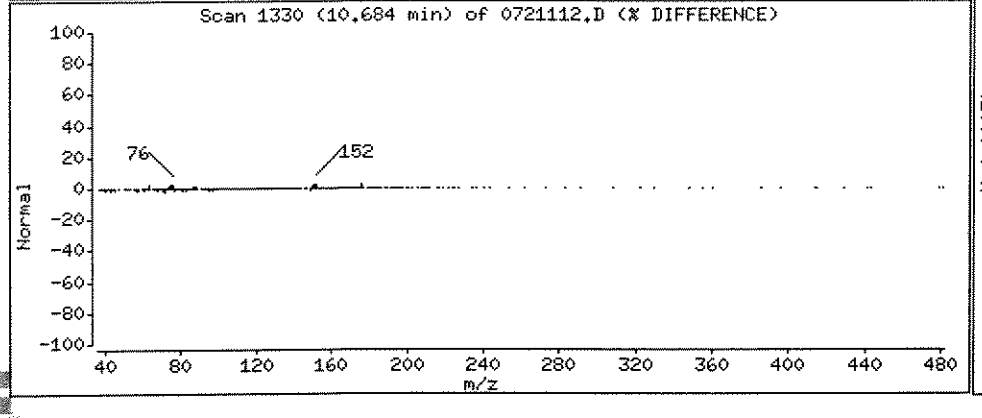
Column phase: fused silica Column diameter: 0.25

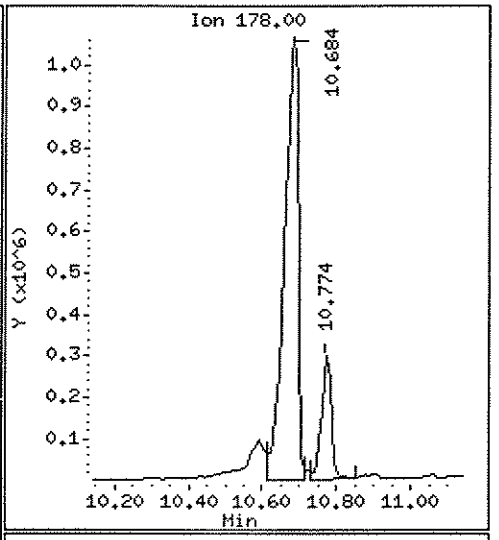
106 Phenanthrene Concentration: 3378 UG/KG

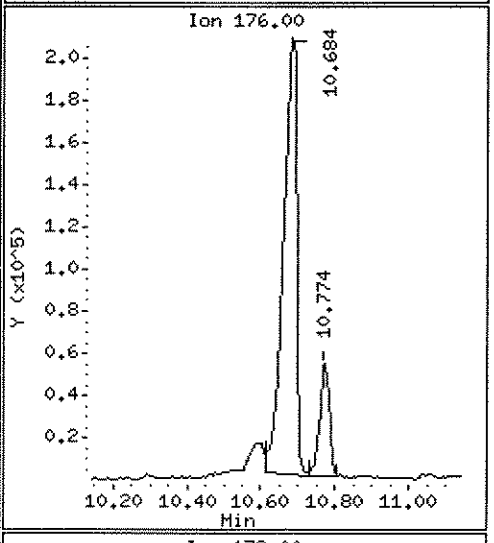


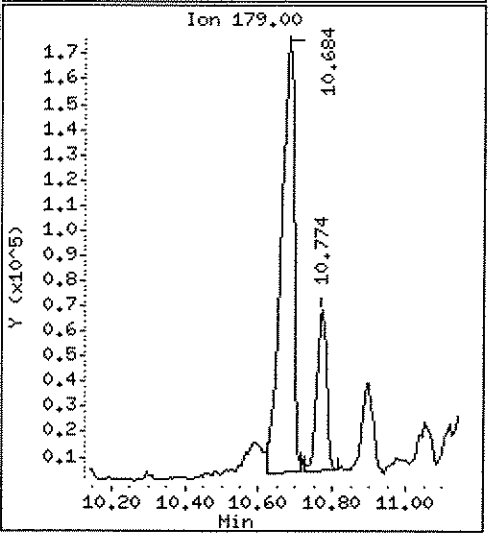












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000254

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

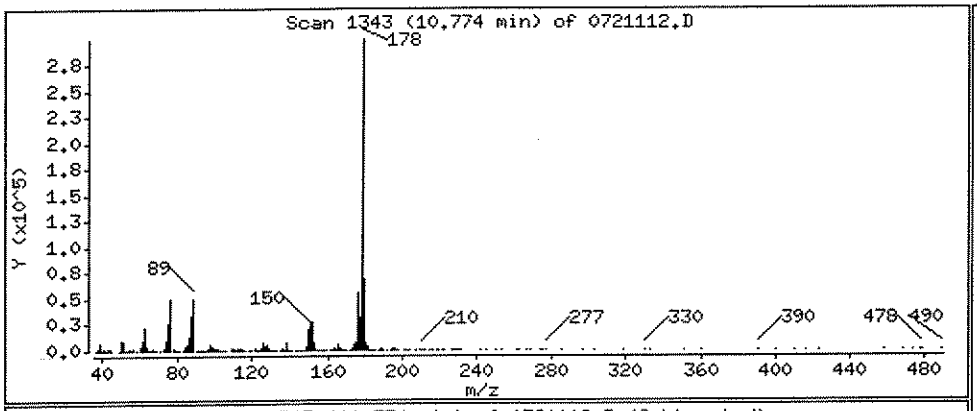
Client ID: 51DUP1S060725 Instrument: bna1.i

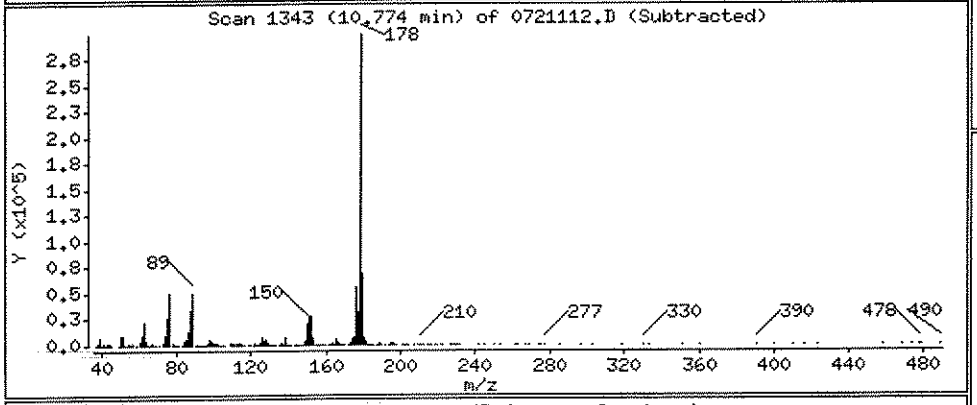
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

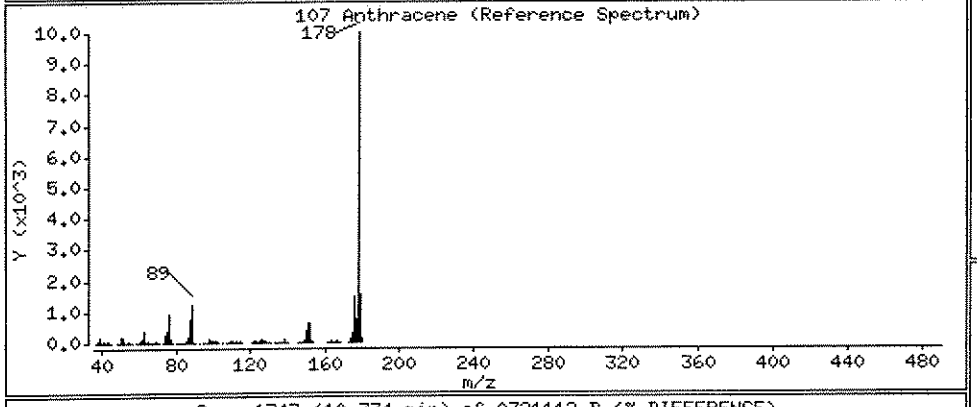
Volume Injected (uL): 0.5 Operator: SDB

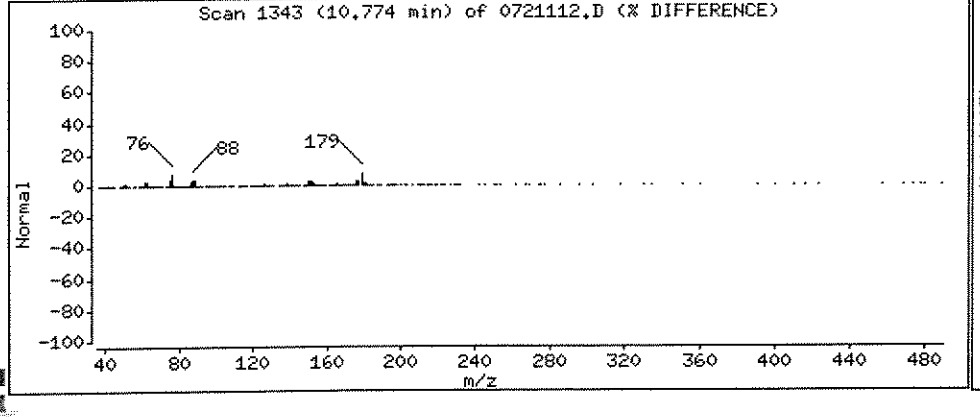
Column phase: fused silica Column diameter: 0.25

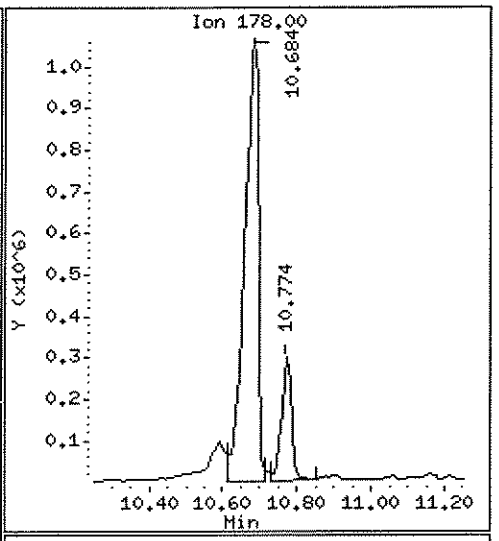
107 Anthracene Concentration: 688.5 UG/KG

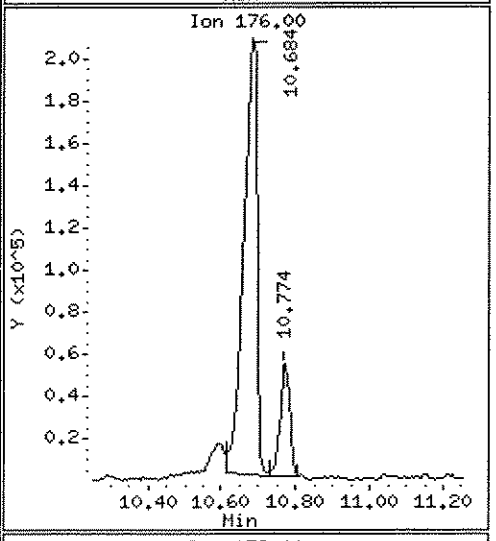


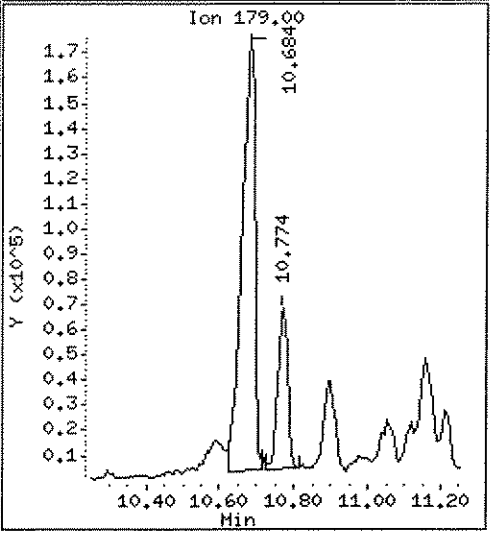












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

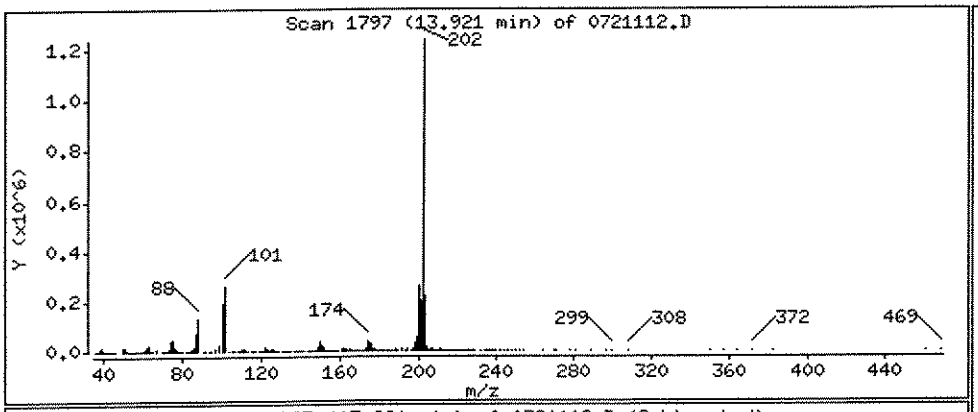
Client ID: 51DUP1S060725 Instrument: bna1.i

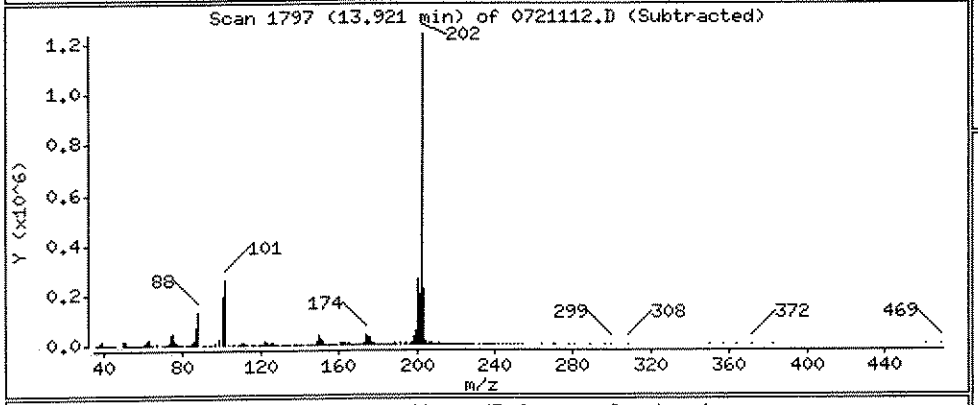
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

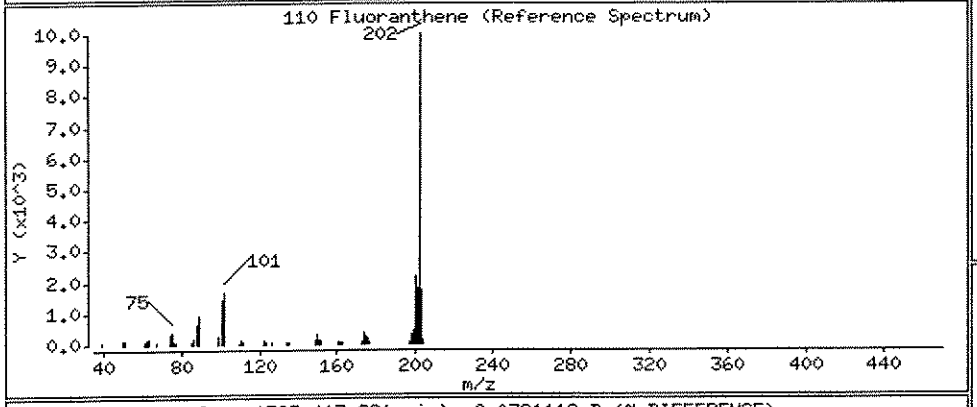
Volume Injected (uL): 0.5 Operator: SDB

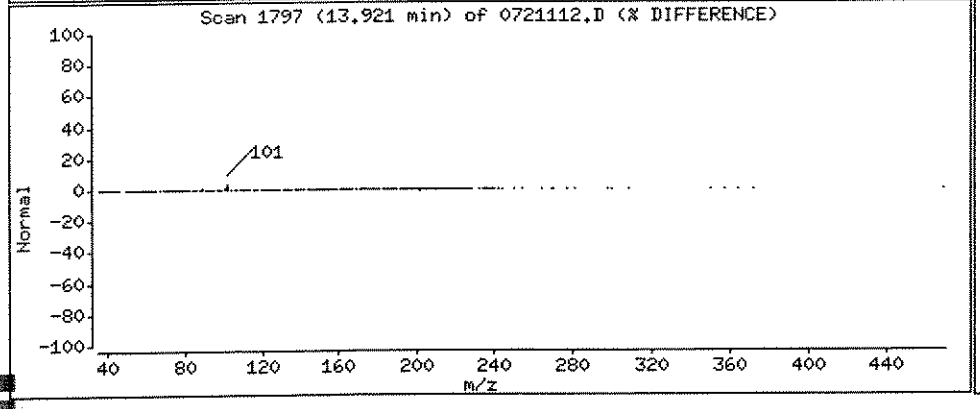
Column phase: fused silica Column diameter: 0.25

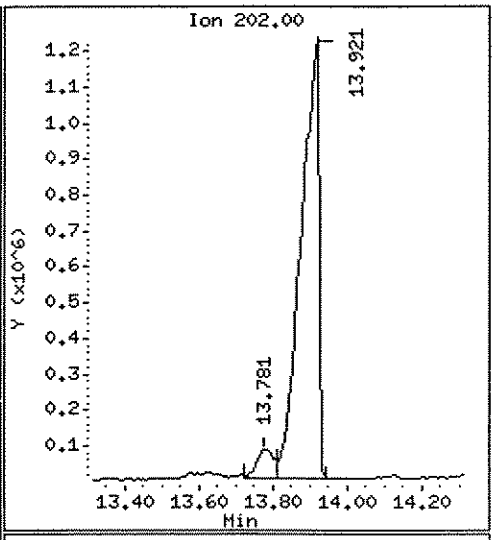
110 Fluoranthene Concentration: 5190 UG/KG

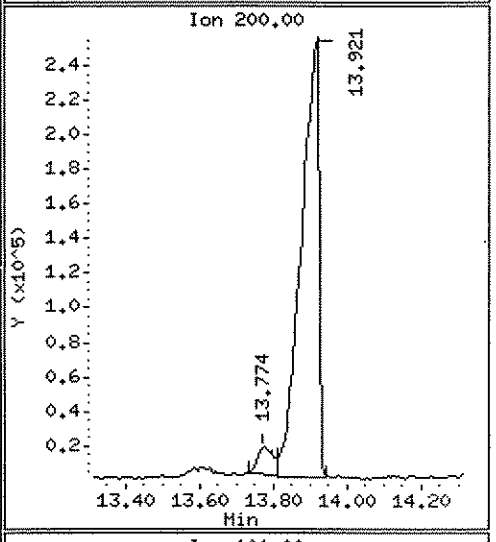


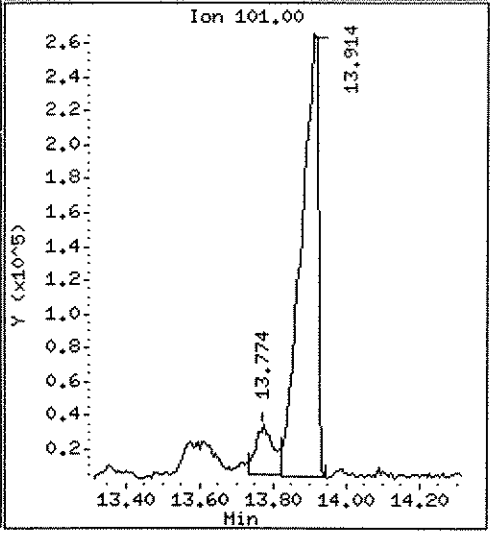












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

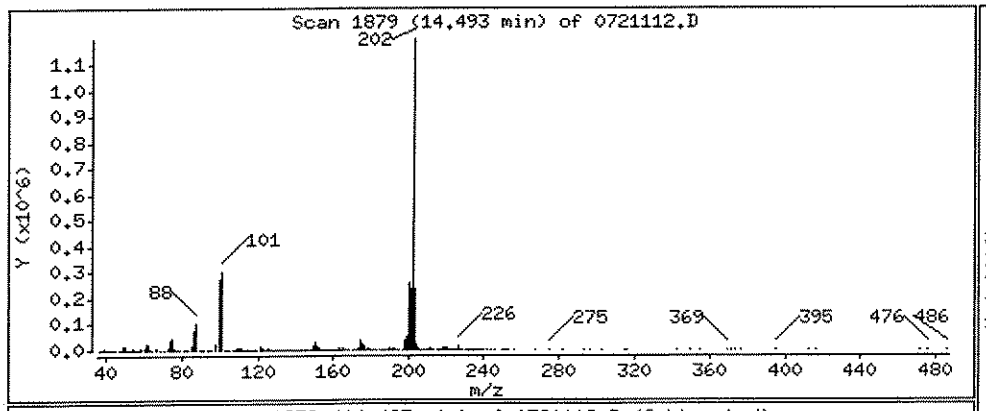
Client ID: 51DUP1S060725 Instrument: bna1.i

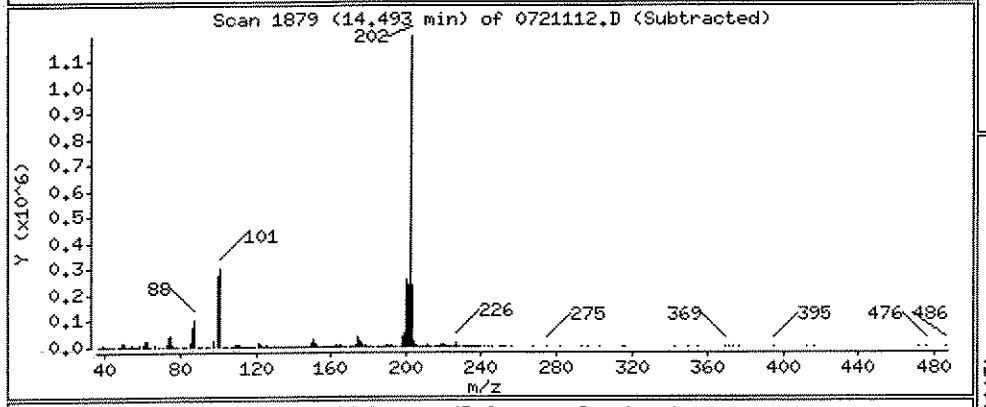
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

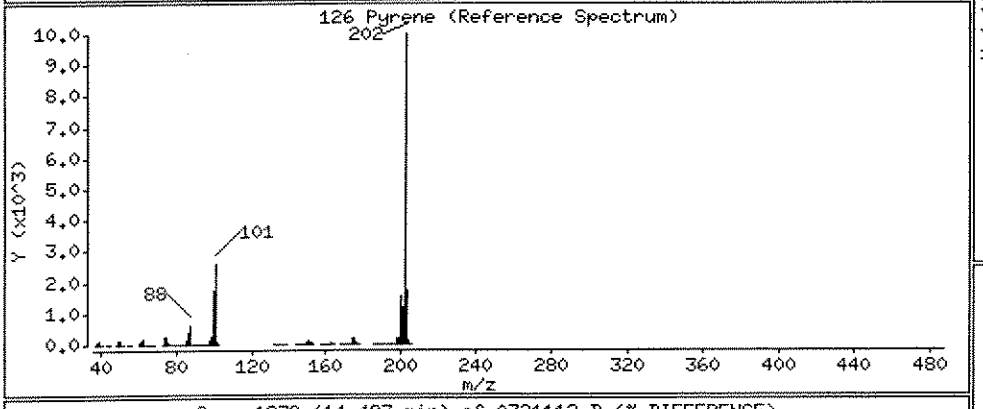
Volume Injected (uL): 0.5 Operator: SDB

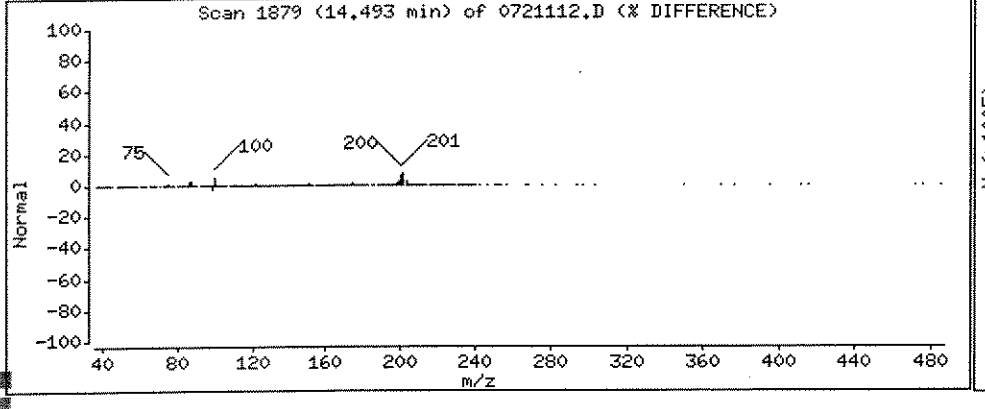
Column phase: fused silica Column diameter: 0.25

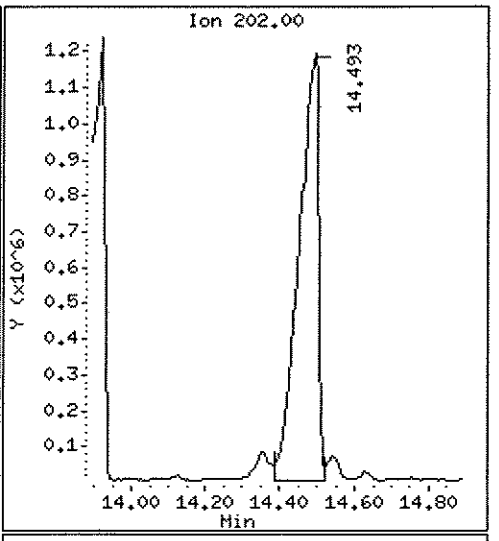
126 Pyrene Concentration: 5908 UG/KG

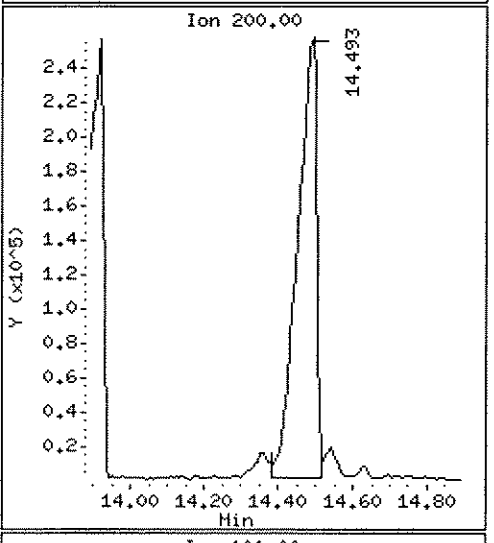


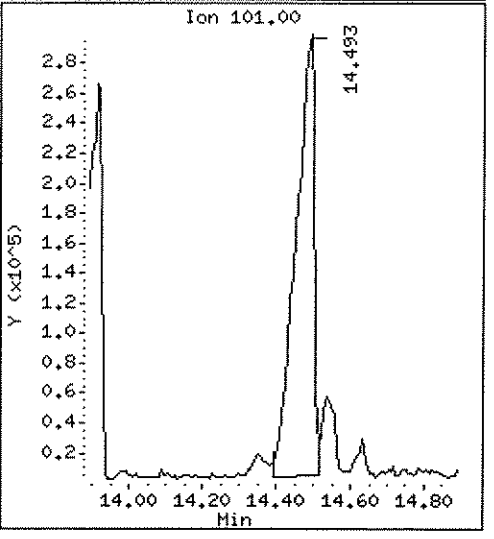












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

Client ID: 51DUP1S060725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

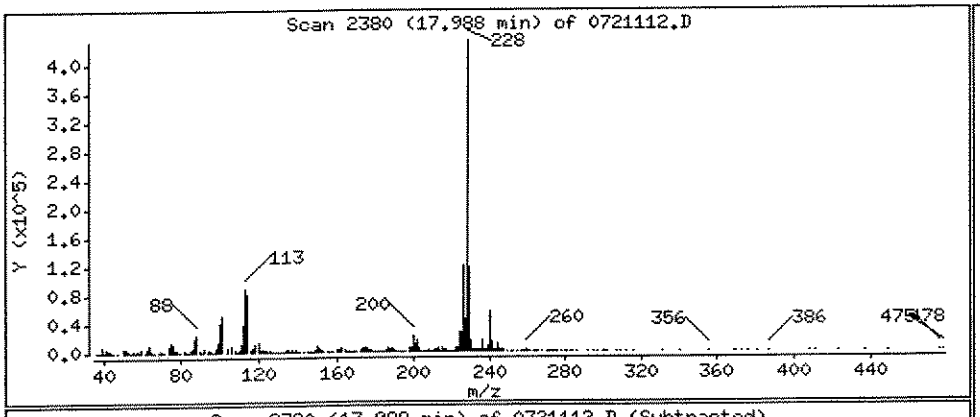
Operator: SDB

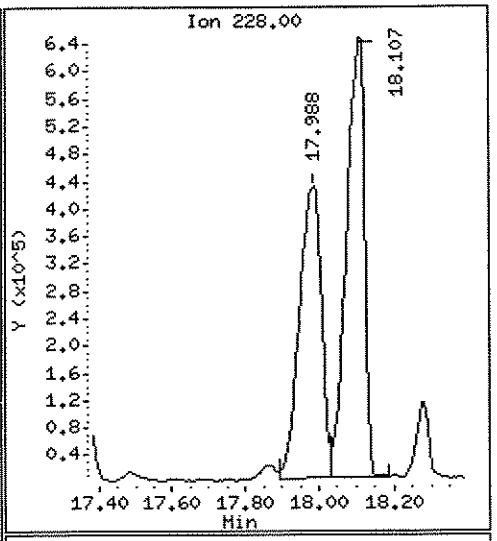
Column phase: fused silica

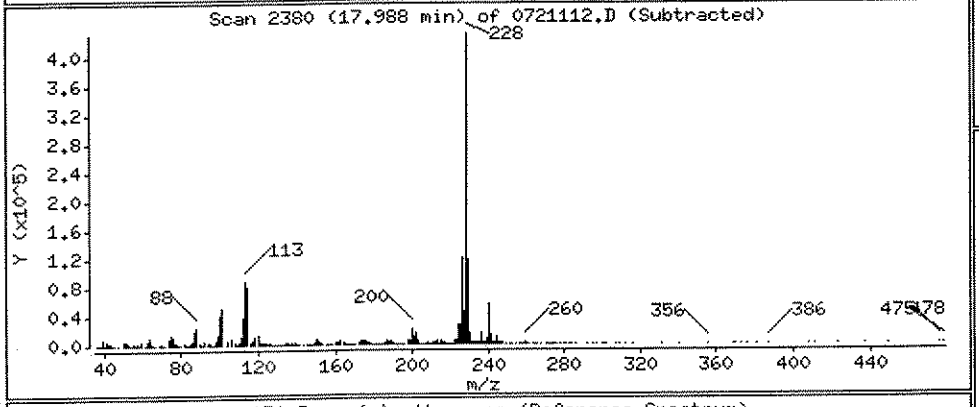
Column diameter: 0.25

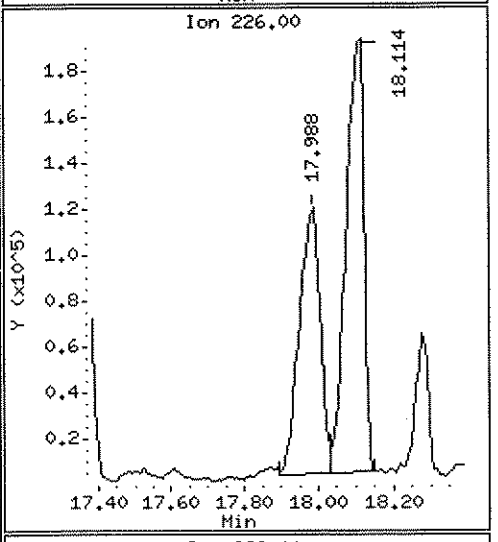
130 Benzo(a)anthracene

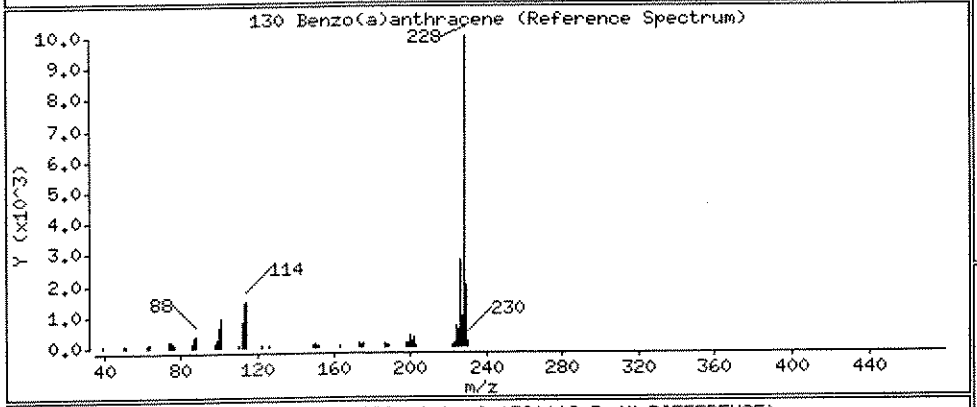
Concentration: 2984 UG/KG

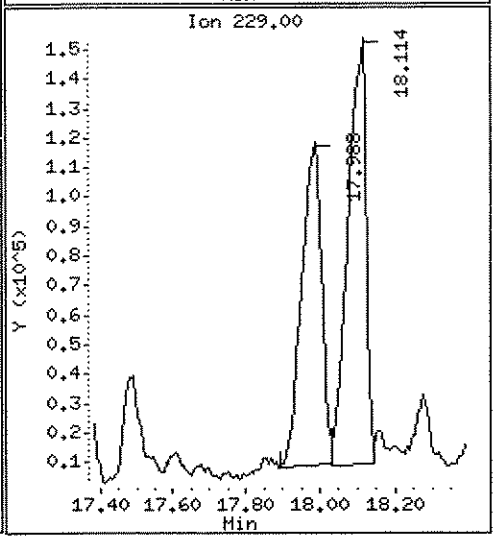


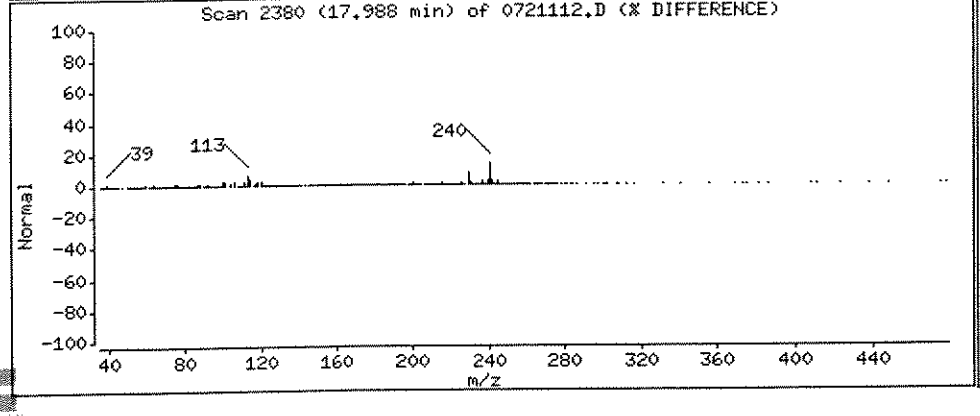












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

Client ID: 51DUP1S060725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

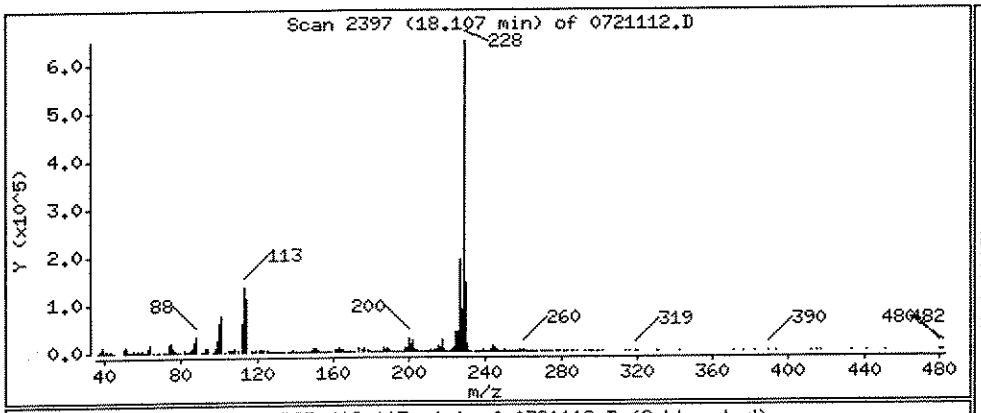
Operator: SDB

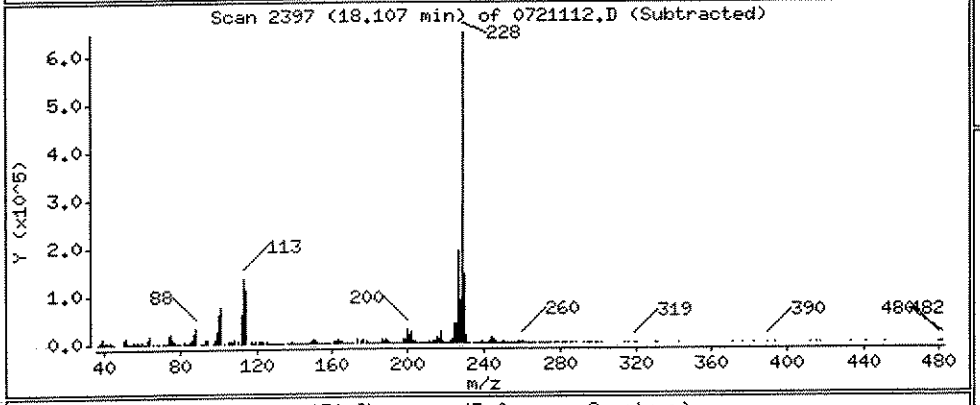
Column phase: fused silica

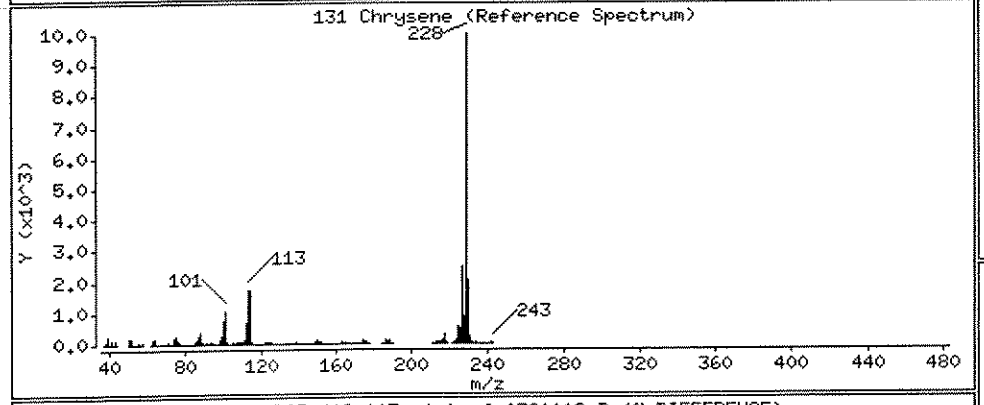
Column diameter: 0.25

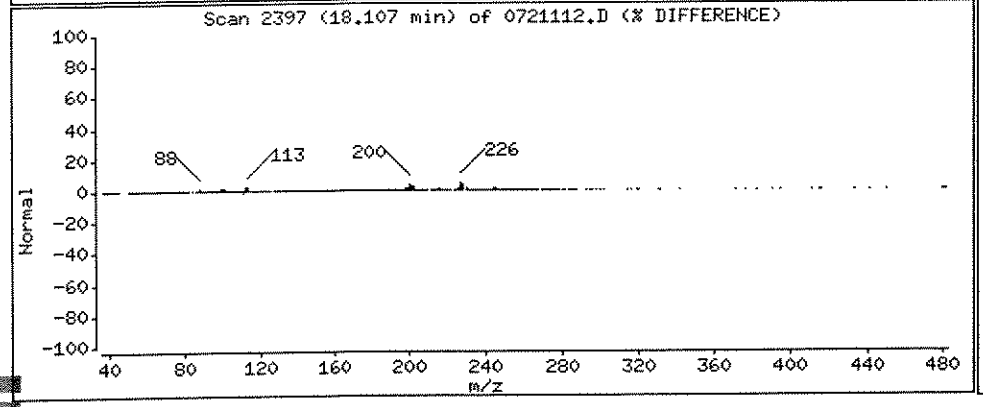
131 Chrysene

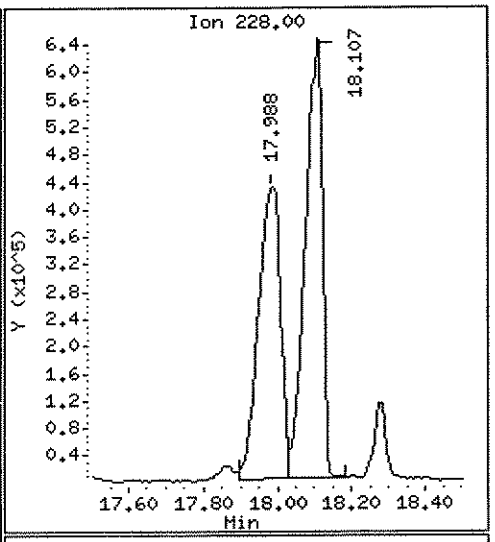
Concentration: 3914 UG/KG

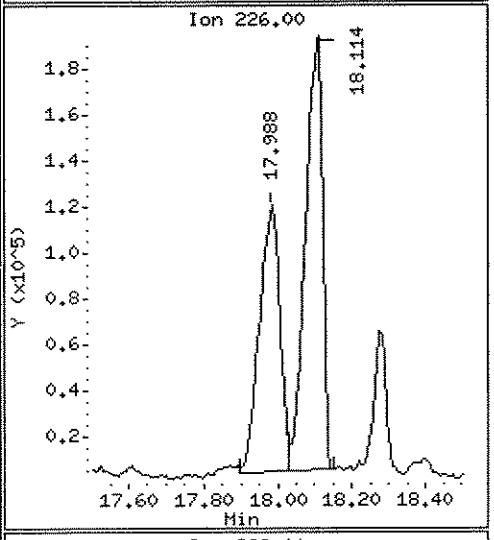


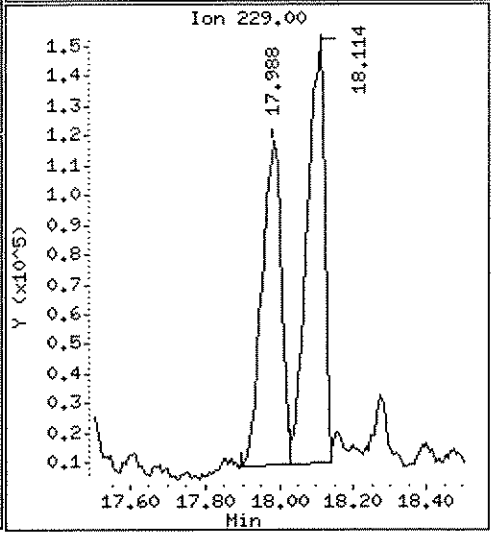












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

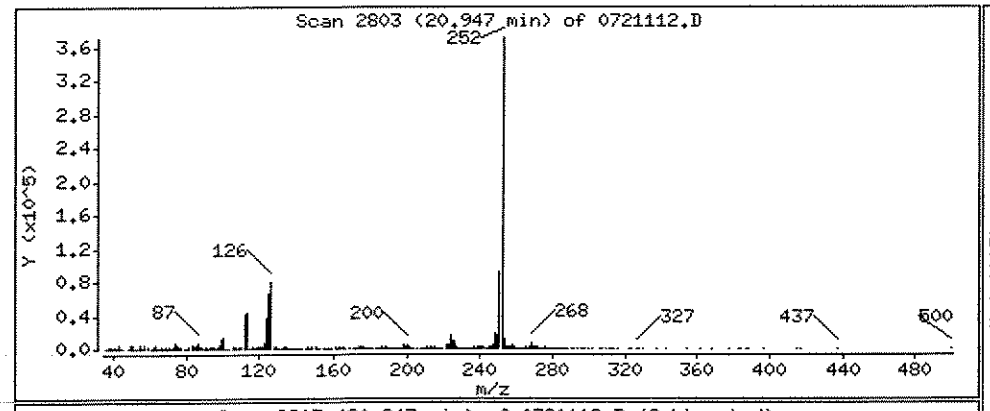
Client ID: 51DUP1S060725 Instrument: bna1.i

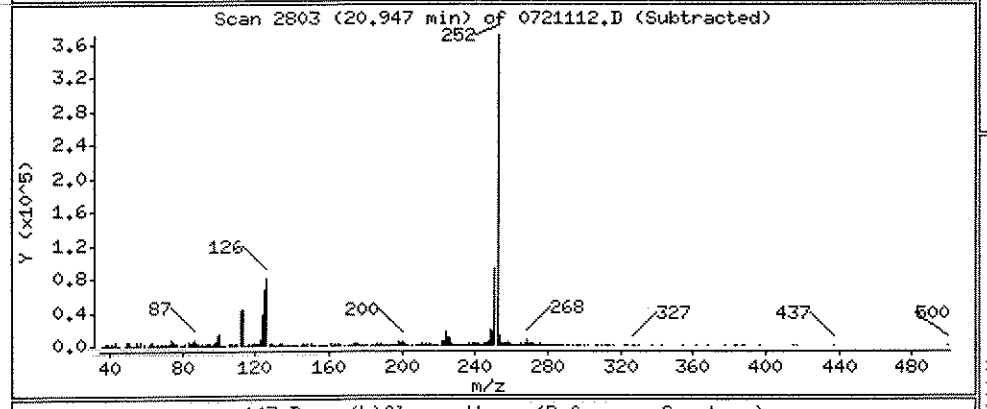
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

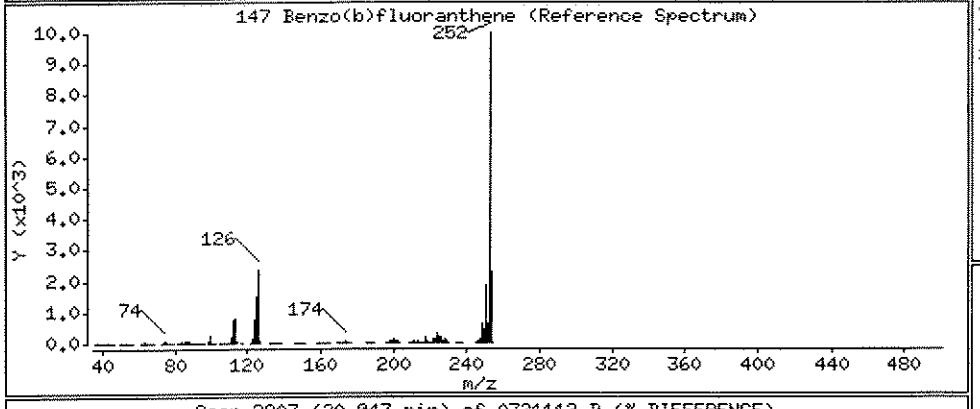
Volume Injected (uL): 0.5 Operator: SDB

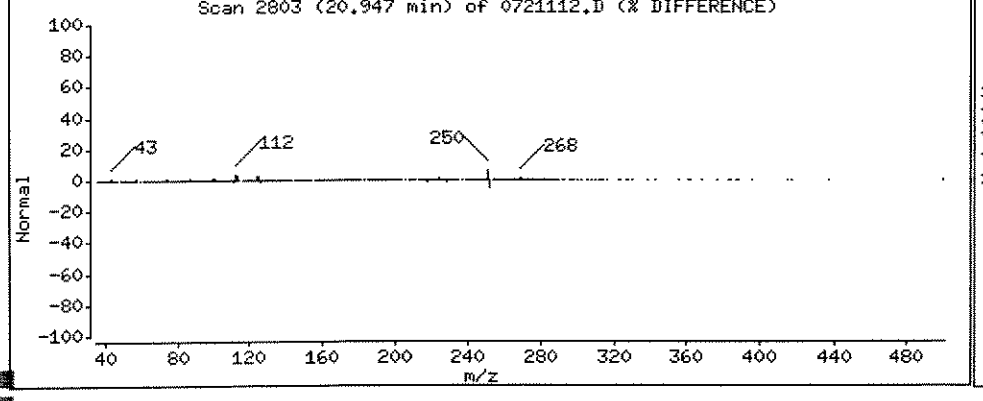
Column phase: fused silica Column diameter: 0.25

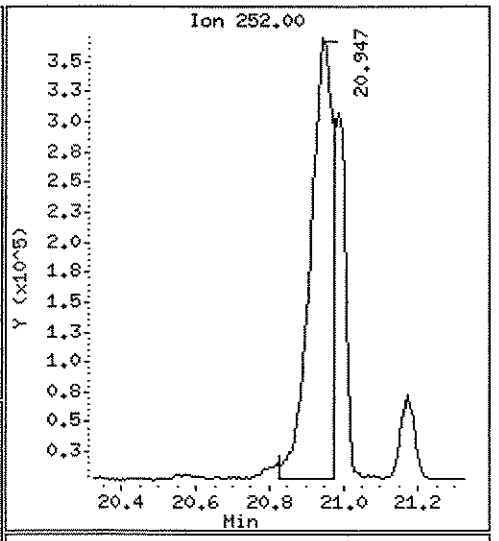
147 Benzo(b)fluoranthene Concentration: 5040 UG/KG

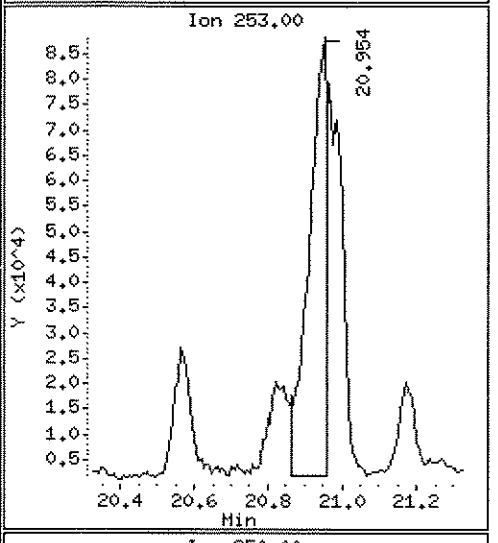


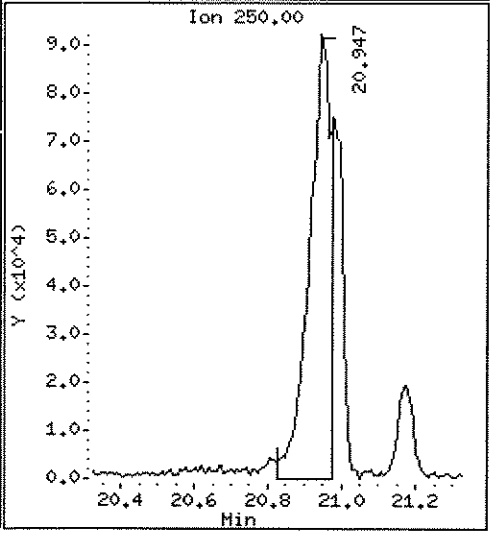












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

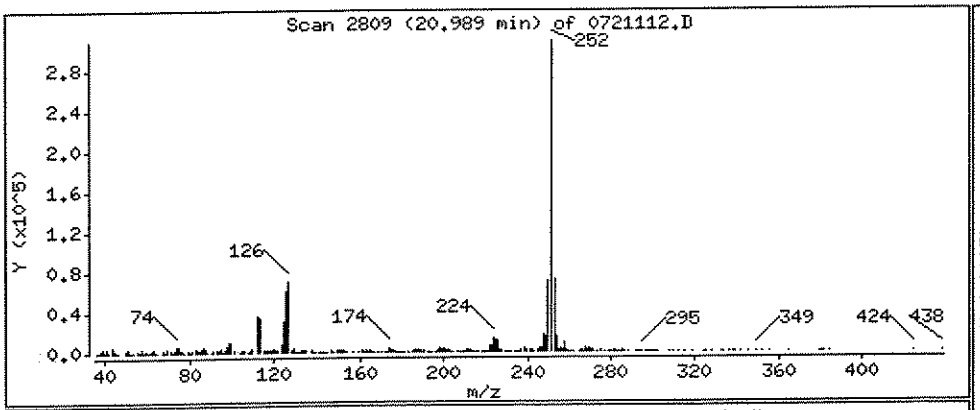
Client ID: 51DUP1S060725 Instrument: bna1.i

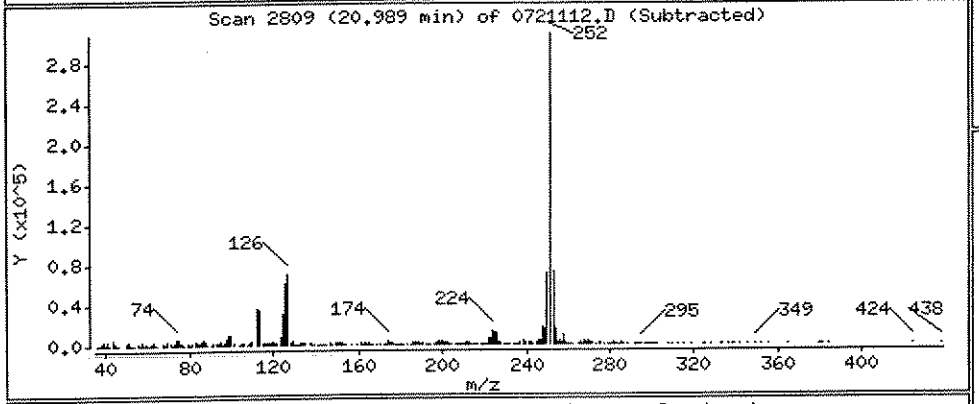
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

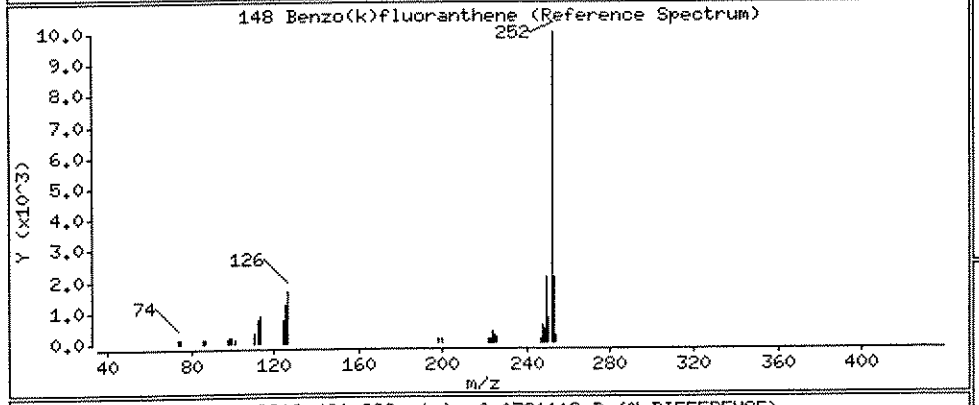
Volume Injected (uL): 0.5 Operator: SDB

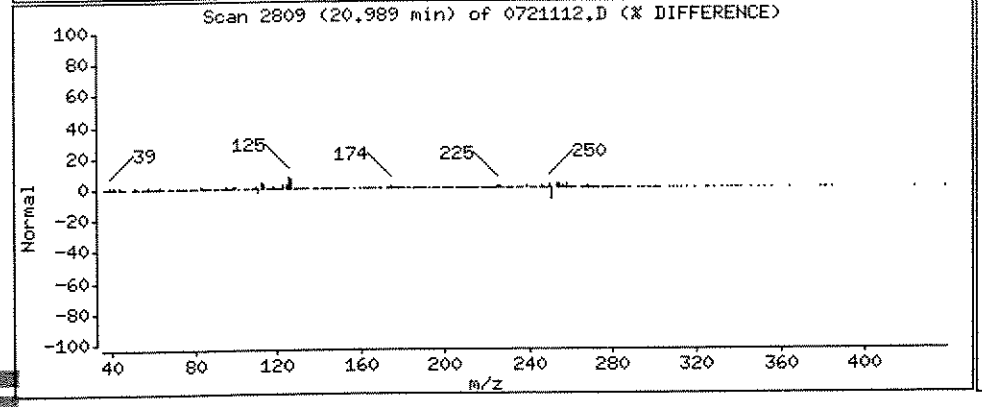
Column phase: fused silica Column diameter: 0.25

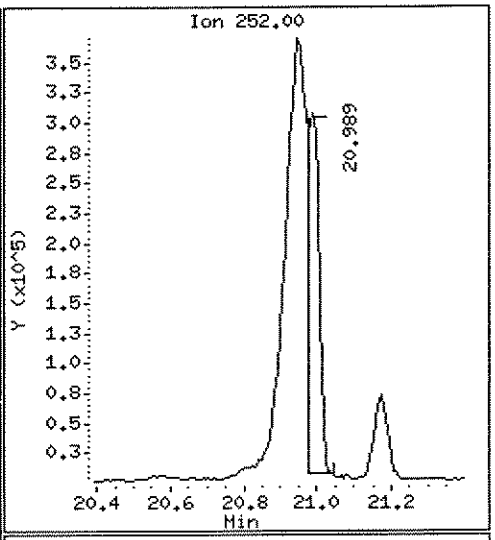
148 Benzo(k)fluoranthene Concentration: 2114 UG/KG

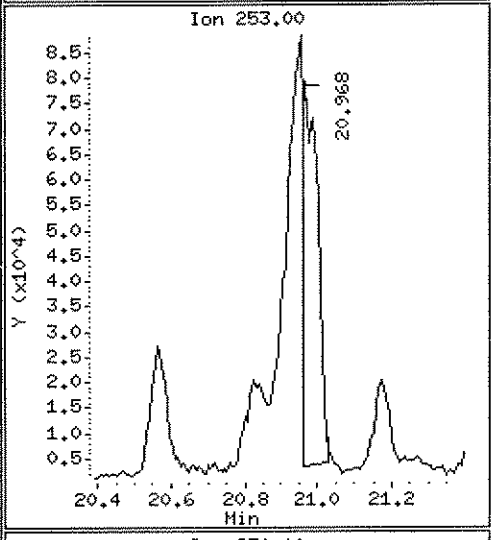


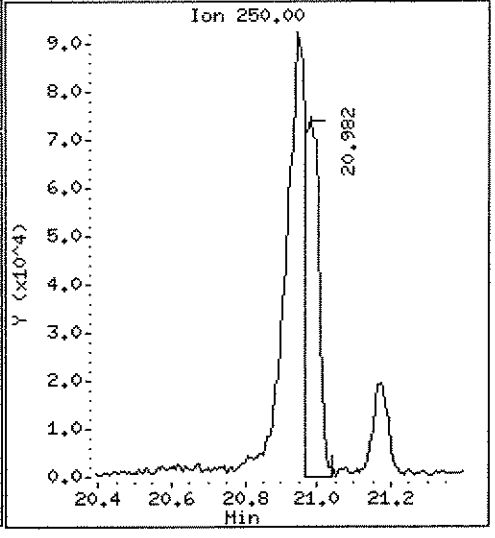












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000261

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

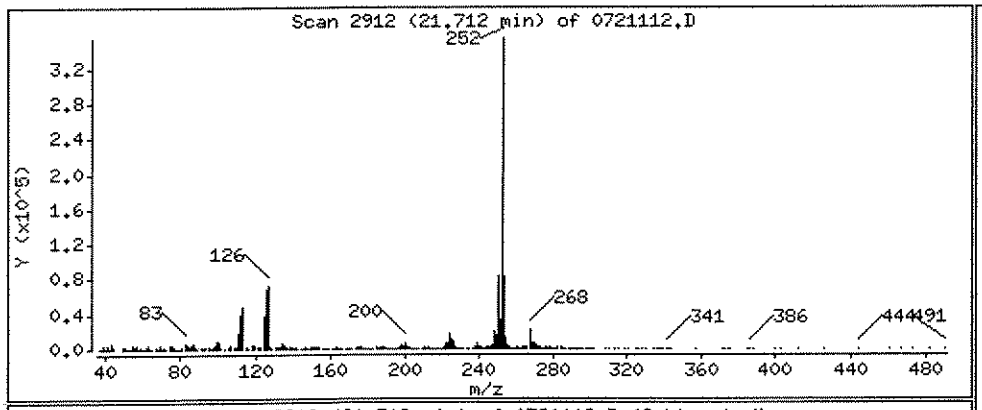
Client ID: 51DUP1S060725 Instrument: bna1.i

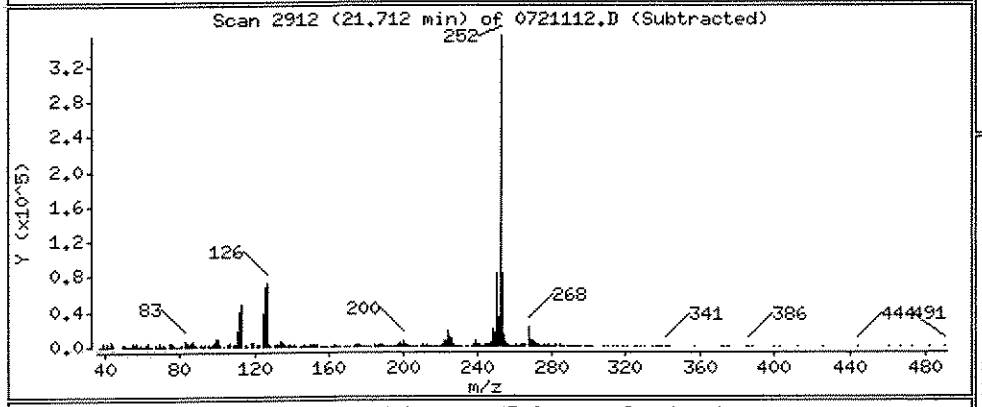
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

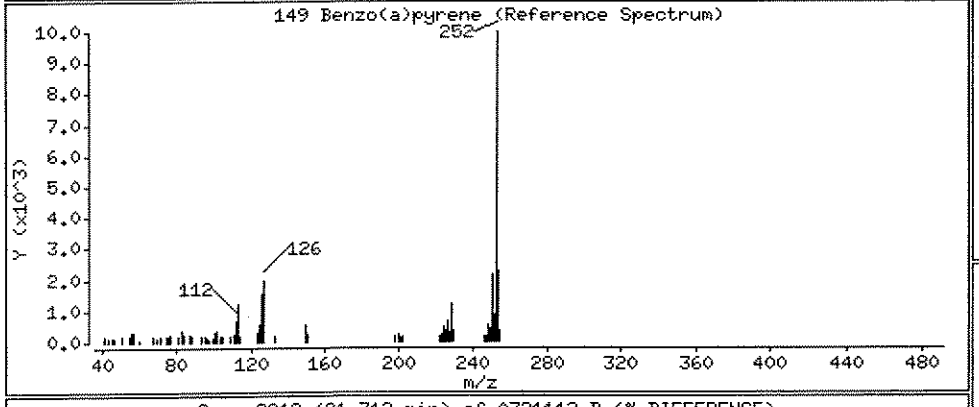
Volume Injected (uL): 0.5 Operator: SDB

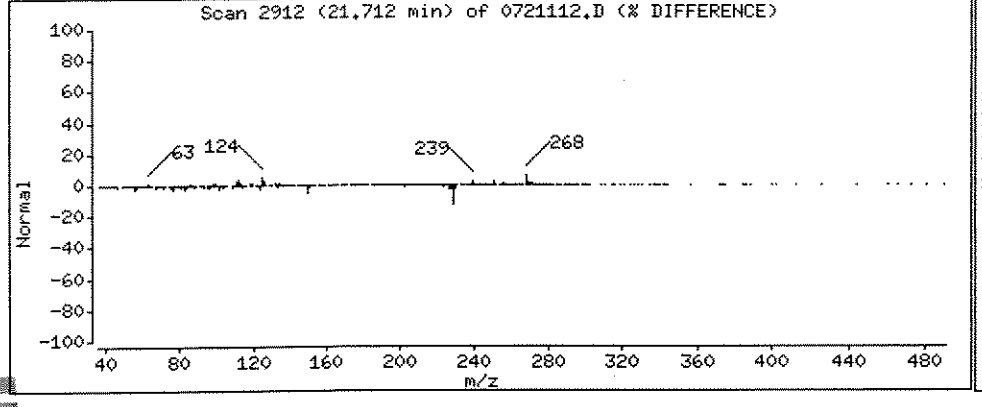
Column phase: fused silica Column diameter: 0.25

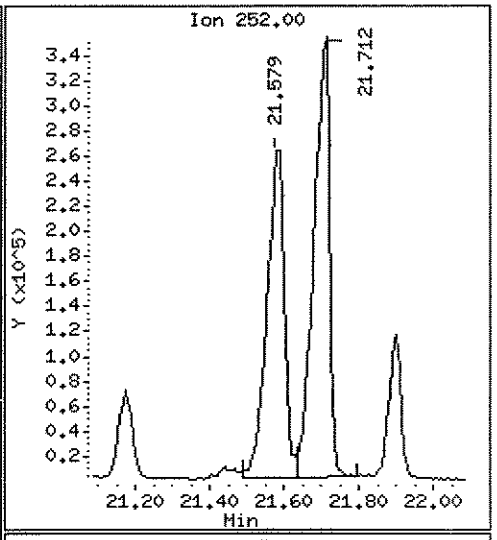
149 Benzo(a)pyrene Concentration: 3864 UG/KG

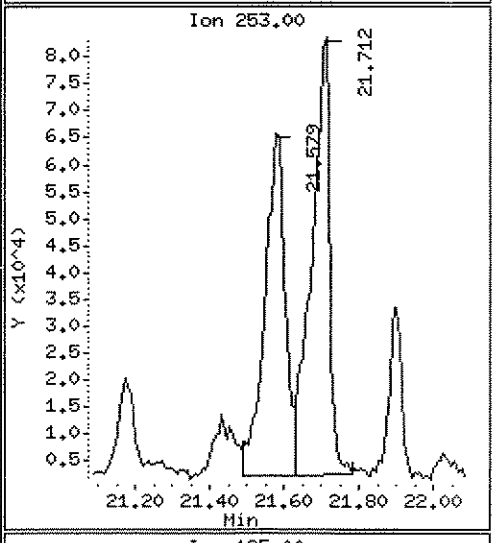


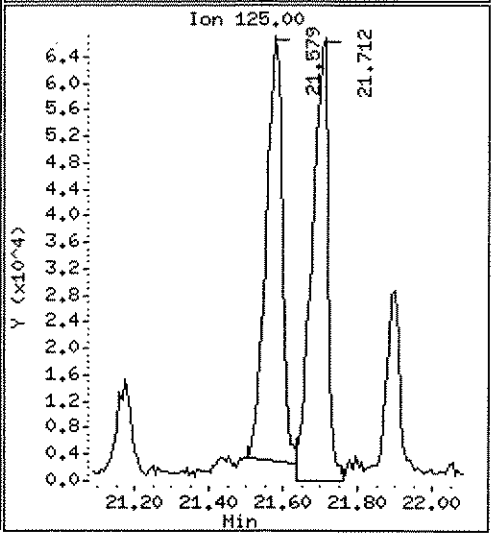












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

Client ID: 51DUP1S060725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

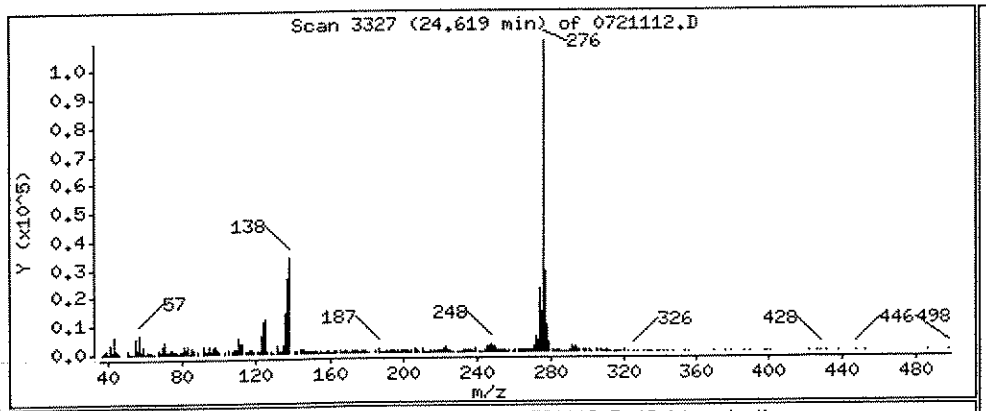
Operator: SDB

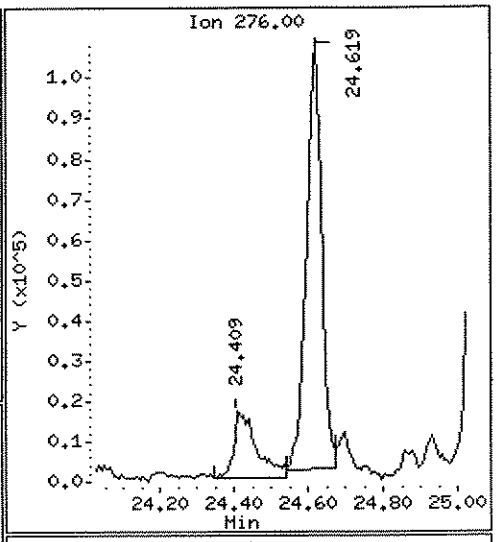
Column phase: fused silica

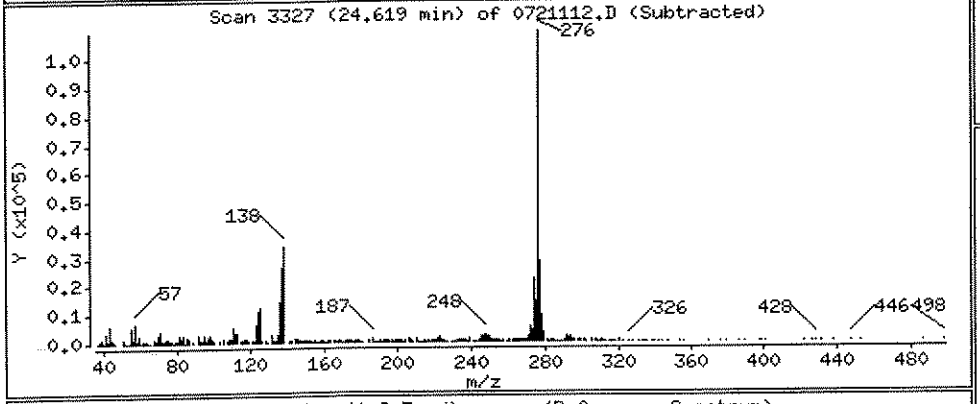
Column diameter: 0.25

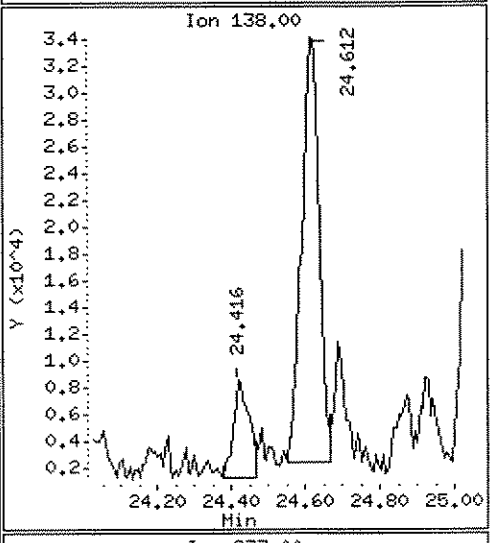
150 Indeno(1,2,3-cd)pyrene

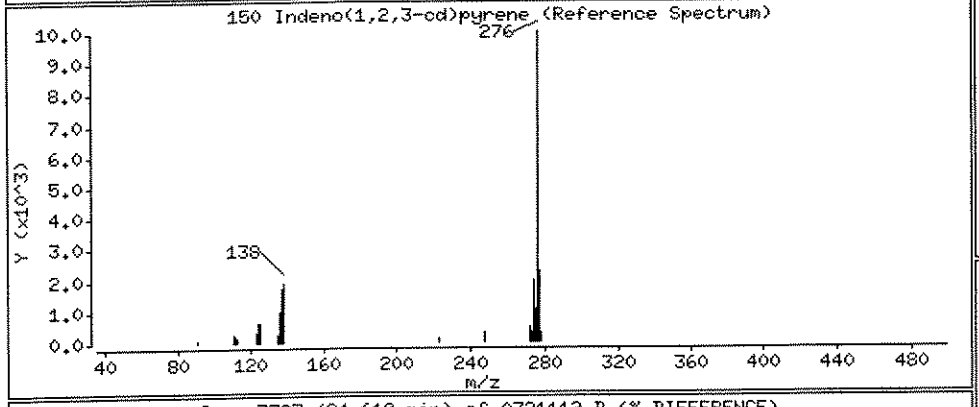
Concentration: 1326 UG/KG

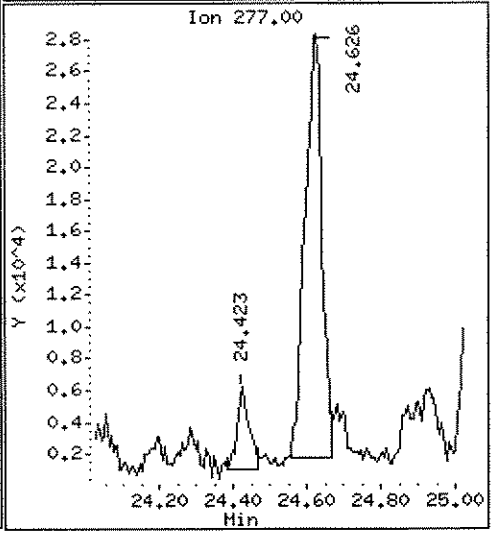


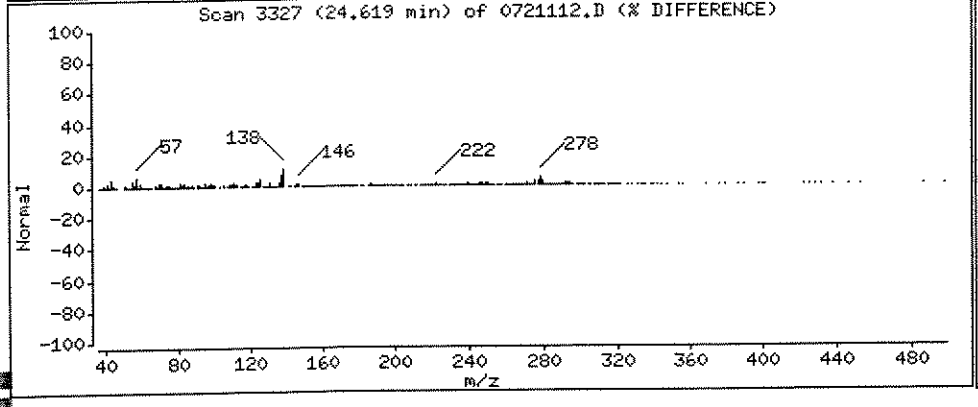












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

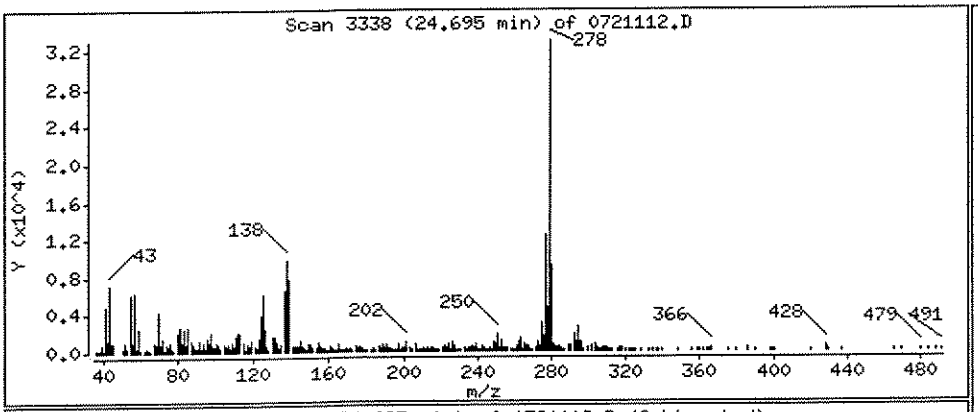
Client ID: 51DUP1S060725 Instrument: bna1.i

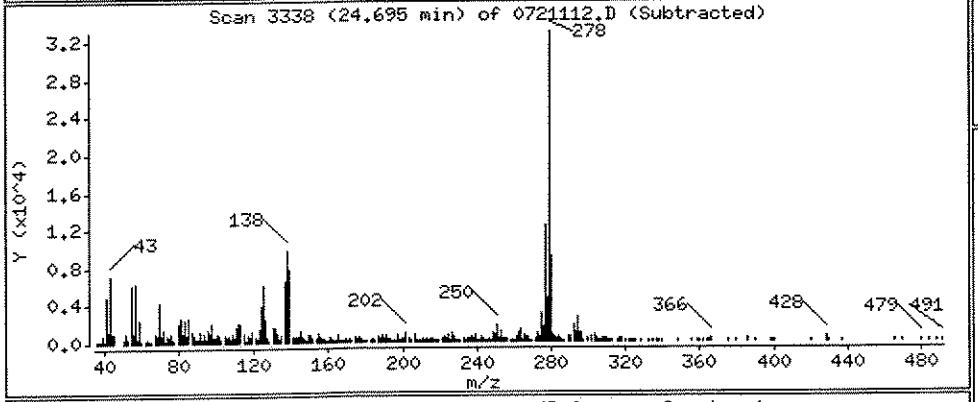
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

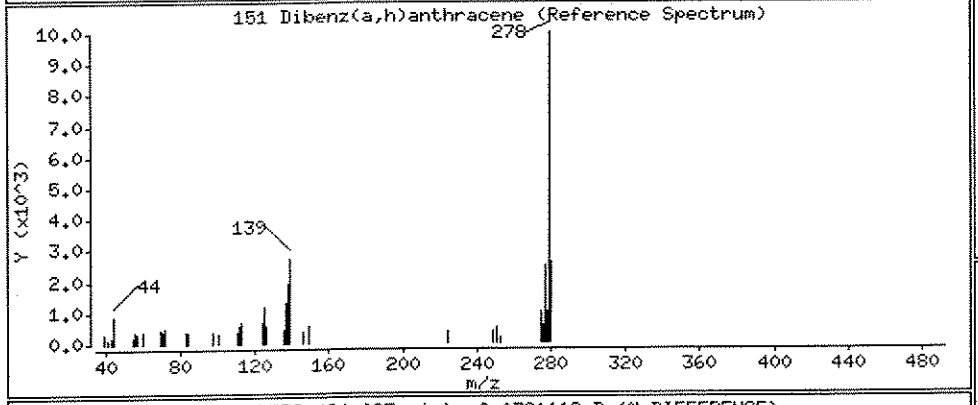
Volume Injected (uL): 0.5 Operator: SDB

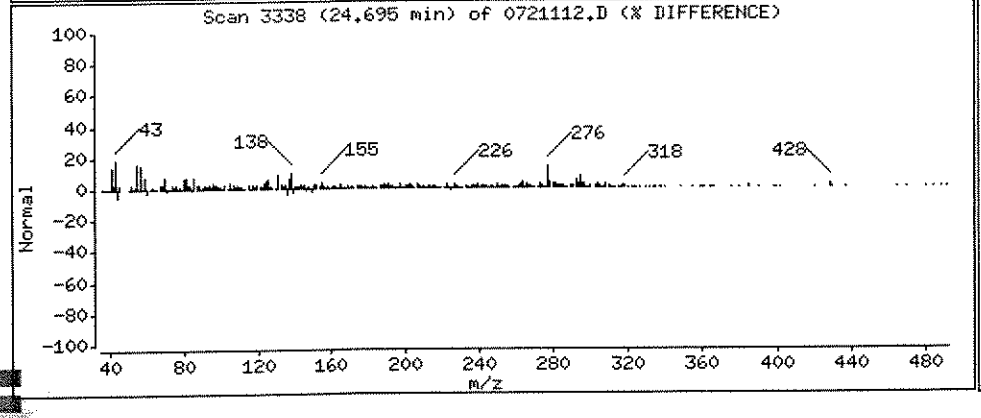
Column phase: fused silica Column diameter: 0.25

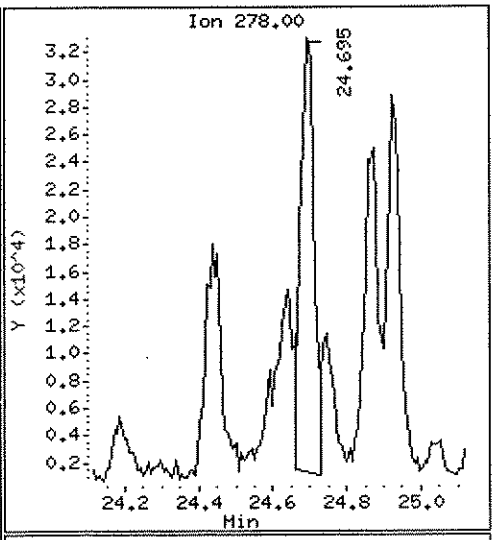
151 Dibenz(a,h)anthracene Concentration: 371.2 UG/KG

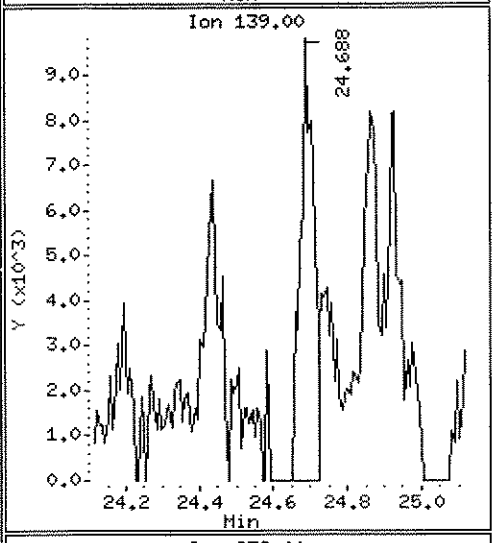


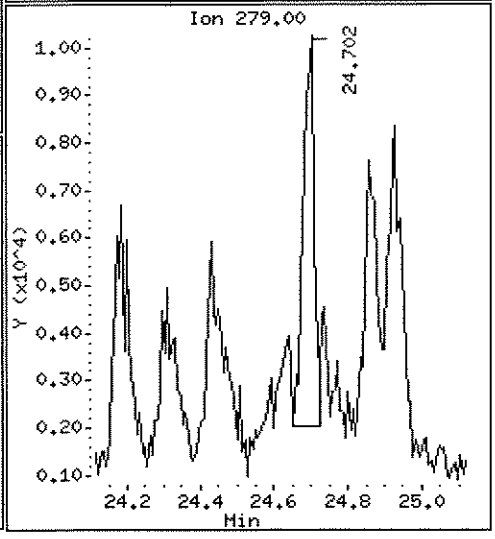












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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721112.D

Date : 26-JUL-2006 22:04

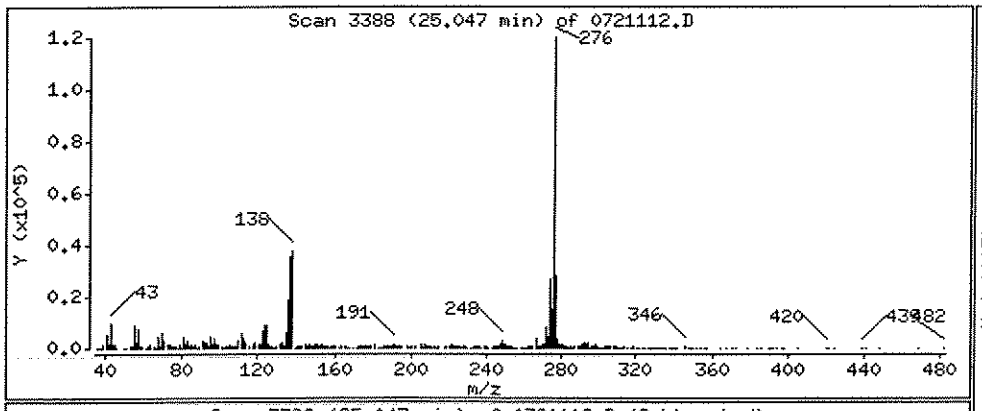
Client ID: 51DUP1S060725 Instrument: bna1.i

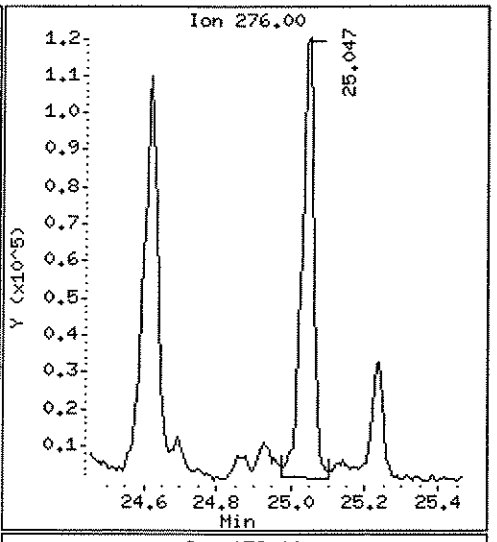
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

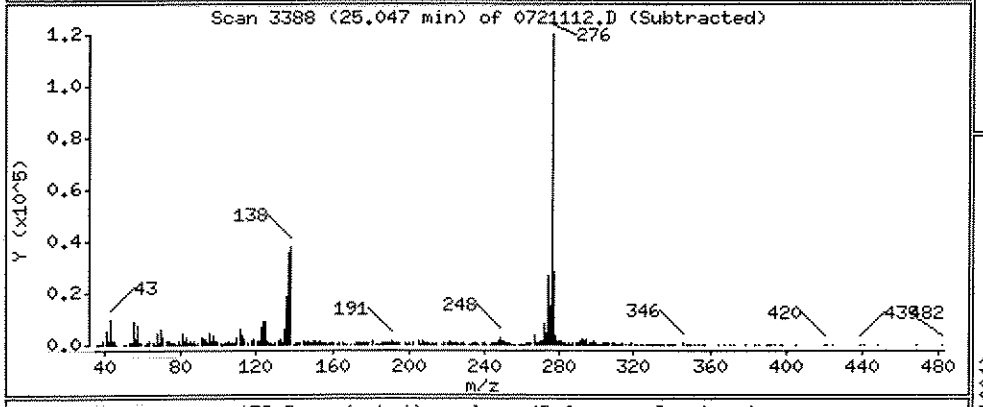
Volume Injected (uL): 0.5 Operator: SDB

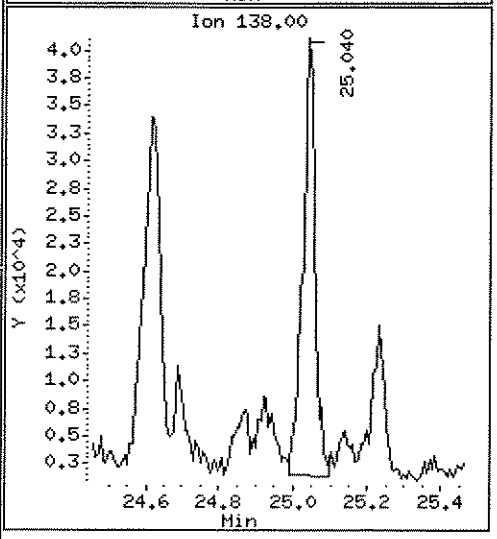
Column phase: fused silica Column diameter: 0.25

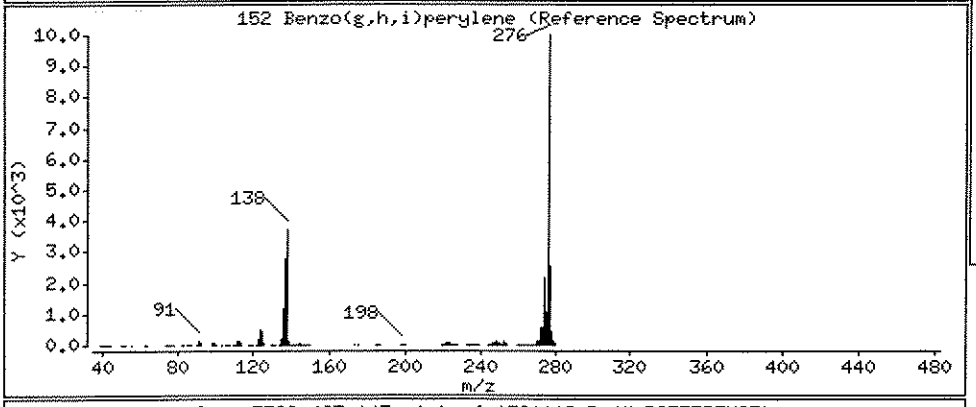
152 Benzo(g,h,i)perylene Concentration: 1176 UG/KG

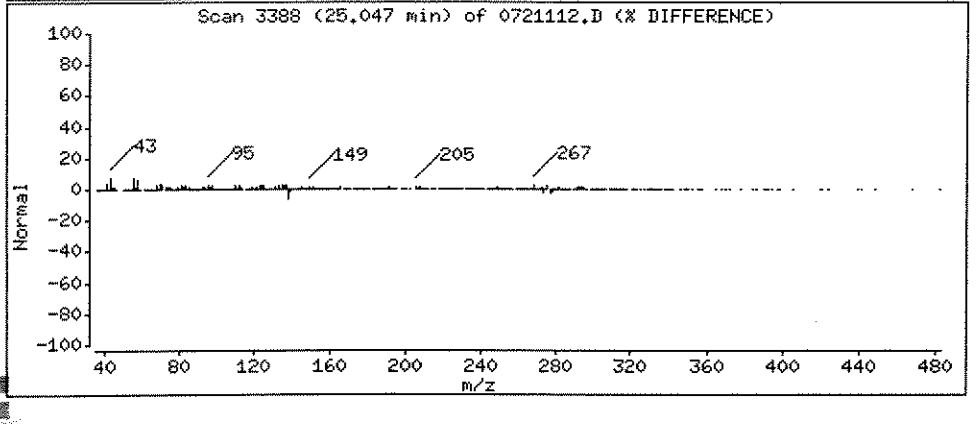












Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51DUP1S060725DL

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721112D

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/27/06 14:28

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	210	1700	330	JD
208-96-8	Acenaphthylene	210	1700		UD
120-12-7	Anthracene	210	1700	620	JD
56-55-3	Benzo(a)anthracene	210	1700	3200	D
205-99-2	Benzo(b)fluoranthene	210	1700	5500	D
207-08-9	Benzo(k)fluoranthene	210	1700	3700	D
191-24-2	Benzo(g,h,i)perylene	210	1700	2900	D
50-32-8	Benzo(a)pyrene	210	1000	5200	D
218-01-9	Chrysene	210	1700	3900	D
53-70-3	Dibenz(a,h)anthracene	210	1000		UD
206-44-0	Fluoranthene	210	1700	5600	D
86-73-7	Fluorene	210	1700	300	JD
193-39-5	Indeno(1,2,3-cd)pyrene	210	1700	2900	D
91-57-6	2-Methylnaphthalene	210	1700		UD
90-12-0	1-Methylnaphthalene	520	1700		UD
91-20-3	Naphthalene	210	1700		UD
85-01-8	Phenanthrene	210	1700	3900	D
129-00-0	Pyrene	210	1700	6600	D

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D
Report Date: 28-Jul-2006 06:35

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D
Lab Smp Id: 0607211-12 Client Smp ID: 51DUP1S060725
Inj Date : 27-JUL-2006 14:28
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-12;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 28-Jul-2006 06:34 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	94.500	Percent Solids

7/28/06

7/28/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.087	4.088	(1.000)	503033	40.0000	
*	31 Naphthalene-d8	136	5.051	5.055	(1.000)	1596069	40.0000	
$	32 Nitrobenzene-d5	82	4.518	4.527	(0.894)	49050	2.81523	980.0(a)
*	65 Acenaphthene-d10	164	7.317	7.324	(1.000)	759901	40.0000	
$	70 2-Fluorobiphenyl	172	6.283	6.300	(0.859)	79649	3.29367	1146(a)
	76 Acenaphthene	153	7.365	7.387	(1.007)	21000	0.95755	333.3(a)
	84 Fluorene	166	8.356	8.375	(1.142)	20068	0.85554	297.8(a)
*	97 Phenanthrene-d10	188	10.500	10.512	(1.000)	865526	40.0000	
	106 Phenanthrene	178	10.548	10.568	(1.005)	277221	11.2335	3910
	107 Anthracene	178	10.665	10.685	(1.016)	43471	1.78425	621.1(a)
	110 Fluoranthene	202	13.721	13.736	(1.307)	393244	16.0953	5603
*	124 Chrysene-d12	240	17.837	17.850	(1.000)	481518	40.0000	
	126 Pyrene	202	14.292	14.311	(0.801)	365414	19.0021	6614

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D
Report Date: 28-Jul-2006 06:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
$ 127 Terphenyl-d14	244	15.082	15.093	(0.846)	51387	4.22627	1471(a)
130 Benzo(a)anthracene	228	17.796	17.809	(0.998)	141463	9.11808	3174
131 Chrysene	228	17.900	17.927	(1.004)	159862	11.2815	3927
* 145 Perylene-d12	264	21.640	21.664	(1.000)	263471	40.0000	
147 Benzo(b)fluoranthene	252	20.728	20.746	(0.958)	127555	15.7164	5471(M)
148 Benzo(k)fluoranthene	252	20.769	20.822	(0.960)	88566	10.5180	3661(M)
149 Benzo(a)pyrene	252	21.489	21.512	(0.993)	105189	15.0302	5232
150 Indeno(1,2,3-cd)pyrene	276	24.424	24.452	(1.129)	50050	8.38217	2918
152 Benzo(g,h,i)perylene	276	24.878	24.910	(1.150)	51641	8.33406	2901

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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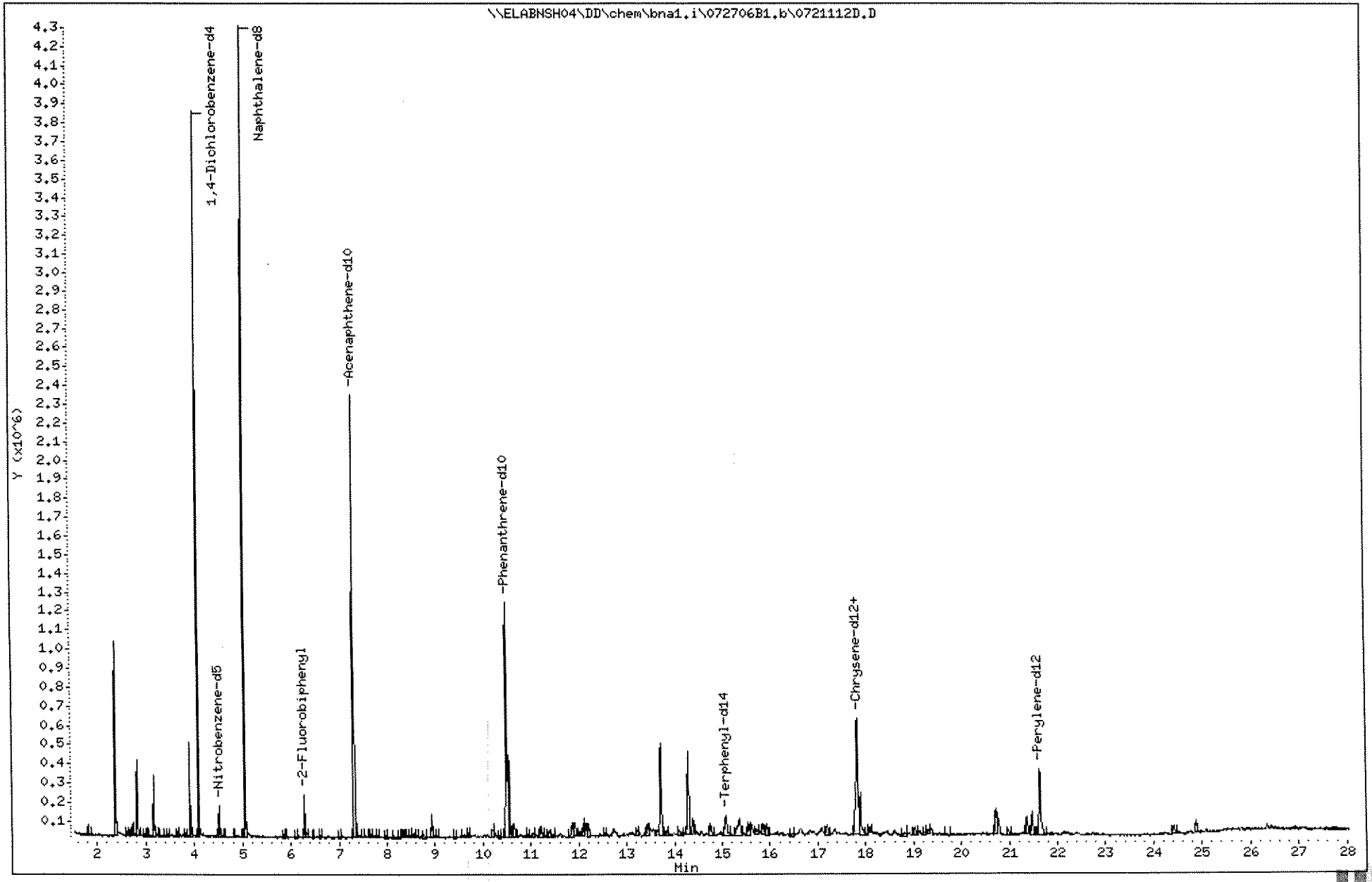
Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D
Date : 27-JUL-2006 14:28
Client ID: 51DUP1S060725
Instrument: bna1.i
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000269



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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

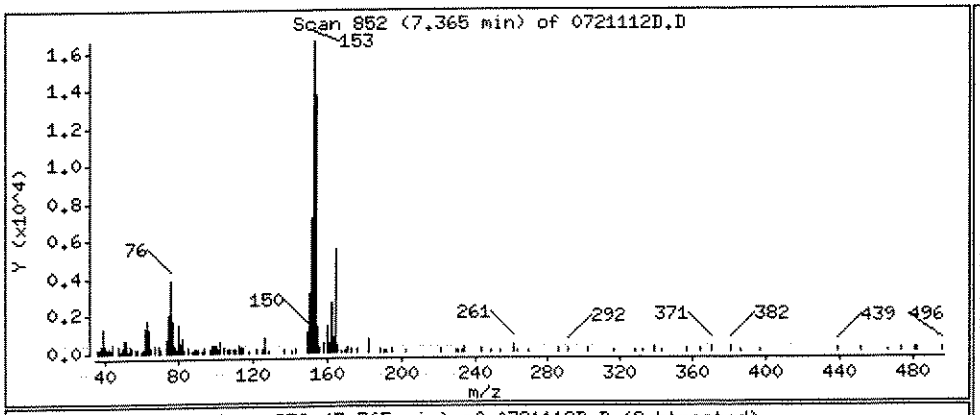
Client ID: 51DUP1S060725 Instrument: bna1.i

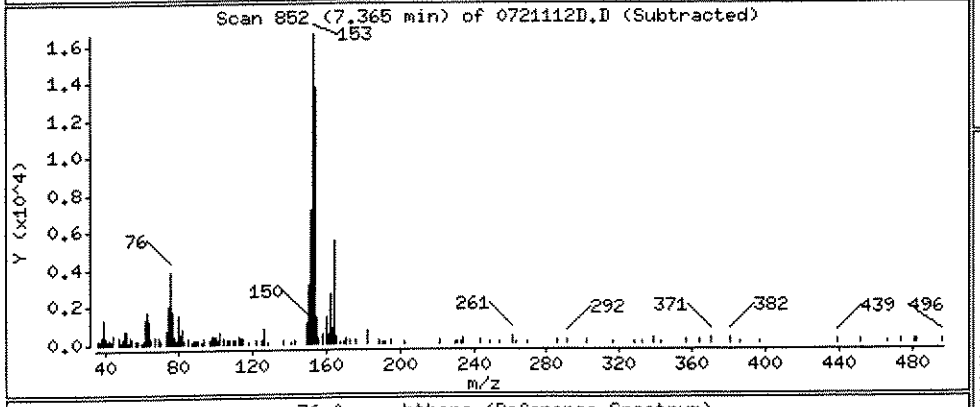
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

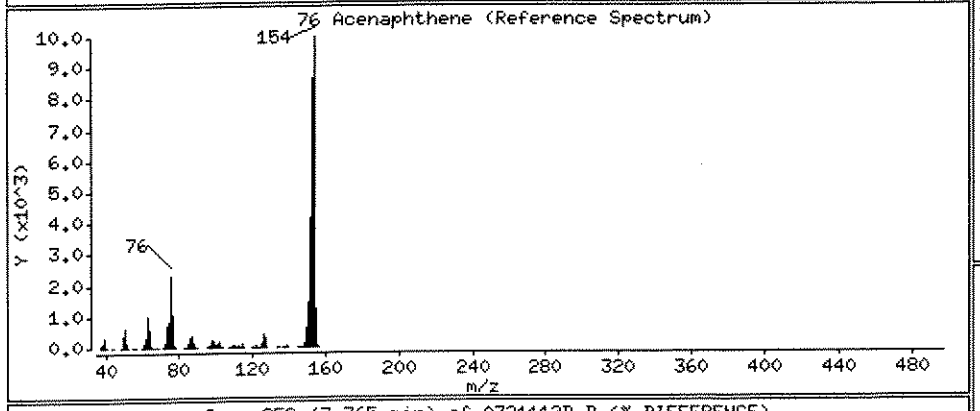
Volume Injected (uL): 0.5 Operator: SDB

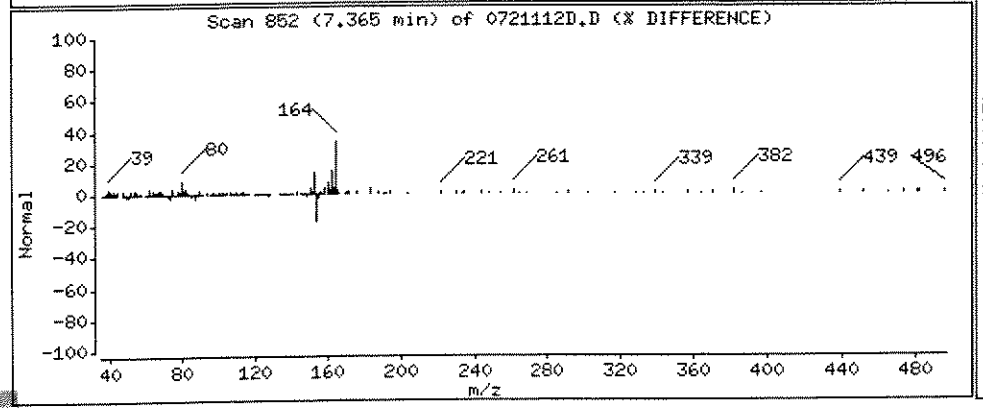
Column phase: fused silica Column diameter: 0.25

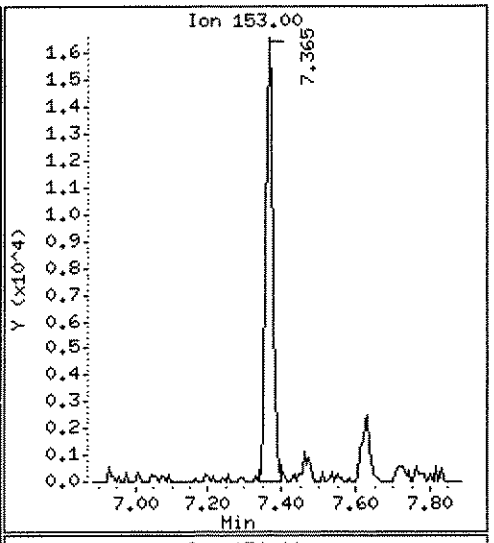
76 Acenaphthene Concentration: 333.3 UG/KG

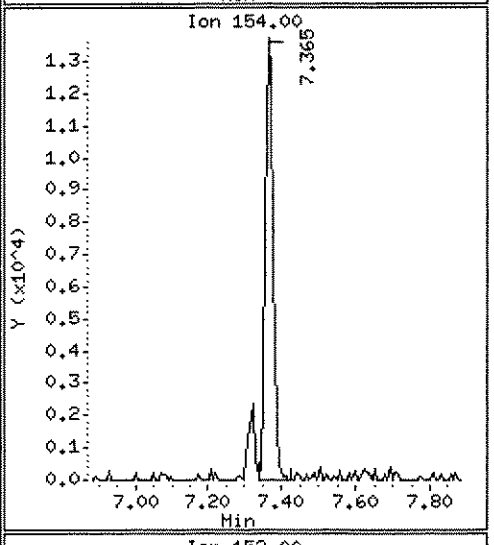


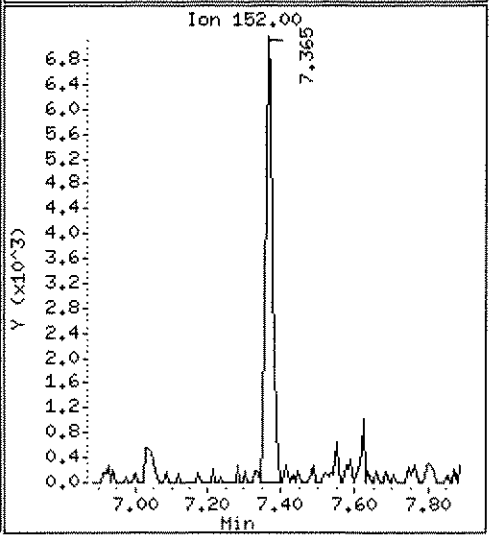












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

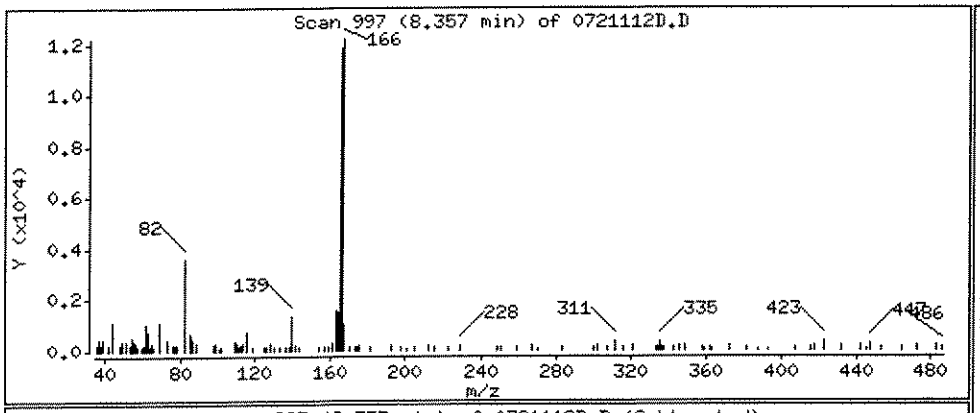
Client ID: 51DUP1S060725 Instrument: bna1.i

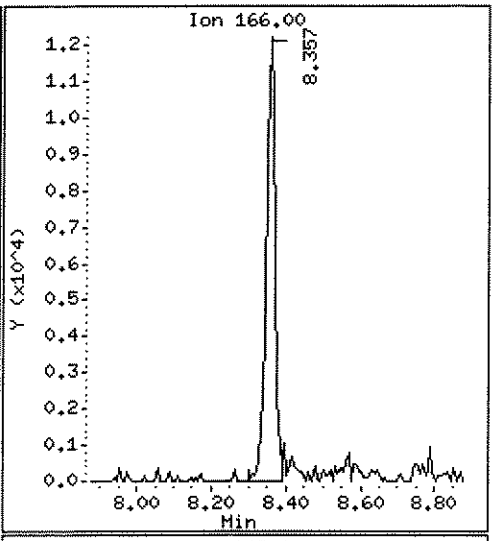
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

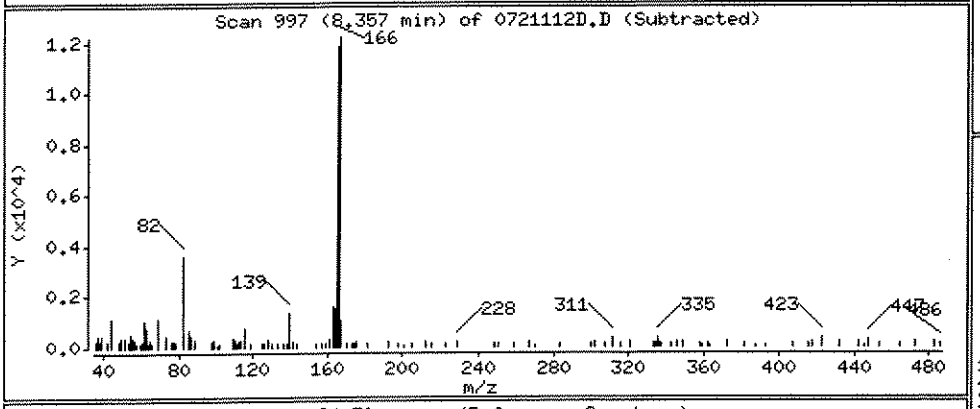
Volume Injected (uL): 0.5 Operator: SDB

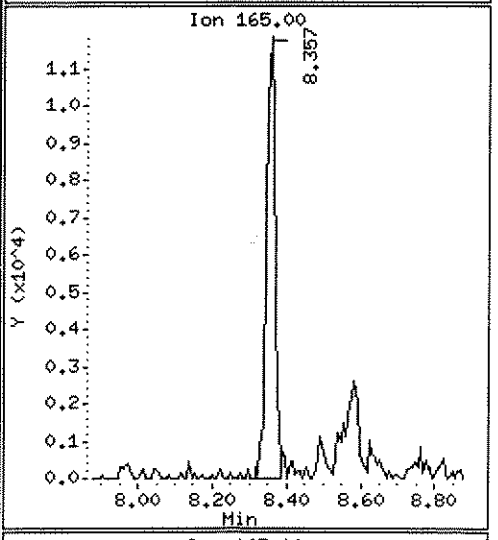
Column phase: fused silica Column diameter: 0.25

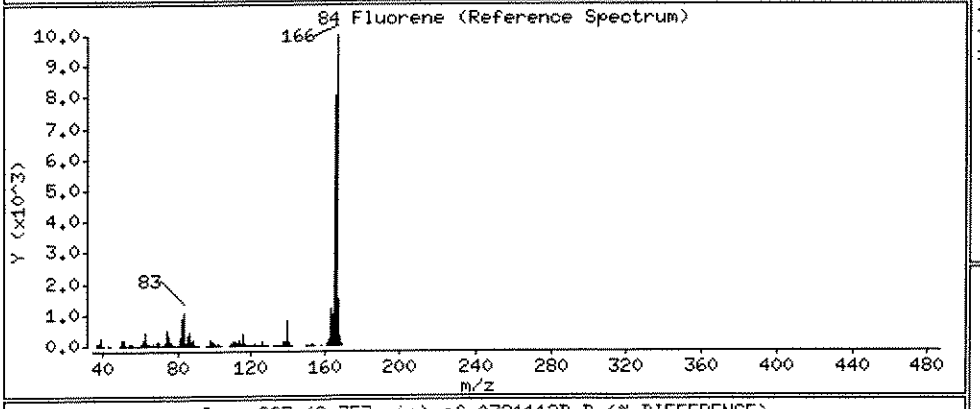
84 Fluorene Concentration: 297.8 UG/KG

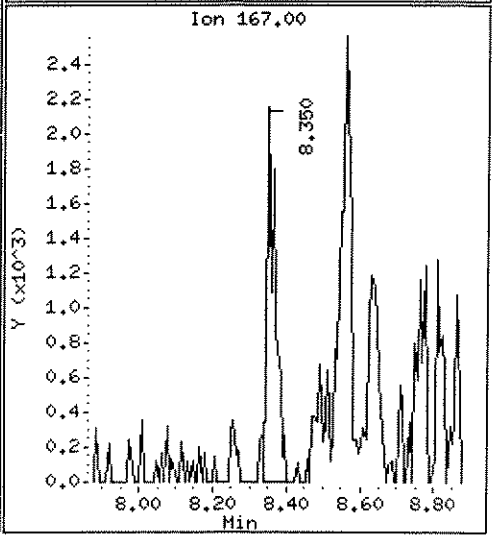


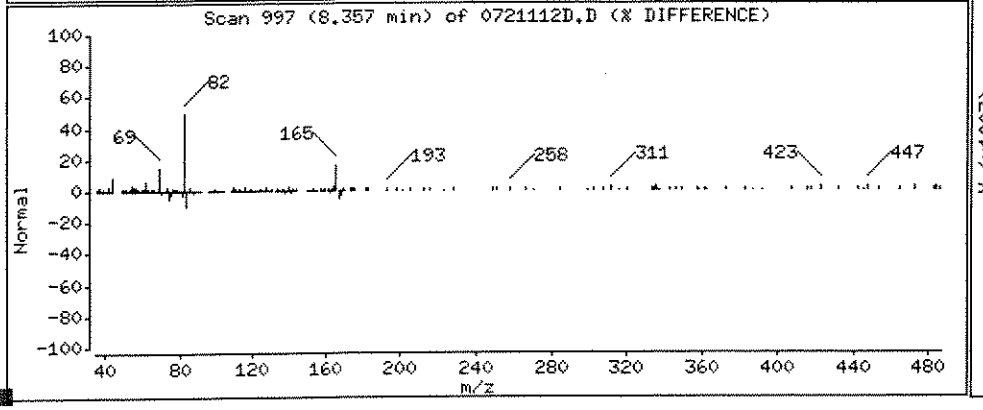












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

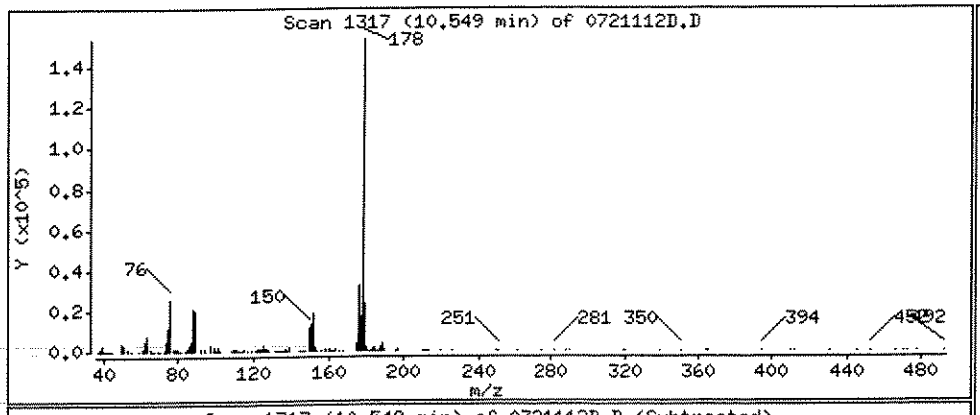
Client ID: 51DUP1S060725 Instrument: bna1.i

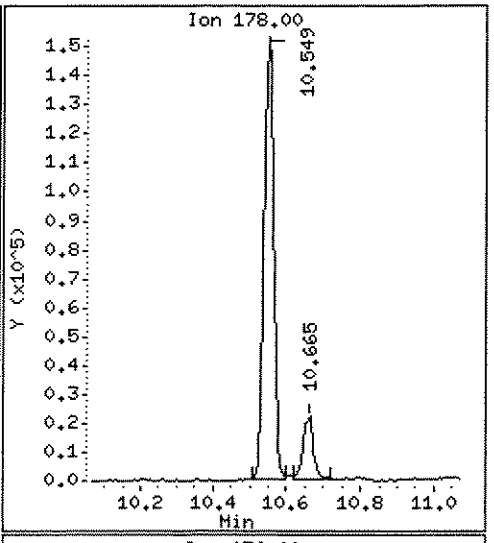
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

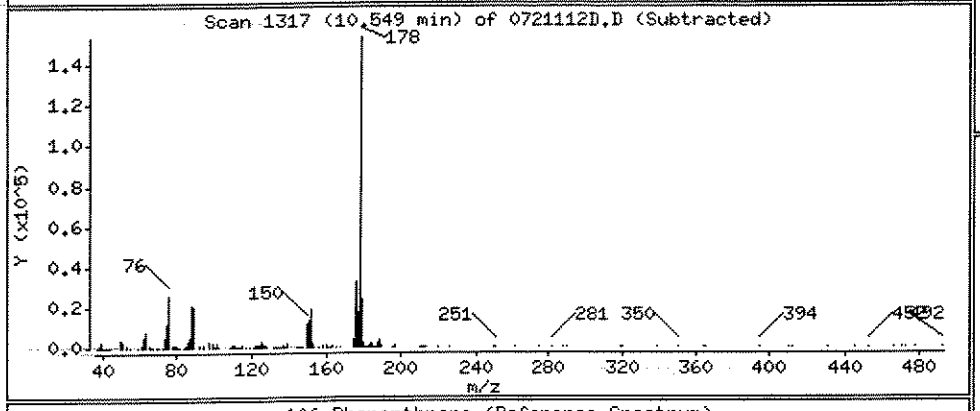
Volume Injected (uL): 0.5 Operator: SDB

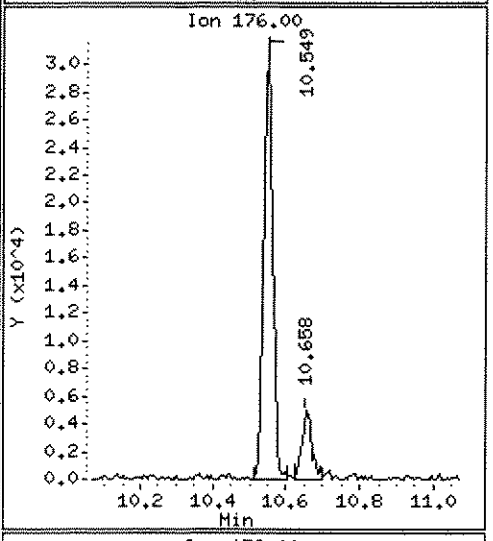
Column phase: fused silica Column diameter: 0.25

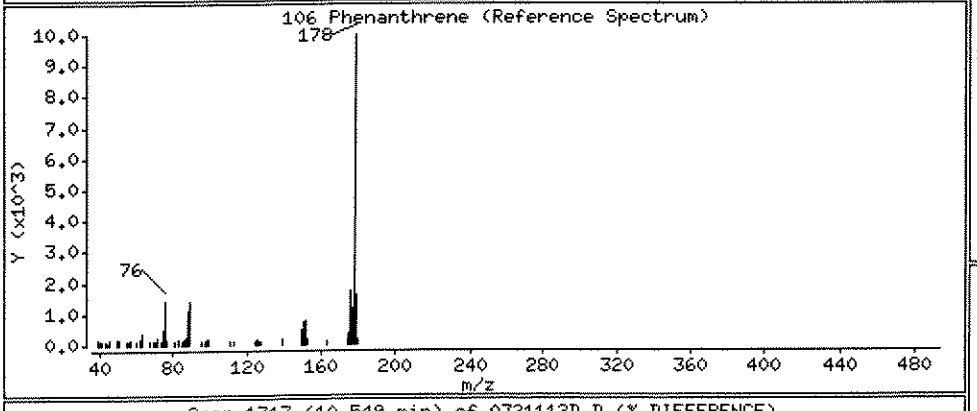
106 Phenanthrene Concentration: 3910 UG/KG

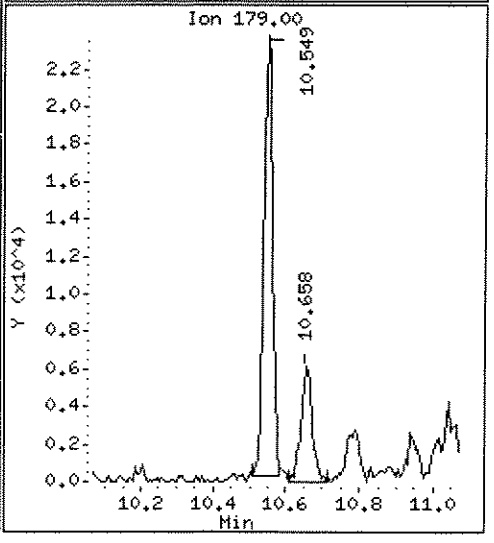


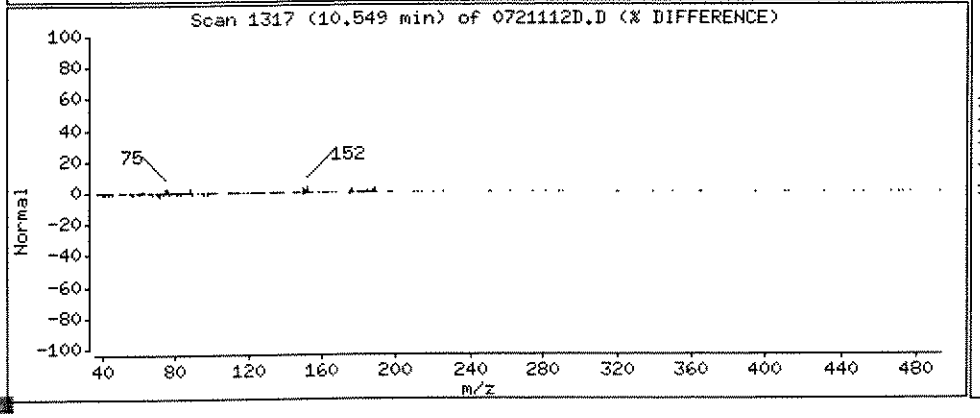












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

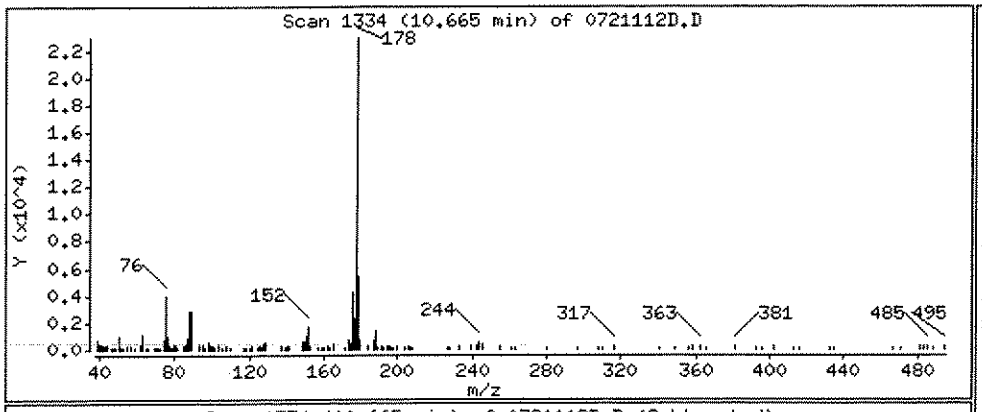
Client ID: 51DUP1S060725 Instrument: bna1.i

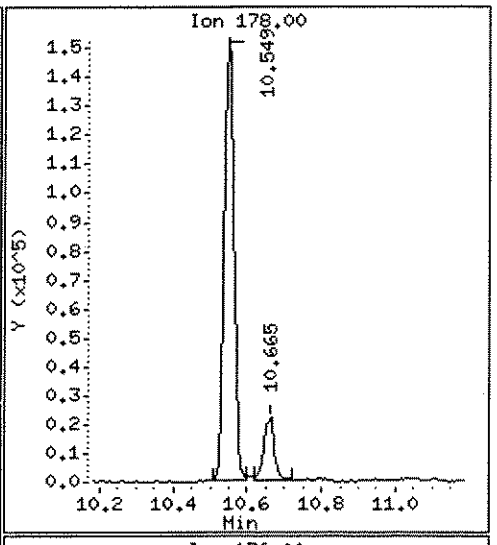
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

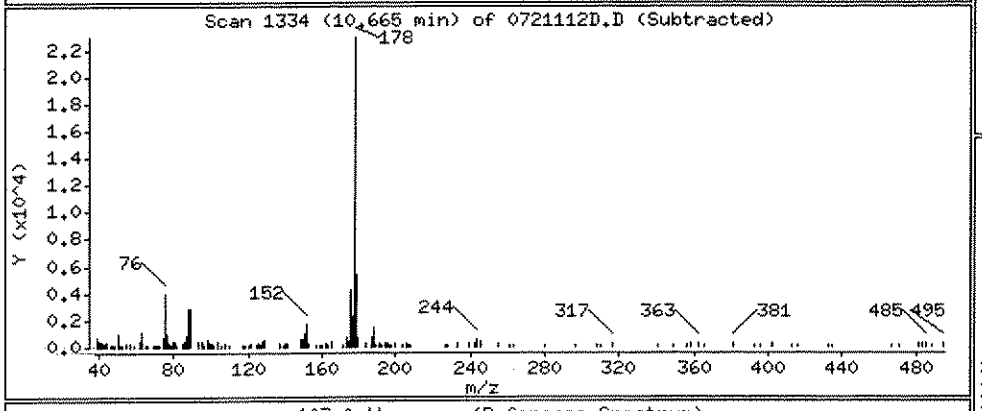
Volume Injected (uL): 0.5 Operator: SDB

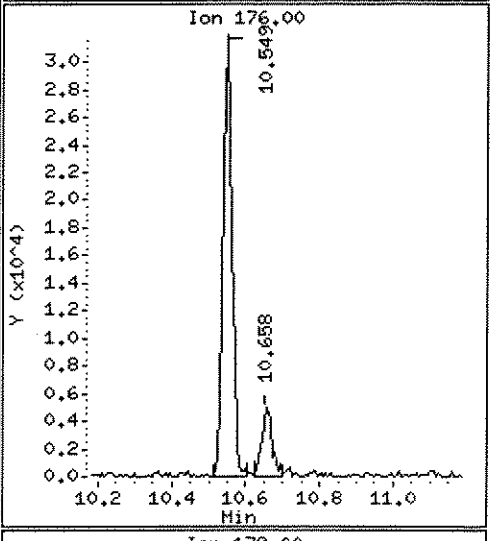
Column phase: fused silica Column diameter: 0.25

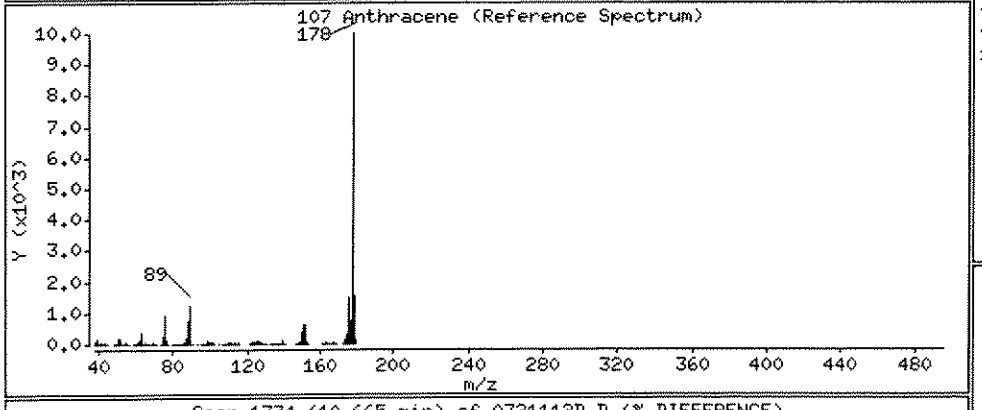
107 Anthracene Concentration: 621.1 UG/KG

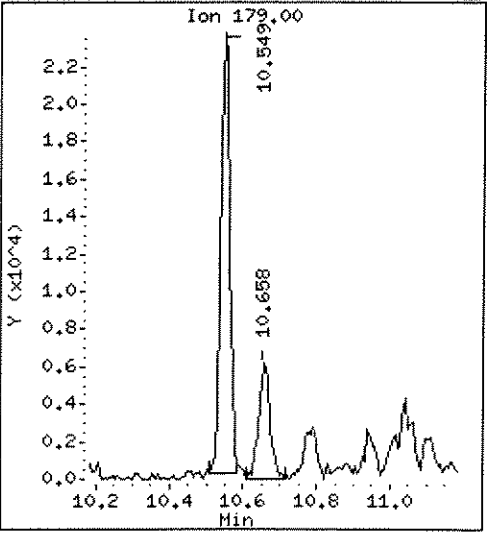


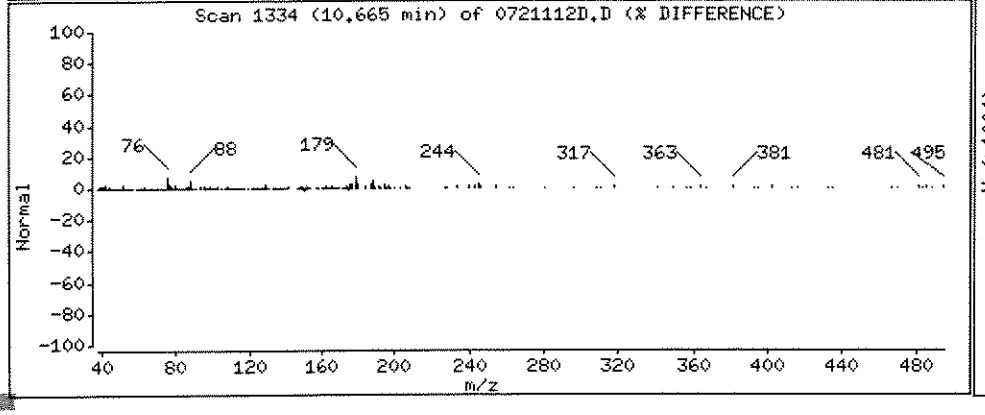












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

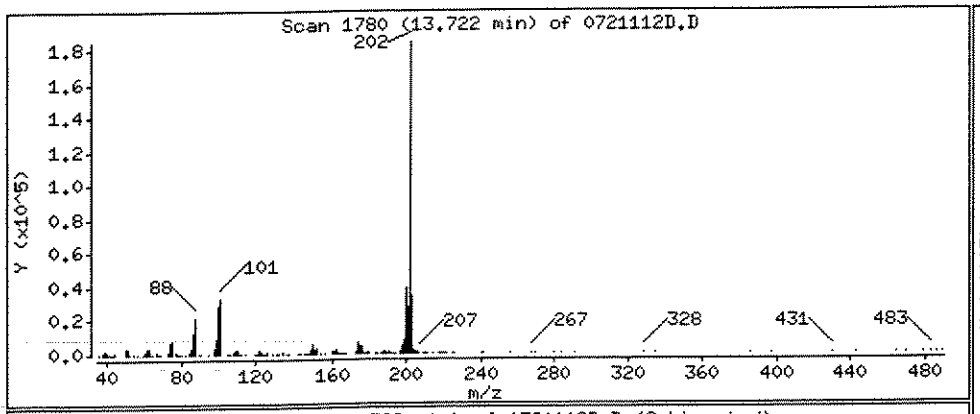
Client ID: 51DUP1S060725 Instrument: bna1.i

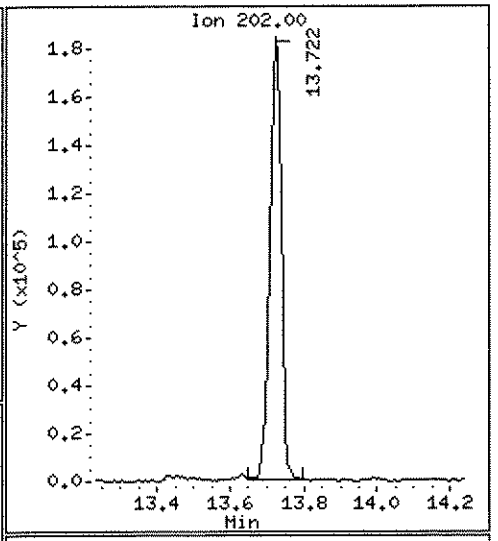
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

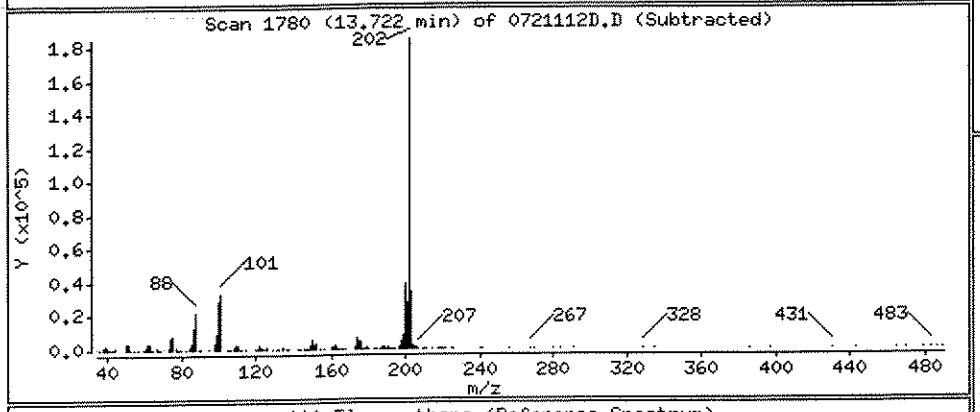
Volume Injected (uL): 0.5 Operator: SDB

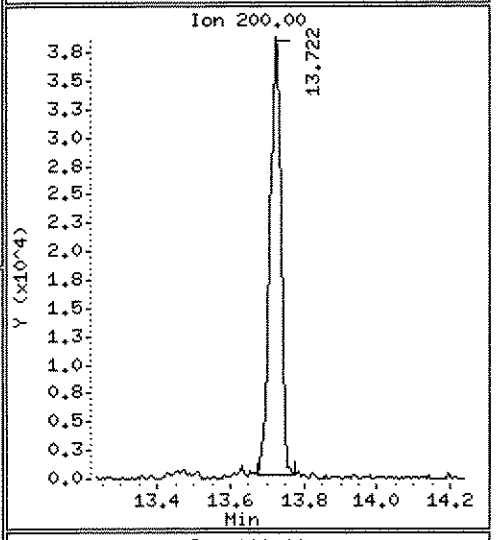
Column phase: fused silica Column diameter: 0.25

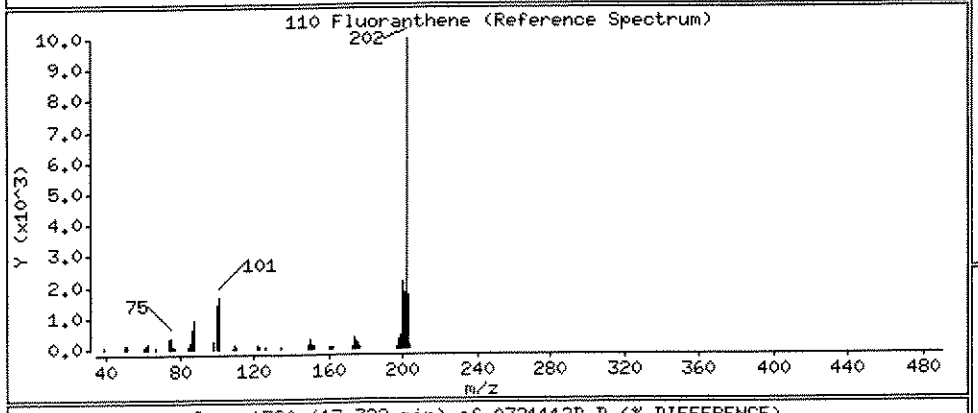
110 Fluoranthene Concentration: 5603 UG/KG

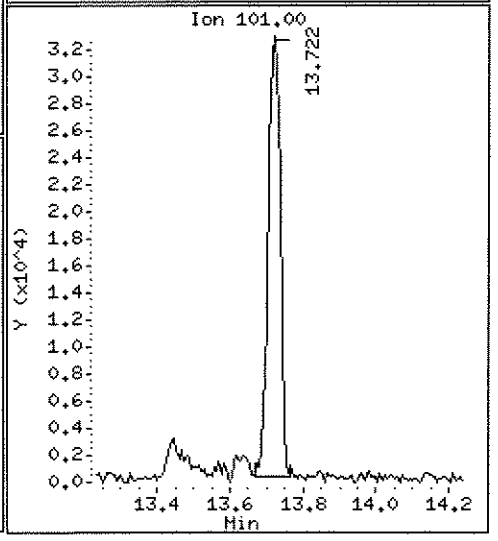


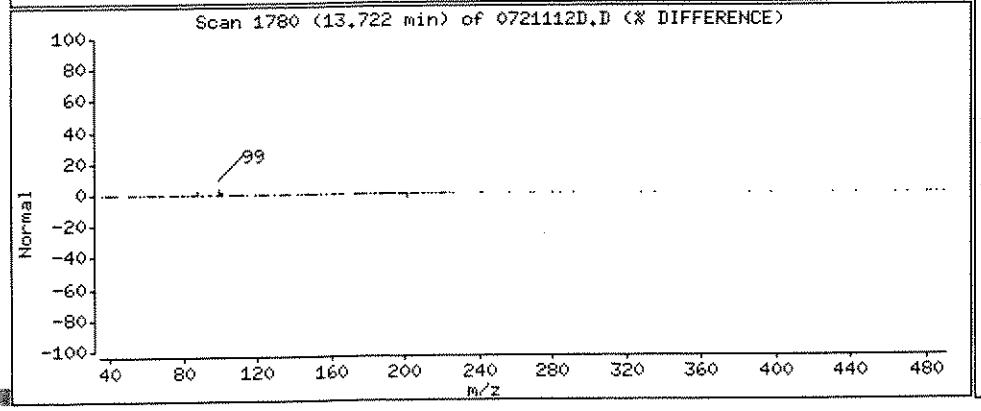












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

Client ID: 51DUP1S060725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

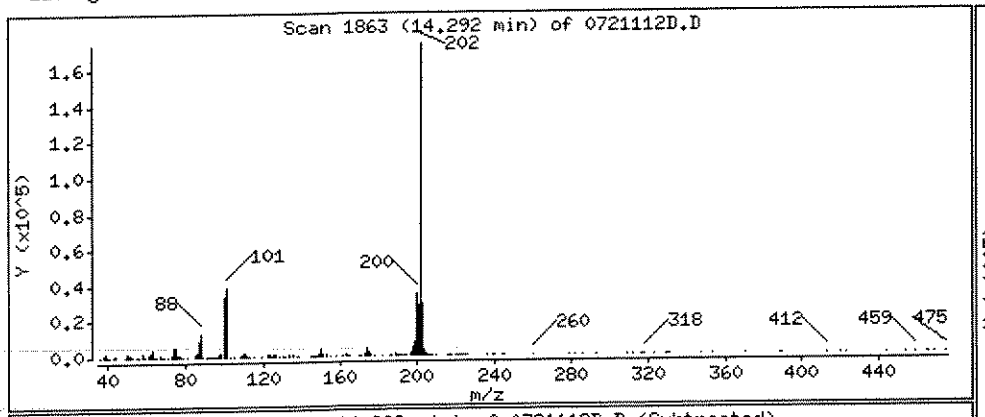
Operator: SDB

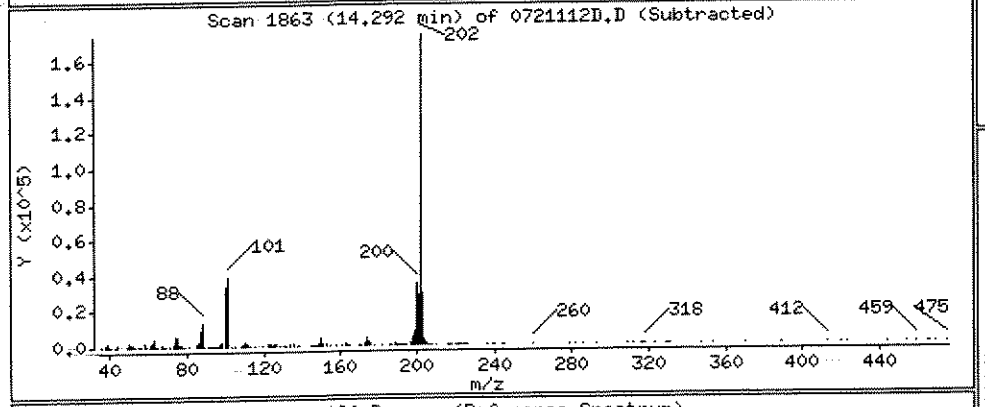
Column phase: fused silica

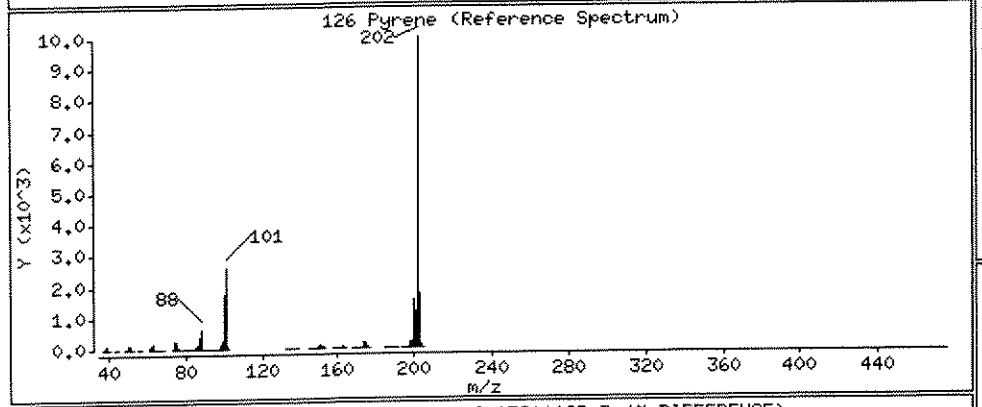
Column diameter: 0.25

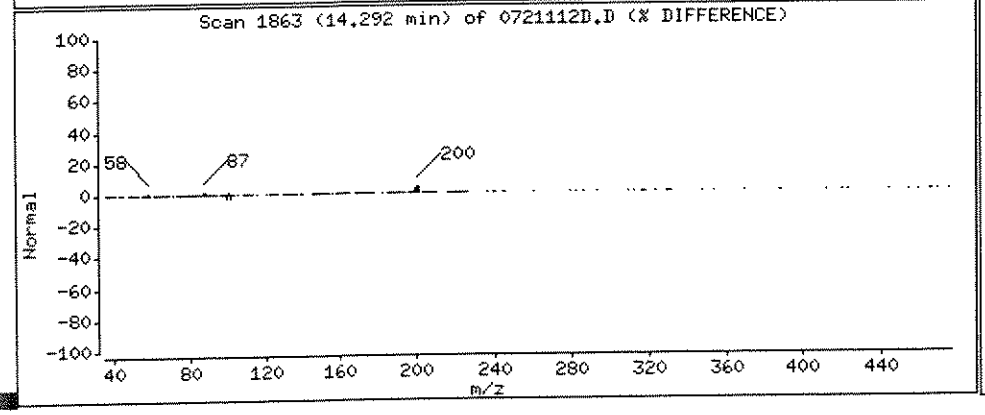
126 Pyrene

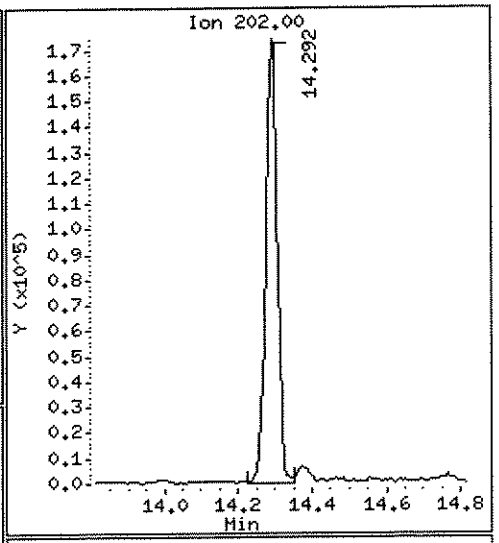
Concentration: 6614 UG/KG

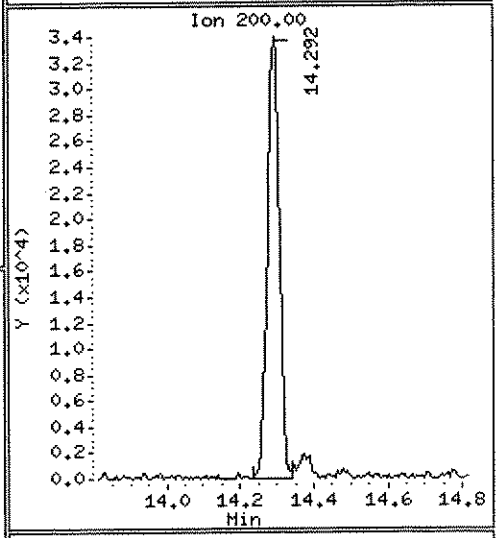


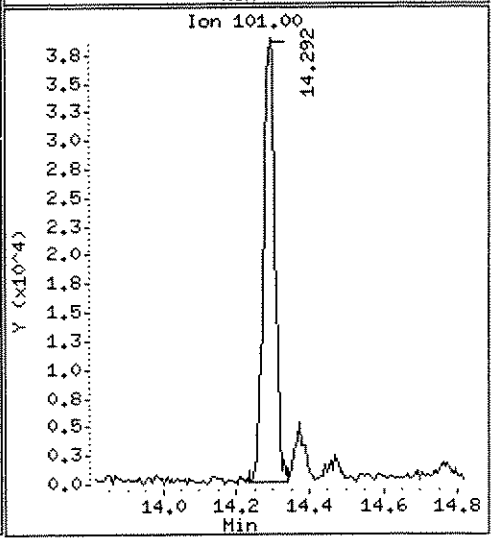












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

Client ID: 51DUP1S060725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

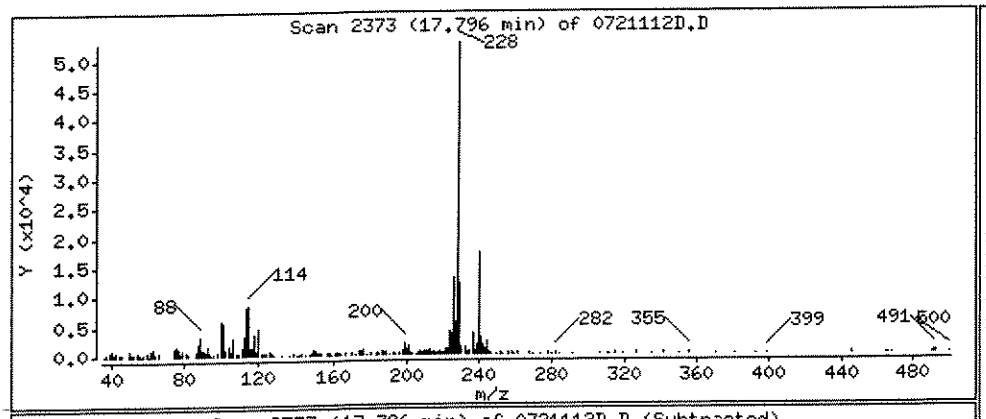
Operator: SDB

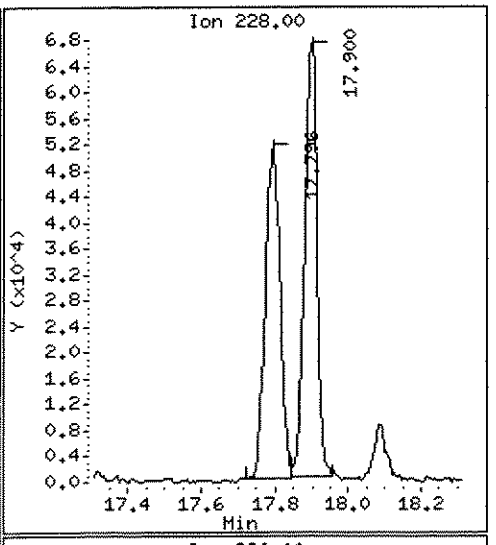
Column phase: fused silica

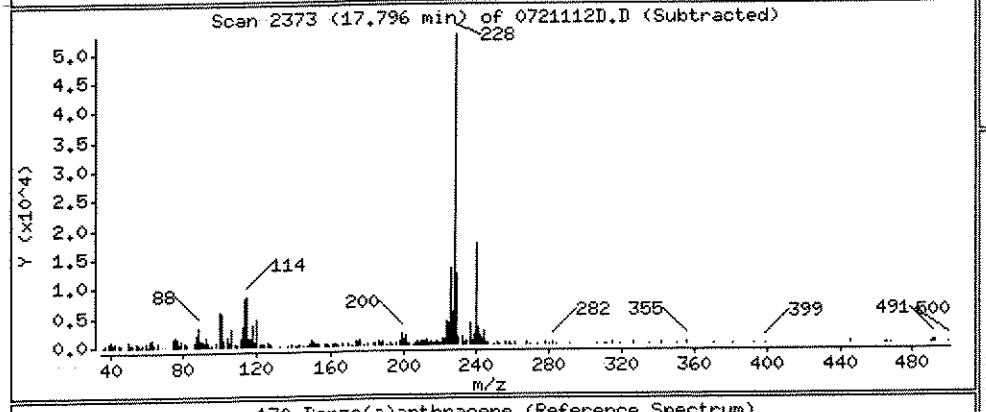
Column diameter: 0.25

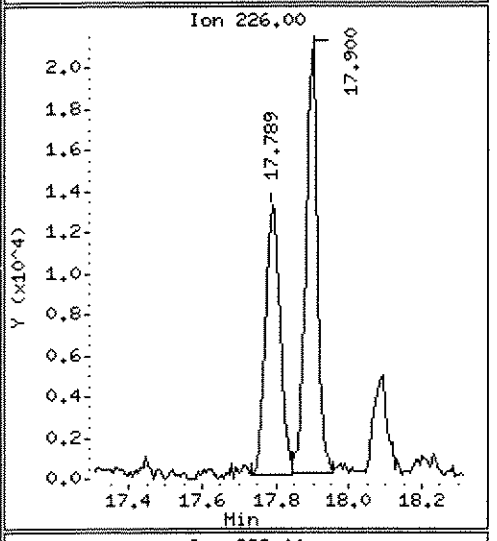
130 Benzo(a)anthracene

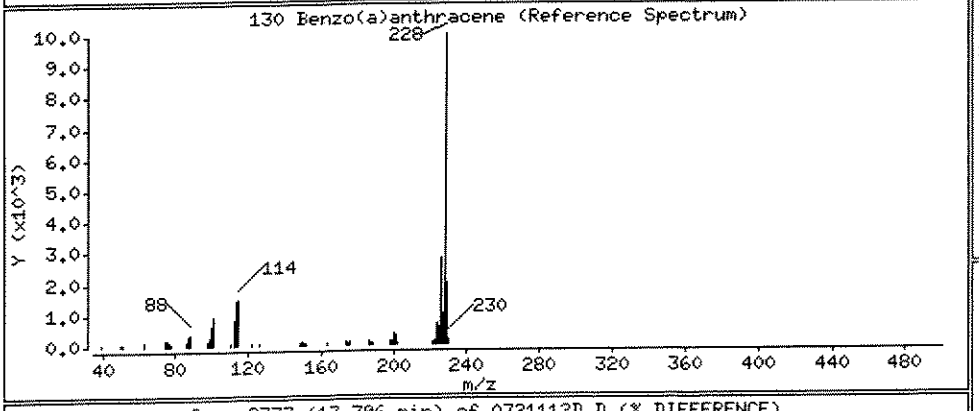
Concentration: 3174 UG/KG

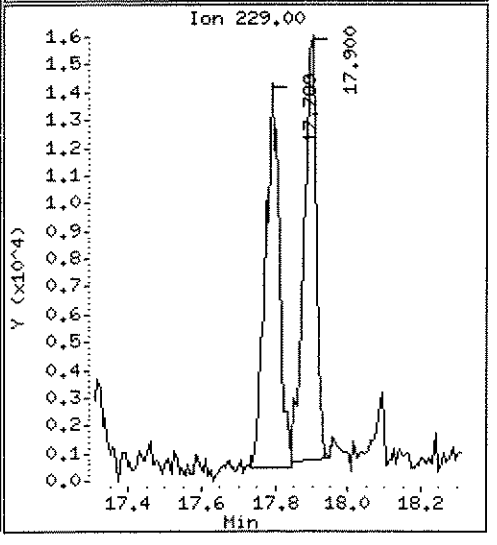


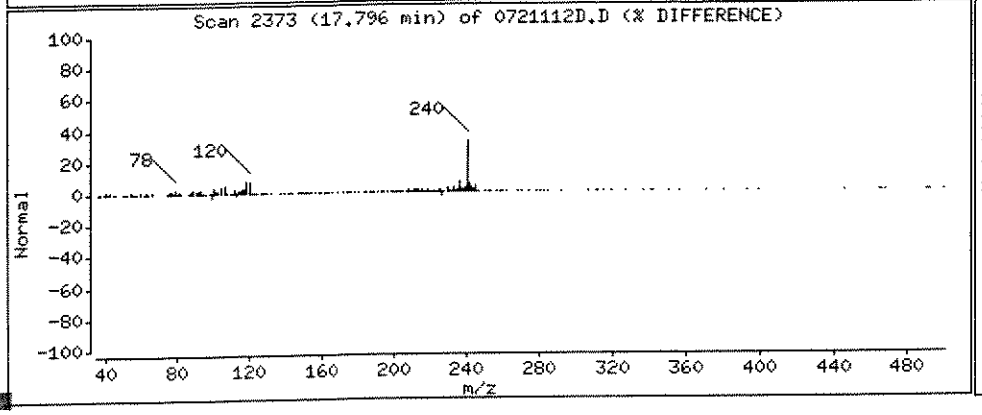












Empirical Laboratories

Data File: \\ELABNSHO4\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

Client ID: 51DUP1SO60725

Instrument: bna1.i

Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

Volume Injected (uL): 0.5

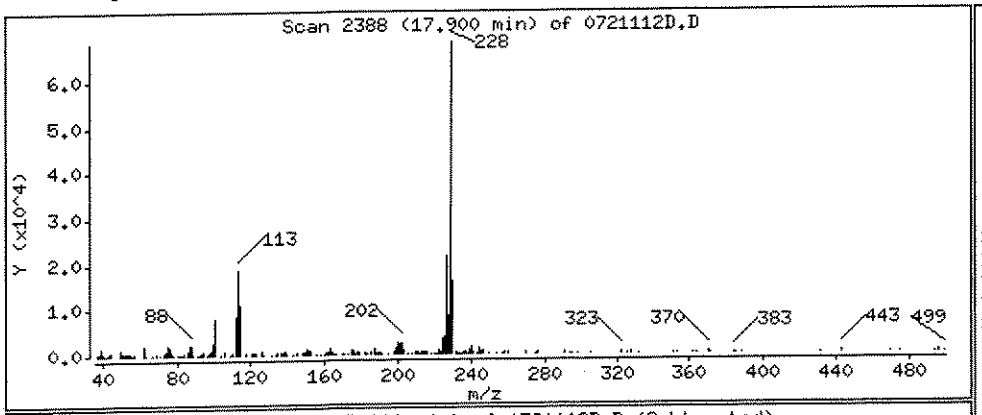
Operator: SDB

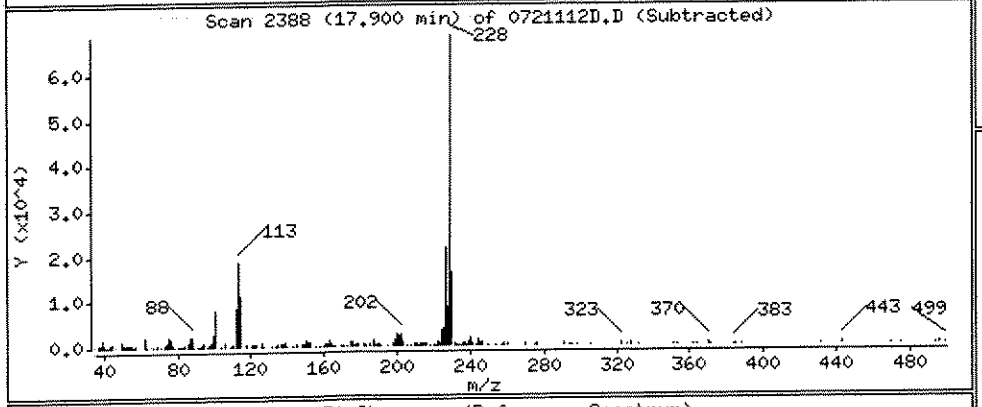
Column phase: fused silica

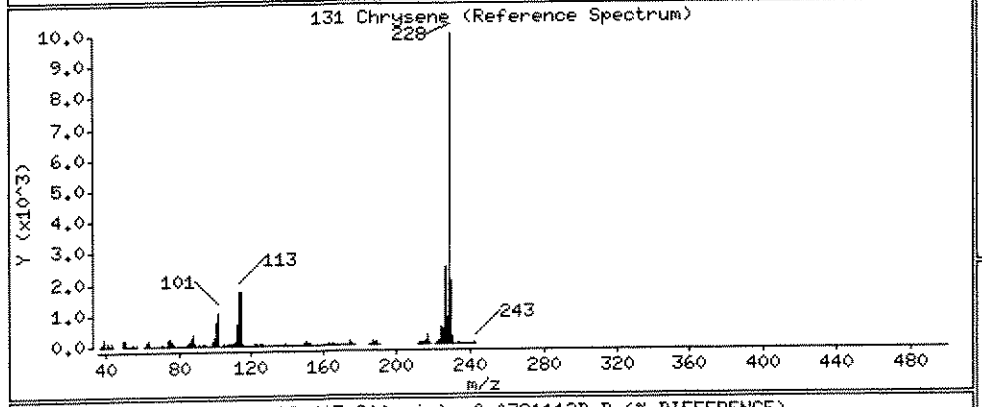
Column diameter: 0.25

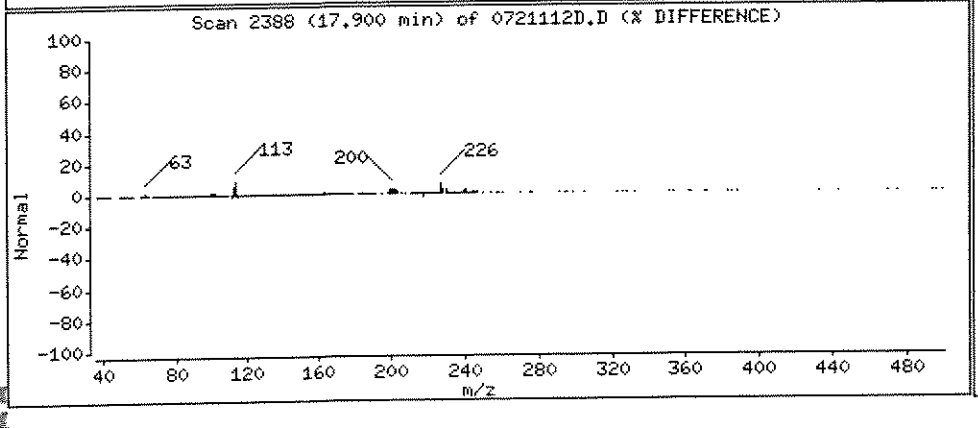
131 Chrysene

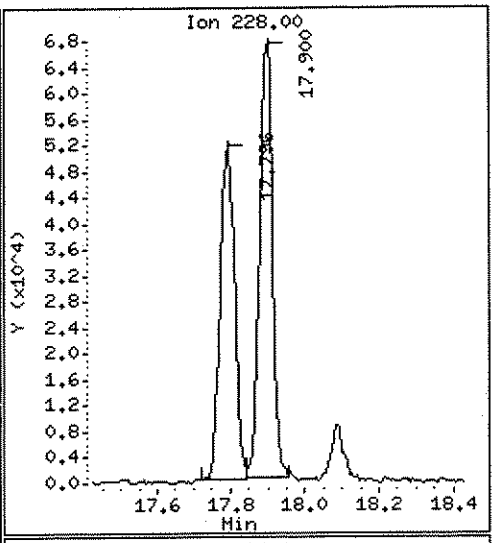
Concentration: 3927 UG/KG

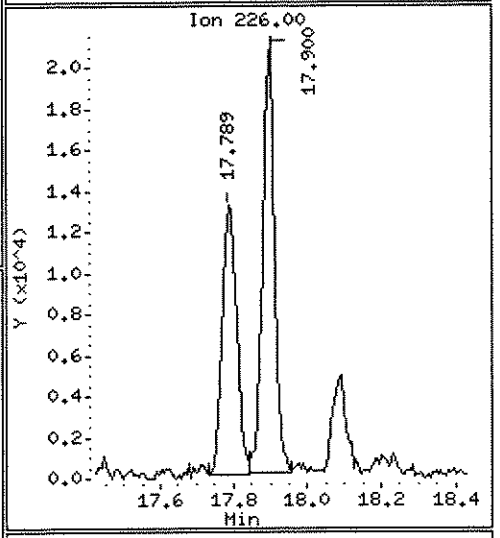


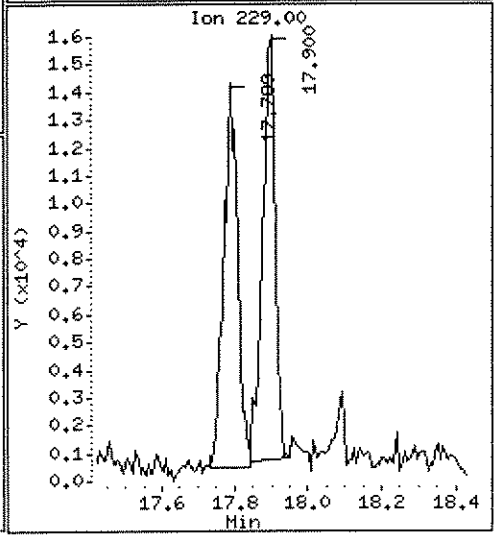












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

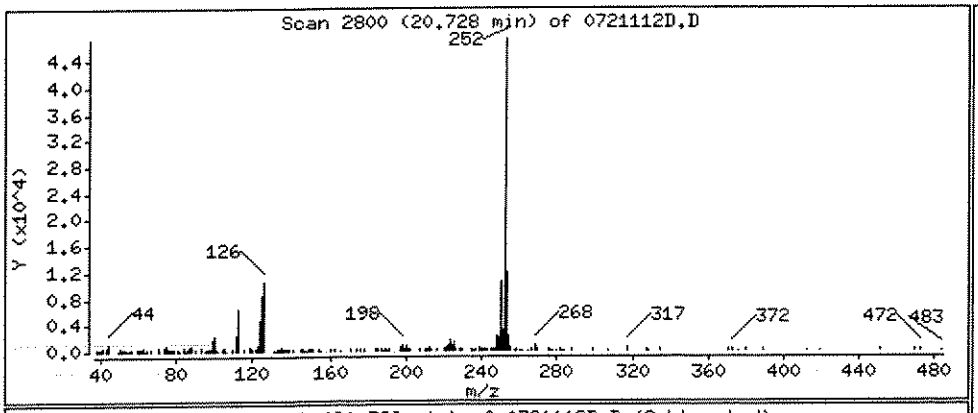
Client ID: 51DUP1S060725 Instrument: bna1.i

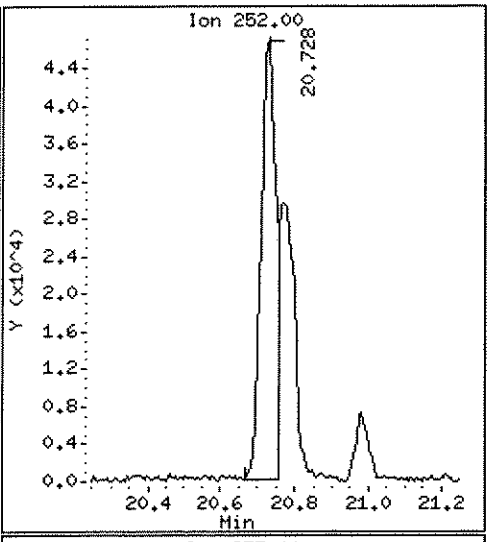
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

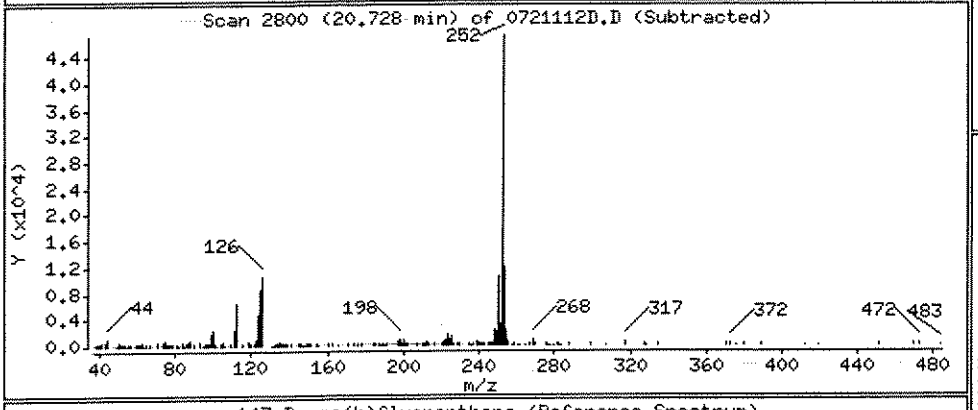
Volume Injected (uL): 0.5 Operator: SDB

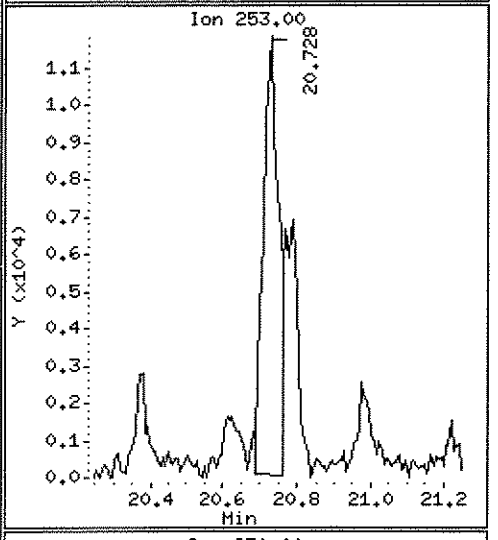
Column phase: fused silica Column diameter: 0.25

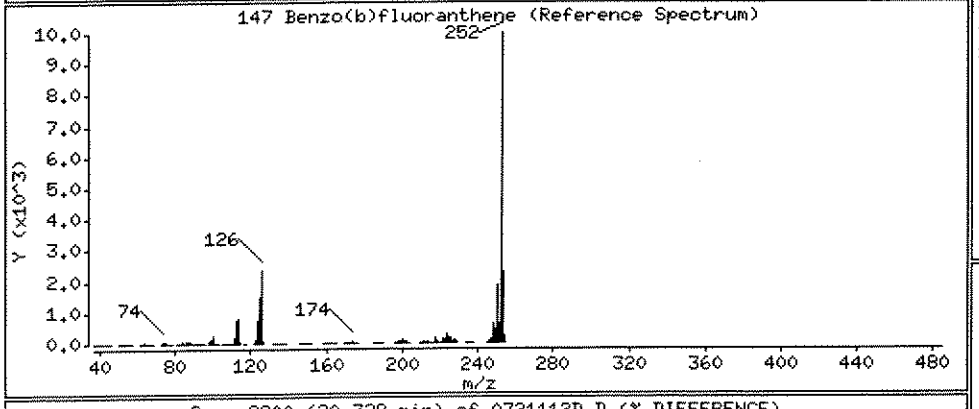
147 Benzo(b)fluoranthene Concentration: 5471 UG/KG

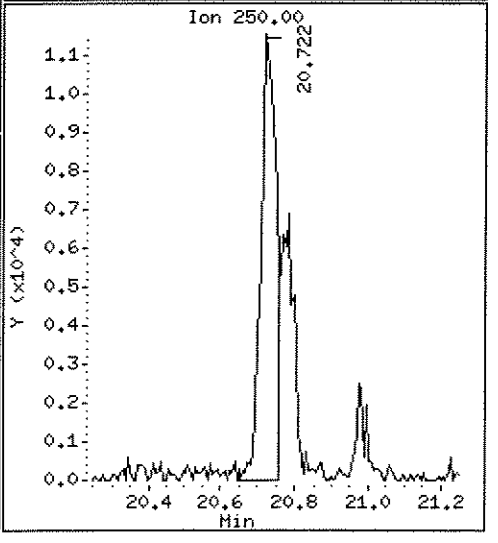


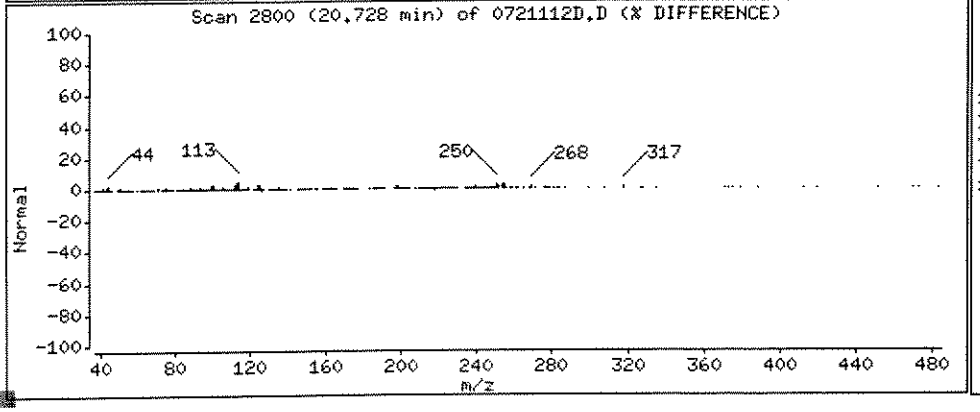












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

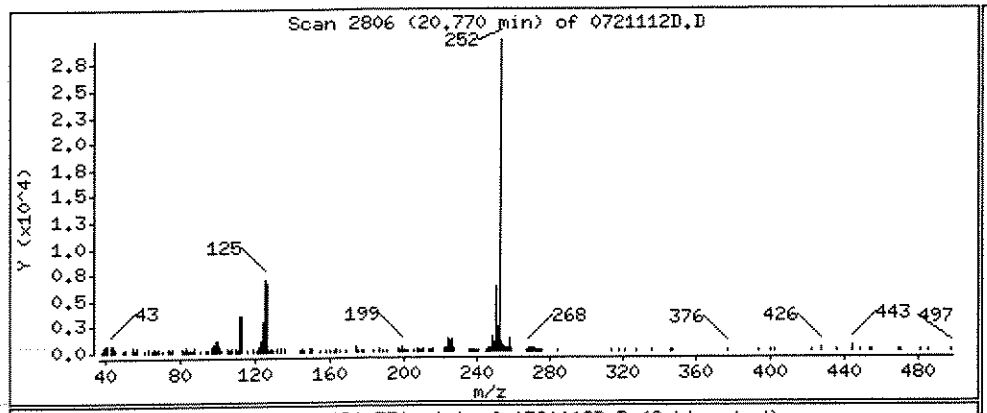
Client ID: 51DUP1S060725 Instrument: bna1.i

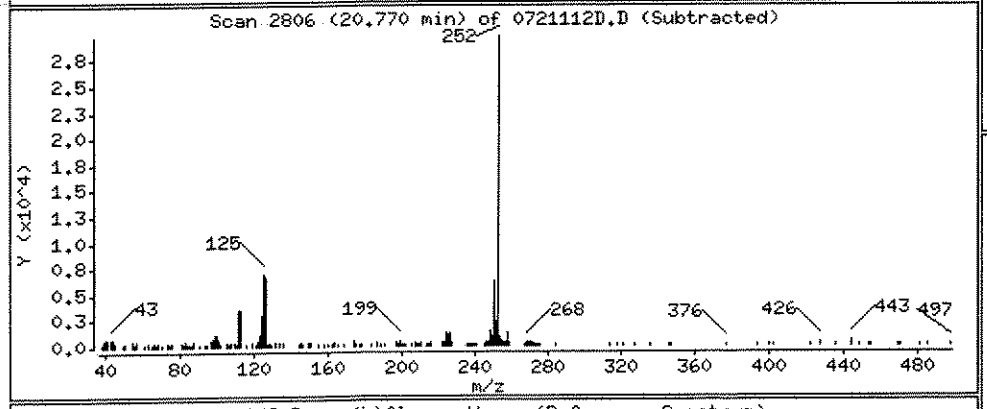
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

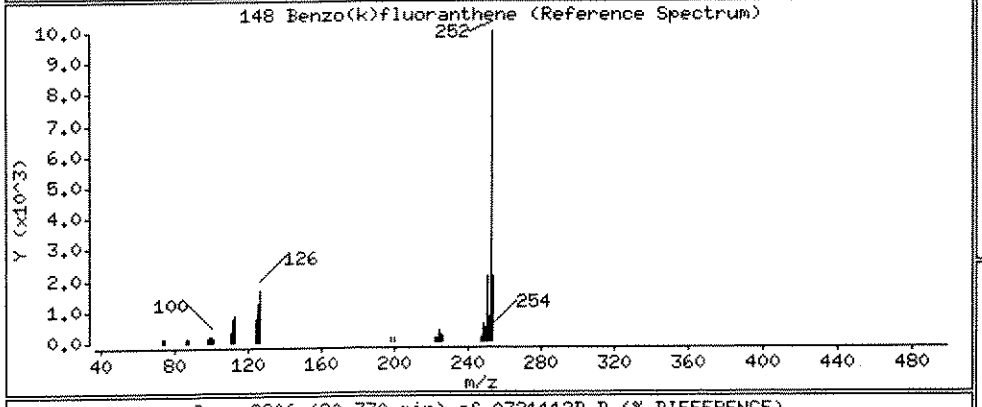
Volume Injected (uL): 0.5 Operator: SDB

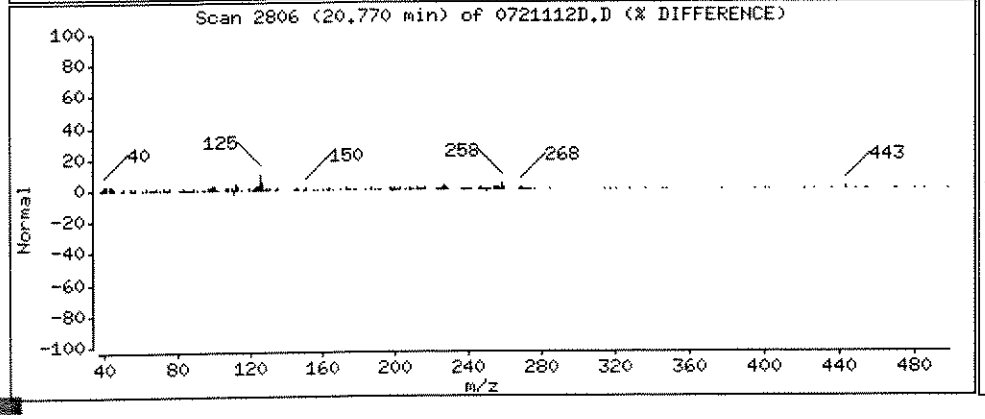
Column phase: fused silica Column diameter: 0.25

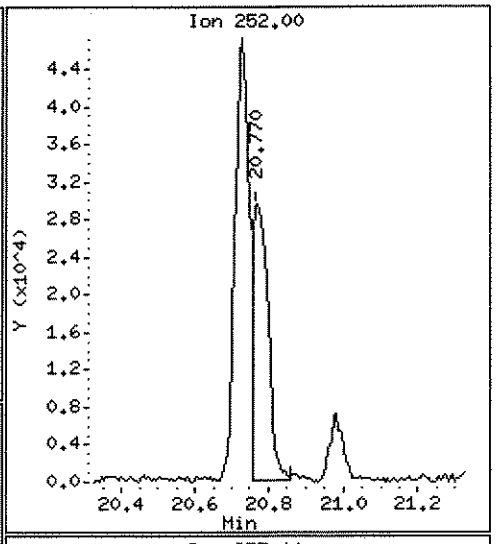
148 Benzo(k)fluoranthene Concentration: 3661 UG/KG

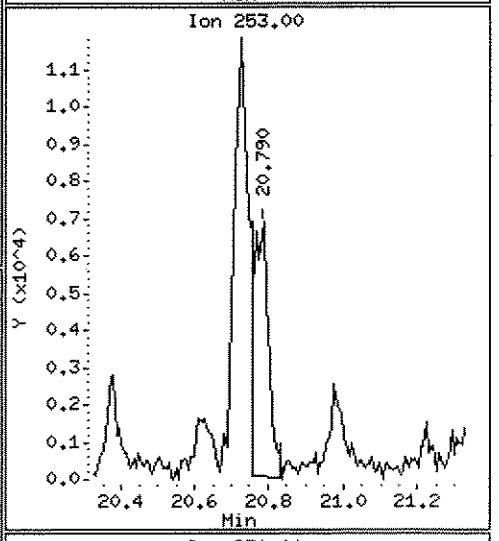


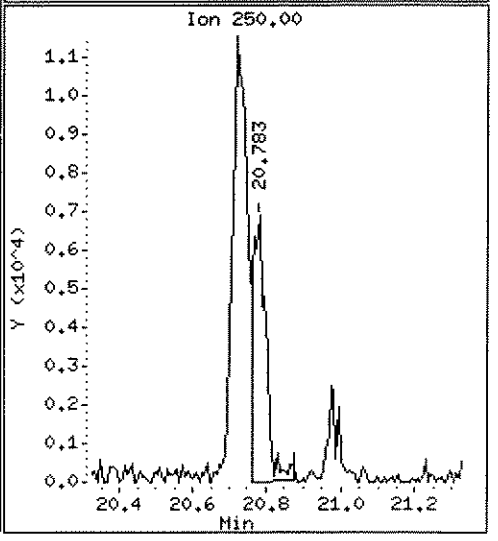












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

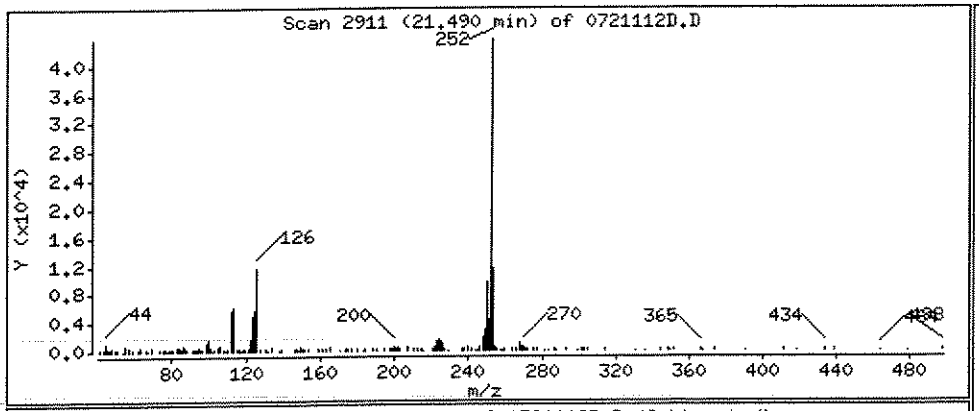
Client ID: 51DUP1S060725 Instrument: bna1.i

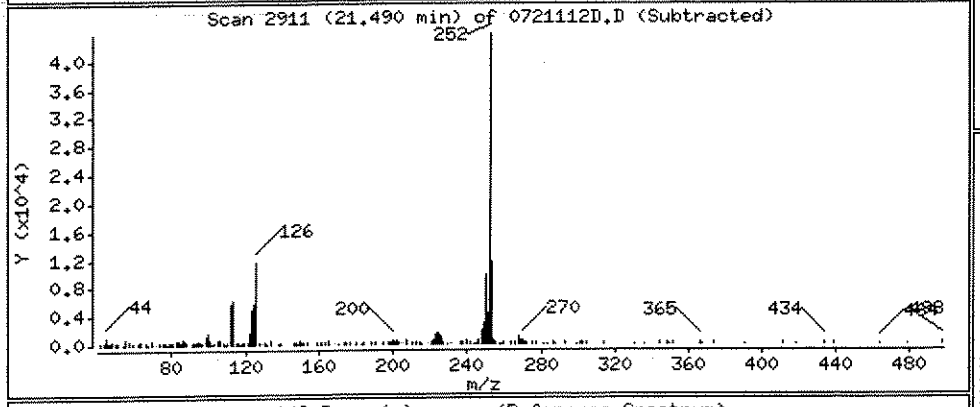
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

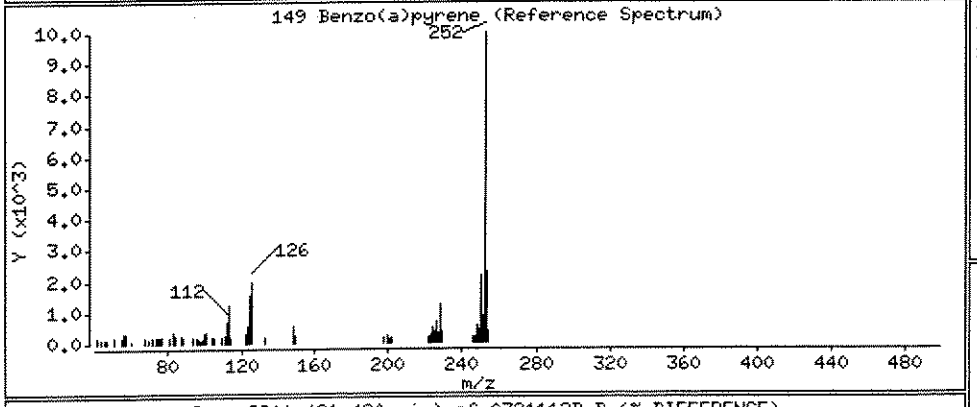
Volume Injected (uL): 0.5 Operator: SDB

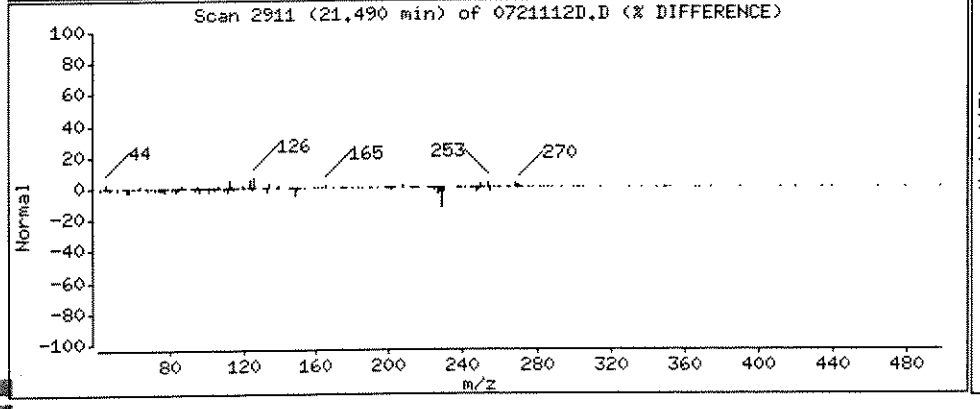
Column phase: fused silica Column diameter: 0.25

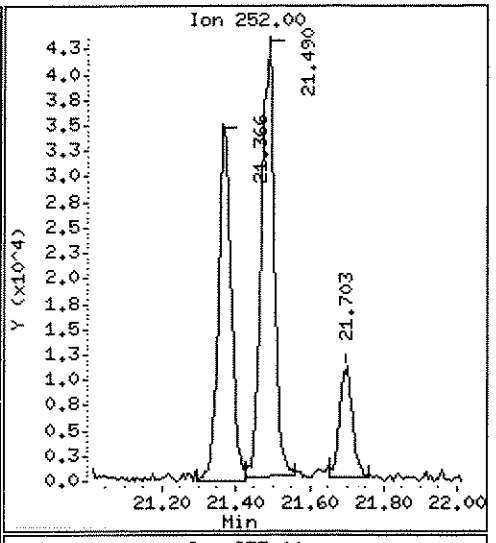
149 Benzo(a)pyrene Concentration: 5232 UG/KG

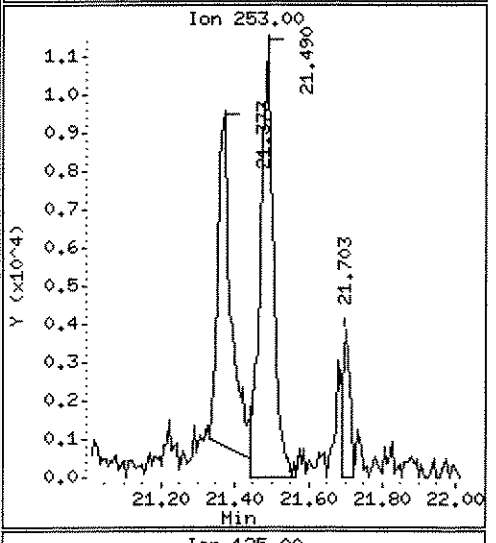


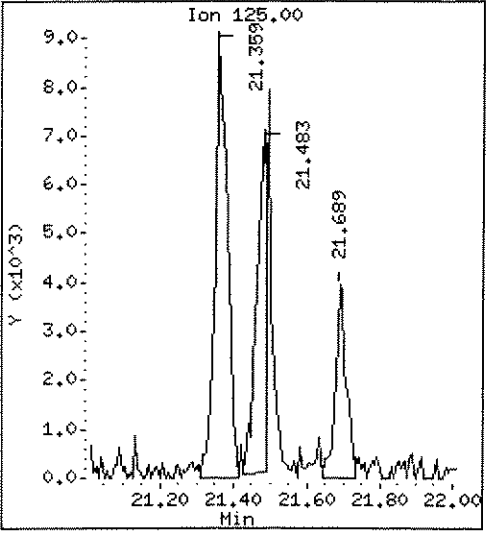












Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

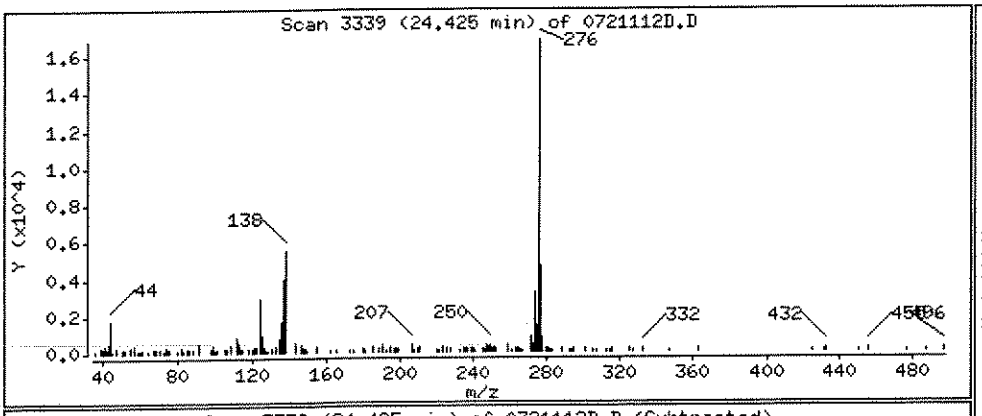
Client ID: 51DUP1S060725 Instrument: bna1.i

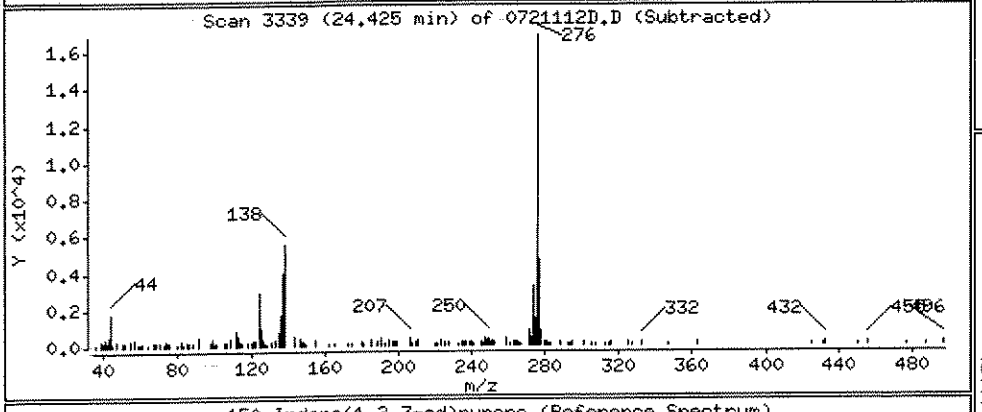
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

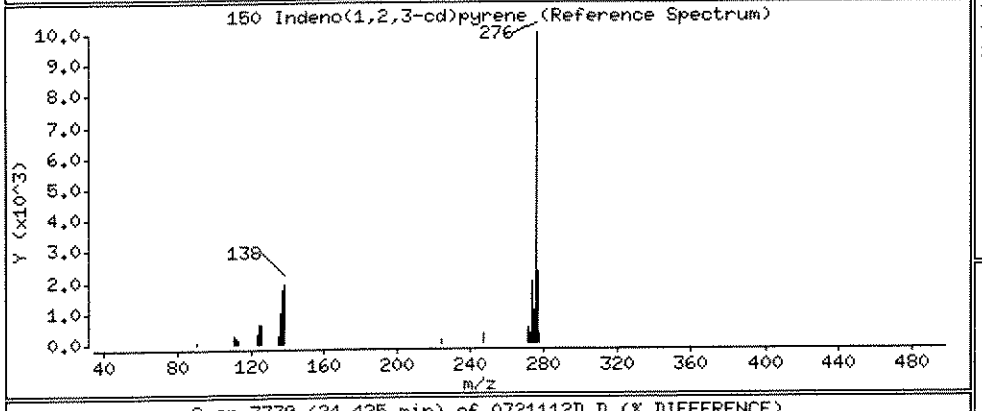
Volume Injected (uL): 0.5 Operator: SDB

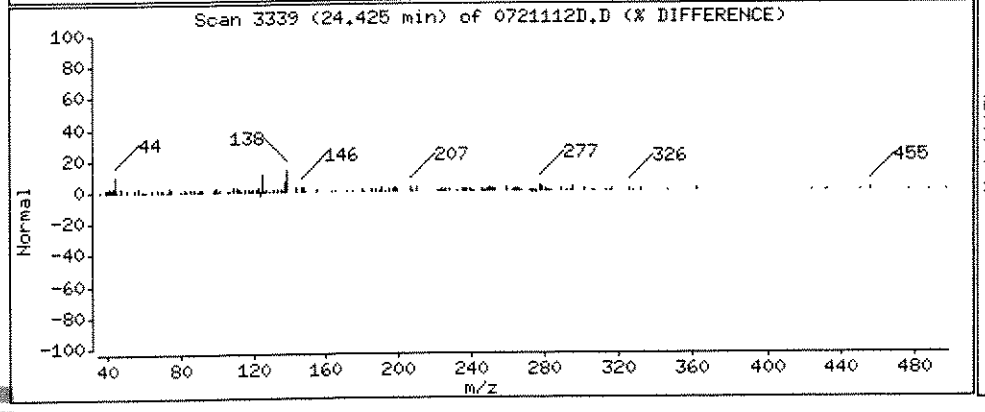
Column phase: fused silica Column diameter: 0.25

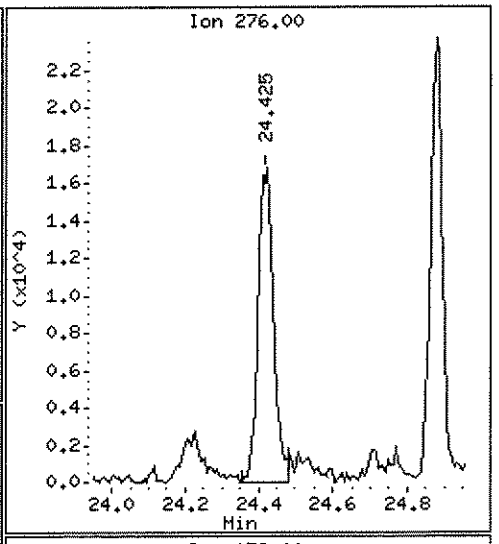
150 Indeno(1,2,3-cd)pyrene Concentration: 2918 UG/KG

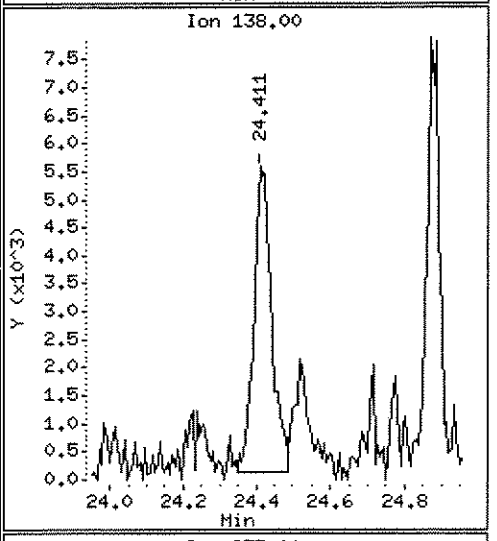


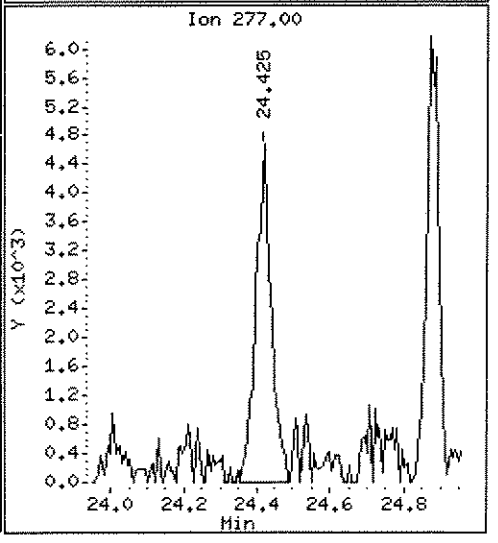












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Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\0721112D.D

Date : 27-JUL-2006 14:28

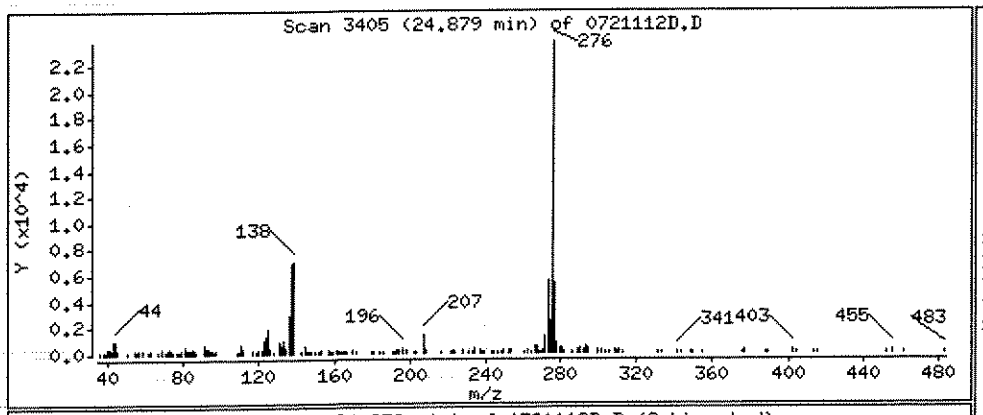
Client ID: 51DUP1S060725 Instrument: bna1.i

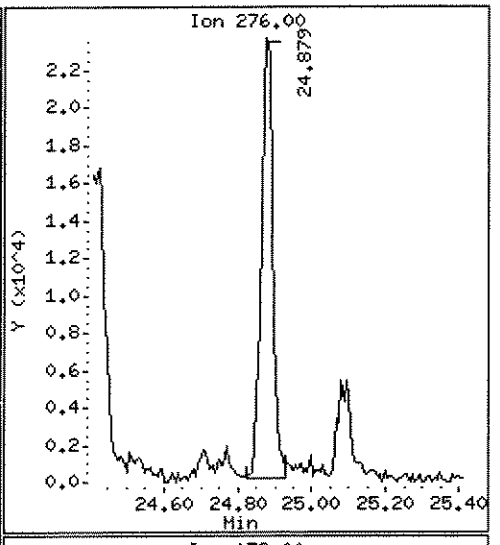
Sample Info: 0607211-12;15.2;500;1;UG/KG;26-JUL-2006

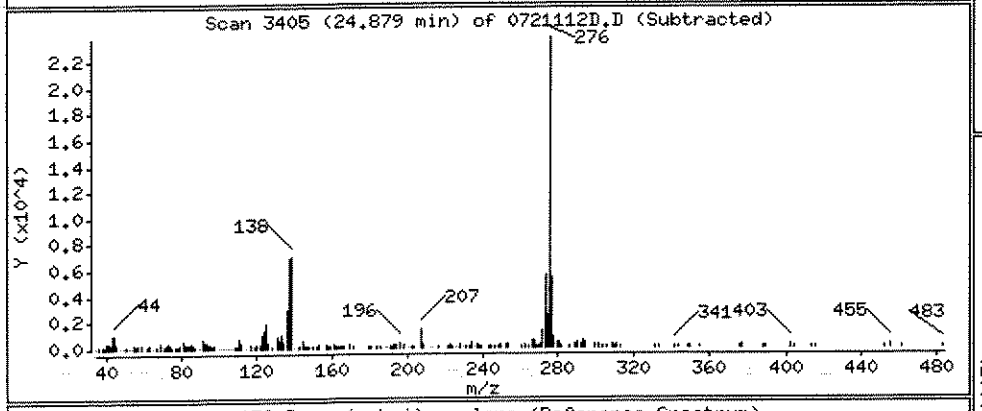
Volume Injected (uL): 0.5 Operator: SDB

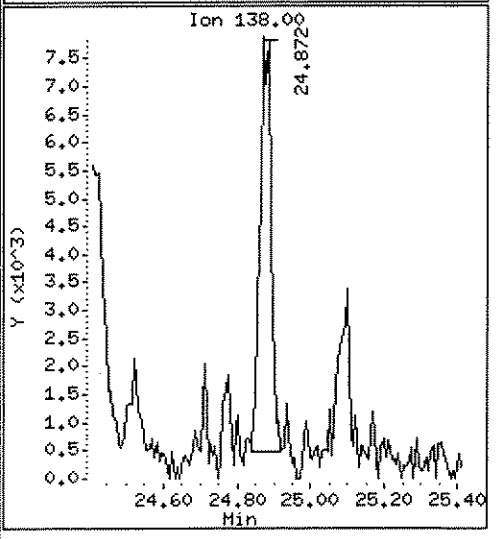
Column phase: fused silica Column diameter: 0.25

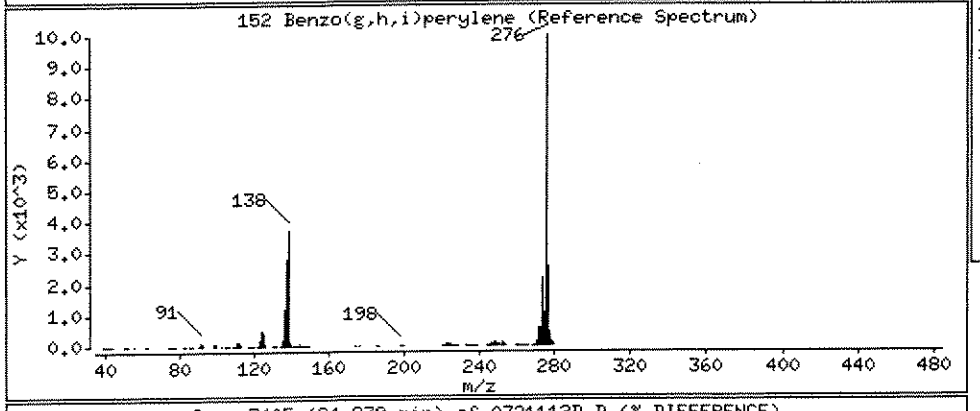
152 Benzo(g,h,i)perylene Concentration: 2901 UG/KG

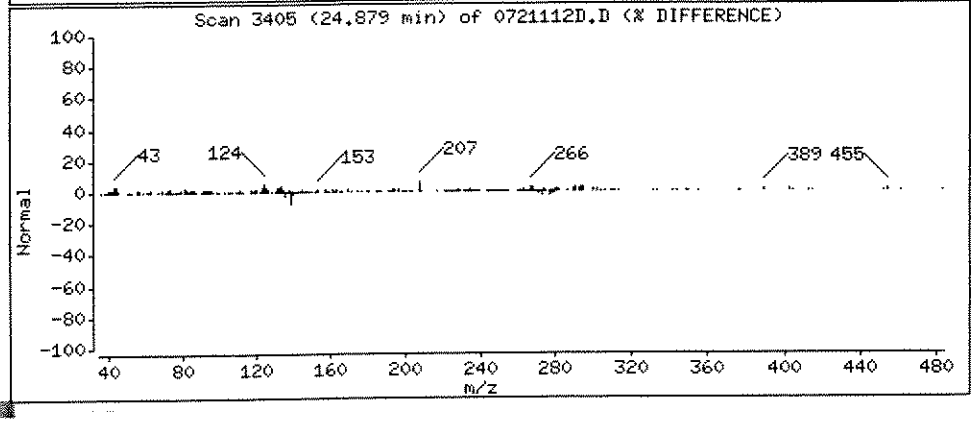












Empirical Laboratories

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF1: CAL001 RF2: APPC002 RF5: APPC005
RF10: APPC010 RF20: APPC020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Acenaphthene	1.196	1.253	1.229	1.193	1.233
Acenaphthylene	1.804	1.774	1.835	1.768	1.809
Anthracene	1.183	1.234	1.170	1.184	1.156
Benzo(a)anthracene	1.257	1.305	1.241	1.252	1.336
Benzo(b)fluoranthene	0.944	1.163	1.087	1.164	1.274
Benzo(k)fluoranthene	1.126	1.208	1.248	1.345	1.325
Benzo(g,h,i)perylene	0.758	0.895	0.887	0.905	1.029
Benzo(a)pyrene	0.826	0.928	0.974	1.022	1.117
Chrysene	1.056	1.160	1.158	1.178	1.230
Dibenz(a,h)anthracene	0.523	0.636	0.650	0.694	0.833
Fluoranthene	1.064	1.157	1.166	1.162	1.188
Fluorene	1.281	1.282	1.282	1.271	1.326
Indeno(1,2,3-cd)pyrene	0.466	0.654	0.650	0.683	0.873
2-Methylnaphthalene	0.587	0.678	0.578	0.610	0.624
1-Methylnaphthalene			0.609	0.582	0.545
Naphthalene	1.093	1.128	1.088	1.086	1.091
Phenanthrene	1.199	1.198	1.174	1.162	1.186
Pyrene	1.616	1.642	1.613	1.577	1.707
Nitrobenzene-d5	0.376	0.396	0.412	0.440	0.474
2-Fluorobiphenyl	1.394	1.388	1.399	1.321	1.365
Terphenyl-d14	0.985	0.980	1.003	1.001	1.081

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF30: APPC030 RF40: APPC050 RF50: APPC050
RF60: CALB060 RF70: APPC070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Acenaphthene	1.178	1.167	1.117	1.124	1.119
Acenaphthylene	1.704	1.701	1.598	1.634	1.605
Anthracene	1.133	1.125	1.104	1.096	1.070
Benzo(a)anthracene	1.288	1.302	1.360	1.285	1.306
Benzo(b)fluoranthene	1.270	1.285	1.214	1.232	1.322
Benzo(k)fluoranthene	1.282	1.310	1.185	1.291	1.355
Benzo(g,h,i)perylene	1.036	0.970	0.952	1.021	0.947
Benzo(a)pyrene	1.099	1.132	1.084	1.109	1.134
Chrysene	1.183	1.206	1.204	1.192	1.204
Dibenz(a,h)anthracene	0.885	0.891	0.850	0.934	0.878
Fluoranthene	1.139	1.148	1.124	1.147	1.106
Fluorene	1.278	1.256	1.222	1.232	1.183
Indeno(1,2,3-cd)pyrene	0.871	0.885	0.888	0.959	0.884
2-Methylnaphthalene	0.592	0.620	0.507	0.560	0.508
1-Methylnaphthalene	0.508		0.494		0.473
Naphthalene	1.018	1.044	0.881	0.957	0.921
Phenanthrene	1.156	1.162	1.092	1.110	1.110
Pyrene	1.601	1.589	1.560	1.485	1.694
Nitrobenzene-d5	0.458	0.474	0.417	0.456	0.443
2-Fluorobiphenyl	1.282	1.292	1.225	1.202	1.211
Terphenyl-d14	1.005	1.010	1.049	0.974	1.072

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF80: CALB080 RF90: CALB090 RF100: APPC100

COMPOUND	RF80	RF90	RF100
Acenaphthene	1.087	1.081	1.032
Acenaphthylene	1.566	1.566	1.500
Anthracene	1.071	1.052	1.059
Benzo(a)anthracene	1.280	1.260	1.282
Benzo(b)fluoranthene	1.341	1.326	1.396
Benzo(k)fluoranthene	1.363	1.364	1.218
Benzo(g,h,i)perylene	1.002	0.979	0.847
Benzo(a)pyrene	1.129	1.137	1.120
Chrysene	1.161	1.192	1.177
Dibenz(a,h)anthracene	0.940	0.953	0.893
Fluoranthene	1.095	1.074	1.110
Fluorene	1.160	1.137	1.139
Indeno(1,2,3-cd)pyrene	0.918	0.934	0.881
2-Methylnaphthalene	0.531	0.523	0.512
1-Methylnaphthalene			0.480
Naphthalene	0.905	0.883	0.833
Phenanthrene	1.102	1.081	1.094
Pyrene	1.624	1.609	1.450
Nitrobenzene-d5	0.449	0.439	0.443
2-Fluorobiphenyl	1.194	1.159	1.116
Terphenyl-d14	1.020	1.027	0.923

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.15441750	5.8
Acenaphthylene	AVRG		1.68179764	6.6
Anthracene	AVRG		1.12596159	5.0
Benzo(a)anthracene	AVRG		1.28880384	2.6
Benzo(b)fluoranthene	AVRG		1.23217359	9.8
Benzo(k)fluoranthene	AVRG		1.27838553	5.9
Benzo(g,h,i)perylene	AVRG		0.94072987	8.6
Benzo(a)pyrene	AVRG		1.06250762	9.2
Chrysene	AVRG		1.17713137	3.6
Dibenz(a,h)anthracene	LINR	0.00000000	0.91260774	0.996
Fluoranthene	AVRG		1.12912755	3.3
Fluorene	AVRG		1.23471408	5.0
Indeno(1,2,3-cd)pyrene	LINR	0.00000000	0.90651411	0.997
2-Methylnaphthalene	AVRG		0.57146291	9.4
1-Methylnaphthalene	AVRG		0.52716190	10.0
Naphthalene	AVRG		0.99452189	10.2
Phenanthrene	AVRG		1.14048637	3.8
Pyrene	AVRG		1.59746090	4.5
Nitrobenzene-d5	AVRG		0.43665056	6.7
2-Fluorobiphenyl	AVRG		1.27292566	7.5
Terphenyl-d14	AVRG		1.01005240	4.2

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

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Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Lab Smp Id: CAL001PPM Client Smp ID: CAL001PPM
Inj Date : 19-APR-2006 15:52
Operator : ADM Inst ID: bna1.i
Smp Info : CAL001PPM;;;;;SV3350-1
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJM/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	1 1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	497331	40.0000	
$	2 2-Fluorophenol	112	4.003	4.003	(0.815)	36078	2.00000	2.094(a)
$	3 Phenol-d6	99	4.665	4.665	(0.949)	46038	2.00000	2.236(a)
	4 Pyridine	79	3.010	3.010	(0.613)	22473	1.00000	1.013(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	11180	1.00000	0.9717(a)
	6 Aniline	93	4.699	4.699	(0.956)	28952	1.00000	1.189(a)
	8 Phenol	94	4.672	4.672	(0.951)	28188	1.00000	1.197(aM)
	9 bis(2-Chloroethyl)ether	93	4.733	4.733	(0.963)	23284	1.00000	1.128(a)
	10 2-Chlorophenol	128	4.775	4.775	(0.972)	17889	1.00000	1.093(a)
	11 1,3-Dichlorobenzene	146	4.879	4.879	(0.993)	20759	1.00000	1.118(a)
	12 1,4-Dichlorobenzene	146	4.920	4.920	(1.001)	19560	1.00000	1.111(a)
	13 Benzyl alcohol	108	5.029	5.029	(1.024)	8658	1.00000	0.7732(a)
	14 1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	18530	1.00000	1.126(a)
	15 2-Methylphenol	108	5.132	5.132	(1.044)	15002	1.00000	0.9827(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
		Compounds	====	==	======	======	========	=======	=======
	16	bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	45268	1.00000	1.130(a)
	17	3-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	18	4-Methylphenol	108	5.249	5.249	(1.068)	16144	1.00000	1.119(aM)
	19	N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	14317	1.00000	1.004(aM)
	20	Hexachloroethane	117	5.331	5.331	(1.085)	8158	1.00000	1.041(a)
*	31	Naphthalene-d8	136	6.112	6.112	(1.000)	1532117	40.0000	
$	32	Nitrobenzene-d5	82	5.394	5.394	(0.882)	14389	1.00000	0.8603(a)
	33	Nitrobenzene	77	5.408	5.408	(0.885)	14750	1.00000	0.8710(aM)
	35	Isophorone	82	5.629	5.629	(0.921)	36330	1.00000	1.007(aM)
	36	2-Nitrophenol	139	5.719	5.719	(0.936)	6425	1.00000	0.7152(aM)
	38	2,4-Dimethylphenol	107	5.747	5.747	(0.940)	14996	1.00000	1.032(a)
	40	bis(2-Chloroethoxy)methane	93	5.850	5.850	(0.957)	22515	1.00000	1.038(a)
	43	2,4-Dichlorophenol	162	5.960	5.960	(0.975)	11385	1.00000	0.9485(a)
	46	1,2,4-Trichlorobenzene	180	6.064	6.064	(0.992)	13522	1.00000	1.056(a)
	47	Naphthalene	128	6.132	6.132	(1.003)	41883	1.00000	1.099(a)
	48	4-Chloroaniline	127	6.222	6.222	(1.018)	16807	1.00000	1.079(a)
	49	Hexachlorobutadiene	225	6.359	6.359	(1.040)	6881	1.00000	1.062(aM)
	50	4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	10552	1.00000	0.8805(a)
	51	2-Methylnaphthalene	141	7.059	7.059	(1.155)	22486	1.00000	1.027(a)
	53	Acetophenone	105	5.256	5.256	(1.070)	24187	1.00000	1.187(a)
	64	Caprolactam	113	6.637	6.637	(1.086)	3534	1.00000	0.8093(a)
*	65	Acenaphthene-d10	164	9.016	9.016	(1.000)	753119	40.0000	
	66	Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	2536	1.00000	0.5635(aM)
	67	2,4,6-Trichlorophenol	196	7.572	7.572	(0.840)	6526	1.00000	0.9238(aM)
	68	2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	6661	1.00000	0.9102(aM)
	69	2-Chloronaphthalene	162	7.870	7.870	(0.873)	25059	1.00000	1.178(a)
$	70	2-Fluorobiphenyl	172	7.718	7.718	(0.856)	26249	1.00000	1.095(a)
	71	2-Nitroaniline	65	8.138	8.138	(0.903)	4791	1.00000	0.5782(aM)
	72	Dimethylphthalate	163	8.606	8.606	(0.955)	27050	1.00000	1.014(aM)
	73	Acenaphthylene	152	8.683	8.683	(0.963)	33963	1.00000	1.072(a)
	75	3-Nitroaniline	138	9.002	9.002	(0.998)	3590	1.00000	0.5529(a)
	76	Acenaphthene	153	9.077	9.077	(1.007)	22511	1.00000	1.036(a)
	80	Dibenzofuran	168	9.429	9.429	(1.046)	30159	1.00000	1.001(a)
	81	2,4-Dinitrotoluene	165	9.588	9.588	(1.063)	2574	1.00000	0.3478(aM)
	82	Diethylphthalate	149	10.247	10.247	(1.137)	82949	1.00000	3.246(a)
	83	4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	10891	1.00000	1.097(a)
	84	Fluorene	166	10.233	10.233	(1.135)	24120	1.00000	1.038(a)
	96	1,1'-Biphenyl	154	7.870	7.870	(0.873)	29634	1.00000	1.108(a)
*	98	Phenanthrene-d10	188	12.615	12.615	(1.000)	946499	40.0000	
	99	1,2-Diphenylhydrazine	77	10.681	10.681	(0.847)	34121	1.00000	1.072(a)
	100	Carbazole	167	13.320	13.320	(1.056)	27083	1.00000	1.041(aM)
	102	N-Nitrosodiphenylamine	169	10.618	10.618	(0.842)	15449	1.00000	1.040(a)
$	103	2,4,6-Tribromophenol	330	10.874	10.874	(0.862)	5864	2.00000	1.679(aM)
	104	4-Bromophenyl-phenylether	248	11.524	11.524	(0.913)	6598	1.00000	1.024(a)
	105	Hexachlorobenzene	284	11.825	11.825	(0.937)	7281	1.00000	1.027(a)
	106	Pentachlorophenol	266	12.332	12.332	(0.978)	1962	1.00000	0.4364(aM)
	107	Phenanthrene	178	12.664	12.664	(1.004)	28372	1.00000	1.051(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
108 Anthracene	178	12.787	12.787	(1.014)	27984	1.00000	1.050(a)
110 Di-n-butylphthalate	149	14.732	14.732	(1.168)	41275	1.00000	0.9393(aM)
111 Fluoranthene	202	15.998	15.998	(1.268)	25169	1.00000	0.9420(a)
* 127 Chrysene-d12	240	20.222	20.222	(1.000)	688321	40.0000	
129 Pyrene	202	16.606	16.606	(0.821)	27809	1.00000	1.012(a)
$ 130 Terphenyl-d14	244	17.326	17.326	(0.857)	16954	1.00000	0.9754(a)
131 Butylbenzylphthalate	149	19.048	19.048	(0.942)	13304	1.00000	0.7782(aM)
133 Benzo(a)anthracene	228	20.174	20.174	(0.998)	21634	1.00000	0.9755(a)
134 Chrysene	228	20.291	20.291	(1.003)	18180	1.00000	0.8975(a)
135 Bis(2-ethylhexyl)phthalate	149	20.976	20.976	(1.037)	17302	1.00000	0.7754(aM)
* 149 Perylene-d12	264	24.438	24.438	(1.000)	601750	40.0000	
150 Di-n-octylphthalate	149	22.745	22.745	(0.931)	17403	1.00000	0.5202(aM)
151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	14209	1.00000	0.7665(aM)
152 Benzo(k)fluoranthene	252	23.336	23.336	(0.955)	16941	1.00000	0.8809(aM)
153 Benzo(a)pyrene	252	24.254	24.254	(0.992)	12423	1.00000	0.7772(aM)
154 Indeno(1,2,3-cd)pyrene	276	26.310	26.310	(1.077)	7005	1.00000	0.5137(aM)
155 Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	7871	1.00000	0.5733(aM)
156 Benzo(g,h,i)perylene	276	26.701	26.701	(1.093)	11398	1.00000	0.8054(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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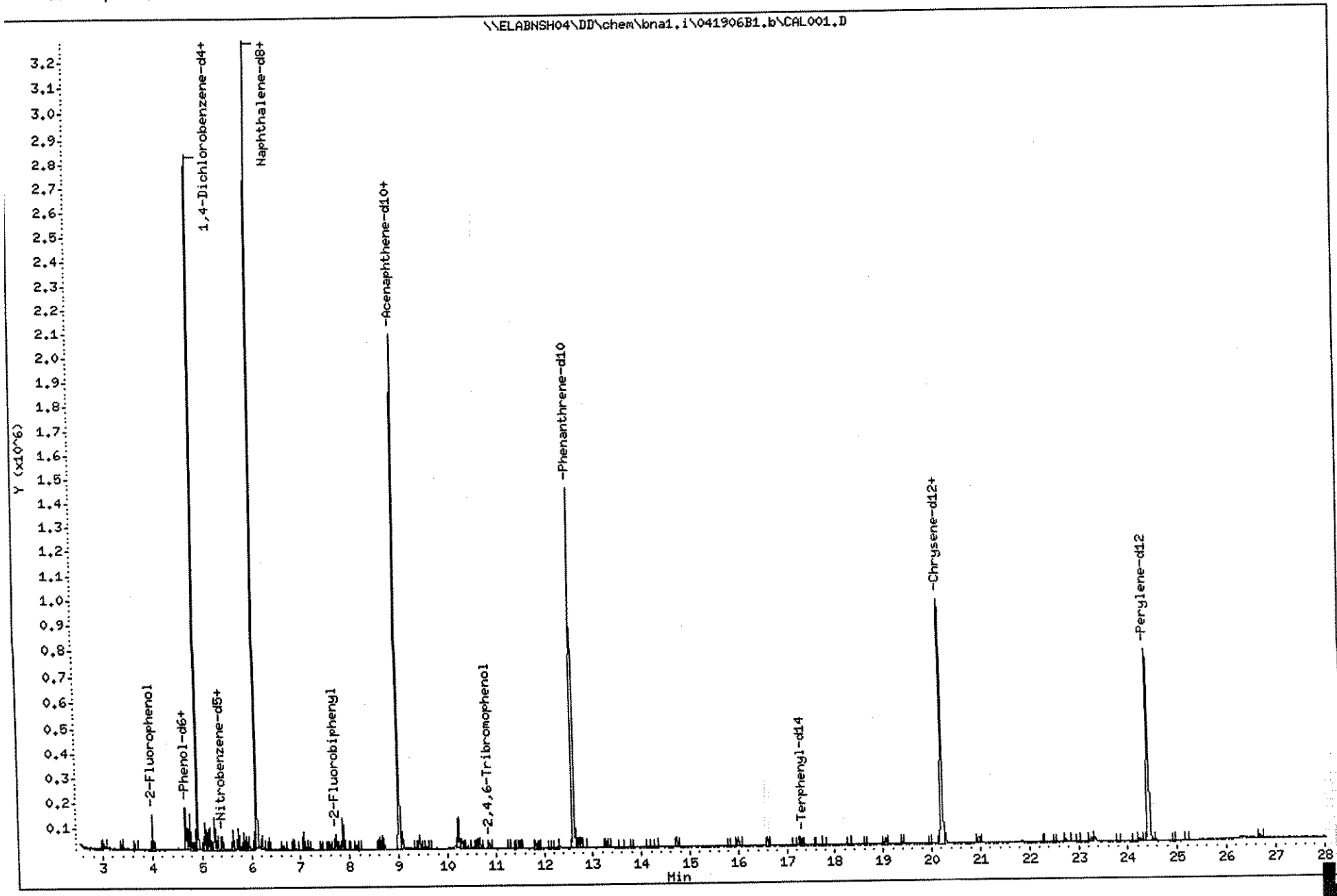
Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL001.D
Date : 19-APR-2006 15:52
Client ID: CAL001PPM
Sample Info: CAL001PPM;;;;;SV3350-1
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: ADM
Column diameter: 0.25

000290



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
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Inj Date : 19-APR-2006 16:28
Operator : ADM Inst ID: bna1.i
Smp Info : CAL002PPM;;;;;SV3350-2
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	459672	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	68870	4.00000	4.325(a)
$	3 Phenol-d6	99	4.664	4.664	(0.950)	85094	4.00000	4.471(a)
	4 Pyridine	79	2.995	2.995	(0.610)	40772	2.00000	1.988(aM)
	5 N-Nitroso-di-methylamine	42	2.975	2.975	(0.606)	21276	2.00000	2.001(a)
	6 Aniline	93	4.698	4.698	(0.957)	51006	2.00000	2.337(a)
	8 Phenol	94	4.678	4.678	(0.952)	49628	2.00000	2.280(a)
	9 bis(2-Chloroethyl)ether	93	4.732	4.732	(0.963)	40532	2.00000	2.126(a)
	10 2-Chlorophenol	128	4.774	4.774	(0.972)	32874	2.00000	2.174(a)
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	36234	2.00000	2.112(a)
	12 1,4-Dichlorobenzene.	146	4.925	4.925	(1.003)	33995	2.00000	2.090(a)
	13 Benzyl alcohol	108	5.035	5.035	(1.025)	20674	2.00000	1.998(a)
	14 1,2-Dichlorobenzene	146	5.069	5.069	(1.032)	33357	2.00000	2.194(a)
	15 2-Methylphenol	108	5.131	5.131	(1.045)	29780	2.00000	2.110(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

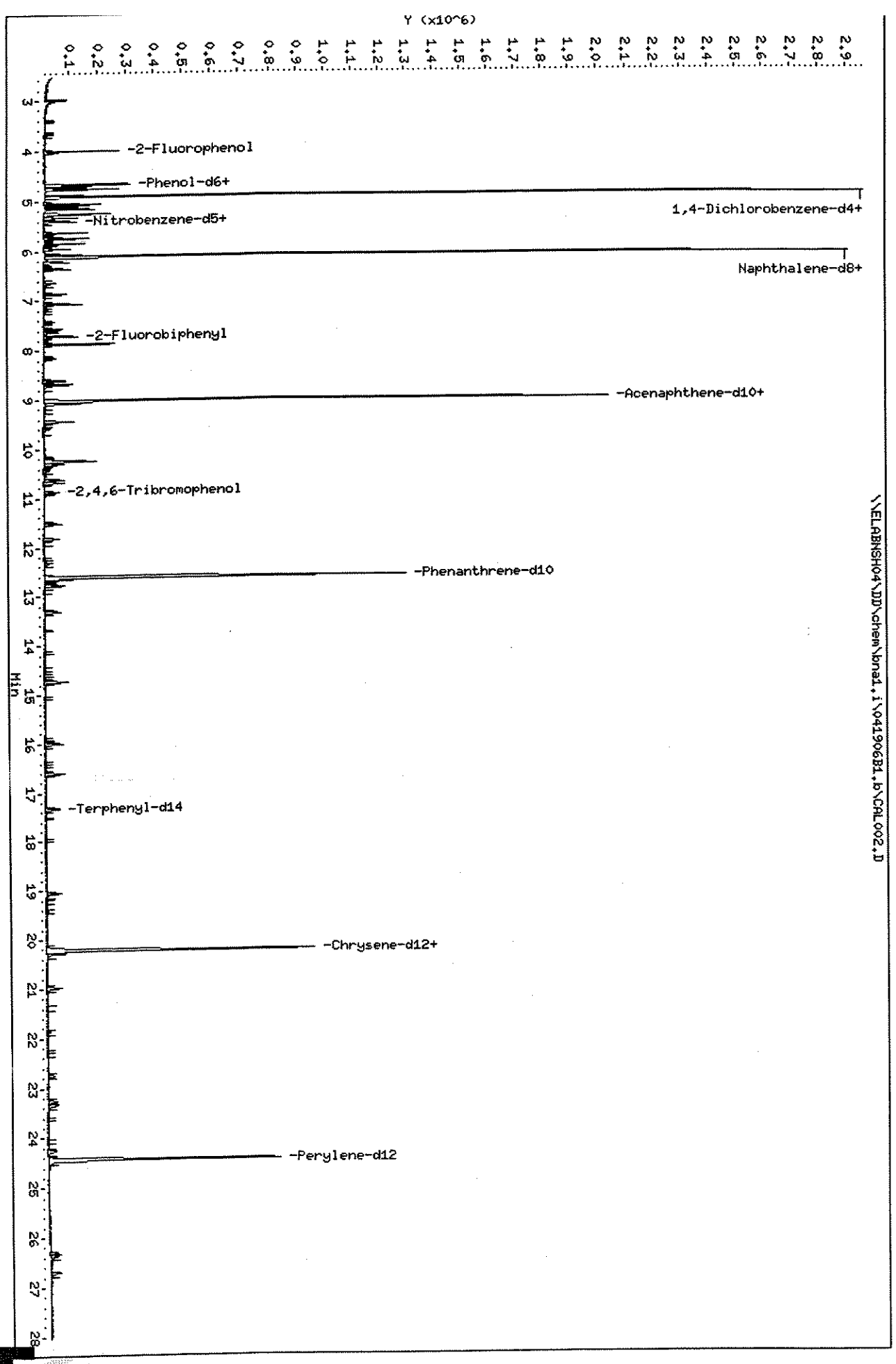
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	83878	2.00000	2.266(aM)
	17 3-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	18 4-Methylphenol	108	5.250	5.250	(1.069)	28762	2.00000	2.157(aM)
	19 N-Nitroso-di-n-propylamine	70	5.277	5.277	(1.074)	26739	2.00000	2.028(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	15115	2.00000	2.087(a)
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1335461	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.883)	26415	2.00000	1.812(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	29840	2.00000	2.022(a)
	35 Isophorone	82	5.630	5.630	(0.921)	70649	2.00000	2.247(a)
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	11891	2.00000	1.518(aM)
	38 2,4-Dimethylphenol	107	5.747	5.747	(0.940)	29447	2.00000	2.325(a)
	39 Benzoic acid	105	5.803	5.803	(0.950)	7645	2.00000	0.9760(aM)
	40 bis(2-Chloroethoxy)methane	93	5.851	5.851	(0.957)	43588	2.00000	2.304(a)
	43 2,4-Dichlorophenol	162	5.961	5.961	(0.975)	21361	2.00000	2.042(a)
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	25796	2.00000	2.311(a)
	47 Naphthalene	128	6.132	6.132	(1.003)	75317	2.00000	2.268(a)
	48 4-Chloroaniline	127	6.221	6.221	(1.018)	30211	2.00000	2.224(a)
	49 Hexachlorobutadiene	225	6.359	6.359	(1.041)	12807	2.00000	2.268(a)
	50 4-Chloro-3-methylphenol	107	6.865	6.865	(1.123)	22172	2.00000	2.123(a)
	51 2-Methylnaphthalene	141	7.058	7.058	(1.155)	45240	2.00000	2.371(a)
	53 Acetophenone	105	5.256	5.256	(1.070)	45056	2.00000	2.392(a)
	64 Caprolactam	113	6.636	6.636	(1.086)	8282	2.00000	2.176(a)
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	715946	40.0000	
	66 Hexachlorocyclopentadiene	237	7.431	7.431	(0.824)	5499	2.00000	1.285(a)
	67 2,4,6-Trichlorophenol	196	7.570	7.570	(0.840)	11714	2.00000	1.744(a)
	68 2,4,5-Trichlorophenol	196	7.631	7.631	(0.847)	12083	2.00000	1.737(aM)
	69 2-Chloronaphthalene	162	7.873	7.873	(0.873)	44566	2.00000	2.203(a)
$	70 2-Fluorobiphenyl	172	7.714	7.714	(0.856)	49686	2.00000	2.181(a)
	71 2-Nitroaniline	65	8.143	8.143	(0.903)	10033	2.00000	1.274(a)
	72 Dimethylphthalate	163	8.610	8.610	(0.955)	54323	2.00000	2.142(aM)
	73 Acenaphthylene	152	8.681	8.681	(0.963)	63502	2.00000	2.110(a)
	74 2,6-Dinitrotoluene	165	8.729	8.729	(0.968)	5524	2.00000	0.9940(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	8965	2.00000	1.452(a)
	76 Acenaphthene	153	9.076	9.076	(1.007)	44844	2.00000	2.170(a)
	79 4-Nitrophenol	65	9.421	9.421	(1.045)	5069	2.00000	1.190(aM)
	80 Dibenzofuran	168	9.434	9.434	(1.047)	60824	2.00000	2.124(a)
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	7054	2.00000	1.003(aM)
	82 Diethylphthalate	149	10.248	10.248	(1.137)	91680	2.00000	3.774(a)
	83 4-Chlorophenyl-phenylether	204	10.303	10.303	(1.143)	19176	2.00000	2.031(a)
	84 Fluorene	166	10.234	10.234	(1.135)	45902	2.00000	2.077(a)
	85 4-Nitroaniline	138	10.422	10.422	(1.156)	7010	2.00000	1.324(a)
	96 1,1'-Biphenyl	154	7.866	7.866	(0.873)	59011	2.00000	2.322(a)
*	98 Phenanthrene-d10	188	12.612	12.612	(1.000)	883734	40.0000	
	99 1,2-Diphenylhydrazine	77	10.678	10.678	(0.847)	63016	2.00000	2.122(a)
	100 Carbazole	167	13.312	13.312	(1.056)	53036	2.00000	2.184(a)
	102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	30977	2.00000	2.234(a)
$	103 2,4,6-Tribromophenol	330	10.879	10.879	(0.863)	11540	4.00000	3.540(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL002.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	==========	====	==	======	======	========	=======	=======
104	4-Bromophenyl-phenylether	248	11.520	11.520	(0.913)	12791	2.00000	2.127(a)
105	Hexachlorobenzene	284	11.828	11.828	(0.938)	14101	2.00000	2.130(a)
106	Pentachlorophenol	266	12.334	12.334	(0.978)	4144	2.00000	0.9871(aM)
107	Phenanthrene	178	12.667	12.667	(1.004)	52935	2.00000	2.101(a)
108	Anthracene	178	12.784	12.784	(1.014)	54512	2.00000	2.191(a)
110	Di-n-butylphthalate	149	14.728	14.728	(1.168)	85620	2.00000	2.087(a)
111	Fluoranthene	202	16.003	16.003	(1.269)	51110	2.00000	2.049(a)
* 127	Chrysene-d12	240	20.225	20.225	(1.000)	672325	40.0000	
129	Pyrene	202	16.608	16.608	(0.821)	55190	2.00000	2.055(a)
$ 130	Terphenyl-d14	244	17.328	17.328	(0.857)	32936	2.00000	1.940(a)
131	Butylbenzylphthalate	149	19.055	19.055	(0.942)	27940	2.00000	1.673(a)
133	Benzo(a)anthracene	228	20.170	20.170	(0.997)	43857	2.00000	2.024(a)
134	Chrysene	228	20.287	20.287	(1.003)	39003	2.00000	1.971(a)
135	Bis(2-ethylhexyl)phthalate	149	20.977	20.977	(1.037)	37089	2.00000	1.702(aM)
* 149	Perylene-d12	264	24.442	24.442	(1.000)	644607	40.0000	
150	Di-n-octylphthalate	149	22.741	22.741	(0.930)	42134	2.00000	1.176(aM)
151	Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	37481	2.00000	1.888(a)
152	Benzo(k)fluoranthene	252	23.334	23.334	(0.955)	38940	2.00000	1.890(a)
153	Benzo(a)pyrene	252	24.260	24.260	(0.993)	29929	2.00000	1.748(a)
154	Indeno(1,2,3-cd)pyrene	276	26.304	26.304	(1.076)	21081	2.00000	1.443(a)
155	Dibenz(a,h)anthracene	278	26.359	26.359	(1.078)	20490	2.00000	1.393(a)
156	Benzo(g,h,i)perylene	276	26.700	26.700	(1.092)	28849	2.00000	1.903(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
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Inj Date : 19-APR-2006 17:04
Operator : ADM Inst ID: bna1.i
Smp Info : CAL005PPM;;;;;SV3350-3
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MJM/C

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.912	4.912	(1.000)	475614	40.0000	
$	2 2-Fluorophenol	112	4.004	4.004	(0.815)	171345	10.0000	10.40
$	3 Phenol-d6	99	4.665	4.665	(0.950)	215645	10.0000	10.95
	4 Pyridine	79	2.983	2.983	(0.607)	93470	5.00000	4.406(aM)
	5 N-Nitroso-di-methylamine	42	2.976	2.976	(0.606)	52719	5.00000	4.791(a)
	6 Aniline	93	4.699	4.699	(0.957)	123379	5.00000	5.924
	8 Phenol	94	4.679	4.679	(0.953)	123324	5.00000	5.476
	9 bis(2-Chloroethyl)ether	93	4.733	4.733	(0.964)	102620	5.00000	5.201
	10 2-Chlorophenol	128	4.775	4.775	(0.972)	85348	5.00000	5.454
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	89714	5.00000	5.055
	12 1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	90966	5.00000	5.404
	13 Benzyl alcohol	108	5.036	5.036	(1.025)	53082	5.00000	4.957(a)
	14 1,2-Dichlorobenzene	146	5.070	5.070	(1.032)	83771	5.00000	5.326
	15 2-Methylphenol	108	5.132	5.132	(1.045)	73753	5.00000	5.052

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.159	5.159	(1.050)	212876	5.00000	5.558
	17 3-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	18 4-Methylphenol	108	5.248	5.248	(1.069)	73874	5.00000	5.355(H)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	67319	5.00000	4.935(a)
	20 Hexachloroethane	117	5.332	5.332	(1.086)	37012	5.00000	4.939(a)
*	31 Naphthalene-d8	136	6.113	6.113	(1.000)	1420826	40.0000	
$	32 Nitrobenzene-d5	82	5.394	5.394	(0.882)	73173	5.00000	4.718(a)
	33 Nitrobenzene	77	5.408	5.408	(0.885)	80339	5.00000	5.116
	35 Isophorone	82	5.627	5.627	(0.920)	169909	5.00000	5.079
	36 2-Nitrophenol	139	5.716	5.716	(0.935)	34608	5.00000	4.154(a)
	38 2,4-Dimethylphenol	107	5.750	5.750	(0.941)	69848	5.00000	5.183(a)
	39 Benzoic acid	105	5.818	5.818	(0.952)	24938	5.00000	2.980(aM)
	40 bis(2-Chloroethoxy)methane	93	5.852	5.852	(0.957)	110579	5.00000	5.495
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	58290	5.00000	5.236
	46 1,2,4-Trichlorobenzene	180	6.065	6.065	(0.992)	62407	5.00000	5.255
	47 Naphthalene	128	6.134	6.134	(1.003)	193155	5.00000	5.468
	48 4-Chloroaniline	127	6.222	6.222	(1.018)	78431	5.00000	5.428
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	30279	5.00000	5.040
	50 4-Chloro-3-methylphenol	107	6.863	6.863	(1.123)	52760	5.00000	4.747(a)
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	102639	5.00000	5.056
	53 Acetophenone	105	5.255	5.255	(1.070)	108140	5.00000	5.548
	64 Caprolactam	113	6.623	6.623	(1.083)	22025	5.00000	5.439
*	65 Acenaphthene-d10	164	9.021	9.021	(1.000)	694890	40.0000	
	66 Hexachlorocyclopentadiene	237	7.438	7.438	(0.824)	16668	5.00000	4.014(a)
	67 2,4,6-Trichlorophenol	196	7.571	7.571	(0.839)	31616	5.00000	4.850(a)
	68 2,4,5-Trichlorophenol	196	7.626	7.626	(0.845)	32441	5.00000	4.804(a)
	69 2-Chloronaphthalene	162	7.868	7.868	(0.872)	108794	5.00000	5.541
$	70 2-Fluorobiphenyl	172	7.715	7.715	(0.855)	121535	5.00000	5.496
	71 2-Nitroaniline	65	8.146	8.146	(0.903)	34106	5.00000	4.461(a)
	72 Dimethylphthalate	163	8.607	8.607	(0.954)	126646	5.00000	5.146
	73 Acenaphthylene	152	8.683	8.683	(0.962)	159380	5.00000	5.455
	74 2,6-Dinitrotoluene	165	8.730	8.730	(0.968)	19532	5.00000	3.621(a)
	75 3-Nitroaniline	138	9.001	9.001	(0.998)	25055	5.00000	4.182(a)
	76 Acenaphthene	153	9.083	9.083	(1.007)	106758	5.00000	5.323
	77 2,4-Dinitrophenol	184	9.227	9.227	(1.023)	4038	5.00000	1.716(aM)
	79 4-Nitrophenol	65	9.435	9.435	(1.046)	14854	5.00000	3.594(a)
	80 Dibenzofuran	168	9.435	9.435	(1.046)	152747	5.00000	5.496
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	22756	5.00000	3.332(a)
	82 Diethylphthalate	149	10.251	10.251	(1.136)	144613	5.00000	6.133
	83 4-Chlorophenyl-phenylether	204	10.305	10.305	(1.142)	46998	5.00000	5.129
	84 Fluorene	166	10.230	10.230	(1.134)	111406	5.00000	5.194
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	20170	5.00000	3.924(a)
	96 1,1'-Biphenyl	154	7.868	7.868	(0.872)	144530	5.00000	5.859
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	911816	40.0000	
	99 1,2-Diphenylhydrazine	77	10.676	10.676	(0.846)	156696	5.00000	5.113
	100 Carbazole	167	13.314	13.314	(1.055)	127381	5.00000	5.083
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	6274	5.00000	1.927(aM)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.622	10.622	(0.842)	71989	5.00000	5.033
$ 103 2,4,6-Tribromophenol	330	10.882	10.882	(0.863)	29866	10.0000	8.878
104 4-Bromophenyl-phenylether	248	11.518	11.518	(0.913)	33042	5.00000	5.325
105 Hexachlorobenzene	284	11.826	11.826	(0.937)	35919	5.00000	5.258
106 Pentachlorophenol	266	12.338	12.338	(0.978)	13491	5.00000	3.114(a)
107 Phenanthrene	178	12.665	12.665	(1.004)	133874	5.00000	5.149
108 Anthracene	178	12.782	12.782	(1.013)	133385	5.00000	5.197
110 Di-n-butylphthalate	149	14.729	14.729	(1.167)	211721	5.00000	5.002
111 Fluoranthene	202	16.007	16.007	(1.269)	132887	5.00000	5.163
* 127 Chrysene-d12	240	20.223	20.223	(1.000)	672352	40.0000	
129 Pyrene	202	16.610	16.610	(0.821)	135545	5.00000	5.048
$ 130 Terphenyl-d14	244	17.321	17.321	(0.857)	84320	5.00000	4.966(a)
131 Butylbenzylphthalate	149	19.053	19.053	(0.942)	80968	5.00000	4.849(a)
133 Benzo(a)anthracene	228	20.169	20.169	(0.997)	104322	5.00000	4.816(a)
134 Chrysene	228	20.285	20.285	(1.003)	97332	5.00000	4.919(a)
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	94980	5.00000	4.358(a)
* 149 Perylene-d12	264	24.443	24.443	(1.000)	645197	40.0000	
150 Di-n-octylphthalate	149	22.746	22.746	(0.931)	124491	5.00000	3.471(a)
151 Benzo(b)fluoranthene	252	23.263	23.263	(0.952)	87676	5.00000	4.411(a)
152 Benzo(k)fluoranthene	252	23.345	23.345	(0.955)	100619	5.00000	4.880(a)
153 Benzo(a)pyrene	252	24.255	24.255	(0.992)	78542	5.00000	4.583(a)
154 Indeno(1,2,3-cd)pyrene	276	26.311	26.311	(1.076)	52428	5.00000	3.586(a)
155 Dibenz(a,h)anthracene	278	26.360	26.360	(1.078)	52469	5.00000	3.564(a)
156 Benzo(g,h,i)perylene	276	26.695	26.695	(1.092)	71525	5.00000	4.714(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL005.D
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Sample Info: CAL005PPM;;;;;SV3350-3
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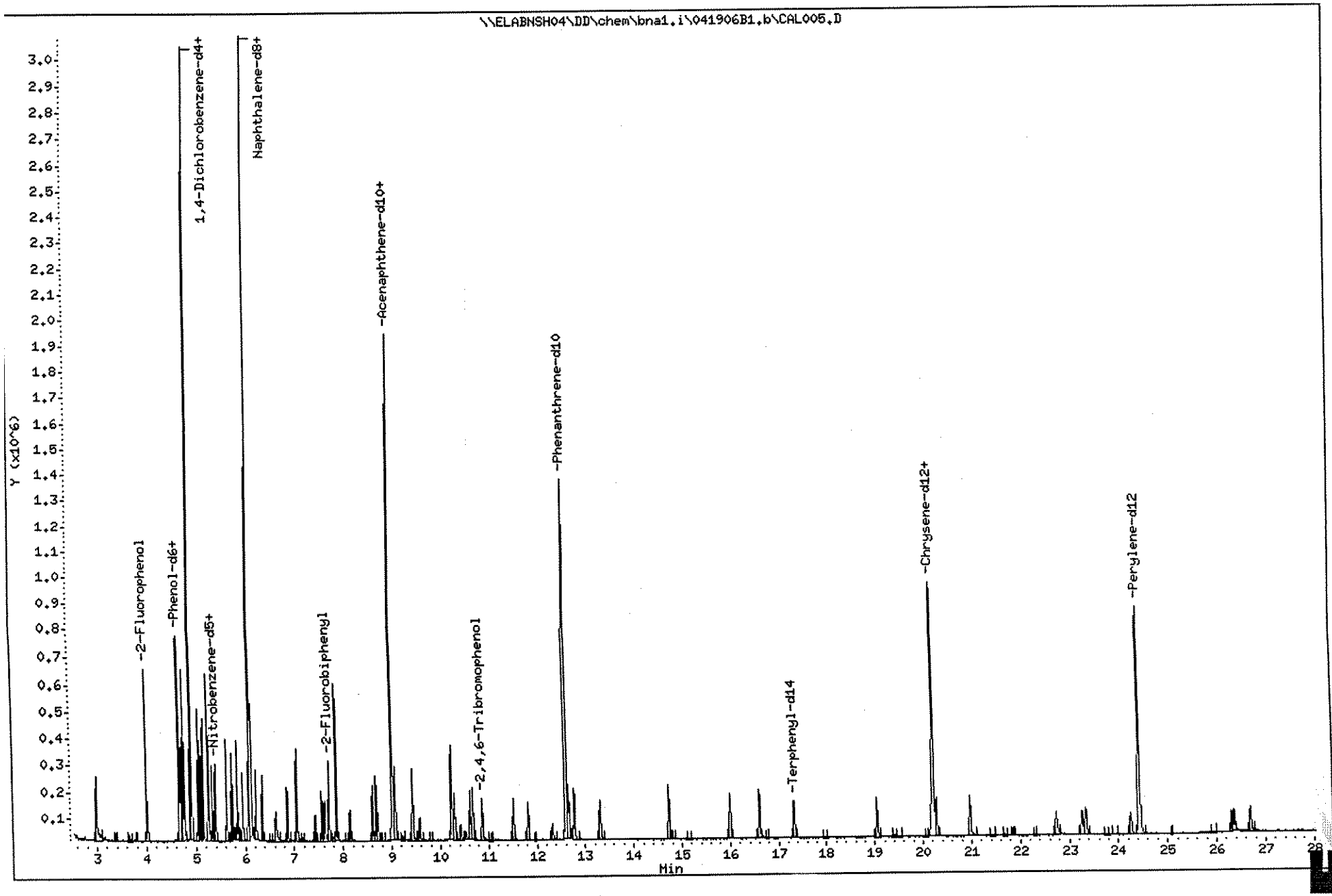
Column phase: fused silica

Instrument: bna1.i
Operator: ADM
Column diameter: 0.25

000298



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

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Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
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Inj Date : 19-APR-2006 17:41
Operator : ADM Inst ID: bna1.i
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Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mu/n/c

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	451211	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	329284	20.0000	21.07
$	3 Phenol-d6	99	4.669	4.669	(0.951)	421244	20.0000	22.55
	4 Pyridine	79	2.980	2.980	(0.607)	204053	10.0000	10.14(a)
	5 N-Nitroso-di-methylamine	42	2.972	2.972	(0.605)	107740	10.0000	10.32
	6 Aniline	93	4.696	4.696	(0.956)	182559	10.0000	9.943
	8 Phenol	94	4.676	4.676	(0.952)	242634	10.0000	11.36
	9 bis(2-Chloroethyl)ether	93	4.738	4.738	(0.965)	202714	10.0000	10.83
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	157383	10.0000	10.60
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	180851	10.0000	10.74
	12 1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	170132	10.0000	10.65
	13 Benzyl alcohol	108	5.034	5.034	(1.025)	104367	10.0000	10.27
	14 1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	167450	10.0000	11.22
	15 2-Methylphenol	108	5.130	5.130	(1.045)	142427	10.0000	10.28

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	406264	10.0000	11.18
	17 3-Methylphenol	108	5.249	5.249	(1.069)	145547	10.0000	11.12(M)
	18 4-Methylphenol	108	5.249	5.249	(1.069)	145384	10.0000	11.11(M)
	19 N-Nitroso-di-n-propylamine	70	5.276	5.276	(1.074)	143274	10.0000	11.07
	20 Hexachloroethane	117	5.330	5.330	(1.085)	75523	10.0000	10.62
*	31 Naphthalene-d8	136	6.108	6.108	(1.000)	1400300	40.0000	
$	32 Nitrobenzene-d5	82	5.392	5.392	(0.883)	153864	10.0000	10.06
	33 Nitrobenzene	77	5.413	5.413	(0.886)	162990	10.0000	10.53
	35 Isophorone	82	5.628	5.628	(0.921)	337864	10.0000	10.25
	36 2-Nitrophenol	139	5.717	5.717	(0.936)	73857	10.0000	8.995
	38 2,4-Dimethylphenol	107	5.745	5.745	(0.940)	141059	10.0000	10.62(a)
	39 Benzoic acid	105	5.827	5.827	(0.954)	60354	10.0000	7.253(aM)
	40 bis(2-Chloroethoxy)methane	93	5.854	5.854	(0.958)	210569	10.0000	10.62
	43 2,4-Dichlorophenol	162	5.958	5.958	(0.975)	113426	10.0000	10.34
	46 1,2,4-Trichlorobenzene	180	6.060	6.060	(0.992)	117341	10.0000	10.02
	47 Naphthalene	128	6.136	6.136	(1.004)	380277	10.0000	10.92
	48 4-Chloroaniline	127	6.225	6.225	(1.019)	148951	10.0000	10.46
	49 Hexachlorobutadiene	225	6.356	6.356	(1.041)	63250	10.0000	10.68
	50 4-Chloro-3-methylphenol	107	6.867	6.867	(1.124)	109973	10.0000	10.04
	51 2-Methylnaphthalene	141	7.061	7.061	(1.156)	213423	10.0000	10.67
	53 Acetophenone	105	5.255	5.255	(1.070)	210910	10.0000	11.40
	64 Caprolactam	113	6.629	6.629	(1.085)	34274	10.0000	8.588
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	725842	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.825)	33932	10.0000	7.824
	67 2,4,6-Trichlorophenol	196	7.575	7.575	(0.840)	67082	10.0000	9.852
	68 2,4,5-Trichlorophenol	196	7.630	7.630	(0.846)	68137	10.0000	9.660
	69 2-Chloronaphthalene	162	7.872	7.872	(0.873)	222381	10.0000	10.84
$	70 2-Fluorobiphenyl	172	7.713	7.713	(0.855)	239712	10.0000	10.38
	71 2-Nitroaniline	65	8.147	8.147	(0.903)	74506	10.0000	9.330(a)
	72 Dimethylphthalate	163	8.608	8.608	(0.954)	266177	10.0000	10.35
	73 Acenaphthylene	152	8.684	8.684	(0.963)	320879	10.0000	10.51
	74 2,6-Dinitrotoluene	165	8.732	8.732	(0.968)	48269	10.0000	8.567
	75 3-Nitroaniline	138	9.005	9.005	(0.998)	57620	10.0000	9.207(a)
	76 Acenaphthene	153	9.082	9.082	(1.007)	216491	10.0000	10.33
	77 2,4-Dinitrophenol	184	9.233	9.233	(1.024)	11927	10.0000	4.816(a)
	79 4-Nitrophenol	65	9.434	9.434	(1.046)	39392	10.0000	9.125(a)
	80 Dibenzofuran	168	9.434	9.434	(1.046)	303293	10.0000	10.45
	81 2,4-Dinitrotoluene	165	9.586	9.586	(1.063)	60589	10.0000	8.494
	82 Diethylphthalate	149	10.256	10.256	(1.137)	282462	10.0000	11.47
	83 4-Chlorophenyl-phenylether	204	10.304	10.304	(1.142)	98876	10.0000	10.33
	84 Fluorene	166	10.235	10.235	(1.135)	230648	10.0000	10.29
	85 4-Nitroaniline	138	10.429	10.429	(1.156)	44171	10.0000	8.228(a)
	96 1,1'-Biphenyl	154	7.865	7.865	(0.872)	290184	10.0000	11.26
*	98 Phenanthrene-d10	188	12.615	12.615	(1.000)	927460	40.0000	
	99 1,2-Diphenylhydrazine	77	10.684	10.684	(0.847)	325188	10.0000	10.43
	100 Carbazole	167	13.315	13.315	(1.055)	263893	10.0000	10.35
	101 4,6-Dinitro-2-methylphenol	198	10.539	10.539	(0.835)	19387	10.0000	5.808(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Report Date: 20-Apr-2006 14:25

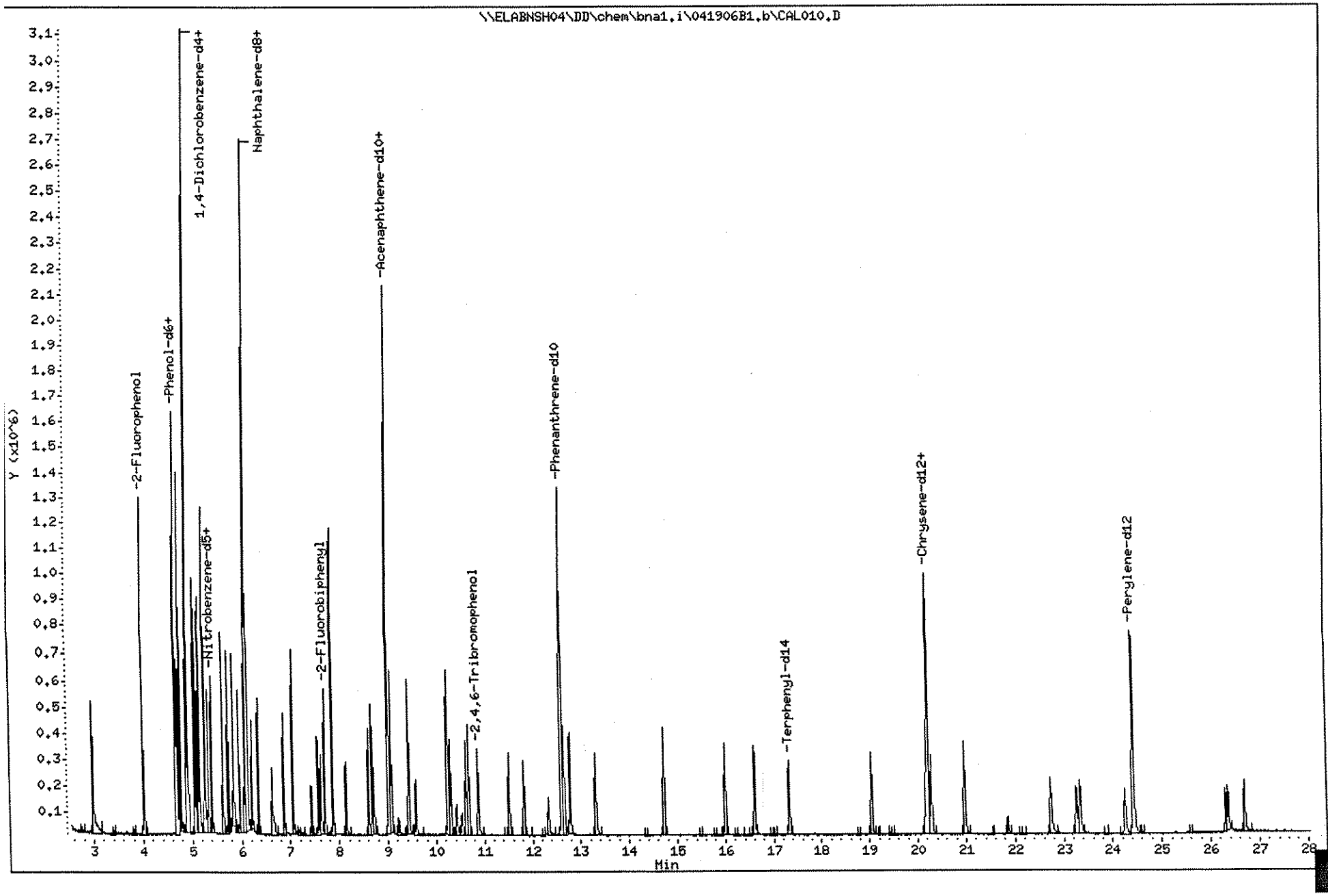
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.623	10.623	(0.842)	149668	10.0000	10.29
$ 103 2,4,6-Tribromophenol	330	10.883	10.883	(0.863)	64685	20.0000	18.90
104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	65210	10.0000	10.33
105 Hexachlorobenzene	284	11.828	11.828	(0.938)	71643	10.0000	10.31
106 Pentachlorophenol	266	12.335	12.335	(0.978)	34405	10.0000	7.809(a)
107 Phenanthrene	178	12.670	12.670	(1.004)	269498	10.0000	10.19
108 Anthracene	178	12.787	12.787	(1.014)	274651	10.0000	10.52
110 Di-n-butylphthalate	149	14.735	14.735	(1.168)	449677	10.0000	10.44
111 Fluoranthene	202	16.009	16.009	(1.269)	269448	10.0000	10.29
* 127 Chrysene-d12	240	20.227	20.227	(1.000)	676674	40.0000	
129 Pyrene	202	16.612	16.612	(0.821)	266777	10.0000	9.872
$ 130 Terphenyl-d14	244	17.326	17.326	(0.857)	169339	10.0000	9.910
131 Butylbenzylphthalate	149	19.052	19.052	(0.942)	167331	10.0000	9.956
133 Benzo(a)anthracene	228	20.179	20.179	(0.998)	211736	10.0000	9.712
134 Chrysene	228	20.289	20.289	(1.003)	199340	10.0000	10.01
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	214066	10.0000	9.759
* 149 Perylene-d12	264	24.436	24.436	(1.000)	607007	40.0000	
150 Di-n-octylphthalate	149	22.744	22.744	(0.931)	303554	10.0000	8.996
151 Benzo(b)fluoranthene	252	23.266	23.266	(0.952)	176724	10.0000	9.451
152 Benzo(k)fluoranthene	252	23.342	23.342	(0.955)	204048	10.0000	10.52
153 Benzo(a)pyrene	252	24.256	24.256	(0.993)	155167	10.0000	9.624
154 Indeno(1,2,3-cd)pyrene	276	26.309	26.309	(1.077)	103651	10.0000	7.535
155 Dibenz(a,h)anthracene	278	26.364	26.364	(1.079)	105250	10.0000	7.600
156 Benzo(g,h,i)perylene	276	26.697	26.697	(1.093)	137357	10.0000	9.622

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL010.D
Date : 19-APR-2006 17:41
Client ID: CAL010PPM
Instrument: bna1.i
Sample Info: CAL010PPM;;;;;SV3350-4
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000302



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Lab Smp Id: CAL020PPM Client Smp ID: CAL020PPM
Inj Date : 19-APR-2006 18:17
Operator : ADM Inst ID: bna1.i
Smp Info : CAL020PPM;;;;;SV3350-5
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

5/1/2116

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	450379	40.0000	
$	2 2-Fluorophenol	112	4.006	4.006	(0.816)	696867	40.0000	44.67
$	3 Phenol-d6	99	4.676	4.676	(0.953)	837325	40.0000	44.90
	4 Pyridine	79	2.969	2.969	(0.605)	466100	20.0000	23.20
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	230605	20.0000	22.13
	6 Aniline	93	4.696	4.696	(0.957)	322468	20.0000	20.26
	8 Phenol	94	4.682	4.682	(0.954)	472819	20.0000	22.17
	9 bis(2-Chloroethyl)ether	93	4.737	4.737	(0.965)	395751	20.0000	21.18
	10 2-Chlorophenol	128	4.778	4.778	(0.973)	317071	20.0000	21.40
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	365029	20.0000	21.72
	12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	346837	20.0000	21.76
	13 Benzyl alcohol	108	5.033	5.033	(1.025)	221967	20.0000	21.89
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	326841	20.0000	21.94
	15 2-Methylphenol	108	5.136	5.136	(1.046)	296787	20.0000	21.47

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16	bis(2-Chloroisopropyl)ether	45	5.157	5.157	(1.051)	790093	20.0000	21.78
	17	3-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	18	4-Methylphenol	108	5.253	5.253	(1.070)	283214	20.0000	21.68(H)
	19	N-Nitroso-di-n-propylamine	70	5.280	5.280	(1.076)	274613	20.0000	21.26
	20	Hexachloroethane	117	5.335	5.335	(1.087)	152119	20.0000	21.44
*	31	Naphthalene-d8	136	6.111	6.111	(1.000)	1389364	40.0000	
$	32	Nitrobenzene-d5	82	5.396	5.396	(0.883)	329513	20.0000	21.73
	33	Nitrobenzene	77	5.417	5.417	(0.886)	335345	20.0000	21.84
	35	Isophorone	82	5.630	5.630	(0.921)	677625	20.0000	20.72
	36	2-Nitrophenol	139	5.720	5.720	(0.936)	177658	20.0000	21.81
	38	2,4-Dimethylphenol	107	5.748	5.748	(0.941)	272819	20.0000	20.70
	39	Benzoic acid	105	5.857	5.857	(0.959)	155745	20.0000	18.41(aM)
	40	bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.959)	418015	20.0000	21.24
	43	2,4-Dichlorophenol	162	5.960	5.960	(0.975)	234867	20.0000	21.58
	46	1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	252399	20.0000	21.73
	47	Naphthalene	128	6.138	6.138	(1.004)	757785	20.0000	21.94
	48	4-Chloroaniline	127	6.221	6.221	(1.018)	292038	20.0000	20.67
	49	Hexachlorobutadiene	225	6.358	6.358	(1.040)	125237	20.0000	21.32
	50	4-Chloro-3-methylphenol	107	6.876	6.876	(1.125)	231041	20.0000	21.26
	51	2-Methylnaphthalene	141	7.061	7.061	(1.155)	433542	20.0000	21.84
	53	Acetophenone	105	5.260	5.260	(1.071)	417425	20.0000	22.62
	64	Caprolactam	113	6.646	6.646	(1.087)	75217	20.0000	19.00
*	65	Acenaphthene-d10	164	9.020	9.020	(1.000)	697712	40.0000	
	66	Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	81904	20.0000	19.64
	67	2,4,6-Trichlorophenol	196	7.573	7.573	(0.840)	140462	20.0000	21.46
	68	2,4,5-Trichlorophenol	196	7.635	7.635	(0.847)	144400	20.0000	21.30
	69	2-Chloronaphthalene	162	7.876	7.876	(0.873)	439171	20.0000	22.28
$	70	2-Fluorobiphenyl	172	7.718	7.718	(0.856)	476178	20.0000	21.45
	71	2-Nitroaniline	65	8.151	8.151	(0.904)	164704	20.0000	21.46
	72	Dimethylphthalate	163	8.617	8.617	(0.955)	512687	20.0000	20.75
	73	Acenaphthylene	152	8.686	8.686	(0.963)	631061	20.0000	21.51
	74	2,6-Dinitrotoluene	165	8.733	8.733	(0.968)	106101	20.0000	19.59
	75	3-Nitroaniline	138	9.013	9.013	(0.999)	119722	20.0000	19.90(a)
	76	Acenaphthene	153	9.082	9.082	(1.007)	430062	20.0000	21.36
	77	2,4-Dinitrophenol	184	9.233	9.233	(1.024)	36080	20.0000	14.78(a)
	79	4-Nitrophenol	65	9.441	9.441	(1.047)	78728	20.0000	18.97(a)
	80	Dibenzofuran	168	9.441	9.441	(1.047)	597294	20.0000	21.40
	81	2,4-Dinitrotoluene	165	9.591	9.591	(1.063)	133829	20.0000	19.52
	82	Diethylphthalate	149	10.255	10.255	(1.137)	505710	20.0000	21.36
	83	4-Chlorophenyl-phenylether	204	10.310	10.310	(1.143)	187598	20.0000	20.39
	84	Fluorene	166	10.235	10.235	(1.135)	462776	20.0000	21.49
	85	4-Nitroaniline	138	10.441	10.441	(1.158)	94078	20.0000	18.23(a)
	96	1,1'-Biphenyl	154	7.869	7.869	(0.872)	563539	20.0000	22.75
*	98	Phenanthrene-d10	188	12.616	12.616	(1.000)	894149	40.0000	
	99	1,2-Diphenylhydrazine	77	10.688	10.688	(0.847)	647315	20.0000	21.54
	100	Carbazole	167	13.318	13.318	(1.056)	499492	20.0000	20.33
	101	4,6-Dinitro-2-methylphenol	198	10.551	10.551	(0.836)	54723	20.0000	16.61(a)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Report Date: 20-Apr-2006 14:25

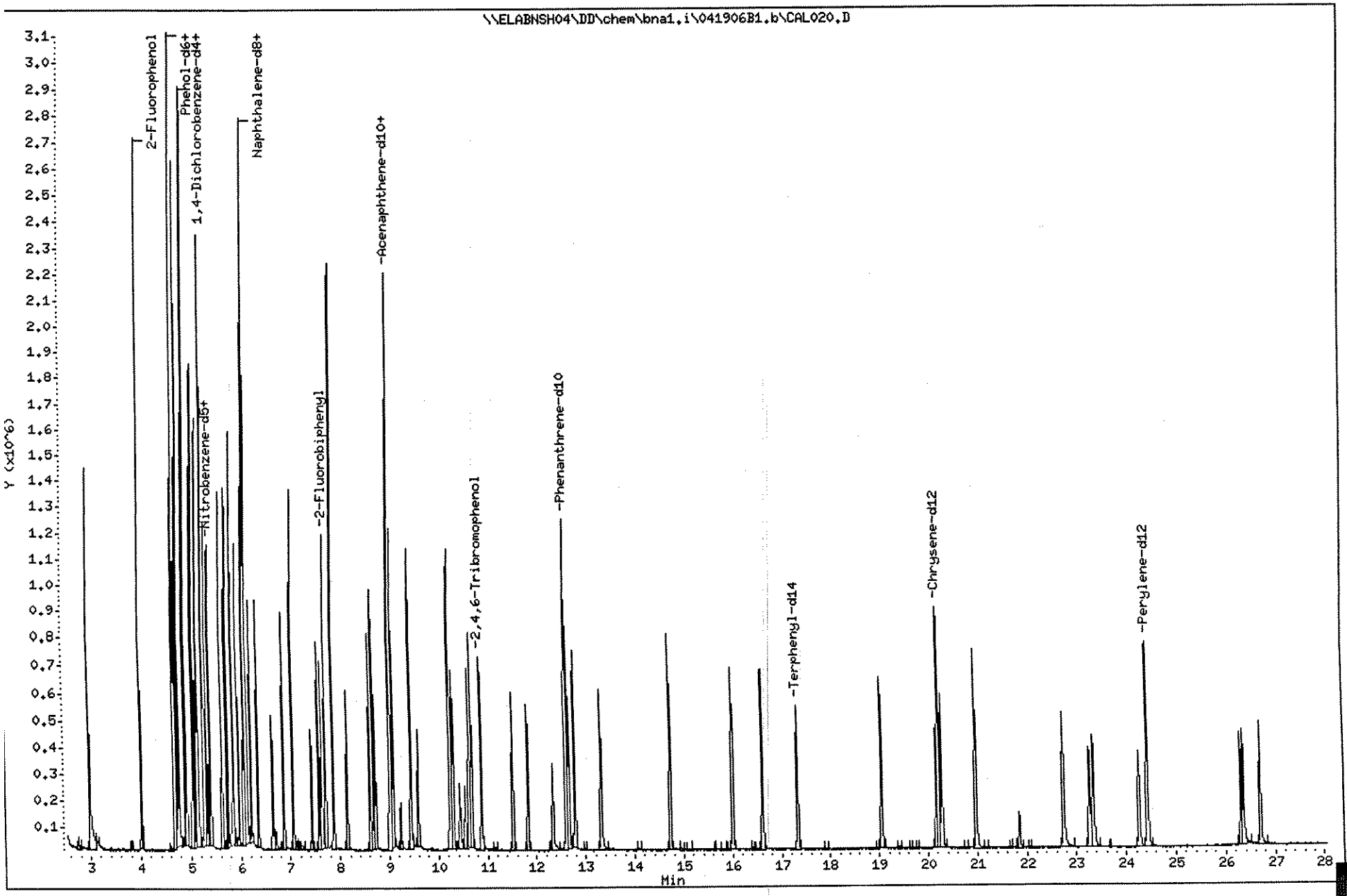
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.633	10.633	(0.843)	288892	20.0000	20.60
$ 103 2,4,6-Tribromophenol	330	10.881	10.881	(0.862)	141451	40.0000	42.88
104 4-Bromophenyl-phenylether	248	11.521	11.521	(0.913)	123696	20.0000	20.33
105 Hexachlorobenzene	284	11.834	11.834	(0.938)	135119	20.0000	20.17
106 Pentachlorophenol	266	12.342	12.342	(0.978)	75763	20.0000	17.84(a)
107 Phenanthrene	178	12.672	12.672	(1.004)	530235	20.0000	20.80
108 Anthracene	178	12.789	12.789	(1.014)	516667	20.0000	20.53
110 Di-n-butylphthalate	149	14.734	14.734	(1.168)	912958	20.0000	21.99
111 Fluoranthene	202	16.007	16.007	(1.269)	531348	20.0000	21.05
* 127 Chrysene-d12	240	20.228	20.228	(1.000)	640943	40.0000	
129 Pyrene	202	16.620	16.620	(0.822)	547094	20.0000	21.37
$ 130 Terphenyl-d14	244	17.334	17.334	(0.857)	346394	20.0000	21.40
131 Butylbenzylphthalate	149	19.050	19.050	(0.942)	345167	20.0000	21.68
133 Benzo(a)anthracene	228	20.180	20.180	(0.998)	428065	20.0000	20.73
134 Chrysene	228	20.297	20.297	(1.003)	394048	20.0000	20.89
135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	440244	20.0000	21.19
* 149 Perylene-d12	264	24.439	24.439	(1.000)	607539	40.0000	
150 Di-n-octylphthalate	149	22.747	22.747	(0.931)	692650	20.0000	20.51
151 Benzo(b)fluoranthene	252	23.272	23.272	(0.952)	387148	20.0000	20.69
152 Benzo(k)fluoranthene	252	23.354	23.354	(0.956)	402473	20.0000	20.73
153 Benzo(a)pyrene	252	24.260	24.260	(0.993)	339271	20.0000	21.02
154 Indeno(1,2,3-cd)pyrene	276	26.314	26.314	(1.077)	265116	20.0000	19.26
155 Dibenz(a,h)anthracene	278	26.369	26.369	(1.079)	253157	20.0000	18.26
156 Benzo(g,h,i)perylene	276	26.707	26.707	(1.093)	312710	20.0000	21.88

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL020.D
Date : 19-APR-2006 18:17
Client ID: CAL020PPM
Instrument: bna1.i
Sample Info: CAL020PPM;;;;;SV3350-5
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000306



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
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Inj Date : 19-APR-2006 18:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL030PPM;;;;;SV3350-6
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MM/4/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.913	4.913	(1.000)	464430	40.0000	
$ 2	2-Fluorophenol	112	4.010	4.010	(0.816)	1010229	60.0000	62.80
$ 3	Phenol-d6	99	4.673	4.673	(0.951)	1192818	60.0000	62.03
4	Pyridine	79	2.974	2.974	(0.605)	605623	30.0000	29.23
5	N-Nitroso-di-methylamine	42	2.981	2.981	(0.607)	331861	30.0000	30.89
6	Aniline	93	4.701	4.701	(0.957)	430642	30.0000	28.59
8	Phenol	94	4.687	4.687	(0.954)	673094	30.0000	30.61
9	bis(2-Chloroethyl)ether	93	4.742	4.742	(0.965)	566971	30.0000	29.43
10	2-Chlorophenol	128	4.776	4.776	(0.972)	466378	30.0000	30.52
11	1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	528147	30.0000	30.47
12	1,4-Dichlorobenzene	146	4.927	4.927	(1.003)	507205	30.0000	30.86
13	Benzyl alcohol	108	5.037	5.037	(1.025)	327457	30.0000	31.31
14	1,2-Dichlorobenzene	146	5.071	5.071	(1.032)	480377	30.0000	31.27
15	2-Methylphenol	108	5.139	5.139	(1.046)	434863	30.0000	30.50

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.160	5.160	(1.050)	1139012	30.0000	30.46
	17 3-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	18 4-Methylphenol	108	5.256	5.256	(1.070)	419960	30.0000	31.18(H)
	19 N-Nitroso-di-n-propylamine	70	5.284	5.284	(1.075)	407449	30.0000	30.59
	20 Hexachloroethane	117	5.332	5.332	(1.085)	227403	30.0000	31.08
*	31 Naphthalene-d8	136	6.114	6.114	(1.000)	1412532	40.0000	
$	32 Nitrobenzene-d5	82	5.400	5.400	(0.883)	485029	30.0000	31.46
	33 Nitrobenzene	77	5.414	5.414	(0.886)	497405	30.0000	31.86
	35 Isophorone	82	5.633	5.633	(0.921)	1016262	30.0000	30.56
	36 2-Nitrophenol	139	5.723	5.723	(0.936)	266463	30.0000	32.17
	38 2,4-Dimethylphenol	107	5.751	5.751	(0.941)	421700	30.0000	31.48
	39 Benzoic acid	105	5.874	5.874	(0.961)	265669	30.0000	30.04(M)
	40 bis(2-Chloroethoxy)methane	93	5.853	5.853	(0.957)	623397	30.0000	31.16
	43 2,4-Dichlorophenol	162	5.963	5.963	(0.975)	347064	30.0000	31.36
	46 1,2,4-Trichlorobenzene	180	6.066	6.066	(0.992)	358515	30.0000	30.36
	47 Naphthalene	128	6.135	6.135	(1.003)	1078056	30.0000	30.70
	48 4-Chloroaniline	127	6.224	6.224	(1.018)	427925	30.0000	29.79
	49 Hexachlorobutadiene	225	6.354	6.354	(1.039)	180165	30.0000	30.16
	50 4-Chloro-3-methylphenol	107	6.877	6.877	(1.125)	345748	30.0000	31.29
	51 2-Methylnaphthalene	141	7.063	7.063	(1.155)	626848	30.0000	31.06
	53 Acetophenone	105	5.263	5.263	(1.071)	586107	30.0000	30.79
	64 Caprolactam	113	6.663	6.663	(1.090)	118291	30.0000	29.38
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	737007	40.0000	
	66 Hexachlorocyclopentadiene	237	7.433	7.433	(0.824)	130469	30.0000	29.62
	67 2,4,6-Trichlorophenol	196	7.577	7.577	(0.840)	212577	30.0000	30.75
	68 2,4,5-Trichlorophenol	196	7.639	7.639	(0.847)	226025	30.0000	31.56
	69 2-Chloronaphthalene	162	7.879	7.879	(0.874)	637892	30.0000	30.63
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	708455	30.0000	30.21
	71 2-Nitroaniline	65	8.154	8.154	(0.904)	256425	30.0000	31.62
	72 Dimethylphthalate	163	8.619	8.619	(0.956)	806666	30.0000	30.90
	73 Acenaphthylene	152	8.688	8.688	(0.963)	941664	30.0000	30.39
	74 2,6-Dinitrotoluene	165	8.736	8.736	(0.969)	171322	30.0000	29.95
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	192089	30.0000	30.23
	76 Acenaphthene	153	9.088	9.088	(1.008)	650998	30.0000	30.60
	77 2,4-Dinitrophenol	184	9.239	9.239	(1.024)	74027	30.0000	27.72(a)
	79 4-Nitrophenol	65	9.450	9.450	(1.048)	127528	30.0000	29.09
	80 Dibenzofuran	168	9.443	9.443	(1.047)	886023	30.0000	30.06
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	230417	30.0000	31.81
	82 Diethylphthalate	149	10.264	10.264	(1.138)	753378	30.0000	30.12
	83 4-Chlorophenyl-phenylether	204	10.312	10.312	(1.143)	297385	30.0000	30.60
	84 Fluorene	166	10.243	10.243	(1.136)	706258	30.0000	31.04
	85 4-Nitroaniline	138	10.456	10.456	(1.159)	159190	30.0000	29.20
	96 1,1'-Biphenyl	154	7.873	7.873	(0.873)	814600	30.0000	31.14
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	946325	40.0000	
	99 1,2-Diphenylhydrazine	77	10.689	10.689	(0.847)	964200	30.0000	30.31
	100 Carbazole	167	13.322	13.322	(1.056)	769275	30.0000	29.58
	101 4,6-Dinitro-2-methylphenol	198	10.558	10.558	(0.837)	107256	30.0000	29.81

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Report Date: 20-Apr-2006 14:25

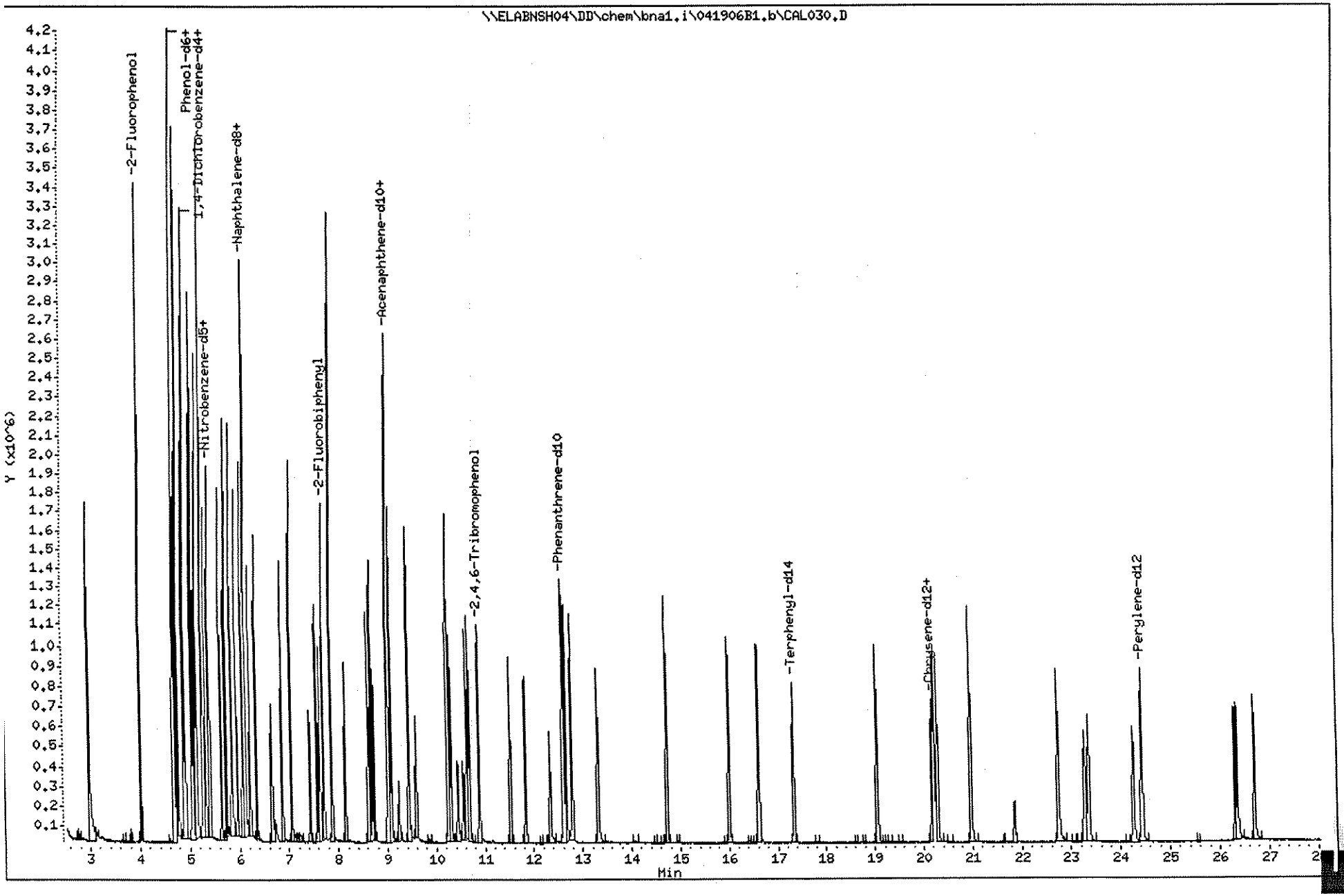
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.634	10.634	(0.843)	455975	30.0000	30.72
$	103 2,4,6-Tribromophenol	330	10.888	10.888	(0.863)	229258	60.0000	65.67
	104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	195029	30.0000	30.29
	105 Hexachlorobenzene	284	11.838	11.838	(0.938)	218133	30.0000	30.77
	106 Pentachlorophenol	266	12.342	12.342	(0.978)	136628	30.0000	30.39
	107 Phenanthrene	178	12.680	12.680	(1.005)	820157	30.0000	30.40
	108 Anthracene	178	12.797	12.797	(1.014)	804478	30.0000	30.20
	110 Di-n-butylphthalate	149	14.736	14.736	(1.168)	1363073	30.0000	31.03
	111 Fluoranthene	202	16.014	16.014	(1.269)	808227	30.0000	30.26
*	127 Chrysene-d12	240	20.232	20.232	(1.000)	698711	40.0000	
	129 Pyrene	202	16.618	16.618	(0.821)	838844	30.0000	30.06
$	130 Terphenyl-d14	244	17.334	17.334	(0.857)	526790	30.0000	29.86
	131 Butylbenzylphthalate	149	19.055	19.055	(0.942)	528531	30.0000	30.46
	133 Benzo(a)anthracene	228	20.184	20.184	(0.998)	674804	30.0000	29.97
	134 Chrysene	228	20.301	20.301	(1.003)	620147	30.0000	30.16
	135 Bis(2-ethylhexyl)phthalate	149	20.975	20.975	(1.037)	719235	30.0000	31.75
*	149 Perylene-d12	264	24.448	24.448	(1.000)	650081	40.0000	
	150 Di-n-octylphthalate	149	22.746	22.746	(0.930)	1089806	30.0000	30.16
	151 Benzo(b)fluoranthene	252	23.287	23.287	(0.953)	619083	30.0000	30.92
	152 Benzo(k)fluoranthene	252	23.369	23.369	(0.956)	625224	30.0000	30.09
	153 Benzo(a)pyrene	252	24.277	24.277	(0.993)	535702	30.0000	31.02
	154 Indeno(1,2,3-cd)pyrene	276	26.320	26.320	(1.077)	424860	30.0000	28.84
	155 Dibenz(a,h)anthracene	278	26.375	26.375	(1.079)	431599	30.0000	29.10
	156 Benzo(g,h,i)perylene	276	26.717	26.717	(1.093)	505330	30.0000	33.05

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL030.D
Date : 19-APR-2006 18:53
Client ID: CAL030PPM
Instrument: bna1.i
Sample Info: CAL030PPM;;;;;SV3350-6
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000310



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Lab Smp Id: CAL040PPM Client Smp ID: CAL040PPM
Inj Date : 19-APR-2006 19:29
Operator : ADM Inst ID: bna1.i
Smp Info : CAL040PPM;;;;;SV3350-7
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MMC

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.911	4.911	(1.000)	416144	40.0000	
$	2 2-Fluorophenol	112	4.007	4.007	(0.816)	1131144	80.0000	78.47
$	3 Phenol-d6	99	4.678	4.678	(0.953)	1345512	80.0000	78.09
	4 Pyridine	79	2.970	2.970	(0.605)	695183	40.0000	37.45(M)
	5 N-Nitroso-di-methylamine	42	2.970	2.970	(0.605)	402275	40.0000	41.78
	6 Aniline	93	4.699	4.699	(0.957)	497578	40.0000	40.71
	8 Phenol	94	4.685	4.685	(0.954)	803609	40.0000	40.78
	9 bis(2-Chloroethyl)ether	93	4.740	4.740	(0.965)	688737	40.0000	39.90
	10 2-Chlorophenol	128	4.781	4.781	(0.973)	544377	40.0000	39.76
	11 1,3-Dichlorobenzene	146	4.884	4.884	(0.994)	624141	40.0000	40.19
	12 1,4-Dichlorobenzene	146	4.925	4.925	(1.003)	598793	40.0000	40.66
	13 Benzyl alcohol	108	5.041	5.041	(1.026)	400526	40.0000	42.75
	14 1,2-Dichlorobenzene	146	5.075	5.075	(1.033)	565444	40.0000	41.08
	15 2-Methylphenol	108	5.137	5.137	(1.046)	518506	40.0000	40.59

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.158	5.158	(1.050)	1339018	40.0000	39.96
	17 3-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	18 4-Methylphenol	108	5.253	5.253	(1.070)	498721	40.0000	41.32(H)
	19 N-Nitroso-di-n-propylamine	70	5.288	5.288	(1.077)	479316	40.0000	40.16
	20 Hexachloroethane	117	5.336	5.336	(1.086)	265277	40.0000	40.46
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1245095	40.0000	
$	32 Nitrobenzene-d5	82	5.398	5.398	(0.883)	589998	40.0000	43.41
	33 Nitrobenzene	77	5.418	5.418	(0.887)	591594	40.0000	42.99
	35 Isophorone	82	5.638	5.638	(0.923)	1207688	40.0000	41.20
	36 2-Nitrophenol	139	5.720	5.720	(0.936)	344956	40.0000	47.25
	38 2,4-Dimethylphenol	107	5.754	5.754	(0.942)	482772	40.0000	40.88
	39 Benzoic acid	105	5.884	5.884	(0.963)	349002	40.0000	43.24(M)
	40 bis(2-Chloroethoxy)methane	93	5.857	5.857	(0.958)	719625	40.0000	40.81
	43 2,4-Dichlorophenol	162	5.967	5.967	(0.976)	409374	40.0000	41.97
	46 1,2,4-Trichlorobenzene	180	6.063	6.063	(0.992)	434342	40.0000	41.74
	47 Naphthalene	128	6.139	6.139	(1.004)	1299869	40.0000	41.99
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	517261	40.0000	40.85
	49 Hexachlorobutadiene	225	6.352	6.352	(1.039)	218690	40.0000	41.54
	50 4-Chloro-3-methylphenol	107	6.879	6.879	(1.126)	416049	40.0000	42.72
	51 2-Methylnaphthalene	141	7.064	7.064	(1.156)	771360	40.0000	43.36
	53 Acetophenone	105	5.267	5.267	(1.072)	667599	40.0000	39.14
	64 Caprolactam	113	6.667	6.667	(1.091)	145150	40.0000	40.90
*	65 Acenaphthene-d10	164	9.019	9.019	(1.000)	664636	40.0000	
	66 Hexachlorocyclopentadiene	237	7.435	7.435	(0.824)	154155	40.0000	38.82
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.840)	262550	40.0000	42.11
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.847)	272749	40.0000	42.23
	69 2-Chloronaphthalene	162	7.875	7.875	(0.873)	743993	40.0000	39.62
$	70 2-Fluorobiphenyl	172	7.724	7.724	(0.856)	858727	40.0000	40.60
	71 2-Nitroaniline	65	8.156	8.156	(0.904)	315501	40.0000	43.14
	72 Dimethylphthalate	163	8.622	8.622	(0.956)	958109	40.0000	40.70
	73 Acenaphthylene	152	8.691	8.691	(0.964)	1130377	40.0000	40.45
	74 2,6-Dinitrotoluene	165	8.739	8.739	(0.969)	217178	40.0000	42.10
	75 3-Nitroaniline	138	9.019	9.019	(1.000)	243351	40.0000	42.47
	76 Acenaphthene	153	9.088	9.088	(1.008)	775519	40.0000	40.43
	77 2,4-Dinitrophenol	184	9.238	9.238	(1.024)	102868	40.0000	41.01(a)
	79 4-Nitrophenol	65	9.457	9.457	(1.049)	171301	40.0000	43.34
	80 Dibenzofuran	168	9.443	9.443	(1.047)	1083574	40.0000	40.76
	81 2,4-Dinitrotoluene	165	9.601	9.601	(1.065)	274029	40.0000	41.96
	82 Diethylphthalate	149	10.267	10.267	(1.138)	898163	40.0000	39.82
	83 4-Chlorophenyl-phenylether	204	10.309	10.309	(1.143)	351190	40.0000	40.07
	84 Fluorene	166	10.240	10.240	(1.135)	834875	40.0000	40.69
	85 4-Nitroaniline	138	10.459	10.459	(1.160)	214239	40.0000	43.58
	96 1,1'-Biphenyl	154	7.875	7.875	(0.873)	946749	40.0000	40.13
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	864701	40.0000	
	99 1,2-Diphenylhydrazine	77	10.693	10.693	(0.847)	1158233	40.0000	39.85
	100 Carbazole	167	13.323	13.323	(1.056)	976062	40.0000	41.07
	101 4,6-Dinitro-2-methylphenol	198	10.562	10.562	(0.837)	134713	40.0000	39.91

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Report Date: 20-Apr-2006 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102 N-Nitrosodiphenylamine	169	10.638	10.638	(0.843)	531630	40.0000	39.19
$ 103 2,4,6-Tribromophenol	330	10.892	10.892	(0.863)	269677	80.0000	84.54
104 4-Bromophenyl-phenylether	248	11.526	11.526	(0.913)	234101	40.0000	39.79
105 Hexachlorobenzene	284	11.838	11.838	(0.938)	256776	40.0000	39.64
106 Pentachlorophenol	266	12.344	12.344	(0.978)	167421	40.0000	40.76
107 Phenanthrene	178	12.680	12.680	(1.005)	1004785	40.0000	40.75
108 Anthracene	178	12.797	12.797	(1.014)	972588	40.0000	39.96
110 Di-n-butylphthalate	149	14.740	14.740	(1.168)	1632749	40.0000	40.67
111 Fluoranthene	202	16.015	16.015	(1.269)	992534	40.0000	40.66
* 127 Chrysene-d12	240	20.229	20.229	(1.000)	649905	40.0000	
129 Pyrene	202	16.623	16.623	(0.822)	1032872	40.0000	39.79
$ 130 Terphenyl-d14	244	17.333	17.333	(0.857)	656143	40.0000	39.98
131 Butylbenzylphthalate	149	19.061	19.061	(0.942)	663983	40.0000	41.14
133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	846472	40.0000	40.42
134 Chrysene	228	20.305	20.305	(1.004)	783477	40.0000	40.96
135 Bis(2-ethylhexyl)phthalate	149	20.978	20.978	(1.037)	890148	40.0000	42.25
* 149 Perylene-d12	264	24.444	24.444	(1.000)	607758	40.0000	
150 Di-n-octylphthalate	149	22.742	22.742	(0.930)	1414627	40.0000	41.87
151 Benzo(b)fluoranthene	252	23.286	23.286	(0.953)	781022	40.0000	41.72
152 Benzo(k)fluoranthene	252	23.368	23.368	(0.956)	796060	40.0000	40.98
153 Benzo(a)pyrene	252	24.278	24.278	(0.993)	688181	40.0000	42.63
154 Indeno(1,2,3-cd)pyrene	276	26.322	26.322	(1.077)	537683	40.0000	39.04
155 Dibenz(a,h)anthracene	278	26.370	26.370	(1.079)	541386	40.0000	39.04
156 Benzo(g,h,i)perylene	276	26.721	26.721	(1.093)	589362	40.0000	41.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL040.D
Date : 19-APR-2006 19:29
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Instrument: bna1.i
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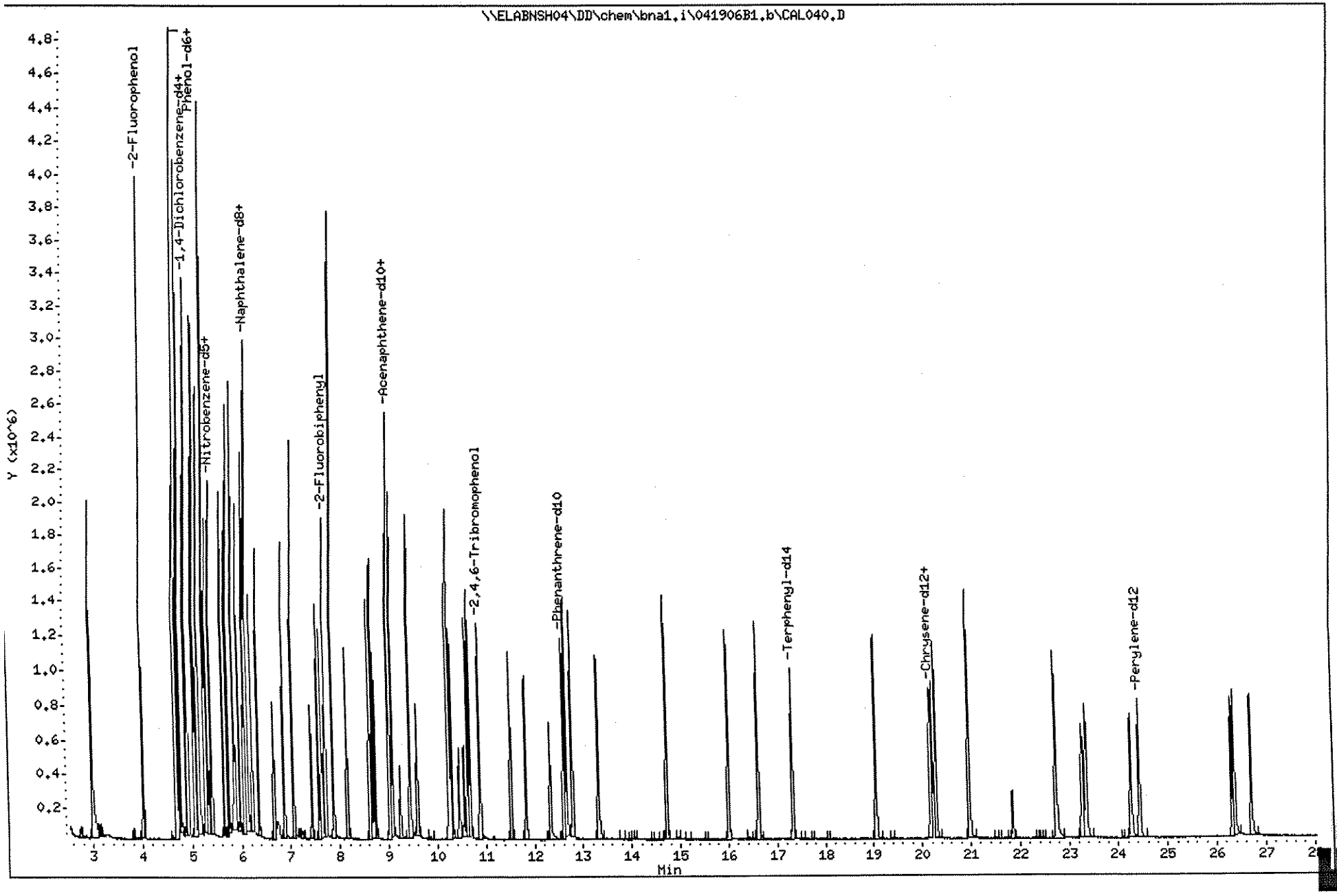
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000314



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
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Inj Date : 19-APR-2006 20:05
Operator : ADM Inst ID: bna1.i
Smp Info : CAL050PPM;;;;;SV3350-8
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH 5/5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	426841	40.0000	
$	2 2-Fluorophenol	112	4.006	4.006	(0.816)	1394783	100.000	94.34
$	3 Phenol-d6	99	4.676	4.676	(0.953)	1610208	100.000	91.11
	4 Pyridine	79	2.964	2.964	(0.604)	943706	50.0000	49.56
	5 N-Nitroso-di-methylamine	42	2.971	2.971	(0.605)	465853	50.0000	47.18
	6 Aniline	93	4.703	4.703	(0.958)	1013897	50.0000	114.4(A)
	8 Phenol	94	4.690	4.690	(0.955)	971534	50.0000	48.07
	9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	821295	50.0000	46.38
	10 2-Chlorophenol	128	4.778	4.778	(0.973)	710847	50.0000	50.62
	11 1,3-Dichlorobenzene	146	4.882	4.882	(0.994)	744061	50.0000	46.71
	12 1,4-Dichlorobenzene	146	4.922	4.922	(1.003)	723387	50.0000	47.88
	13 Benzyl alcohol	108	5.038	5.038	(1.026)	471992	50.0000	49.11
	14 1,2-Dichlorobenzene	146	5.073	5.073	(1.033)	661473	50.0000	46.86
	15 2-Methylphenol	108	5.135	5.135	(1.046)	630476	50.0000	48.12

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.162	5.162	(1.052)	1578511	50.0000	45.92
	17 3-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	18 4-Methylphenol	108	5.258	5.258	(1.071)	593791	50.0000	47.96(H)
	19 N-Nitroso-di-n-propylamine	70	5.286	5.286	(1.077)	586957	50.0000	47.94
	20 Hexachloroethane	117	5.334	5.334	(1.087)	323168	50.0000	48.05
*	31 Naphthalene-d8	136	6.117	6.117	(1.000)	1389508	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	723668	50.0000	47.71
	33 Nitrobenzene	77	5.416	5.416	(0.885)	699190	50.0000	45.53
	35 Isophorone	82	5.642	5.642	(0.922)	1461773	50.0000	44.68
	36 2-Nitrophenol	139	5.718	5.718	(0.935)	405832	50.0000	49.81
	38 2,4-Dimethylphenol	107	5.752	5.752	(0.940)	626896	50.0000	47.57
	39 Benzoic acid	105	5.903	5.903	(0.965)	448357	50.0000	48.97(M)
	40 bis(2-Chloroethoxy)methane	93	5.855	5.855	(0.957)	870457	50.0000	44.23
	43 2,4-Dichlorophenol	162	5.965	5.965	(0.975)	506423	50.0000	46.52
	46 1,2,4-Trichlorobenzene	180	6.061	6.061	(0.991)	517334	50.0000	44.54
	47 Naphthalene	128	6.137	6.137	(1.003)	1531061	50.0000	44.32
	48 4-Chloroaniline	127	6.227	6.227	(1.018)	720936	50.0000	51.02
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	268626	50.0000	45.72
	50 4-Chloro-3-methylphenol	107	6.885	6.885	(1.126)	514534	50.0000	47.34
	51 2-Methylnaphthalene	141	7.069	7.069	(1.156)	881205	50.0000	44.39
	53 Acetophenone	105	5.265	5.265	(1.073)	790123	50.0000	45.17
	64 Caprolactam	113	6.680	6.680	(1.092)	181604	50.0000	45.86
*	65 Acenaphthene-d10	164	9.022	9.022	(1.000)	677103	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	206574	50.0000	51.06
	67 2,4,6-Trichlorophenol	196	7.576	7.576	(0.840)	317582	50.0000	50.00
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.847)	334236	50.0000	50.80
	69 2-Chloronaphthalene	162	7.879	7.879	(0.873)	907587	50.0000	47.44
$	70 2-Fluorobiphenyl	172	7.721	7.721	(0.856)	1036824	50.0000	48.12
	71 2-Nitroaniline	65	8.161	8.161	(0.905)	390061	50.0000	52.36
	72 Dimethylphthalate	163	8.628	8.628	(0.956)	1160123	50.0000	48.38
	73 Acenaphthylene	152	8.690	8.690	(0.963)	1352274	50.0000	47.50
	74 2,6-Dinitrotoluene	165	8.745	8.745	(0.969)	276761	50.0000	52.66
	75 3-Nitroaniline	138	9.029	9.029	(1.001)	299073	50.0000	51.23
	76 Acenaphthene	153	9.090	9.090	(1.008)	945069	50.0000	48.36
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.025)	146562	50.0000	54.64
	79 4-Nitrophenol	65	9.460	9.460	(1.049)	209395	50.0000	52.00
	80 Dibenzofuran	168	9.447	9.447	(1.047)	1308607	50.0000	48.32
	81 2,4-Dinitrotoluene	165	9.605	9.605	(1.065)	347886	50.0000	52.28
	82 Diethylphthalate	149	10.266	10.266	(1.138)	1085993	50.0000	47.26
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.143)	439071	50.0000	49.18
	84 Fluorene	166	10.245	10.245	(1.136)	1034771	50.0000	49.51
	85 4-Nitroaniline	138	10.465	10.465	(1.160)	266944	50.0000	53.30
	96 1,1'-Biphenyl	154	7.879	7.879	(0.873)	1131842	50.0000	47.09
*	98 Phenanthrene-d10	188	12.618	12.618	(1.000)	895080	40.0000	
	99 1,2-Diphenylhydrazine	77	10.699	10.699	(0.848)	1400421	50.0000	46.55
	100 Carbazole	167	13.332	13.332	(1.057)	1184038	50.0000	48.14
	101 4,6-Dinitro-2-methylphenol	198	10.568	10.568	(0.838)	188363	50.0000	52.06

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.B\CAL050.D
Report Date: 20-Apr-2006 14:25

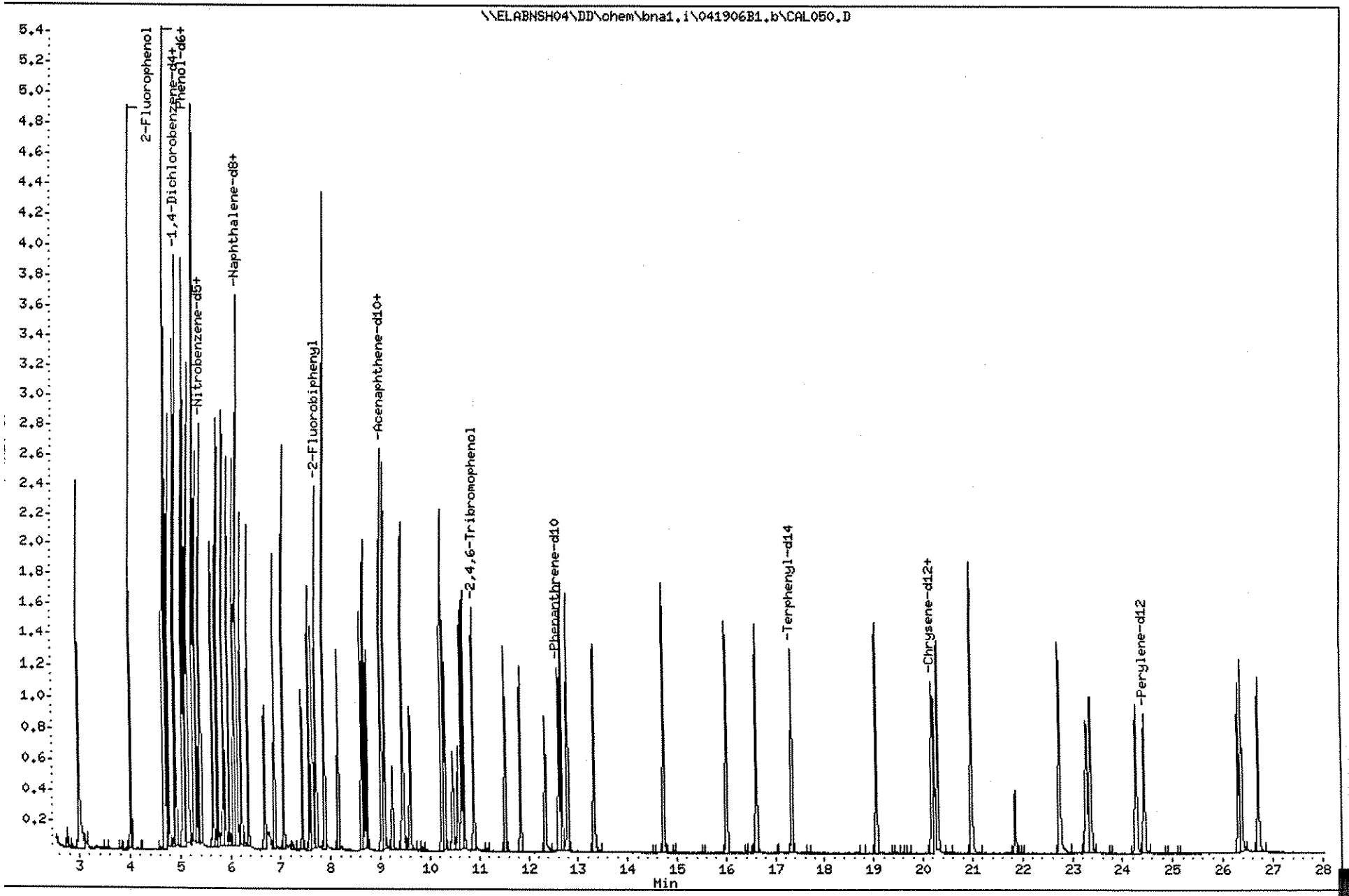
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.644	10.644	(0.844)	663507	50.0000	47.25
$	103 2,4,6-Tribromophenol	330	10.898	10.898	(0.864)	349988	100.000	106.0(A)
	104 4-Bromophenyl-phenylether	248	11.532	11.532	(0.914)	288124	50.0000	47.31
	105 Hexachlorobenzene	284	11.844	11.844	(0.939)	317118	50.0000	47.29
	106 Pentachlorophenol	266	12.351	12.351	(0.979)	211144	50.0000	49.66
	107 Phenanthrene	178	12.681	12.681	(1.005)	1221426	50.0000	47.86
	108 Anthracene	178	12.804	12.804	(1.015)	1235438	50.0000	49.03
	110 Di-n-butylphthalate	149	14.741	14.741	(1.168)	1993207	50.0000	47.97
	111 Fluoranthene	202	16.018	16.018	(1.269)	1257210	50.0000	49.76
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	647428	40.0000	
	129 Pyrene	202	16.628	16.628	(0.822)	1262183	50.0000	48.82
$	130 Terphenyl-d14	244	17.340	17.340	(0.857)	848795	50.0000	51.92
	131 Butylbenzylphthalate	149	19.062	19.062	(0.942)	826767	50.0000	51.42
	133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	1100974	50.0000	52.78
	134 Chrysene	228	20.312	20.312	(1.004)	974329	50.0000	51.14
	135 Bis(2-ethylhexyl)phthalate	149	20.982	20.982	(1.037)	1136949	50.0000	54.17
*	149 Perylene-d12	264	24.443	24.443	(1.000)	688233	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	1736325	50.0000	45.38
	151 Benzo(b)fluoranthene	252	23.293	23.293	(0.953)	1043986	50.0000	49.24
	152 Benzo(k)fluoranthene	252	23.382	23.382	(0.957)	1019570	50.0000	46.35
	153 Benzo(a)pyrene	252	24.285	24.285	(0.994)	932801	50.0000	51.02
	154 Indeno(1,2,3-cd)pyrene	276	26.324	26.324	(1.077)	763675	50.0000	48.96
	155 Dibenz(a,h)anthracene	278	26.380	26.380	(1.079)	731520	50.0000	46.59
	156 Benzo(g,h,i)perylene	276	26.729	26.729	(1.094)	819253	50.0000	50.61

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL050.D
Date : 19-APR-2006 20:05
Client ID: CAL050PPM
Instrument: bna1.i
Sample Info: CAL050PPM;;;;;SV3350-8
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000318



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Lab Smp Id: CAL060PPM Client Smp ID: CAL060PPM
Inj Date : 19-APR-2006 20:41
Operator : ADM Inst ID: bna1.i
Smp Info : CAL060PPM;;;;;SV3350-9
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

4/20/06

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MJM/6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.909	4.909	(1.000)	346547	40.0000	
$	2 2-Fluorophenol	112	4.004	4.004	(0.816)	1393005	120.000	116.0(A)
$	3 Phenol-d6	99	4.676	4.676	(0.953)	1670274	120.000	116.4(A)
	4 Pyridine	79	2.956	2.956	(0.602)	944907	60.0000	61.13
	5 N-Nitroso-di-methylamine	42	2.969	2.969	(0.605)	490843	60.0000	61.22
	6 Aniline	93	4.697	4.697	(0.957)	589493	60.0000	68.21
	8 Phenol	94	4.690	4.690	(0.955)	919741	60.0000	56.05
	9 bis(2-Chloroethyl)ether	93	4.744	4.744	(0.966)	864560	60.0000	60.14
	10 2-Chlorophenol	128	4.779	4.779	(0.973)	659441	60.0000	57.84
	11 1,3-Dichlorobenzene	146	4.881	4.881	(0.994)	772055	60.0000	59.70
	12 1,4-Dichlorobenzene	146	4.923	4.923	(1.003)	716692	60.0000	58.43
	13 Benzyl alcohol	108	5.039	5.039	(1.027)	479538	60.0000	61.46
	14 1,2-Dichlorobenzene	146	5.074	5.074	(1.034)	666044	60.0000	58.11
	15 2-Methylphenol	108	5.135	5.135	(1.046)	628825	60.0000	59.11

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.156	5.156	(1.050)	1610415	60.0000	57.71
	17 3-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	18 4-Methylphenol	108	5.259	5.259	(1.071)	584968	60.0000	58.20(H)
	19 N-Nitroso-di-n-propylamine	70	5.287	5.287	(1.077)	585339	60.0000	58.89
	20 Hexachloroethane	117	5.335	5.335	(1.087)	324975	60.0000	59.52
*	31 Naphthalene-d8	136	6.111	6.111	(1.000)	1067027	40.0000	
$	32 Nitrobenzene-d5	82	5.396	5.396	(0.883)	730272	60.0000	62.70
	33 Nitrobenzene	77	5.417	5.417	(0.886)	724122	60.0000	61.40
	35 Isophorone	82	5.637	5.637	(0.922)	1461141	60.0000	58.16
	36 2-Nitrophenol	139	5.719	5.719	(0.936)	414451	60.0000	66.24
	38 2,4-Dimethylphenol	107	5.753	5.753	(0.942)	573890	60.0000	56.71
	39 Benzoic acid	105	5.904	5.904	(0.966)	463519	60.0000	63.06(M)
	40 bis(2-Chloroethoxy)methane	93	5.856	5.856	(0.958)	883190	60.0000	58.44
	43 2,4-Dichlorophenol	162	5.966	5.966	(0.976)	502273	60.0000	60.08
	46 1,2,4-Trichlorobenzene	180	6.062	6.062	(0.992)	508466	60.0000	57.01
	47 Naphthalene	128	6.138	6.138	(1.004)	1531321	60.0000	57.72
	48 4-Chloroaniline	127	6.228	6.228	(1.019)	626869	60.0000	57.77
	49 Hexachlorobutadiene	225	6.358	6.358	(1.040)	265793	60.0000	58.91
	50 4-Chloro-3-methylphenol	107	6.880	6.880	(1.126)	513775	60.0000	61.56
	51 2-Methylnaphthalene	141	7.065	7.065	(1.156)	897226	60.0000	58.86
	53 Acetophenone	105	5.266	5.266	(1.073)	790617	60.0000	55.67
	64 Caprolactam	113	6.681	6.681	(1.093)	190694	60.0000	62.70
*	65 Acenaphthene-d10	164	9.015	9.015	(1.000)	557024	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.825)	201477	60.0000	60.53
	67 2,4,6-Trichlorophenol	196	7.580	7.580	(0.841)	329890	60.0000	63.14
	68 2,4,5-Trichlorophenol	196	7.642	7.642	(0.848)	334706	60.0000	61.83
	69 2-Chloronaphthalene	162	7.882	7.882	(0.874)	894517	60.0000	56.84
$	70 2-Fluorobiphenyl	172	7.725	7.725	(0.857)	1004156	60.0000	56.65
	71 2-Nitroaniline	65	8.157	8.157	(0.905)	395529	60.0000	64.54
	72 Dimethylphthalate	163	8.624	8.624	(0.957)	1170259	60.0000	59.32
	73 Acenaphthylene	152	8.686	8.686	(0.963)	1365262	60.0000	58.29
	74 2,6-Dinitrotoluene	165	8.741	8.741	(0.970)	276121	60.0000	63.86
	75 3-Nitroaniline	138	9.029	9.029	(1.002)	314116	60.0000	65.41
	76 Acenaphthene	153	9.091	9.091	(1.008)	939345	60.0000	58.43
	77 2,4-Dinitrophenol	184	9.248	9.248	(1.026)	147077	60.0000	64.10
	79 4-Nitrophenol	65	9.468	9.468	(1.050)	222415	60.0000	67.14
	80 Dibenzofuran	168	9.448	9.448	(1.048)	1331507	60.0000	59.77
	81 2,4-Dinitrotoluene	165	9.606	9.606	(1.065)	356478	60.0000	65.12
	82 Diethylphthalate	149	10.271	10.271	(1.139)	1074515	60.0000	56.85
	83 4-Chlorophenyl-phenylether	204	10.313	10.313	(1.144)	436159	60.0000	59.38
	84 Fluorene	166	10.244	10.244	(1.136)	1029059	60.0000	59.85
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	285115	60.0000	69.20
	96 1,1'-Biphenyl	154	7.875	7.875	(0.874)	1114873	60.0000	56.38
*	98 Phenanthrene-d10	188	12.619	12.619	(1.000)	753681	40.0000	
	99 1,2-Diphenylhydrazine	77	10.697	10.697	(0.848)	1423240	60.0000	56.18
	100 Carbazole	167	13.332	13.332	(1.056)	1236436	60.0000	59.70
	101 4,6-Dinitro-2-methylphenol	198	10.573	10.573	(0.838)	191799	60.0000	61.16

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.642	10.642	(0.843)	684957	60.0000	57.93
$	103 2,4,6-Tribromophenol	330	10.896	10.896	(0.863)	345236	120.000	124.2(A)
	104 4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	294644	60.0000	57.45
	105 Hexachlorobenzene	284	11.841	11.841	(0.938)	319630	60.0000	56.61
	106 Pentachlorophenol	266	12.343	12.343	(0.978)	215024	60.0000	60.06
	107 Phenanthrene	178	12.681	12.681	(1.005)	1254669	60.0000	58.39
	108 Anthracene	178	12.805	12.805	(1.015)	1238697	60.0000	58.39
	110 Di-n-butylphthalate	149	14.742	14.742	(1.168)	2011711	60.0000	57.49
	111 Fluoranthene	202	16.023	16.023	(1.270)	1297131	60.0000	60.97
*	127 Chrysene-d12	240	20.232	20.232	(1.000)	576436	40.0000	
	129 Pyrene	202	16.632	16.632	(0.822)	1283874	60.0000	55.77
$	130 Terphenyl-d14	244	17.335	17.335	(0.857)	842167	60.0000	57.86
	131 Butylbenzylphthalate	149	19.063	19.063	(0.942)	874398	60.0000	61.08
	133 Benzo(a)anthracene	228	20.191	20.191	(0.998)	1111140	60.0000	59.83
	134 Chrysene	228	20.308	20.308	(1.004)	1030757	60.0000	60.76
	135 Bis(2-ethylhexyl)phthalate	149	20.980	20.980	(1.037)	1135176	60.0000	60.75
*	149 Perylene-d12	264	24.442	24.442	(1.000)	554238	40.0000	
	150 Di-n-octylphthalate	149	22.749	22.749	(0.931)	1815279	60.0000	58.92
	151 Benzo(b)fluoranthene	252	23.295	23.295	(0.953)	1023868	60.0000	59.97
	152 Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1073440	60.0000	60.60
	153 Benzo(a)pyrene	252	24.283	24.283	(0.993)	922340	60.0000	62.65
	154 Indeno(1,2,3-cd)pyrene	276	26.326	26.326	(1.077)	797190	60.0000	63.47
	155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	776403	60.0000	61.40
	156 Benzo(g,h,i)perylene	276	26.726	26.726	(1.093)	849219	60.0000	65.15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL060.D
Date : 19-APR-2006 20:41
Client ID: CAL060PPM
Instrument: bna1.i
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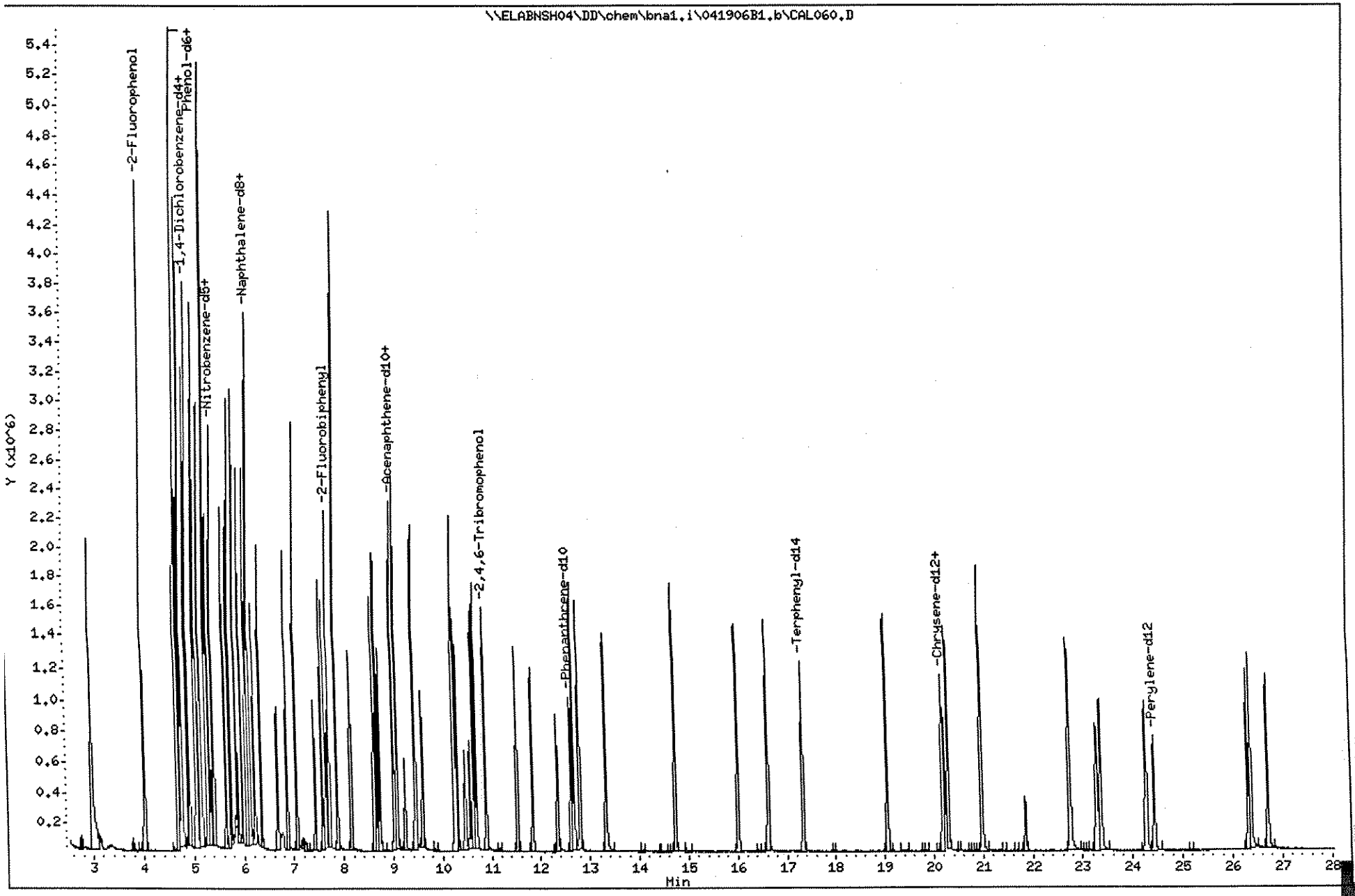
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000322



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
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Inj Date : 19-APR-2006 21:17
Operator : ADM Inst ID: bna1.i
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Misc Info : ;;;;;ppbna1.sub;3549
Comment :
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Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mu1n1c

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.915	4.915	(1.000)	356087	40.0000	
$	2 2-Fluorophenol	112	4.005	4.005	(0.815)	1726249	140.000	140.0(A)
$	3 Phenol-d6	99	4.681	4.681	(0.953)	1955298	140.000	132.6(A)
	4 Pyridine	79	2.968	2.968	(0.604)	1140339	70.0000	71.79
	5 N-Nitroso-di-methylamine	42	2.974	2.974	(0.605)	564112	70.0000	68.48
	6 Aniline	93	4.702	4.702	(0.957)	659657	70.0000	77.65
	8 Phenol	94	4.688	4.688	(0.954)	1063294	70.0000	63.06
	9 bis(2-Chloroethyl)ether	93	4.743	4.743	(0.965)	967706	70.0000	65.51
	10 2-Chlorophenol	128	4.784	4.784	(0.973)	777670	70.0000	66.38
	11 1,3-Dichlorobenzene	146	4.887	4.887	(0.994)	913023	70.0000	68.71
	12 1,4-Dichlorobenzene	146	4.929	4.929	(1.003)	852332	70.0000	67.63
	13 Benzyl alcohol	108	5.045	5.045	(1.026)	553670	70.0000	69.06
	14 1,2-Dichlorobenzene	146	5.079	5.079	(1.033)	778386	70.0000	66.10
	15 2-Methylphenol	108	5.140	5.140	(1.046)	730358	70.0000	66.82

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	1873601	70.0000	65.34
	17 3-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.36(H)
	18 4-Methylphenol	108	5.264	5.264	(1.071)	664740	70.0000	64.37(H)
	19 N-Nitroso-di-n-propylamine	70	5.292	5.292	(1.077)	686163	70.0000	67.18
	20 Hexachloroethane	117	5.333	5.333	(1.085)	392042	70.0000	69.88
*	31 Naphthalene-d8	136	6.115	6.115	(1.000)	1106528	40.0000	
$	32 Nitrobenzene-d5	82	5.402	5.402	(0.883)	858803	70.0000	71.10
	33 Nitrobenzene	77	5.422	5.422	(0.887)	840170	70.0000	68.70
	35 Isophorone	82	5.642	5.642	(0.923)	1719973	70.0000	66.02
	36 2-Nitrophenol	139	5.724	5.724	(0.936)	492380	70.0000	75.89
	38 2,4-Dimethylphenol	107	5.758	5.758	(0.942)	682599	70.0000	65.04
	39 Benzoic acid	105	5.909	5.909	(0.966)	517866	70.0000	67.01(M)
	40 bis(2-Chloroethoxy)methane	93	5.861	5.861	(0.958)	1015334	70.0000	64.78
	43 2,4-Dichlorophenol	162	5.971	5.971	(0.976)	584957	70.0000	67.48
	46 1,2,4-Trichlorobenzene	180	6.067	6.067	(0.992)	638907	70.0000	69.08
	47 Naphthalene	128	6.142	6.142	(1.004)	1784366	70.0000	64.86
	48 4-Chloroaniline	127	6.225	6.225	(1.018)	706313	70.0000	62.76
	49 Hexachlorobutadiene	225	6.356	6.356	(1.039)	312907	70.0000	66.88
	50 4-Chloro-3-methylphenol	107	6.884	6.884	(1.126)	608276	70.0000	70.28
	51 2-Methylnaphthalene	141	7.068	7.068	(1.156)	984687	70.0000	62.29
	53 Acetophenone	105	5.271	5.271	(1.072)	904661	70.0000	61.99
	64 Caprolactam	113	6.692	6.692	(1.094)	227965	70.0000	72.28
*	65 Acenaphthene-d10	164	9.018	9.018	(1.000)	570025	40.0000	
	66 Hexachlorocyclopentadiene	237	7.432	7.432	(0.824)	199940	70.0000	58.70
	67 2,4,6-Trichlorophenol	196	7.583	7.583	(0.841)	374761	70.0000	70.09
	68 2,4,5-Trichlorophenol	196	7.645	7.645	(0.848)	387285	70.0000	69.92
	69 2-Chloronaphthalene	162	7.886	7.886	(0.874)	1031414	70.0000	64.04
$	70 2-Fluorobiphenyl	172	7.728	7.728	(0.857)	1208004	70.0000	66.59
	71 2-Nitroaniline	65	8.160	8.160	(0.905)	452096	70.0000	72.08
	72 Dimethylphthalate	163	8.627	8.627	(0.957)	1373041	70.0000	68.01
	73 Acenaphthylene	152	8.689	8.689	(0.964)	1600955	70.0000	66.80
	74 2,6-Dinitrotoluene	165	8.751	8.751	(0.970)	324126	70.0000	73.25
	75 3-Nitroaniline	138	9.032	9.032	(1.002)	324303	70.0000	65.99
	76 Acenaphthene	153	9.094	9.094	(1.008)	1116149	70.0000	67.85
	77 2,4-Dinitrophenol	184	9.252	9.252	(1.026)	162510	70.0000	67.99
	79 4-Nitrophenol	65	9.470	9.470	(1.050)	221749	70.0000	65.41
	80 Dibenzofuran	168	9.450	9.450	(1.048)	1523389	70.0000	66.82
	81 2,4-Dinitrotoluene	165	9.607	9.607	(1.065)	407281	70.0000	72.71
	82 Diethylphthalate	149	10.272	10.272	(1.139)	1297373	70.0000	67.07
	83 4-Chlorophenyl-phenylether	204	10.314	10.314	(1.144)	513049	70.0000	68.26
	84 Fluorene	166	10.251	10.251	(1.137)	1180279	70.0000	67.08
	85 4-Nitroaniline	138	10.471	10.471	(1.161)	265517	70.0000	62.98
	96 1,1'-Biphenyl	154	7.879	7.879	(0.874)	1283268	70.0000	63.42
*	98 Phenanthrene-d10	188	12.616	12.616	(1.000)	694954	40.0000	
	99 1,2-Diphenylhydrazine	77	10.698	10.698	(0.848)	1610960	70.0000	68.97
	100 Carbazole	167	13.330	13.330	(1.057)	1271070	70.0000	66.55
	101 4,6-Dinitro-2-methylphenol	198	10.574	10.574	(0.838)	205794	70.0000	69.18

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Report Date: 20-Apr-2006 14:25

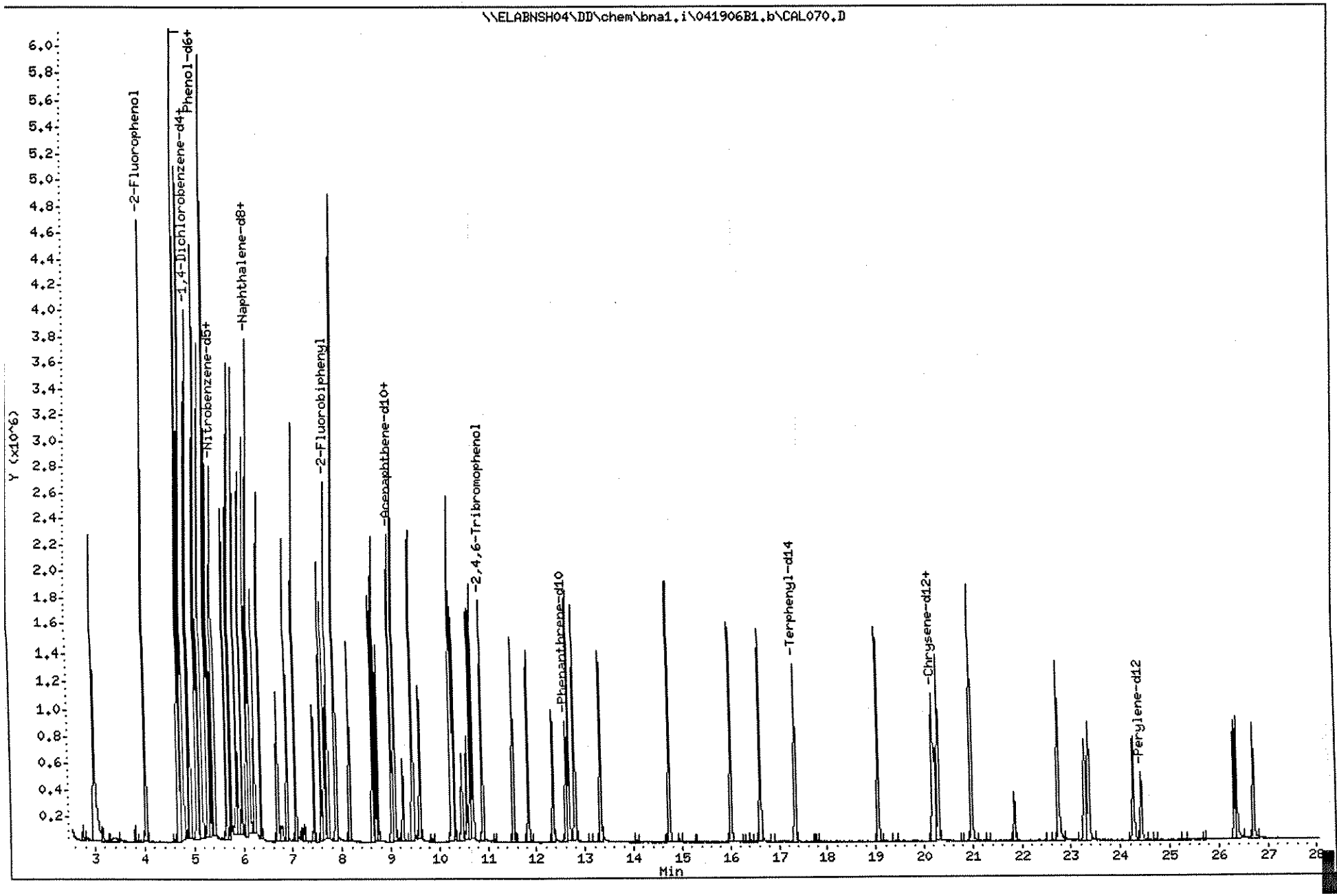
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.649	10.649	(0.844)	761903	70.0000	69.89
$	103 2,4,6-Tribromophenol	330	10.896	10.896	(0.864)	386238	140.000	150.6(A)
	104 4-Bromophenyl-phenylether	248	11.530	11.530	(0.914)	338155	70.0000	71.51
	105 Hexachlorobenzene	284	11.841	11.841	(0.939)	370833	70.0000	71.22
	106 Pentachlorophenol	266	12.348	12.348	(0.979)	242378	70.0000	73.42
	107 Phenanthrene	178	12.685	12.685	(1.005)	1350093	70.0000	68.14
	108 Anthracene	178	12.802	12.802	(1.015)	1301163	70.0000	66.51
	110 Di-n-butylphthalate	149	14.747	14.747	(1.169)	2295255	70.0000	71.14
	111 Fluoranthene	202	16.025	16.025	(1.270)	1344877	70.0000	68.56
*	127 Chrysene-d12	240	20.229	20.229	(1.000)	453976	40.0000	
	129 Pyrene	202	16.632	16.632	(0.822)	1346204	70.0000	74.25
$	130 Terphenyl-d14	244	17.339	17.339	(0.857)	851735	70.0000	74.30
	131 Butylbenzylphthalate	149	19.060	19.060	(0.942)	908313	70.0000	80.56
	133 Benzo(a)anthracene	228	20.188	20.188	(0.998)	1037608	70.0000	70.94
	134 Chrysene	228	20.305	20.305	(1.004)	956853	70.0000	71.62
	135 Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1186218	70.0000	80.60
*	149 Perylene-d12	264	24.439	24.439	(1.000)	367952	40.0000	
	150 Di-n-octylphthalate	149	22.746	22.746	(0.931)	1659995	70.0000	81.16
	151 Benzo(b)fluoranthene	252	23.290	23.290	(0.953)	851399	70.0000	75.12
	152 Benzo(k)fluoranthene	252	23.373	23.373	(0.956)	872371	70.0000	74.18
	153 Benzo(a)pyrene	252	24.280	24.280	(0.993)	730032	70.0000	74.69
	154 Indeno(1,2,3-cd)pyrene	276	26.317	26.317	(1.077)	568920	70.0000	68.22
	155 Dibenz(a,h)anthracene	278	26.372	26.372	(1.079)	565396	70.0000	67.35
	156 Benzo(g,h,i)perylene	276	26.723	26.723	(1.093)	609575	70.0000	70.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL070.D
Date : 19-APR-2006 21:17
Client ID: CAL070PPM
Instrument: bna1.i
Sample Info: CAL070PPM;;;;;SV3350-10
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000326



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Lab Smp Id: CAL080PPM Client Smp ID: CAL080PPM
Inj Date : 19-APR-2006 21:53
Operator : ADM Inst ID: bna1.i
Smp Info : CAL080PPM;;;;;SV3350-11
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 12 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

Mu M Ic

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.916	4.916	(1.000)	395752	40.0000	
$	2 2-Fluorophenol	112	4.009	4.009	(0.816)	2081876	160.000	151.9(A)
$	3 Phenol-d6	99	4.683	4.683	(0.953)	2340308	160.000	142.8(A)
	4 Pyridine	79	2.969	2.969	(0.604)	1426222	80.0000	80.79
	5 N-Nitroso-di-methylamine	42	2.977	2.977	(0.606)	711587	80.0000	77.72
	6 Aniline	93	4.704	4.704	(0.957)	796870	80.0000	88.28
	8 Phenol	94	4.696	4.696	(0.955)	1281093	80.0000	68.36
	9 bis(2-Chloroethyl)ether	93	4.745	4.745	(0.965)	1209383	80.0000	73.66
	10 2-Chlorophenol	128	4.786	4.786	(0.974)	942065	80.0000	72.36
	11 1,3-Dichlorobenzene	146	4.888	4.888	(0.994)	1096078	80.0000	74.22
	12 1,4-Dichlorobenzene	146	4.930	4.930	(1.003)	1022524	80.0000	73.00
	13 Benzyl alcohol	108	5.046	5.046	(1.026)	705637	80.0000	79.19
	14 1,2-Dichlorobenzene	146	5.080	5.080	(1.033)	934784	80.0000	71.42
	15 2-Methylphenol	108	5.142	5.142	(1.046)	946682	80.0000	77.93

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.163	5.163	(1.050)	2261747	80.0000	70.97
	17 3-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.47(H)
	18 4-Methylphenol	108	5.266	5.266	(1.071)	820444	80.0000	71.48(H)
	19 N-Nitroso-di-n-propylamine	70	5.293	5.293	(1.077)	881543	80.0000	77.66
	20 Hexachloroethane	117	5.335	5.335	(1.085)	472769	80.0000	75.82
*	31 Naphthalene-d8	136	6.118	6.118	(1.000)	1203800	40.0000	
$	32 Nitrobenzene-d5	82	5.403	5.403	(0.883)	1080921	80.0000	82.26
	33 Nitrobenzene	77	5.424	5.424	(0.887)	1029846	80.0000	77.40
	35 Isophorone	82	5.643	5.643	(0.922)	2239710	80.0000	79.02
	36 2-Nitrophenol	139	5.726	5.726	(0.936)	621853	80.0000	88.10
	38 2,4-Dimethylphenol	107	5.760	5.760	(0.942)	863479	80.0000	75.63
	39 Benzoic acid	105	5.932	5.932	(0.970)	728367	80.0000	81.74(M)
	40 bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1273696	80.0000	74.70
	43 2,4-Dichlorophenol	162	5.973	5.973	(0.976)	738222	80.0000	78.27
	46 1,2,4-Trichlorobenzene	180	6.070	6.070	(0.992)	766782	80.0000	76.20
	47 Naphthalene	128	6.145	6.145	(1.004)	2178652	80.0000	72.79
	48 4-Chloroaniline	127	6.228	6.228	(1.018)	911216	80.0000	74.43
	49 Hexachlorobutadiene	225	6.359	6.359	(1.039)	382800	80.0000	75.21
	50 4-Chloro-3-methylphenol	107	6.895	6.895	(1.127)	745093	80.0000	79.13
	51 2-Methylnaphthalene	141	7.073	7.073	(1.156)	1278310	80.0000	74.33
	53 Acetophenone	105	5.273	5.273	(1.073)	1098616	80.0000	67.74
	64 Caprolactam	113	6.709	6.709	(1.097)	298993	80.0000	87.15
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	638693	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	265315	80.0000	69.52
	67 2,4,6-Trichlorophenol	196	7.589	7.589	(0.841)	489740	80.0000	81.74
	68 2,4,5-Trichlorophenol	196	7.650	7.650	(0.848)	514213	80.0000	82.85
	69 2-Chloronaphthalene	162	7.891	7.891	(0.875)	1285870	80.0000	71.25
$	70 2-Fluorobiphenyl	172	7.726	7.726	(0.856)	1525820	80.0000	75.07
	71 2-Nitroaniline	65	8.172	8.172	(0.906)	590850	80.0000	84.08
	72 Dimethylphthalate	163	8.639	8.639	(0.957)	1742705	80.0000	77.04
	73 Acenaphthylene	152	8.694	8.694	(0.963)	2000820	80.0000	74.51
	74 2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	428011	80.0000	86.33
	75 3-Nitroaniline	138	9.044	9.044	(1.002)	442346	80.0000	80.33
	76 Acenaphthene	153	9.099	9.099	(1.008)	1388632	80.0000	75.33
	77 2,4-Dinitrophenol	184	9.264	9.264	(1.027)	224478	80.0000	79.07
	79 4-Nitrophenol	65	9.484	9.484	(1.051)	311541	80.0000	82.02
	80 Dibenzofuran	168	9.456	9.456	(1.048)	1908351	80.0000	74.71
	81 2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	538354	80.0000	85.77
	82 Diethylphthalate	149	10.279	10.279	(1.139)	1600023	80.0000	73.82
	83 4-Chlorophenyl-phenylether	204	10.321	10.321	(1.144)	648220	80.0000	76.97
	84 Fluorene	166	10.252	10.252	(1.136)	1482422	80.0000	75.19
	85 4-Nitroaniline	138	10.486	10.486	(1.162)	389539	80.0000	82.46
	96 1,1'-Biphenyl	154	7.884	7.884	(0.874)	1547927	80.0000	68.28
*	98 Phenanthrene-d10	188	12.623	12.623	(1.000)	798658	40.0000	
	99 1,2-Diphenylhydrazine	77	10.706	10.706	(0.848)	2056035	80.0000	76.59
	100 Carbazole	167	13.339	13.339	(1.057)	1678116	80.0000	76.46
	101 4,6-Dinitro-2-methylphenol	198	10.589	10.589	(0.839)	293532	80.0000	81.64

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	980696	80.0000	78.28
$	103 2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	495160	160.000	168.0(A)
	104 4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	422843	80.0000	77.81
	105 Hexachlorobenzene	284	11.852	11.852	(0.939)	470372	80.0000	78.61
	106 Pentachlorophenol	266	12.355	12.355	(0.979)	331611	80.0000	87.40
	107 Phenanthrene	178	12.692	12.692	(1.005)	1760261	80.0000	77.30
	108 Anthracene	178	12.810	12.810	(1.015)	1711507	80.0000	76.13
	110 Di-n-butylphthalate	149	14.749	14.749	(1.168)	2917698	80.0000	78.69
	111 Fluoranthene	202	16.025	16.025	(1.269)	1748791	80.0000	77.57
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	547234	40.0000	
	129 Pyrene	202	16.638	16.638	(0.822)	1777310	80.0000	81.32
$	130 Terphenyl-d14	244	17.341	17.341	(0.857)	1116593	80.0000	80.80
	131 Butylbenzylphthalate	149	19.065	19.065	(0.942)	1162263	80.0000	85.51
	133 Benzo(a)anthracene	228	20.194	20.194	(0.998)	1401014	80.0000	79.46
	134 Chrysene	228	20.319	20.319	(1.004)	1270601	80.0000	78.90
	135 Bis(2-ethylhexyl)phthalate	149	20.984	20.984	(1.037)	1483644	80.0000	83.63
*	149 Perylene-d12	264	24.439	24.439	(1.000)	432695	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	2192931	80.0000	91.17
	151 Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1160679	80.0000	87.08
	152 Benzo(k)fluoranthene	252	23.384	23.384	(0.957)	1179401	80.0000	85.29
	153 Benzo(a)pyrene	252	24.287	24.287	(0.994)	976923	80.0000	85.00
	154 Indeno(1,2,3-cd)pyrene	276	26.327	26.327	(1.077)	794180	80.0000	80.99
	155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	813592	80.0000	82.41
	156 Benzo(g,h,i)perylene	276	26.726	26.726	(1.094)	867281	80.0000	85.23

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL080.D
Date : 19-APR-2006 21:53
Client ID: CAL080PPM
Instrument: bna1.i
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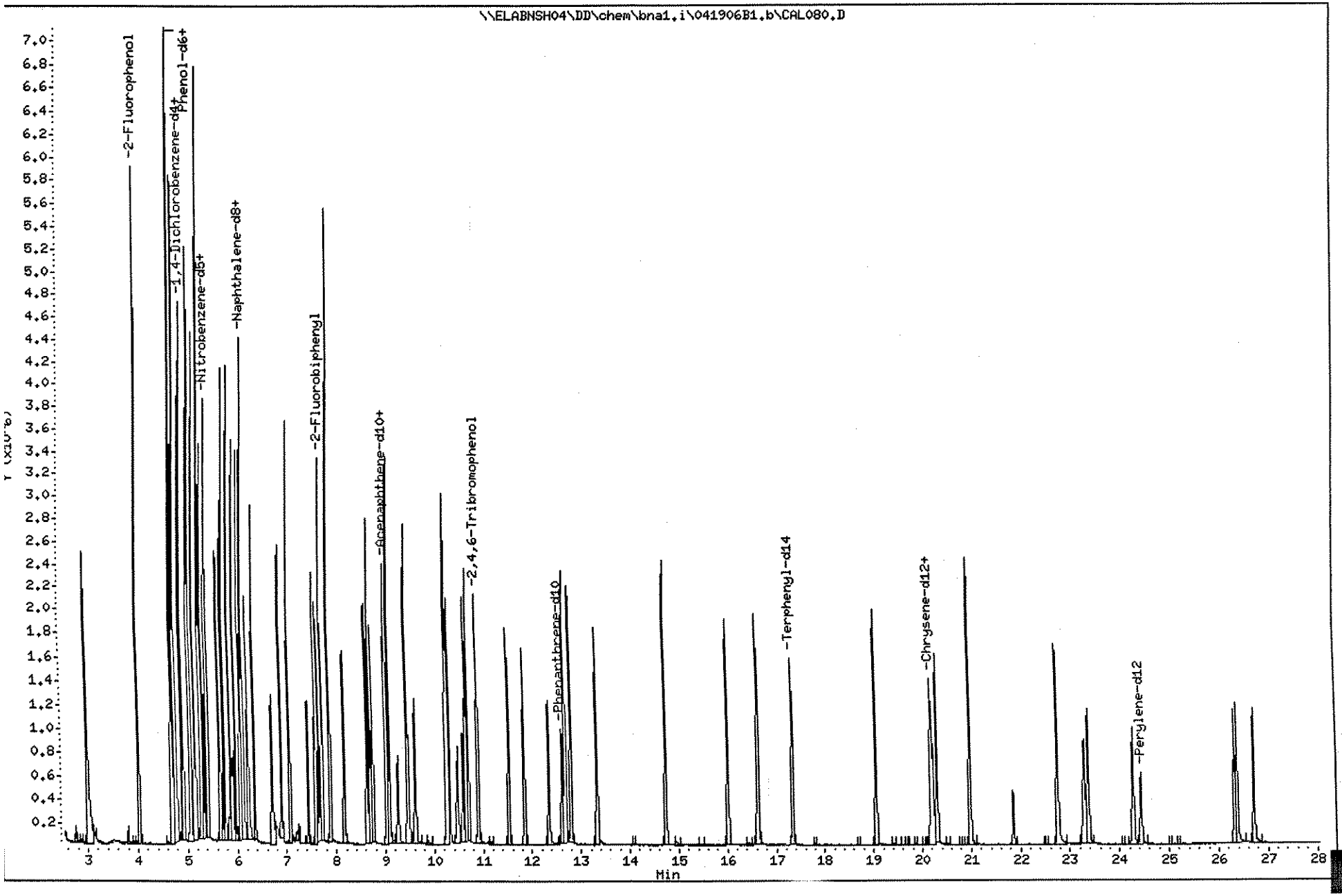
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000330



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
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Inj Date : 19-APR-2006 22:28
Operator : ADM Inst ID: bna1.i
Smp Info : CAL090PPM;;;;;SV3350-12
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 13 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MH/MC

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	4.910	4.910	(1.000)	362602	40.0000	
$ 2 2-Fluorophenol	112	4.009	4.009	(0.817)	2068431	180.000	164.7(A)
$ 3 Phenol-d6	99	4.684	4.684	(0.954)	2343173	180.000	156.1(A)
4 Pyridine	79	2.961	2.961	(0.603)	1480765	90.0000	91.55
5 N-Nitroso-di-methylamine	42	2.968	2.968	(0.605)	724870	90.0000	86.41
6 Aniline	93	4.705	4.705	(0.958)	772474	90.0000	96.38
8 Phenol	94	4.691	4.691	(0.955)	1290924	90.0000	75.19
9 bis(2-Chloroethyl)ether	93	4.746	4.746	(0.967)	1269164	90.0000	84.37
10 2-Chlorophenol	128	4.780	4.780	(0.974)	963655	90.0000	80.78
11 1,3-Dichlorobenzene	146	4.883	4.883	(0.994)	1129431	90.0000	83.47
12 1,4-Dichlorobenzene	146	4.924	4.924	(1.003)	1043033	90.0000	81.28
13 Benzyl alcohol	108	5.041	5.041	(1.027)	741617	90.0000	90.84
14 1,2-Dichlorobenzene	146	5.075	5.075	(1.034)	949483	90.0000	79.17
15 2-Methylphenol	108	5.144	5.144	(1.048)	979037	90.0000	87.96

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.164	5.164	(1.052)	2295270	90.0000	78.61
	17 3-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.19(H)
	18 4-Methylphenol	108	5.267	5.267	(1.073)	832911	90.0000	79.20(H)
	19 N-Nitroso-di-n-propylamine	70	5.294	5.294	(1.078)	902265	90.0000	86.75
	20 Hexachloroethane	117	5.335	5.335	(1.087)	488296	90.0000	85.47
*	31 Naphthalene-d8	136	6.117	6.117	(1.000)	1119140	40.0000	
$	32 Nitrobenzene-d5	82	5.404	5.404	(0.883)	1105555	90.0000	90.49
	33 Nitrobenzene	77	5.425	5.425	(0.887)	1085442	90.0000	87.75
	35 Isophorone	82	5.643	5.643	(0.922)	2323363	90.0000	88.18
	36 2-Nitrophenol	139	5.726	5.726	(0.936)	647312	90.0000	98.64
	38 2,4-Dimethylphenol	107	5.760	5.760	(0.942)	879533	90.0000	82.86
	39 Benzoic acid	105	5.932	5.932	(0.970)	738142	90.0000	86.98(M)
	40 bis(2-Chloroethoxy)methane	93	5.863	5.863	(0.958)	1309663	90.0000	82.62
	43 2,4-Dichlorophenol	162	5.973	5.973	(0.976)	758064	90.0000	86.46
	46 1,2,4-Trichlorobenzene	180	6.069	6.069	(0.992)	776197	90.0000	82.98
	47 Naphthalene	128	6.138	6.138	(1.003)	2223716	90.0000	79.92
	48 4-Chloroaniline	127	6.228	6.228	(1.018)	933486	90.0000	82.02
	49 Hexachlorobutadiene	225	6.359	6.359	(1.039)	402337	90.0000	85.02
	50 4-Chloro-3-methylphenol	107	6.894	6.894	(1.127)	782367	90.0000	89.38
	51 2-Methylnaphthalene	141	7.072	7.072	(1.156)	1316111	90.0000	82.32
	53 Acetophenone	105	5.273	5.273	(1.074)	1135952	90.0000	76.44
	64 Caprolactam	113	6.716	6.716	(1.098)	307219	90.0000	96.32
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	587079	40.0000	
	66 Hexachlorocyclopentadiene	237	7.437	7.437	(0.824)	263921	90.0000	75.23
	67 2,4,6-Trichlorophenol	196	7.587	7.587	(0.841)	502860	90.0000	91.31
	68 2,4,5-Trichlorophenol	196	7.656	7.656	(0.849)	523695	90.0000	91.80
	69 2-Chloronaphthalene	162	7.891	7.891	(0.874)	1298286	90.0000	78.27
$	70 2-Fluorobiphenyl	172	7.725	7.725	(0.856)	1531161	90.0000	81.96
	71 2-Nitroaniline	65	8.172	8.172	(0.906)	598573	90.0000	92.67
	72 Dimethylphthalate	163	8.639	8.639	(0.957)	1790422	90.0000	86.11
	73 Acenaphthylene	152	8.694	8.694	(0.964)	2068463	90.0000	83.80
	74 2,6-Dinitrotoluene	165	8.756	8.756	(0.970)	434041	90.0000	95.25
	75 3-Nitroaniline	138	9.044	9.044	(1.002)	451488	90.0000	89.20
	76 Acenaphthene	153	9.098	9.098	(1.008)	1427523	90.0000	84.25
	77 2,4-Dinitrophenol	184	9.263	9.263	(1.027)	237311	90.0000	86.61
	79 4-Nitrophenol	65	9.483	9.483	(1.051)	322059	90.0000	92.24
	80 Dibenzofuran	168	9.456	9.456	(1.048)	1955300	90.0000	83.28
	81 2,4-Dinitrotoluene	165	9.621	9.621	(1.066)	541533	90.0000	93.86
	82 Diethylphthalate	149	10.280	10.280	(1.139)	1634486	90.0000	82.04
	83 4-Chlorophenyl-phenylether	204	10.322	10.322	(1.144)	657995	90.0000	85.00
	84 Fluorene	166	10.253	10.253	(1.136)	1501597	90.0000	82.86
	85 4-Nitroaniline	138	10.493	10.493	(1.163)	392226	90.0000	90.33
	96 1,1'-Biphenyl	154	7.884	7.884	(0.874)	1575314	90.0000	75.59
*	98 Phenanthrene-d10	188	12.622	12.622	(1.000)	737835	40.0000	
	99 1,2-Diphenylhydrazine	77	10.707	10.707	(0.848)	2094798	90.0000	84.47
	100 Carbazole	167	13.335	13.335	(1.057)	1689423	90.0000	83.32
	101 4,6-Dinitro-2-methylphenol	198	10.590	10.590	(0.839)	301518	90.0000	88.07

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Report Date: 20-Apr-2006 14:25

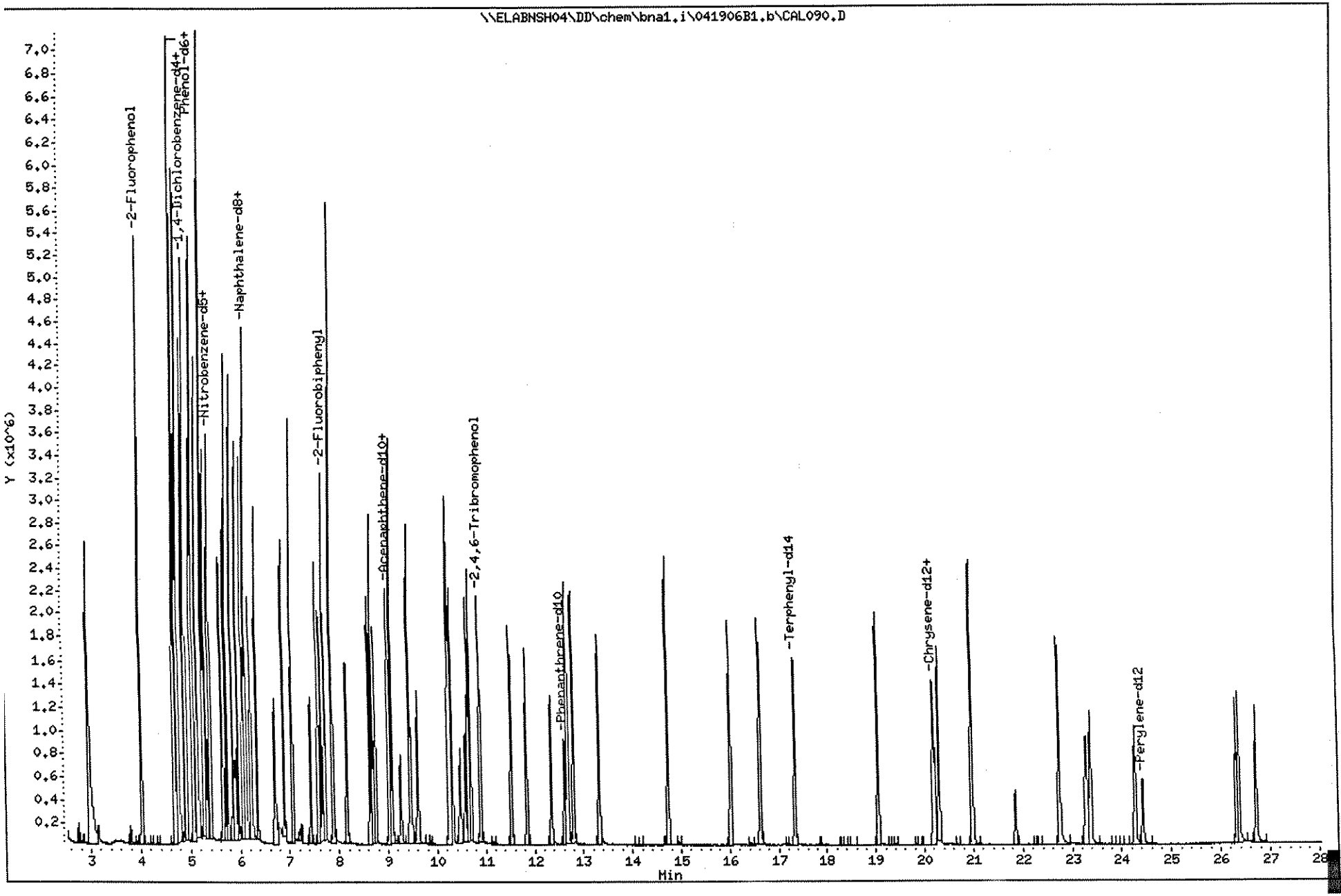
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	102 N-Nitrosodiphenylamine	169	10.658	10.658	(0.844)	988459	90.0000	85.40
$	103 2,4,6-Tribromophenol	330	10.905	10.905	(0.864)	492679	180.000	181.0(A)
	104 4-Bromophenyl-phenylether	248	11.536	11.536	(0.914)	433478	90.0000	86.34
	105 Hexachlorobenzene	284	11.846	11.846	(0.939)	490901	90.0000	88.81
	106 Pentachlorophenol	266	12.354	12.354	(0.979)	330160	90.0000	94.19
	107 Phenanthrene	178	12.691	12.691	(1.005)	1795214	90.0000	85.33
	108 Anthracene	178	12.815	12.815	(1.015)	1746191	90.0000	84.08
	110 Di-n-butylphthalate	149	14.746	14.746	(1.168)	3055200	90.0000	89.19
	111 Fluoranthene	202	16.032	16.032	(1.270)	1782543	90.0000	85.58
*	127 Chrysene-d12	240	20.236	20.236	(1.000)	497031	40.0000	
	129 Pyrene	202	16.637	16.637	(0.822)	1799703	90.0000	90.67
$	130 Terphenyl-d14	244	17.349	17.349	(0.857)	1148902	90.0000	91.54
	131 Butylbenzylphthalate	149	19.065	19.065	(0.942)	1186712	90.0000	96.13
	133 Benzo(a)anthracene	228	20.202	20.202	(0.998)	1409032	90.0000	87.98
	134 Chrysene	228	20.318	20.318	(1.004)	1333323	90.0000	91.16
	135 Bis(2-ethylhexyl)phthalate	149	20.988	20.988	(1.037)	1548288	90.0000	96.09
*	149 Perylene-d12	264	24.442	24.442	(1.000)	405286	40.0000	
	150 Di-n-octylphthalate	149	22.750	22.750	(0.931)	2305162	90.0000	102.3(A)
	151 Benzo(b)fluoranthene	252	23.302	23.302	(0.953)	1208798	90.0000	96.82
	152 Benzo(k)fluoranthene	252	23.385	23.385	(0.957)	1243514	90.0000	96.00
	153 Benzo(a)pyrene	252	24.292	24.292	(0.994)	1037058	90.0000	96.33
	154 Indeno(1,2,3-cd)pyrene	276	26.328	26.328	(1.077)	851481	90.0000	92.70
	155 Dibenz(a,h)anthracene	278	26.382	26.382	(1.079)	869312	90.0000	94.01
	156 Benzo(g,h,i)perylene	276	26.733	26.733	(1.094)	893198	90.0000	93.71

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL090.D
Date : 19-APR-2006 22:28
Client ID: CAL090PPM
Instrument: bna1.i
Sample Info: CAL090PPM;;;;;SV3350-12
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000334



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Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Lab Smp Id: CAL100PPM Client Smp ID: CAL100PPM
Inj Date : 19-APR-2006 23:04
Operator : ADM Inst ID: bna1.i
Smp Info : CAL100PPM;;;;;SV3350-13
Misc Info : ;;;;;ppbna1.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 14 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna1.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

MJ 4/21/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.914	4.914	(1.000)	405811	40.0000	
$	2 2-Fluorophenol	112	4.014	4.014	(0.817)	2416155	200.000	171.9(A)
$	3 Phenol-d6	99	4.687	4.687	(0.954)	2760384	200.000	164.3(A)
	4 Pyridine	79	2.967	2.967	(0.604)	1745541	100.000	96.43
	5 N-Nitroso-di-methylamine	42	2.980	2.980	(0.607)	922574	100.000	98.27
	6 Aniline	93	4.708	4.708	(0.958)	934422	100.000	108.9(A)
	8 Phenol	94	4.702	4.702	(0.957)	1532153	100.000	79.74
	9 bis(2-Chloroethyl)ether	93	4.749	4.749	(0.966)	1555603	100.000	92.40
	10 2-Chlorophenol	128	4.783	4.783	(0.973)	1148806	100.000	86.05
	11 1,3-Dichlorobenzene	146	4.886	4.886	(0.994)	1313595	100.000	86.74
	12 1,4-Dichlorobenzene	146	4.928	4.928	(1.003)	1222693	100.000	85.13
	13 Benzyl alcohol	108	5.051	5.051	(1.028)	923081	100.000	101.0(A)
	14 1,2-Dichlorobenzene	146	5.079	5.079	(1.034)	1073685	100.000	80.00
	15 2-Methylphenol	108	5.147	5.147	(1.048)	1202388	100.000	96.52

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	16 bis(2-Chloroisopropyl)ether	45	5.161	5.161	(1.050)	2710555	100.000	82.94
	17 3-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.11(H)
	18 4-Methylphenol	108	5.271	5.271	(1.073)	990059	100.000	84.12(H)
	19 N-Nitroso-di-n-propylamine	70	5.305	5.305	(1.080)	1126036	100.000	96.74
	20 Hexachloroethane	117	5.333	5.333	(1.085)	573760	100.000	89.74
*	31 Naphthalene-d8	136	6.116	6.116	(1.000)	1277943	40.0000	
$	32 Nitrobenzene-d5	82	5.409	5.409	(0.884)	1416051	100.000	101.5(A)
	33 Nitrobenzene	77	5.429	5.429	(0.888)	1349092	100.000	95.52
	35 Isophorone	82	5.656	5.656	(0.925)	2920935	100.000	97.08
	36 2-Nitrophenol	139	5.725	5.725	(0.936)	801557	100.000	107.0(A)
	38 2,4-Dimethylphenol	107	5.766	5.766	(0.943)	1100618	100.000	90.81
	39 Benzoic acid	105	5.958	5.958	(0.974)	1057702	100.000	100.9(A)
	40 bis(2-Chloroethoxy)methane	93	5.868	5.868	(0.960)	1615752	100.000	89.27
	43 2,4-Dichlorophenol	162	5.979	5.979	(0.978)	942543	100.000	94.14
	46 1,2,4-Trichlorobenzene	180	6.068	6.068	(0.992)	951116	100.000	89.04
	47 Naphthalene	128	6.143	6.143	(1.004)	2662428	100.000	83.79
	48 4-Chloroaniline	127	6.226	6.226	(1.018)	1181026	100.000	90.87(M)
	49 Hexachlorobutadiene	225	6.357	6.357	(1.039)	476029	100.000	88.10
	50 4-Chloro-3-methylphenol	107	6.900	6.900	(1.128)	971006	100.000	97.14
	51 2-Methylnaphthalene	141	7.072	7.072	(1.156)	1634250	100.000	89.51
	53 Acetophenone	105	5.278	5.278	(1.074)	1361350	100.000	81.86
	64 Caprolactam	113	6.736	6.736	(1.101)	382420	100.000	105.0(A)
*	65 Acenaphthene-d10	164	9.023	9.023	(1.000)	684968	40.0000	
	66 Hexachlorocyclopentadiene	237	7.436	7.436	(0.824)	424741	100.000	103.8(A)
	67 2,4,6-Trichlorophenol	196	7.594	7.594	(0.842)	647723	100.000	100.8(A)
	68 2,4,5-Trichlorophenol	196	7.662	7.662	(0.849)	679681	100.000	102.1(A)
	69 2-Chloronaphthalene	162	7.897	7.897	(0.875)	1609689	100.000	83.17
$	70 2-Fluorobiphenyl	172	7.731	7.731	(0.857)	1910349	100.000	87.64
	71 2-Nitroaniline	65	8.178	8.178	(0.906)	828450	100.000	109.9(A)
	72 Dimethylphthalate	163	8.645	8.645	(0.958)	2224891	100.000	91.71
	73 Acenaphthylene	152	8.700	8.700	(0.964)	2569052	100.000	89.20
	74 2,6-Dinitrotoluene	165	8.762	8.762	(0.971)	578158	100.000	108.7(A)
	75 3-Nitroaniline	138	9.058	9.058	(1.004)	664775	100.000	112.6(A)
	76 Acenaphthene	153	9.106	9.106	(1.009)	1767405	100.000	89.40
	77 2,4-Dinitrophenol	184	9.270	9.270	(1.027)	373175	100.000	101.2(A)
	79 4-Nitrophenol	65	9.504	9.504	(1.053)	498418	100.000	122.3(A)
	80 Dibenzofuran	168	9.462	9.462	(1.049)	2532148	100.000	92.44
	81 2,4-Dinitrotoluene	165	9.634	9.634	(1.068)	749880	100.000	111.4(A)
	82 Diethylphthalate	149	10.294	10.294	(1.141)	2030573	100.000	87.36
	83 4-Chlorophenyl-phenylether	204	10.328	10.328	(1.145)	841580	100.000	93.18
	84 Fluorene	166	10.259	10.259	(1.137)	1950834	100.000	92.27
	85 4-Nitroaniline	138	10.513	10.513	(1.165)	640626	100.000	126.4(A)
	96 1,1'-Biphenyl	154	7.890	7.890	(0.874)	1878750	100.000	77.27
*	98 Phenanthrene-d10	188	12.629	12.629	(1.000)	897598	40.0000	
	99 1,2-Diphenylhydrazine	77	10.720	10.720	(0.849)	2922027	100.000	96.86
	100 Carbazole	167	13.352	13.352	(1.057)	2455839	100.000	99.56
	101 4,6-Dinitro-2-methylphenol	198	10.609	10.609	(0.840)	446432	100.000	100.1(A)

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.D\CAL100.D
Report Date: 20-Apr-2006 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
102	N-Nitrosodiphenylamine	169	10.672	10.672	(0.845)	1319581	100.000	93.72
$ 103	2,4,6-Tribromophenol	330	10.920	10.920	(0.865)	657394	200.000	198.5(A)
104	4-Bromophenyl-phenylether	248	11.545	11.545	(0.914)	571547	100.000	93.58
105	Hexachlorobenzene	284	11.854	11.854	(0.939)	621615	100.000	92.44
106	Pentachlorophenol	266	12.361	12.361	(0.979)	474713	100.000	111.3(A)
107	Phenanthrene	178	12.705	12.705	(1.006)	2454608	100.000	95.91
108	Anthracene	178	12.823	12.823	(1.015)	2377225	100.000	94.08
110	Di-n-butylphthalate	149	14.753	14.753	(1.168)	3805527	100.000	91.32
111	Fluoranthene	202	16.042	16.042	(1.270)	2490336	100.000	98.29
* 127	Chrysene-d12	240	20.256	20.256	(1.000)	693596	40.0000	
129	Pyrene	202	16.647	16.647	(0.822)	2514423	100.000	90.77
$ 130	Terphenyl-d14	244	17.355	17.355	(0.857)	1600764	100.000	91.40
131	Butylbenzylphthalate	149	19.072	19.072	(0.942)	1650098	100.000	95.79
133	Benzo(a)anthracene	228	20.214	20.214	(0.998)	2223330	100.000	99.49
134	Chrysene	228	20.338	20.338	(1.004)	2041530	100.000	100.0(A)
135	Bis(2-ethylhexyl)phthalate	149	20.992	20.992	(1.036)	2229718	100.000	99.17
* 149	Perylene-d12	264	24.462	24.462	(1.000)	667141	40.0000	
150	Di-n-octylphthalate	149	22.759	22.759	(0.930)	3720192	100.000	100.3(A)
151	Benzo(b)fluoranthene	252	23.328	23.328	(0.954)	2327837	100.000	113.3(A)
152	Benzo(k)fluoranthene	252	23.425	23.425	(0.958)	2031015	100.000	95.26
153	Benzo(a)pyrene	252	24.317	24.317	(0.994)	1868496	100.000	105.4(A)
154	Indeno(1,2,3-cd)pyrene	276	26.346	26.346	(1.077)	1470143	100.000	97.24
155	Dibenz(a,h)anthracene	278	26.401	26.401	(1.079)	1490218	100.000	97.90
156	Benzo(g,h,i)perylene	276	26.744	26.744	(1.093)	1412666	100.000	90.04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\CAL100.D
Date : 19-APR-2006 23:04
Client ID: CAL100PPM
Instrument: bna1.i
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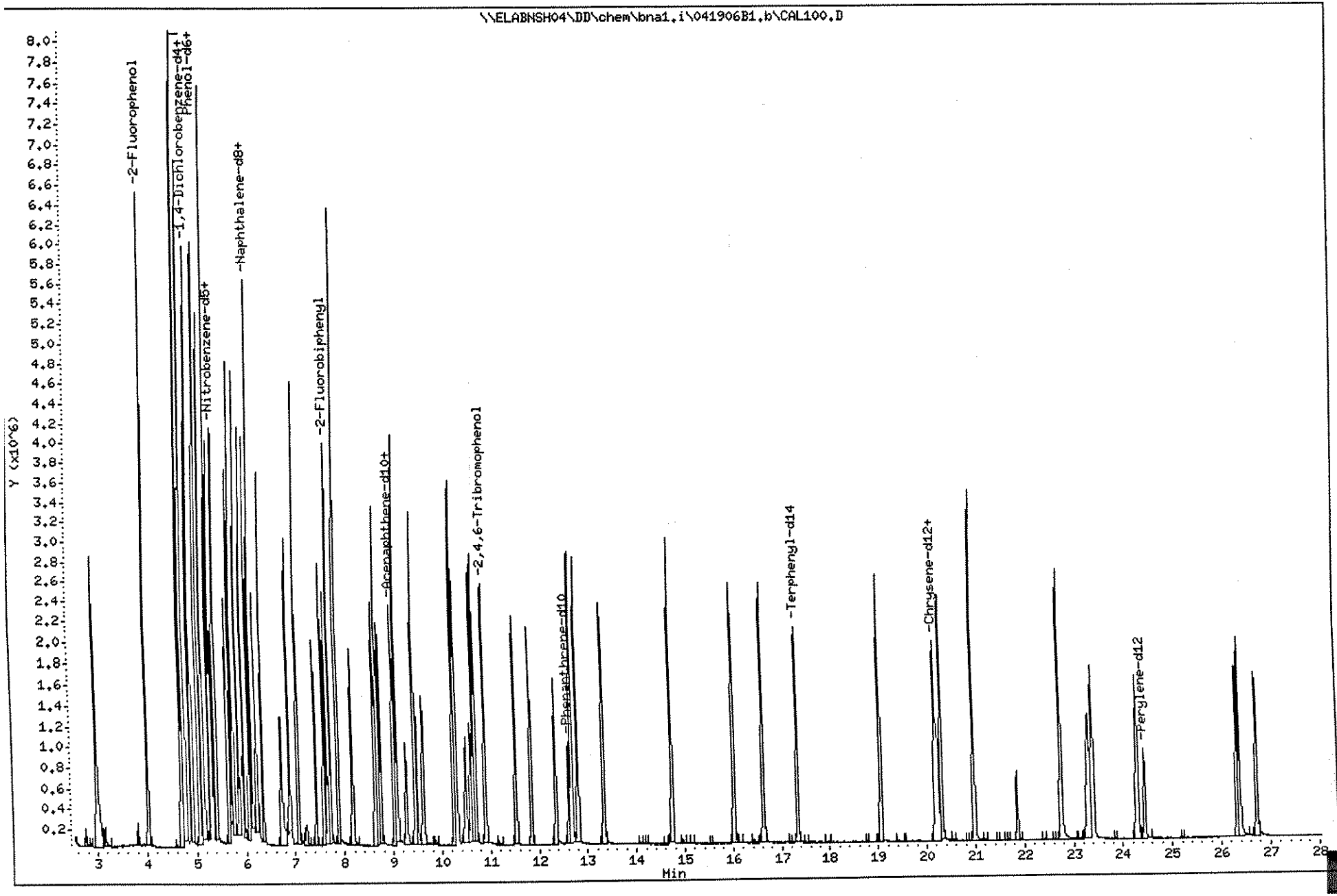
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000338



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FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF0.1: PAH001 RF0.2: PAH002 RF0.4: PAH003
RF0.6: PAH004 RF0.8: PAHLOW05

COMPOUND	RF0.1	RF0.2	RF0.4	RF0.6	RF0.8
Acenaphthene	0.978	0.948	0.976	1.001	
Acenaphthylene	1.606	1.440	1.533	1.580	
Anthracene	1.012	0.933	0.997	1.101	
Benzo(a)anthracene	1.112	1.078	1.100	1.165	
Benzo(b)fluoranthene	1.221	1.269	1.234	1.395	
Benzo(k)fluoranthene	1.294	1.254	1.288	1.347	
Benzo(g,h,i)perylene	0.898	0.780	0.805	0.859	
Benzo(a)pyrene	1.123	0.982	1.041	1.086	
Chrysene	1.133	1.081	1.101	1.162	
Dibenz(a,h)anthracene	0.698	0.691	0.726	0.689	
Fluoranthene	1.091	1.028	1.061	1.130	
Fluorene	1.114	1.086	1.137	1.188	
Indeno(1,2,3-cd)pyrene	0.718	0.688	0.827	0.808	
2-Methylnaphthalene	0.506	0.490	0.521	0.518	
1-Methylnaphthalene	0.544	0.541	0.537	0.557	
Naphthalene	1.033	0.947	0.940	0.978	
Phenanthrene	1.106	1.047	1.050	1.140	
Pyrene	1.406	1.364	1.478	1.516	
Nitrobenzene-d5	0.140	0.133	0.161	0.159	
2-Fluorobiphenyl	1.224	1.107	1.202	1.184	
Terphenyl-d14	0.963	0.862	0.932	0.933	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF1: PAH006 RF2: PAHLOW07 RF2.5: PAH008
RF5: PAH009 RF7.5: PAHLOW10

COMPOUND	RF1	RF2	RF2.5	RF5	RF7.5
Acenaphthene	1.018		1.013	1.063	
Acenaphthylene	1.691		1.652	1.739	
Anthracene	1.107		1.113	1.150	
Benzo(a)anthracene	1.147		1.176	1.237	
Benzo(b)fluoranthene	1.370		1.455	1.502	
Benzo(k)fluoranthene	1.372		1.380	1.510	
Benzo(g,h,i)perylene	0.842		0.812	0.858	
Benzo(a)pyrene	1.132		1.154	1.226	
Chrysene	1.158		1.158	1.217	
Dibenz(a,h)anthracene	0.756		0.758	0.825	
Fluoranthene	1.175		1.138	1.198	
Fluorene	1.243		1.218	1.265	
Indeno(1,2,3-cd)pyrene	0.792		0.800	0.842	
2-Methylnaphthalene	0.534		0.524	0.547	
1-Methylnaphthalene	0.554		0.528	0.567	
Naphthalene	0.986		0.958	1.005	
Phenanthrene	1.145		1.113	1.158	
Pyrene	1.479		1.540	1.644	
Nitrobenzene-d5	0.175		0.188	0.219	
2-Fluorobiphenyl	1.232		1.228	1.264	
Terphenyl-d14	0.920		0.952	0.999	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

LAB FILE ID: RF10: PAH011 RF15: PAHLOW12 RF20: PAH013

COMPOUND	RF10	RF15	RF20
Acenaphthene	1.059		1.021
Acenaphthylene	1.725		1.365
Anthracene	1.142		0.950
Benzo(a)anthracene	1.248		1.216
Benzo(b)fluoranthene	1.468		1.512
Benzo(k)fluoranthene	1.520		1.461
Benzo(g,h,i)perylene	0.837		0.864
Benzo(a)pyrene	1.235		1.260
Chrysene	1.189		1.150
Dibenz(a,h)anthracene	0.834		0.873
Fluoranthene	1.175		1.000
Fluorene	1.254		1.194
Indeno(1,2,3-cd)pyrene	0.857		0.906
2-Methylnaphthalene	0.538		0.531
1-Methylnaphthalene	0.549		0.551
Naphthalene	0.988		0.792
Phenanthrene	1.161		0.943
Pyrene	1.602		1.347
Nitrobenzene-d5	0.240		0.262
2-Fluorobiphenyl	1.255		1.159
Terphenyl-d14	0.987		1.020

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date(s): 03/11/06 04/21/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1210 2147

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acenaphthene	AVRG		1.00859922	3.8
Acenaphthylene	AVRG		1.59235903	8.0
Anthracene	AVRG		1.05614919	7.9
Benzo(a)anthracene	AVRG		1.16454143	5.2
Benzo(b)fluoranthene	AVRG		1.38070945	8.3
Benzo(k)fluoranthene	AVRG		1.38076579	7.0
Benzo(g,h,i)perylene	AVRG		0.83961210	4.2
Benzo(a)pyrene	AVRG		1.13766615	8.2
Chrysene	AVRG		1.14984769	3.6
Dibenz(a,h)anthracene	AVRG		0.76118804	8.9
Fluoranthene	AVRG		1.11063449	6.3
Fluorene	AVRG		1.18887180	5.4
Indeno(1,2,3-cd)pyrene	AVRG		0.80427558	8.3
2-Methylnaphthalene	AVRG		0.52309280	3.3
1-Methylnaphthalene	AVRG		0.54766113	2.1
Naphthalene	AVRG		0.95861266	7.2
Phenanthrene	AVRG		1.09594991	6.5
Pyrene	AVRG		1.48619522	6.8
Nitrobenzene-d5	LINR	0.00000000	0.25594367	0.995
2-Fluorobiphenyl	AVRG		1.20621177	4.1
Terphenyl-d14	AVRG		0.95206285	5.0

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH001.D
Lab Smp Id: PAHCCV0.10PPM
Client Smp ID: PAHCCV0.10PPM
Inj Date : 21-APR-2006 16:28
MS Autotune Date: 19-APR-2006 07:41
Operator : ADM
Inst ID: bna3.i
Smp Info : PAHCCV0.10PPM;;;;;SV3490-1
Misc Info : ;;;;;;pahsurr.sub;3459
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel
Quant Type: ISTD
Cal Date : 21-APR-2006 21:47
Cal File: PAH013.D
Als bottle: 3
Calibration Sample, Level: 1
Dil Factor: 1.00000
Compound Sublist: pahsurr.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
LO 4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	268691	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1002947	1.00000	
$	4 Nitrobenzene-d5	82	6.718	6.718	(0.820)	14013	0.10000	0.05459(aM)
	5 Naphthalene	128	8.225	8.225	(1.004)	103637	0.10000	0.1078
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	50704	0.10000	0.09665(a)
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	54528	0.10000	0.09927(a)
*	8 Acenaphthene-d10	164	12.300	12.300	(1.000)	632514	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.875)	77412	0.10000	0.1015
	11 Acenaphthylene	152	11.924	11.924	(0.969)	101588	0.10000	0.1009(M)
	12 Acenaphthene	153	12.369	12.369	(1.006)	61848	0.10000	0.09695(a)
	15 Fluorene	166	13.590	13.590	(1.105)	70472	0.10000	0.09372(a)
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1000931	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.003)	110752	0.10000	0.1010

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Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	101289	0.10000	0.09581(a)
	19 Fluoranthene	202	18.751	18.751	(1.186)	109173	0.10000	0.09821(a)
*	20 Chrysene-d12	240	22.233	22.233	(1.000)	830583	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	116743	0.10000	0.09457(a)
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	80001	0.10000	0.1012
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	92361	0.10000	0.09549(a)
	24 Chrysene	228	22.290	22.290	(1.003)	94125	0.10000	0.09856(a)
*	25 Perylene-d12	264	25.430	25.430	(1.000)	683436	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	83465	0.10000	0.08845(a)
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	88445	0.10000	0.09372(a)
	28 Benzo(a)pyrene	252	25.315	25.315	(0.996)	76772	0.10000	0.09874(a)
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	49108	0.10000	0.08934(a)
	30 Dibenz(a,h)anthracene	278	27.519	27.519	(1.082)	47722	0.10000	0.09173(a)
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	61387	0.10000	0.1070

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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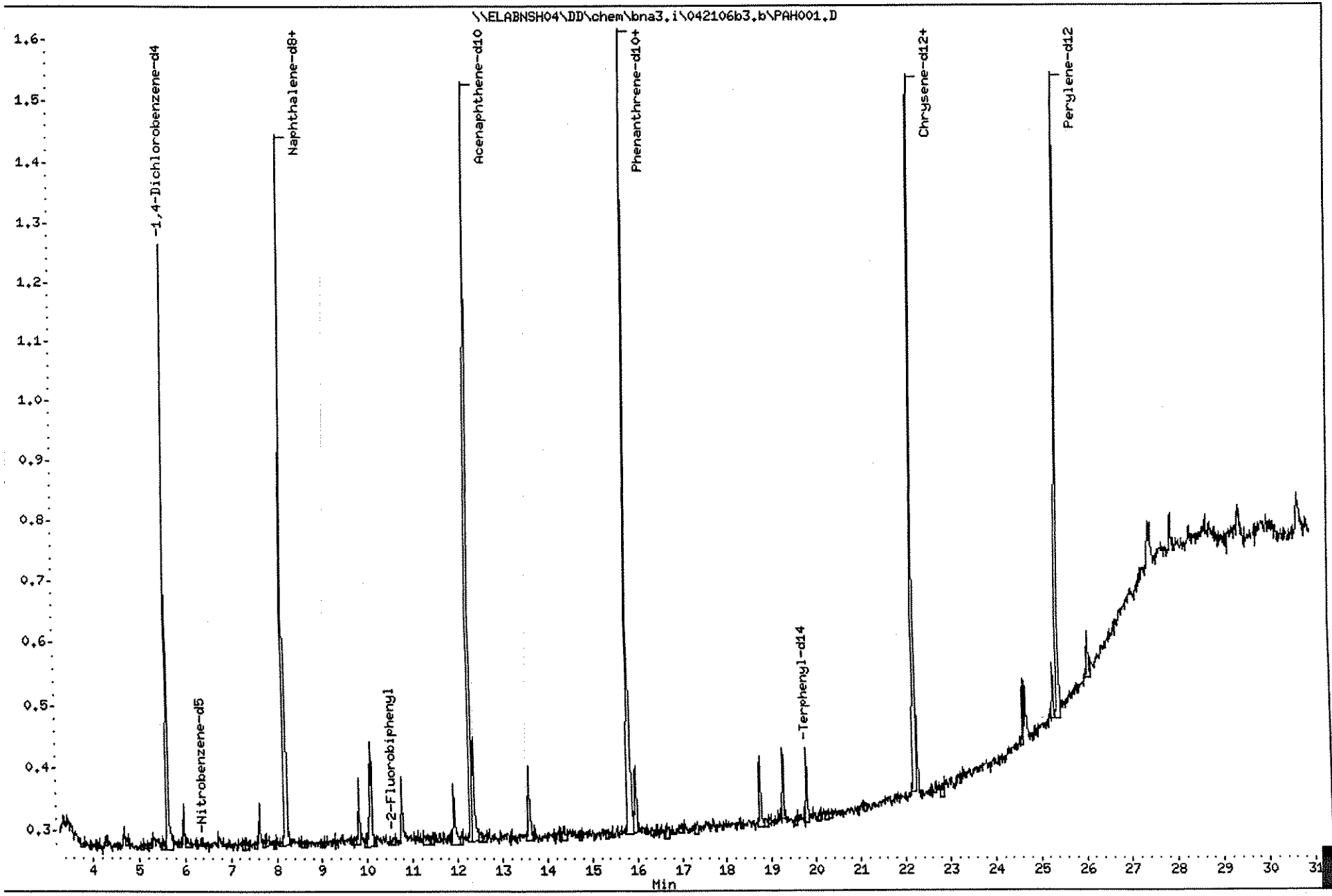
Client ID: PAHCCV0.10PPM
Instrument: bna3.i
Sample Info: PAHCCV0.10PPM;;;;;SV3490-1
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000345



Empirical Laboratories

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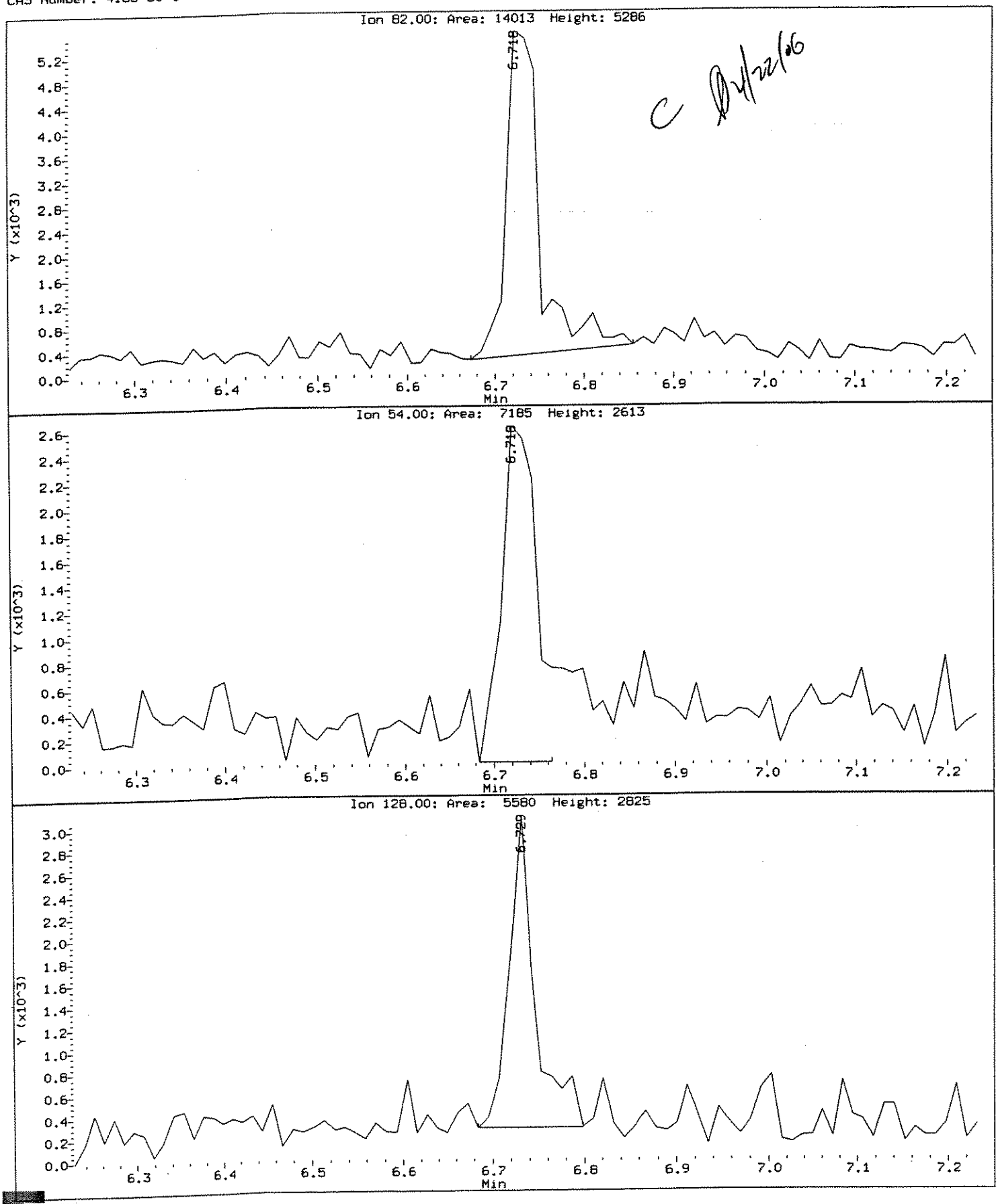
Injection Date: 21-APR-2006 16:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0



C 4/22/06

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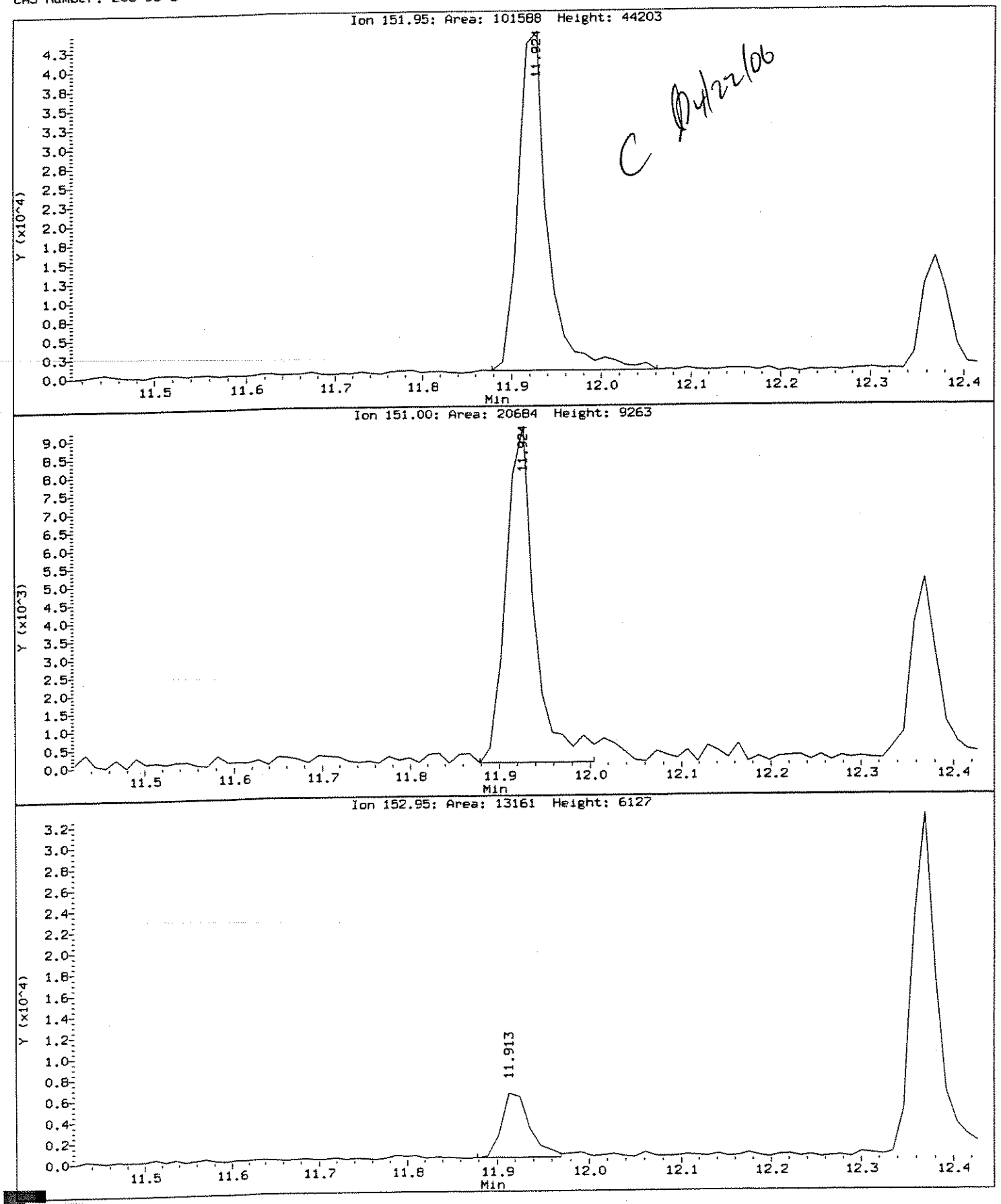
Injection Date: 21-APR-2006 16:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.10PPM

Compound: Acenaphthylene
CAS Number: 208-96-8



C 04/22/06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
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Inj Date : 21-APR-2006 17:08
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Smp Info : PAHCCV0.20PPM;;;;;SV3490-2
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
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Meth Date : 22-Apr-2006 08:16 sburchfiel
Cal Date : 21-APR-2006 21:47
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Client Smp ID: PAHCCV0.20PPM
MS Autotune Date: 19-APR-2006 07:41
Inst ID: bna3.i

Quant Type: ISTD
Cal File: PAH013.D
Calibration Sample, Level: 2

Compound Sublist: pahsurr.sub

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	287217	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1102562	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	29257	0.20000	0.1037
	5 Naphthalene	128	8.226	8.226	(1.004)	208840	0.20000	0.1976
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	107973	0.20000	0.1872
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	119332	0.20000	0.1976
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	693083	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	153463	0.20000	0.1836
	11 Acenaphthylene	152	11.913	11.913	(0.969)	199575	0.20000	0.1808
	12 Acenaphthene	153	12.370	12.370	(1.007)	131420	0.20000	0.1880
	15 Fluorene	166	13.592	13.592	(1.106)	150557	0.20000	0.1827
*	16 Phenanthrene-d10	188	15.818	15.818	(1.000)	1100008	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	230260	0.20000	0.1910

Data File: \\[illegible]
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.978	15.978	(1.010)	205329	0.20000	0.1767
	19 Fluoranthene	202	18.752	18.752	(1.185)	226241	0.20000	0.1852
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	884931	1.00000	
	21 Pyrene	202	19.266	19.266	(0.866)	241490	0.20000	0.1836
$	22 Terphenyl-d14	244	19.791	19.791	(0.890)	152668	0.20000	0.1812
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	190838	0.20000	0.1852
	24 Chrysene	228	22.291	22.291	(1.003)	191396	0.20000	0.1881
*	25 Perylene-d12	264	25.431	25.431	(1.000)	659251	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	167314	0.20000	0.1838
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	165364	0.20000	0.1817
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	129460	0.20000	0.1726
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	90772	0.20000	0.1712(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	91148	0.20000	0.1816
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	102911	0.20000	0.1859

QC Flag Legend

M - Compound response manually integrated.

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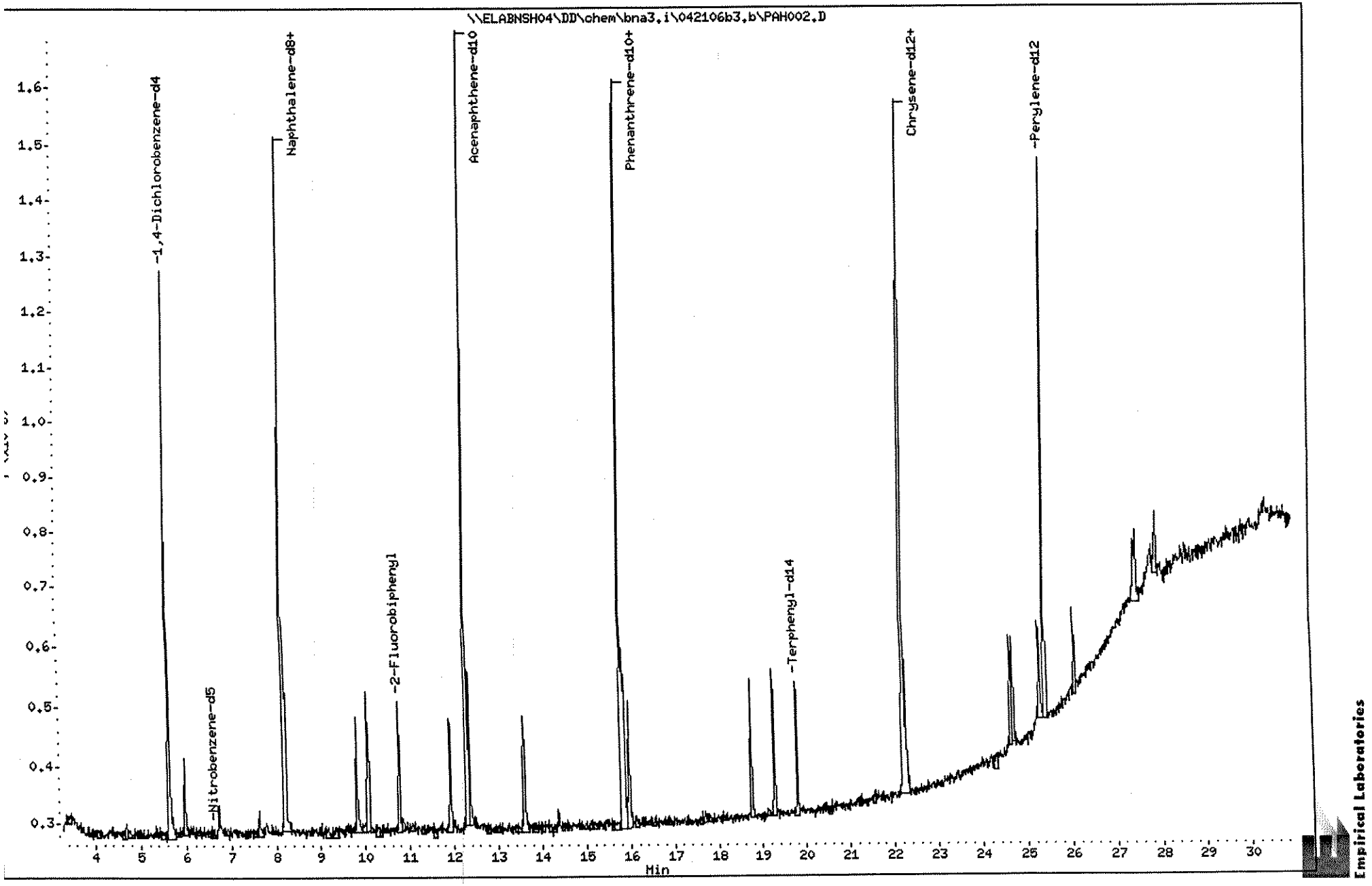
Sample Info: PAHCCV0.20PPM;;;;;SV3490-2
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: ADM
Column diameter: 0.25

000350



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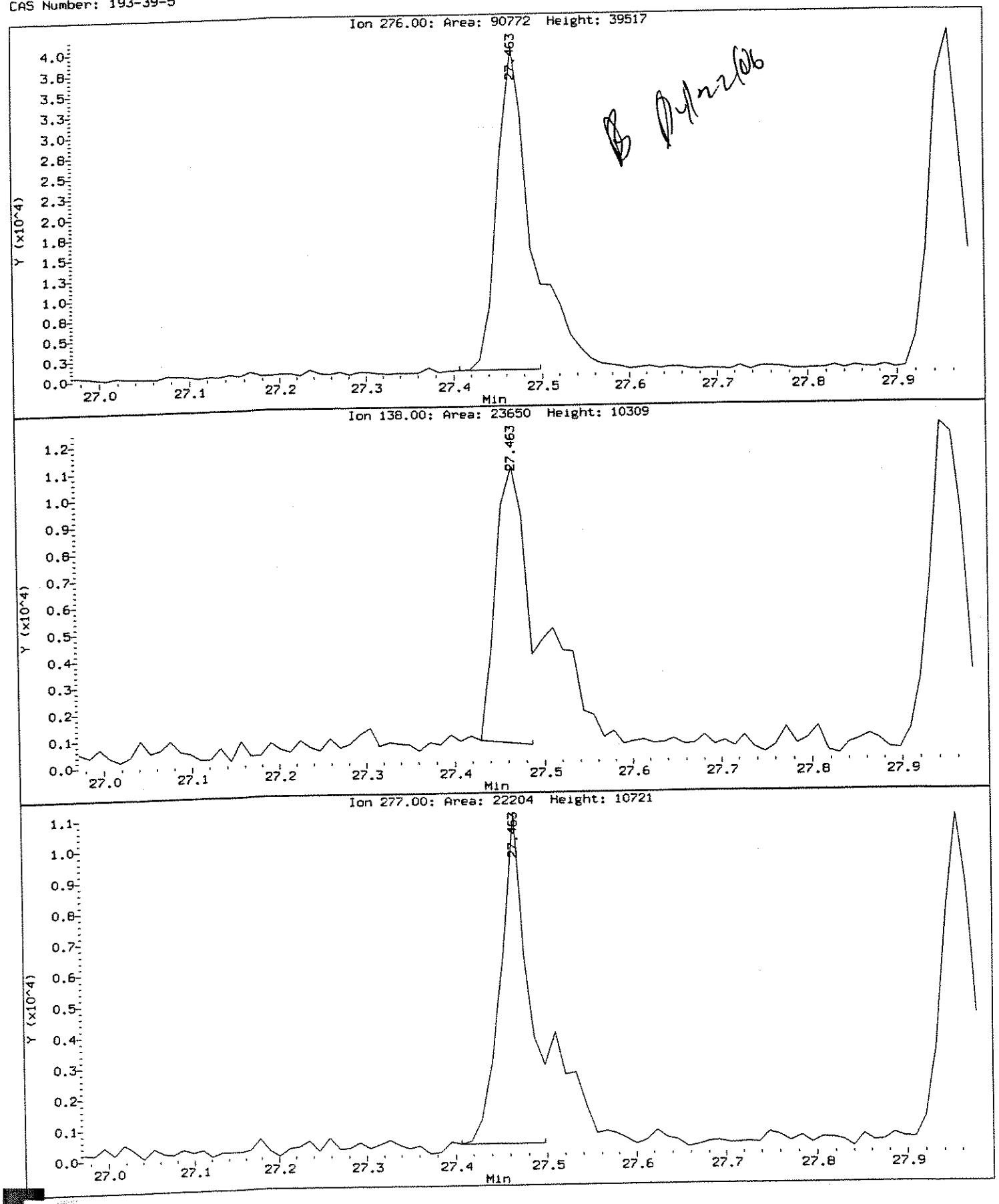
Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH002.D
Injection Date: 21-APR-2006 17:08
Instrument: bna3.i
Client Sample ID: PAHCCV0.20PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



B 4/21/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
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Inj Date : 21-APR-2006 17:48 MS Autotune Date: 19-APR-2006 07:41
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Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000 Compound Sublist: pahsurr.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06
LCV 4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	302877	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1115729	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	71751	0.40000	0.2513
	5 Naphthalene	128	8.225	8.225	(1.004)	419539	0.40000	0.3922
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	232515	0.40000	0.3984
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	239779	0.40000	0.3924
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	694561	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	334012	0.40000	0.3987
	11 Acenaphthylene	152	11.924	11.924	(0.970)	425811	0.40000	0.3850
	12 Acenaphthene	153	12.369	12.369	(1.007)	271253	0.40000	0.3872
	15 Fluorene	166	13.579	13.579	(1.105)	315782	0.40000	0.3824
*	16 Phenanthrene-d10	188	15.817	15.817	(1.000)	1082317	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.003)	454618	0.40000	0.3833

Data File: \\[illegible]
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.010)	431691	0.40000	0.3776
	19 Fluoranthene	202	18.751	18.751	(1.185)	459347	0.40000	0.3821
*	20 Chrysene-d12	240	22.222	22.222	(1.000)	808078	1.00000	
	21 Pyrene	202	19.265	19.265	(0.867)	477723	0.40000	0.3978
$	22 Terphenyl-d14	244	19.801	19.801	(0.891)	301254	0.40000	0.3916
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	355700	0.40000	0.3780
	24 Chrysene	228	22.290	22.290	(1.003)	355759	0.40000	0.3829
*	25 Perylene-d12	264	25.430	25.430	(1.000)	592716	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.654	(0.969)	292455	0.40000	0.3574
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	305339	0.40000	0.3731
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	246925	0.40000	0.3662
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	196006	0.40000	0.4112(M)
	30 Dibenz(a,h)anthracene	278	27.508	27.508	(1.082)	172186	0.40000	0.3816
	31 Benzo(g,h,i)perylene	276	27.953	27.953	(1.099)	190964	0.40000	0.3837

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH003.D
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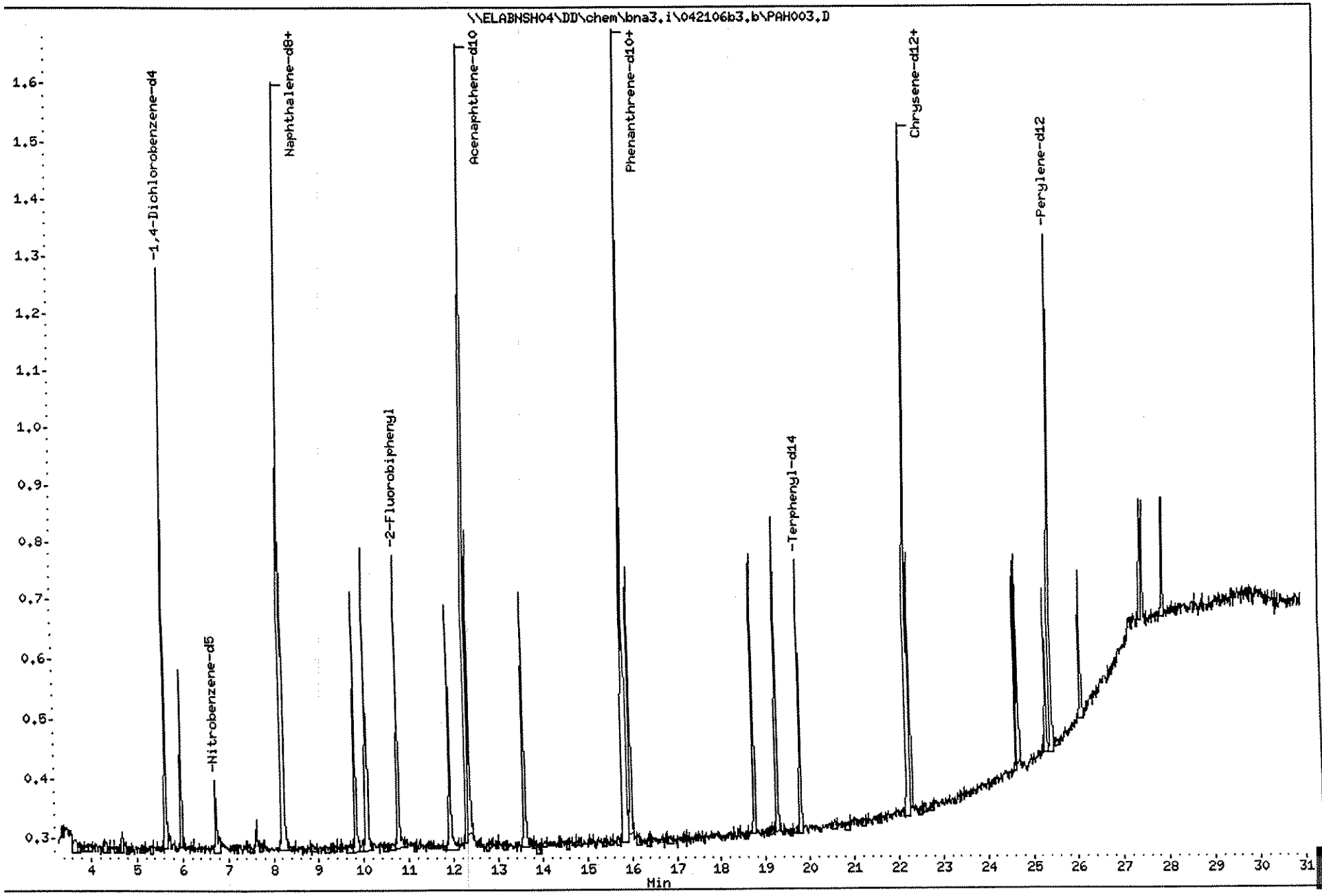
Client ID: PAHCCV0.40PPM
Instrument: bna3.i
Sample Info: PAHCCV0.40PPM;;;;;SV3490-3
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

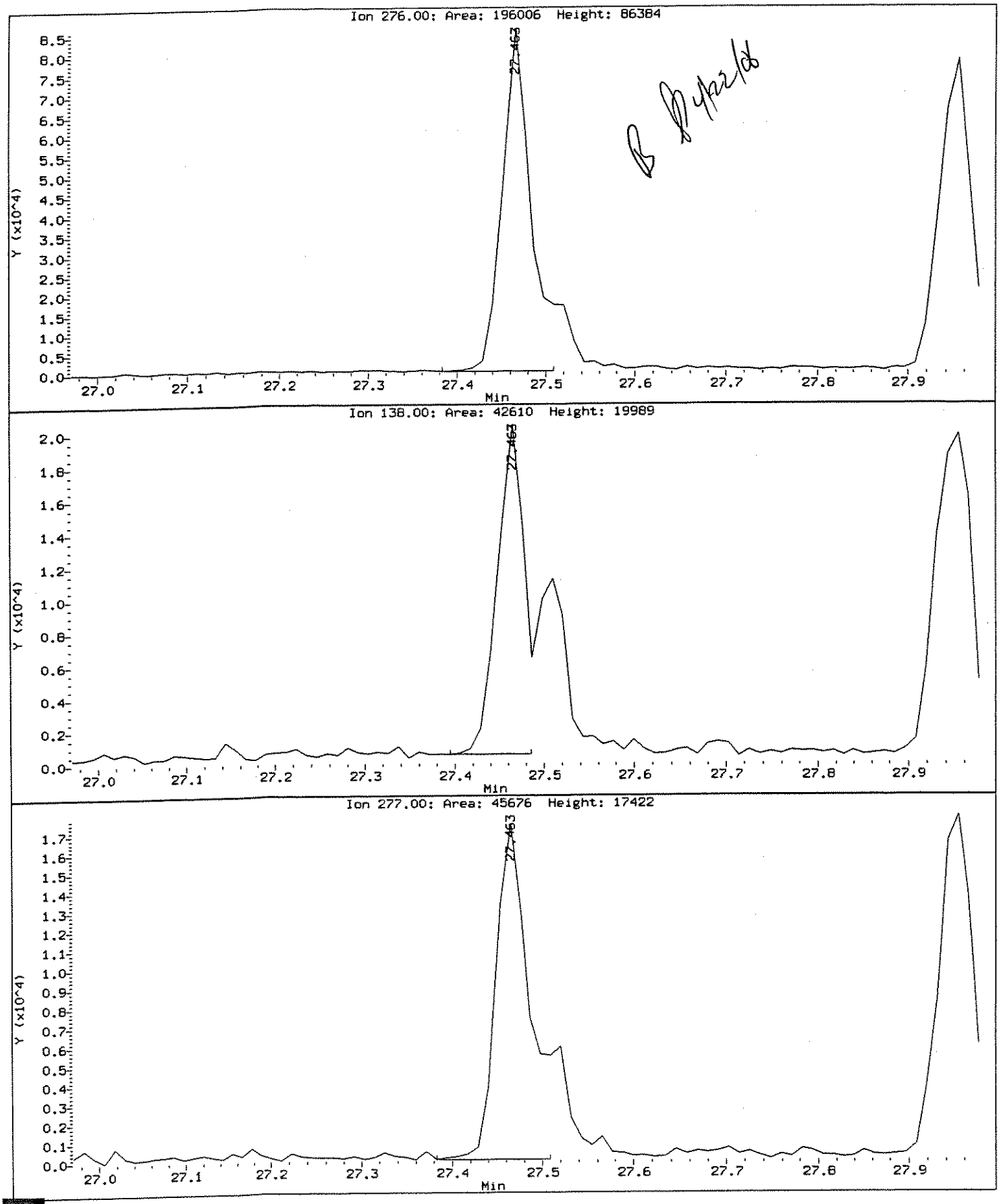
000354



Empirical Laboratories

Data File: [illegible]
Injection Date: 21-APR-2006 17:48
Instrument: bna3.i
Client Sample ID: PAHCCV0.40PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH004.D
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Inj Date : 21-APR-2006 18:28 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV0.60PPM;;;;;SV3490-4
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000 Compound Sublist: pahsurr.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	5.624	5.624	(1.000)	329200	1.00000	
* 3	Naphthalene-d8	136	8.182	8.182	(1.000)	1226474	1.00000	
$ 4	Nitrobenzene-d5	82	6.732	6.732	(0.823)	117346	0.60000	0.3738
5	Naphthalene	128	8.227	8.227	(1.006)	719719	0.60000	0.6122
6	2-Methylnaphthalene	141	9.803	9.803	(1.198)	381395	0.60000	0.5945
7	1-Methylnaphthalene	141	10.054	10.054	(1.229)	410164	0.60000	0.6106
* 8	Acenaphthene-d10	164	12.292	12.292	(1.000)	767876	1.00000	
$ 10	2-Fluorobiphenyl	172	10.762	10.762	(0.876)	545610	0.60000	0.5891
11	Acenaphthylene	152	11.915	11.915	(0.969)	727799	0.60000	0.5952
12	Acenaphthene	153	12.372	12.372	(1.007)	461133	0.60000	0.5954
15	Fluorene	166	13.582	13.582	(1.105)	547310	0.60000	0.5995
* 16	Phenanthrene-d10	188	15.808	15.808	(1.000)	1172520	1.00000	
17	Phenanthrene	178	15.865	15.865	(1.004)	801691	0.60000	0.6239

4/22/06

Empirical Laboratories

Data File: \\[illegible]
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	774639	0.60000	0.6255
	19 Fluoranthene	202	18.742	18.742	(1.186)	795002	0.60000	0.6105
*	20 Chrysene-d12	240	22.224	22.224	(1.000)	946467	1.00000	
	21 Pyrene	202	19.267	19.267	(0.867)	861082	0.60000	0.6122
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	530003	0.60000	0.5882
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	661443	0.60000	0.6001
	24 Chrysene	228	22.281	22.281	(1.003)	659798	0.60000	0.6063
*	25 Perylene-d12	264	25.433	25.433	(1.000)	688483	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	576126	0.60000	0.6061
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.971)	556636	0.60000	0.5855
	28 Benzo(a)pyrene	252	25.307	25.307	(0.995)	448426	0.60000	0.5725
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	333760	0.60000	0.6027(M)
	30 Dibenz(a,h)anthracene	278	27.510	27.510	(1.082)	284631	0.60000	0.5431
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	354811	0.60000	0.6138

QC Flag Legend

M - Compound response manually integrated.

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Client ID: PAHCCV0.60PPM
Instrument: bna3.i
Sample Info: PAHCCV0.60PPM;;;;;SV3490-4
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

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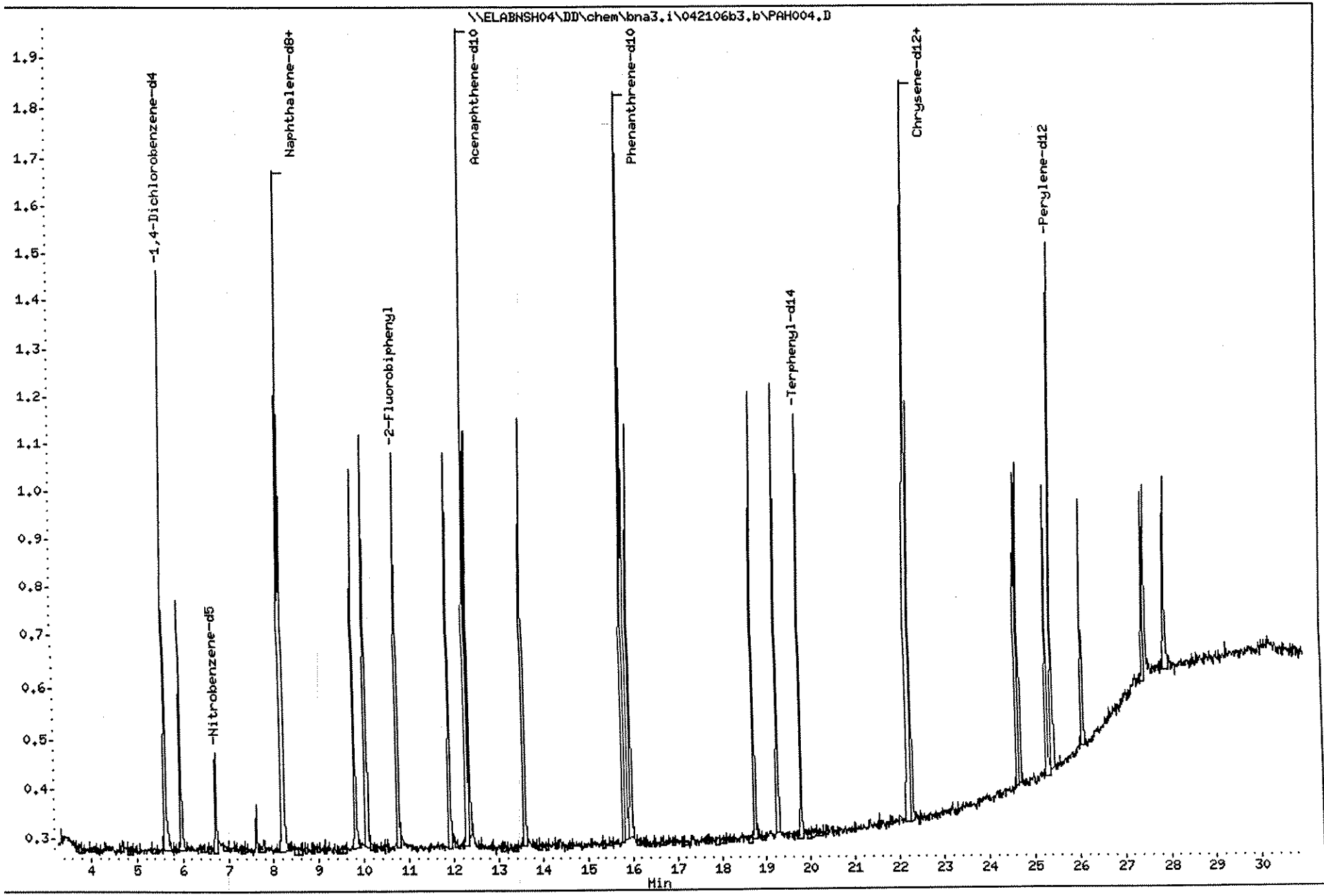

Empirical Laboratories

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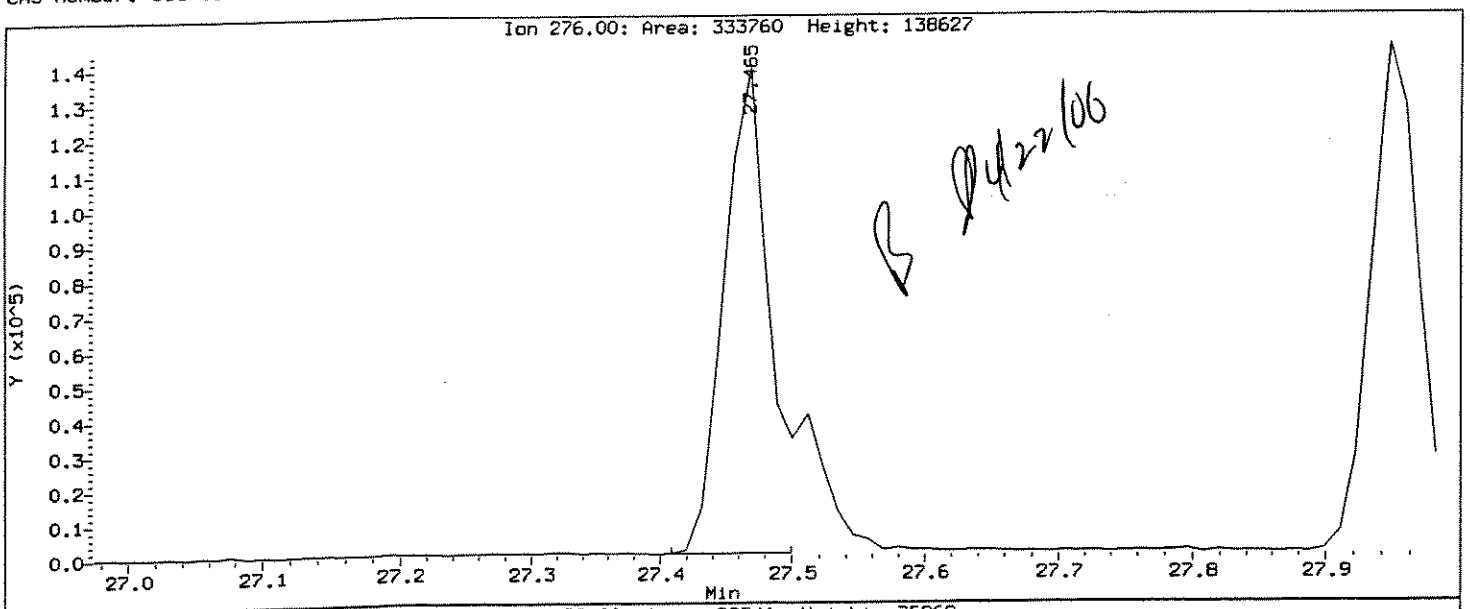
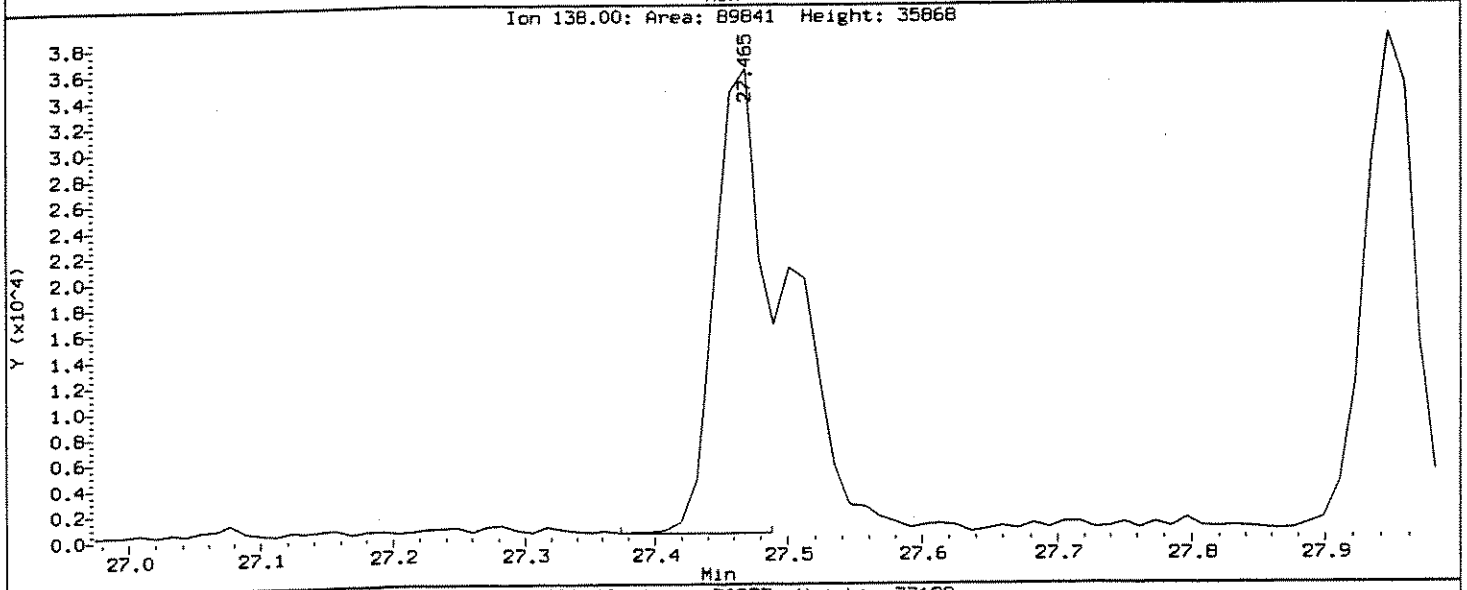
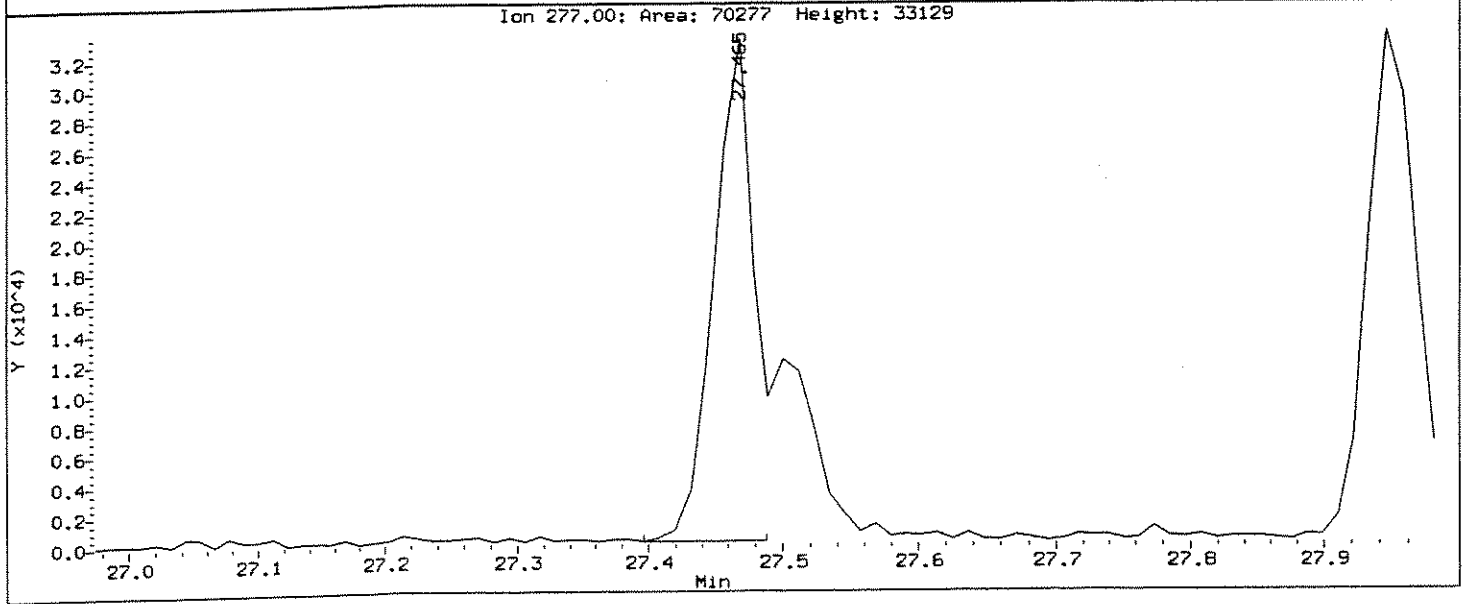
Injection Date: 21-APR-2006 18:28
Instrument: bna3.i
Client Sample ID: PAHCCV0.60PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH006.D
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Inj Date : 21-APR-2006 19:08 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV1.00PPM;;;;;SV3490-6
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000 Compound Sublist: pahsurr.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06 CAB

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.623	(1.000)	329299	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1224400	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	214407	1.00000	0.6842
	5 Naphthalene	128	8.226	8.226	(1.004)	1207319	1.00000	1.029
	6 2-Methylnaphthalene	141	9.801	9.801	(1.197)	653238	1.00000	1.020
	7 1-Methylnaphthalene	141	10.052	10.052	(1.227)	678548	1.00000	1.012
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	756735	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	932424	1.00000	1.022
	11 Acenaphthylene	152	11.913	11.913	(0.969)	1279930	1.00000	1.062
	12 Acenaphthene	153	12.370	12.370	(1.007)	770344	1.00000	1.009
	15 Fluorene	166	13.580	13.580	(1.105)	940817	1.00000	1.046
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1203294	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	1377910	1.00000	1.045

Data File: \\ELABNSRV4\DD\CHEM\[illegible]
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.966	15.966	(1.010)	1332118	1.00000	1.048
	19 Fluoranthene	202	18.740	18.740	(1.186)	1414100	1.00000	1.058
*	20 Chrysene-d12	240	22.223	22.223	(1.000)	1000636	1.00000	
	21 Pyrene	202	19.266	19.266	(0.867)	1480435	1.00000	0.9955
$	22 Terphenyl-d14	244	19.791	19.791	(0.891)	920381	1.00000	0.9661
	23 Benzo(a)anthracene	228	22.188	22.188	(0.998)	1147993	1.00000	0.9852
	24 Chrysene	228	22.280	22.280	(1.003)	1159160	1.00000	1.007
*	25 Perylene-d12	264	25.431	25.431	(1.000)	714580	1.00000	
	26 Benzo(b)fluoranthene	252	24.643	24.643	(0.969)	979171	1.00000	0.9924
	27 Benzo(k)fluoranthene	252	24.700	24.700	(0.971)	980610	1.00000	0.9939
	28 Benzo(a)pyrene	252	25.305	25.305	(0.995)	808656	1.00000	0.9947
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.463	(1.080)	566235	1.00000	0.9852 (M)
	30 Dibenz(a,h)anthracene	278	27.509	27.509	(1.082)	539929	1.00000	0.9926
	31 Benzo(g,h,i)perylene	276	27.954	27.954	(1.099)	601831	1.00000	1.003

QC Flag Legend

M - Compound response manually integrated.

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Instrument: bna3.i
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Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

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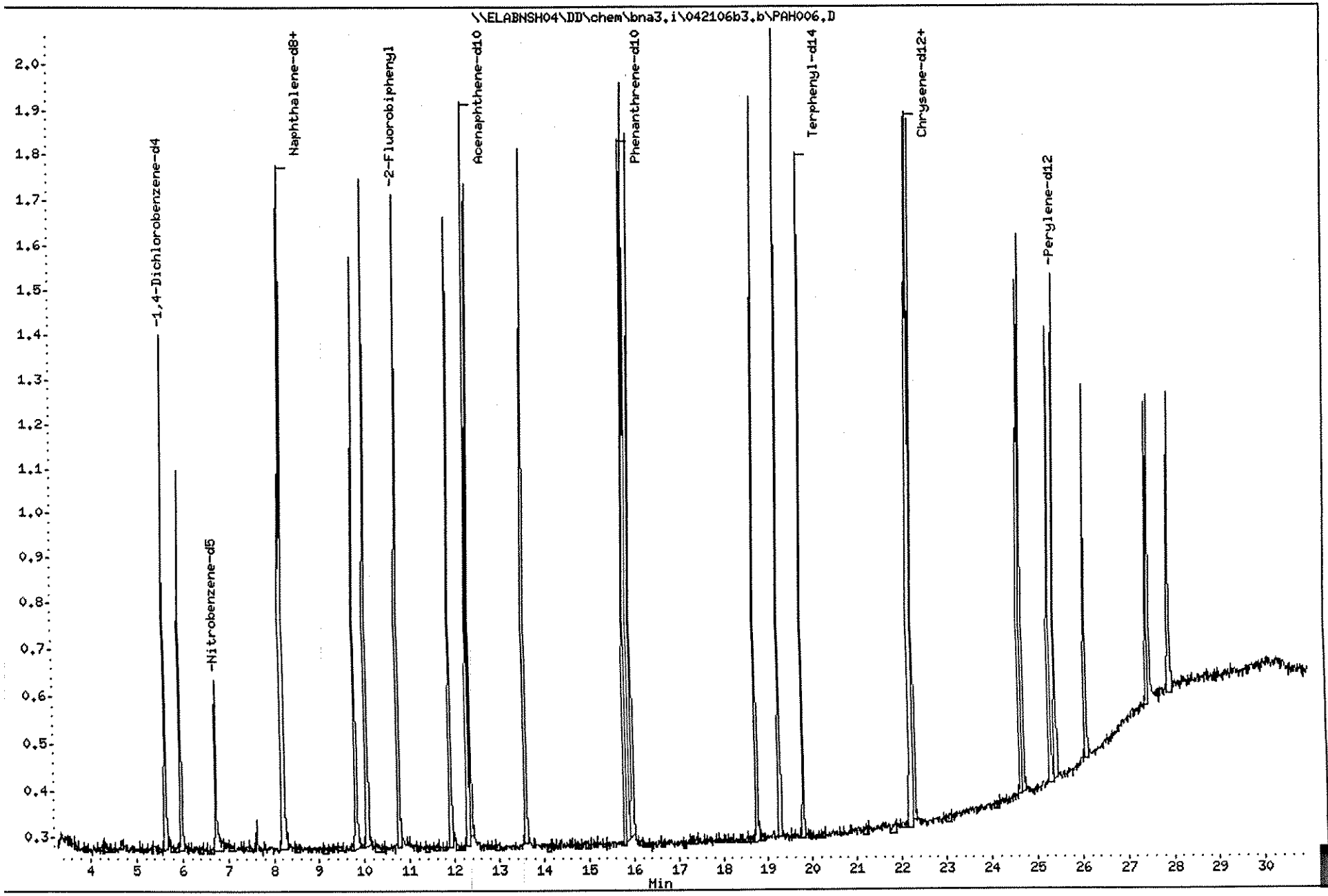

Empirical Laboratories

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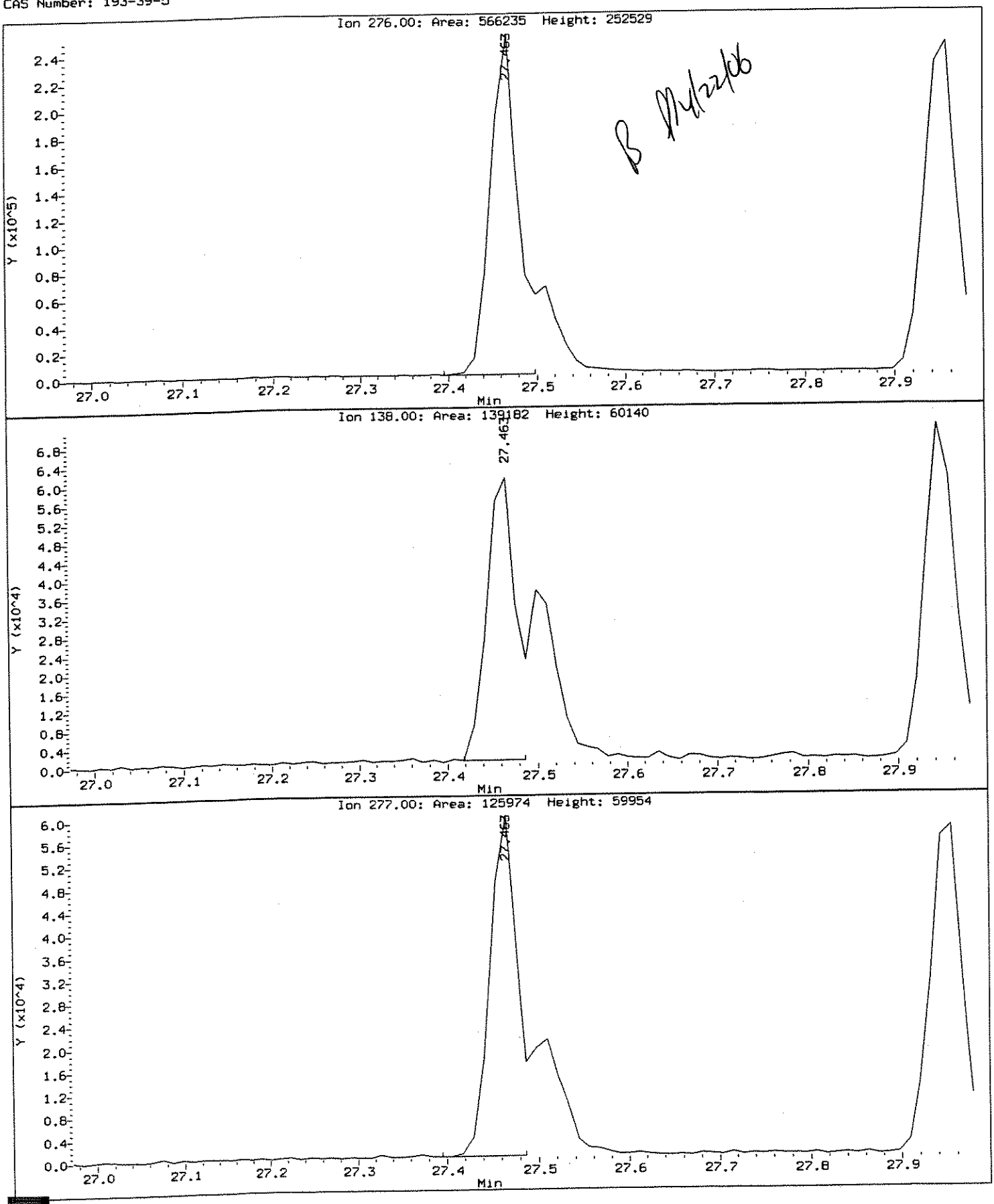
Injection Date: 21-APR-2006 19:08
Instrument: bna3.i
Client Sample ID: PAHCCV1.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



B 4/22/06

Empirical Laboratories

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Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH008.D
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Operator : ADM Inst ID: bna3.i
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Misc Info : ;;;;;;pahsurr.sub;3489
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Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

04/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	351441	1.00000	
*	3 Naphthalene-d8	136	8.182	8.182	(1.000)	1256420	1.00000	
$	4 Nitrobenzene-d5	82	6.732	6.732	(0.823)	589518	2.50000	1.833
	5 Naphthalene	128	8.228	8.228	(1.006)	3009506	2.50000	2.499
	6 2-Methylnaphthalene	141	9.803	9.803	(1.198)	1644661	2.50000	2.502
	7 1-Methylnaphthalene	141	10.054	10.054	(1.229)	1658458	2.50000	2.410
*	8 Acenaphthene-d10	164	12.292	12.292	(1.000)	749522	1.00000	
$	10 2-Fluorobiphenyl	172	10.762	10.762	(0.876)	2301812	2.50000	2.546
	11 Acenaphthylene	152	11.915	11.915	(0.969)	3095703	2.50000	2.594
	12 Acenaphthene	153	12.360	12.360	(1.006)	1898346	2.50000	2.511
	15 Fluorene	166	13.582	13.582	(1.105)	2282690	2.50000	2.562
*	16 Phenanthrene-d10	188	15.808	15.808	(1.000)	1165893	1.00000	
	17 Phenanthrene	178	15.865	15.865	(1.004)	3243172	2.50000	2.538

04/22/06

Data File: \\ELABNSH04\DD\CHEM\BNA5.I\012206A.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.968	15.968	(1.010)	3243718	2.50000	2.634
	19 Fluoranthene	202	18.742	18.742	(1.186)	3318557	2.50000	2.563
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	921360	1.00000	
	21 Pyrene	202	19.256	19.256	(0.866)	3546273	2.50000	2.590
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	2192924	2.50000	2.500
	23 Benzo(a)anthracene	228	22.190	22.190	(0.998)	2709732	2.50000	2.525
	24 Chrysene	228	22.282	22.282	(1.003)	2667007	2.50000	2.517
*	25 Perylene-d12	264	25.421	25.421	(1.000)	641370	1.00000	
	26 Benzo(b)fluoranthene	252	24.645	24.645	(0.969)	2332875	2.50000	2.634
	27 Benzo(k)fluoranthene	252	24.702	24.702	(0.972)	2212441	2.50000	2.498
	28 Benzo(a)pyrene	252	25.307	25.307	(0.996)	1851015	2.50000	2.537
	29 Indeno(1,2,3-cd)pyrene	276	27.465	27.465	(1.080)	1282224	2.50000	2.486
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	1216301	2.50000	2.491
	31 Benzo(g,h,i)perylene	276	27.944	27.944	(1.099)	1301749	2.50000	2.417

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Sample Info: PAHCCV2.50PPM;;;;;SV3490-8
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Column phase: fused silica

Instrument: bna3.i

Operator: ADM
Column diameter: 0.25

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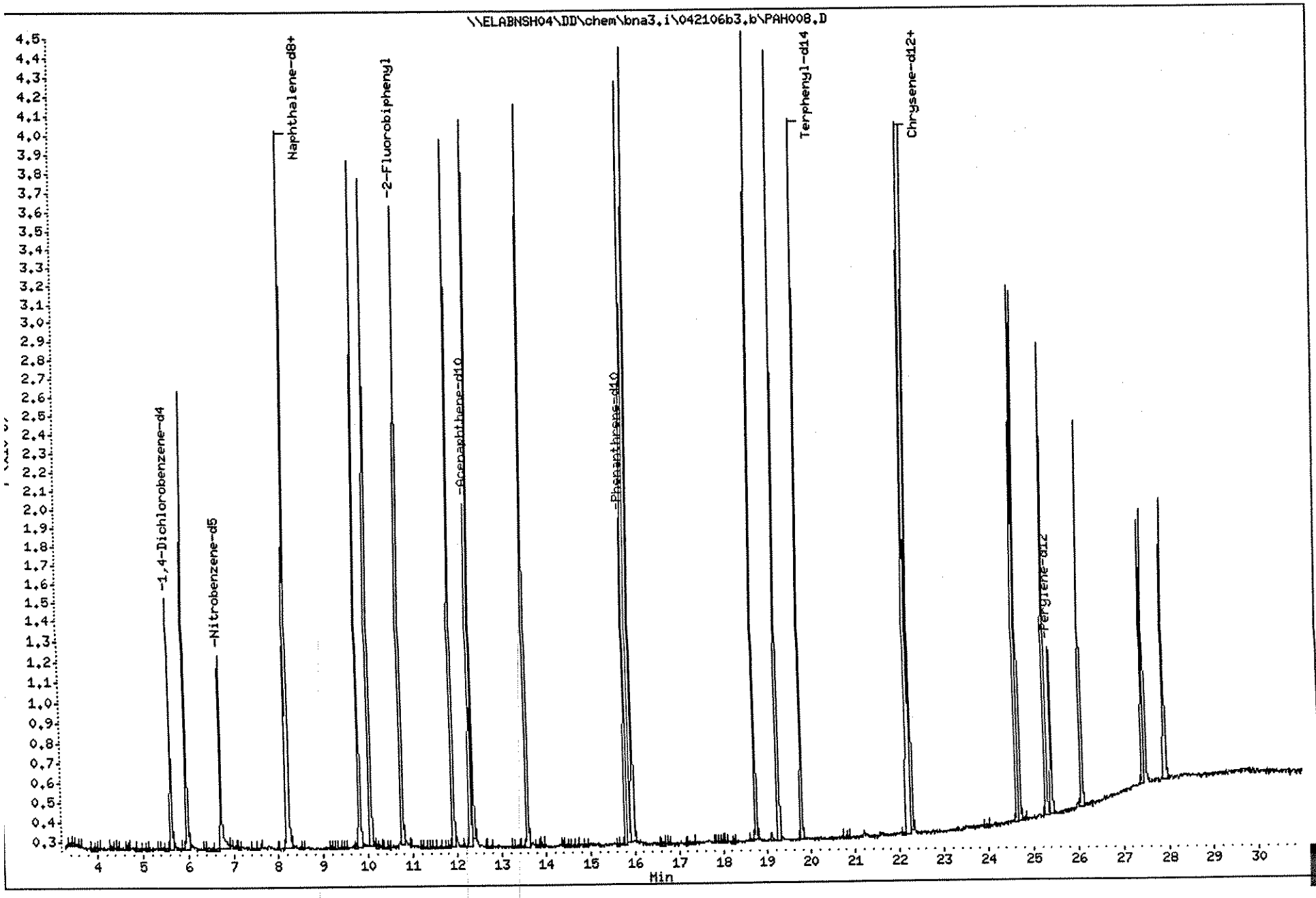

Empirical Laboratories

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Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

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Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000 Compound Sublist: pahsurr.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.621	5.621	(1.000)	327761	1.00000	
*	3 Naphthalene-d8	136	8.190	8.190	(1.000)	1141420	1.00000	
$	4 Nitrobenzene-d5	82	6.729	6.729	(0.822)	1251055	5.00000	4.282
	5 Naphthalene	128	8.224	8.224	(1.004)	5737503	5.00000	5.244
	6 2-Methylnaphthalene	141	9.811	9.811	(1.198)	3121069	5.00000	5.227
	7 1-Methylnaphthalene	141	10.051	10.051	(1.227)	3234343	5.00000	5.174
*	8 Acenaphthene-d10	164	12.289	12.289	(1.000)	690701	1.00000	
$	10 2-Fluorobiphenyl	172	10.759	10.759	(0.876)	4365308	5.00000	5.240
	11 Acenaphthylene	152	11.912	11.912	(0.969)	6005889	5.00000	5.461
	12 Acenaphthene	153	12.369	12.369	(1.007)	3671339	5.00000	5.270
	15 Fluorene	166	13.579	13.579	(1.105)	4369991	5.00000	5.322
*	16 Phenanthrene-d10	188	15.805	15.805	(1.000)	1054546	1.00000	
	17 Phenanthrene	178	15.862	15.862	(1.004)	6107666	5.00000	5.285

LOW

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Data File: \\ELABNSH01\DD\CHEM\SHARE\[illegible]
Report Date: 22-Apr-2006 08:16

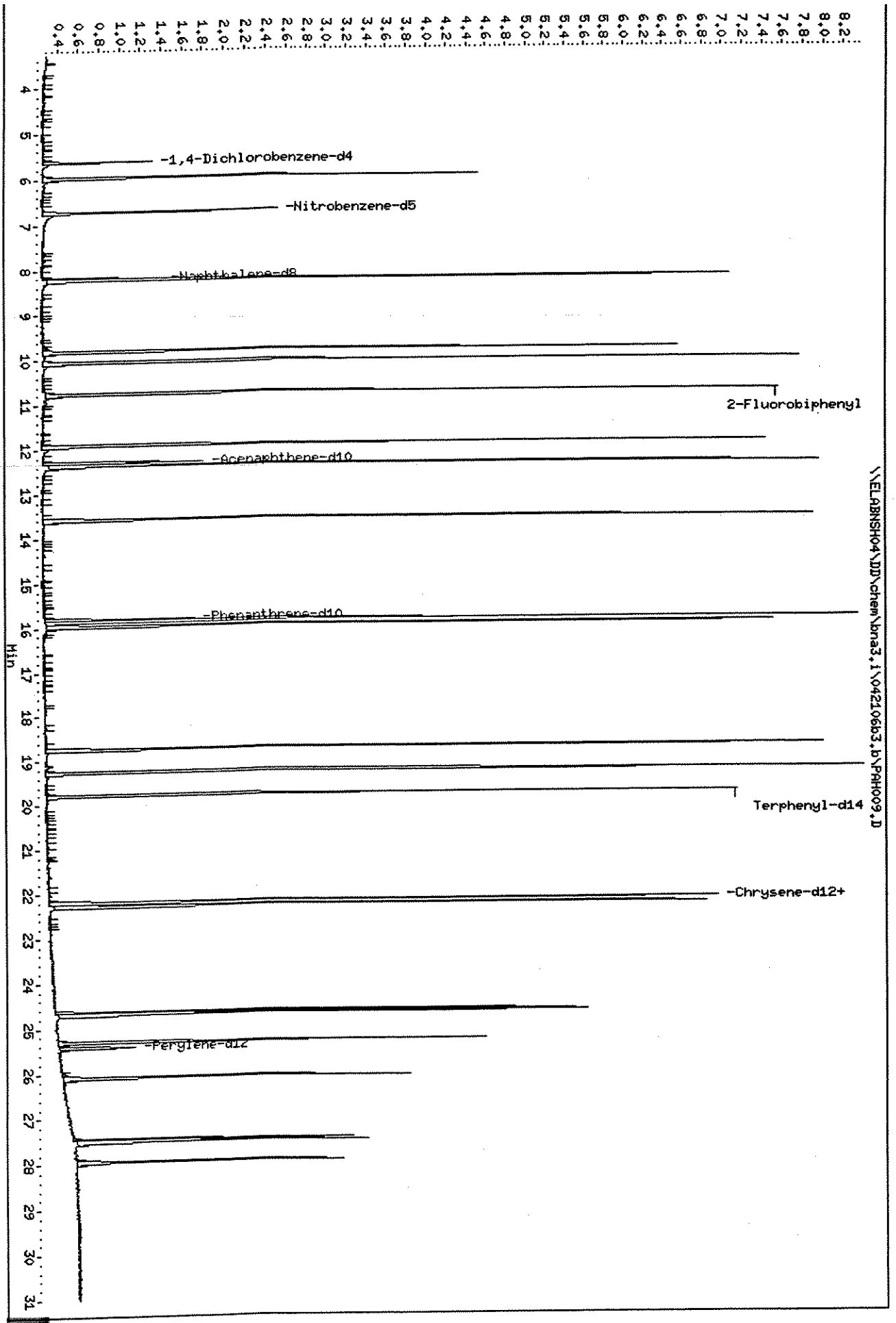
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.965	15.965	(1.010)	6062413	5.00000	5.443
	19 Fluoranthene	202	18.739	18.739	(1.186)	6314580	5.00000	5.391
*	20 Chrysene-d12	240	22.221	22.221	(1.000)	817413	1.00000	
	21 Pyrene	202	19.264	19.264	(0.867)	6717942	5.00000	5.530
$	22 Terphenyl-d14	244	19.789	19.789	(0.891)	4081780	5.00000	5.245
	23 Benzo(a)anthracene	228	22.187	22.187	(0.998)	5054634	5.00000	5.310
	24 Chrysene	228	22.290	22.290	(1.003)	4973401	5.00000	5.291
*	25 Perylene-d12	264	25.429	25.429	(1.000)	555716	1.00000	
	26 Benzo(b)fluoranthene	252	24.653	24.653	(0.969)	4173515	5.00000	5.439
	27 Benzo(k)fluoranthene	252	24.699	24.699	(0.971)	4195909	5.00000	5.468
	28 Benzo(a)pyrene	252	25.304	25.304	(0.995)	3406369	5.00000	5.388
	29 Indeno(1,2,3-cd)pyrene	276	27.462	27.462	(1.080)	2338576	5.00000	5.232(M)
	30 Dibenz(a,h)anthracene	278	27.507	27.507	(1.082)	2292764	5.00000	5.420
	31 Benzo(g,h,i)perylene	276	27.952	27.952	(1.099)	2384785	5.00000	5.111

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3,i\042106b3,b\PAH009,D
Date : 21-APR-2006 20:27
Client ID: PAHCCV5,00PPM
Sample Info: PAHCCV5,00PPM;;;;SV3490-9
Volume Injected (uL): 2,0
Column phase: fused silica

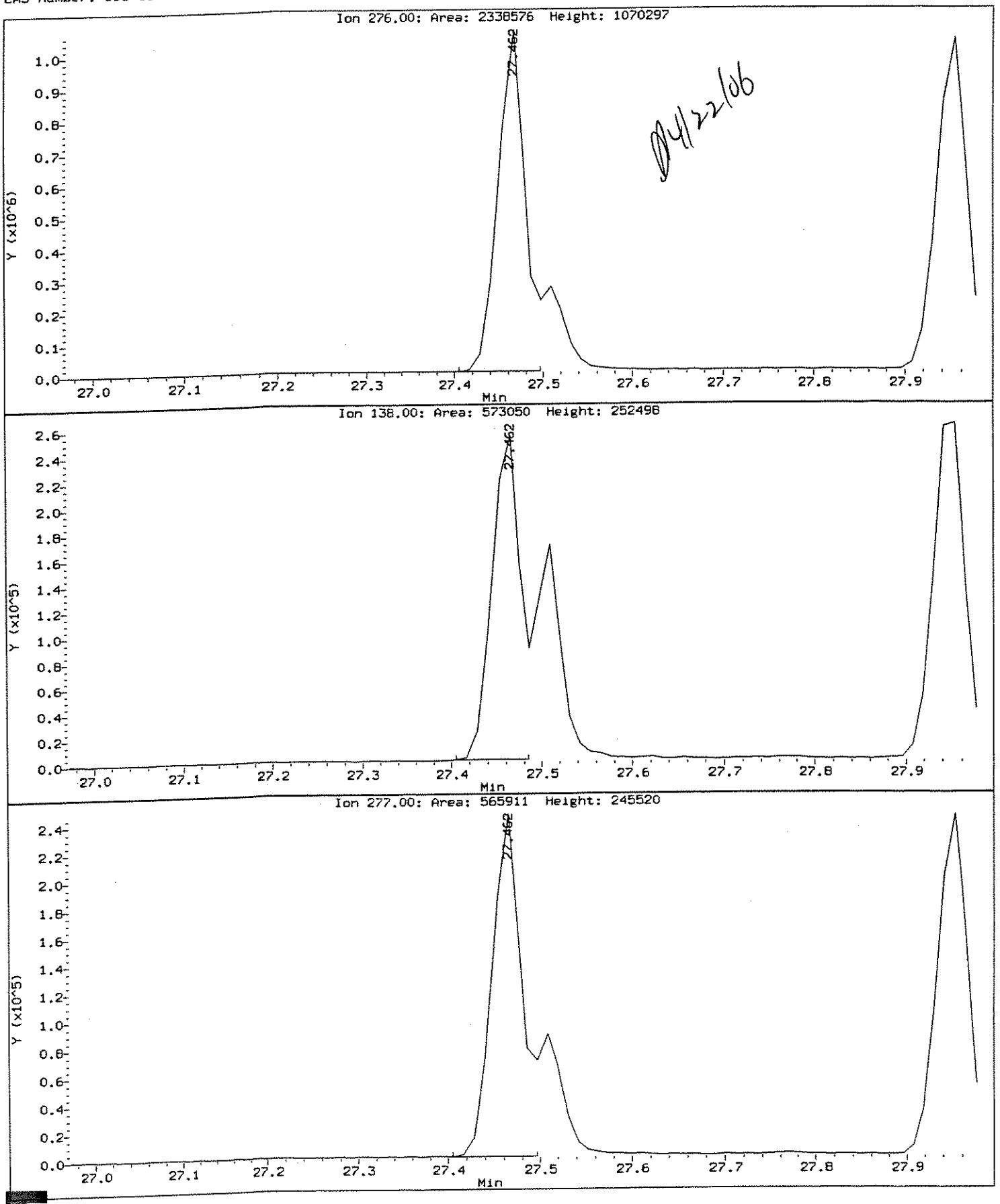
Instrument: bna3,i
Operator: ADM
Column diameter: 0,25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH009.D
Injection Date: 21-APR-2006 20:27
Instrument: bna3.i
Client Sample ID: PAHCCV5.00PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



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Data File: \\[redacted]
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH011.D
Lab Smp Id: PAHCCV10.0PPM Client Smp ID: PAHCCV10.0PPM
Inj Date : 21-APR-2006 21:07 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV10.0PPM;;;;;SV3490-11
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 10 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

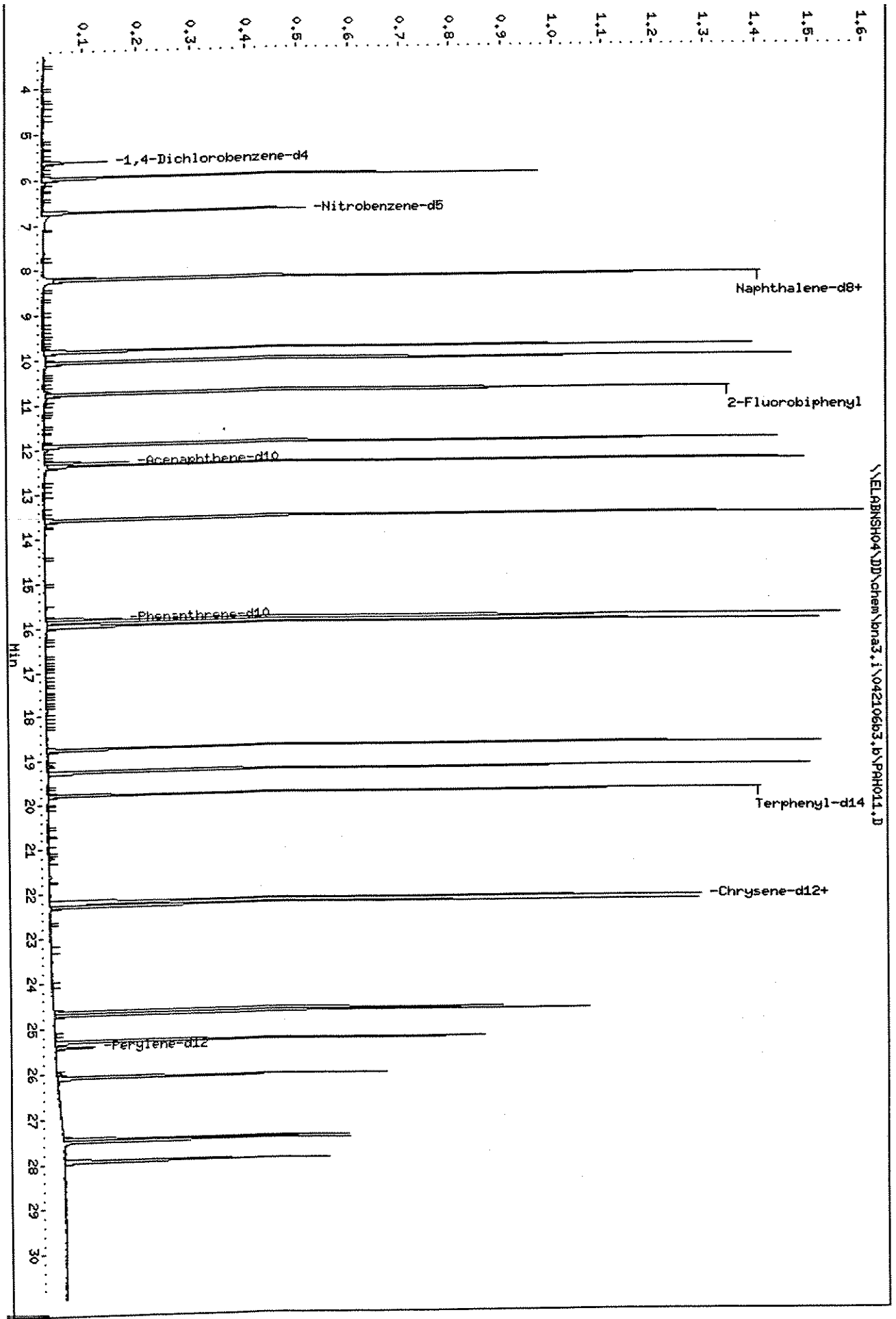
4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.625	5.625	(1.000)	328202	1.00000	
*	3 Naphthalene-d8	136	8.183	8.183	(1.000)	1168941	1.00000	
$	4 Nitrobenzene-d5	82	6.733	6.733	(0.823)	2809787	10.0000	9.392
	5 Naphthalene	128	8.228	8.228	(1.006)	11547364	10.0000	10.30
	6 2-Methylnaphthalene	141	9.804	9.804	(1.198)	6288467	10.0000	10.28
	7 1-Methylnaphthalene	141	10.055	10.055	(1.229)	6423303	10.0000	10.03
*	8 Acenaphthene-d10	164	12.293	12.293	(1.000)	690455	1.00000	
$	10 2-Fluorobiphenyl	172	10.763	10.763	(0.876)	8665745	10.0000	10.40
	11 Acenaphthylene	152	11.916	11.916	(0.969)	11912417	10.0000	10.83
	12 Acenaphthene	153	12.373	12.373	(1.007)	7309886	10.0000	10.50
	15 Fluorene	166	13.583	13.583	(1.105)	8658849	10.0000	10.55
*	16 Phenanthrene-d10	188	15.809	15.809	(1.000)	1034743	1.00000	
	17 Phenanthrene	178	15.866	15.866	(1.004)	12015977	10.0000	10.60

4/22/06

Data File: \\ELABNSH04\DD\chem\bna3.1\042106B3.D\PAH011.D
Report Date: 22-Apr-2006 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.969	15.969	(1.010)	11816583	10.0000	10.81
	19 Fluoranthene	202	18.743	18.743	(1.186)	12154493	10.0000	10.58
*	20 Chrysene-d12	240	22.225	22.225	(1.000)	799663	1.00000	
	21 Pyrene	202	19.268	19.268	(0.867)	12810447	10.0000	10.78
$	22 Terphenyl-d14	244	19.793	19.793	(0.891)	7894983	10.0000	10.37
	23 Benzo(a)anthracene	228	22.191	22.191	(0.998)	9983668	10.0000	10.72
	24 Chrysene	228	22.294	22.294	(1.003)	9506218	10.0000	10.34
*	25 Perylene-d12	264	25.422	25.422	(1.000)	534584	1.00000	
	26 Benzo(b)fluoranthene	252	24.657	24.657	(0.970)	7848714	10.0000	10.63
	27 Benzo(k)fluoranthene	252	24.703	24.703	(0.972)	8127846	10.0000	11.01
	28 Benzo(a)pyrene	252	25.308	25.308	(0.996)	6600718	10.0000	10.85
	29 Indeno(1,2,3-cd)pyrene	276	27.466	27.466	(1.080)	4581178	10.0000	10.66
	30 Dibenz(a,h)anthracene	278	27.511	27.511	(1.082)	4457770	10.0000	10.95
	31 Benzo(g,h,i)perylene	276	27.957	27.957	(1.100)	4476890	10.0000	9.974



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Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Report Date: 22-Apr-2006 08:16

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Lab Smp Id: PAHCCV20.0PPM Client Smp ID: PAHCCV20.0PPM
Inj Date : 21-APR-2006 21:47 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHCCV20.0PPM;;;;;SV3490-13
Misc Info : ;;;;;;pahsurr.sub;3489
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 11 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.622	5.622	(1.000)	324325	1.00000	
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1113673	1.00000	
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	5844767	20.0000	20.50(A)
	5 Naphthalene	128	8.225	8.225	(1.004)	17633624	20.0000	16.52
	6 2-Methylnaphthalene	141	9.812	9.812	(1.198)	11836293	20.0000	20.32(A)
	7 1-Methylnaphthalene	141	10.063	10.063	(1.229)	12274146	20.0000	20.12(A)
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	665068	1.00000	
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	15413066	20.0000	19.21
	11 Acenaphthylene	152	11.913	11.913	(0.969)	18158725	20.0000	17.15
	12 Acenaphthene	153	12.369	12.369	(1.007)	13586065	20.0000	20.25(A)
	15 Fluorene	166	13.591	13.591	(1.106)	15882727	20.0000	20.09(A)
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1001093	1.00000	
	17 Phenanthrene	178	15.863	15.863	(1.004)	18888056	20.0000	17.22

4/21/06

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Data File: \\[illegible]
Report Date: 22-Apr-2006 08:16

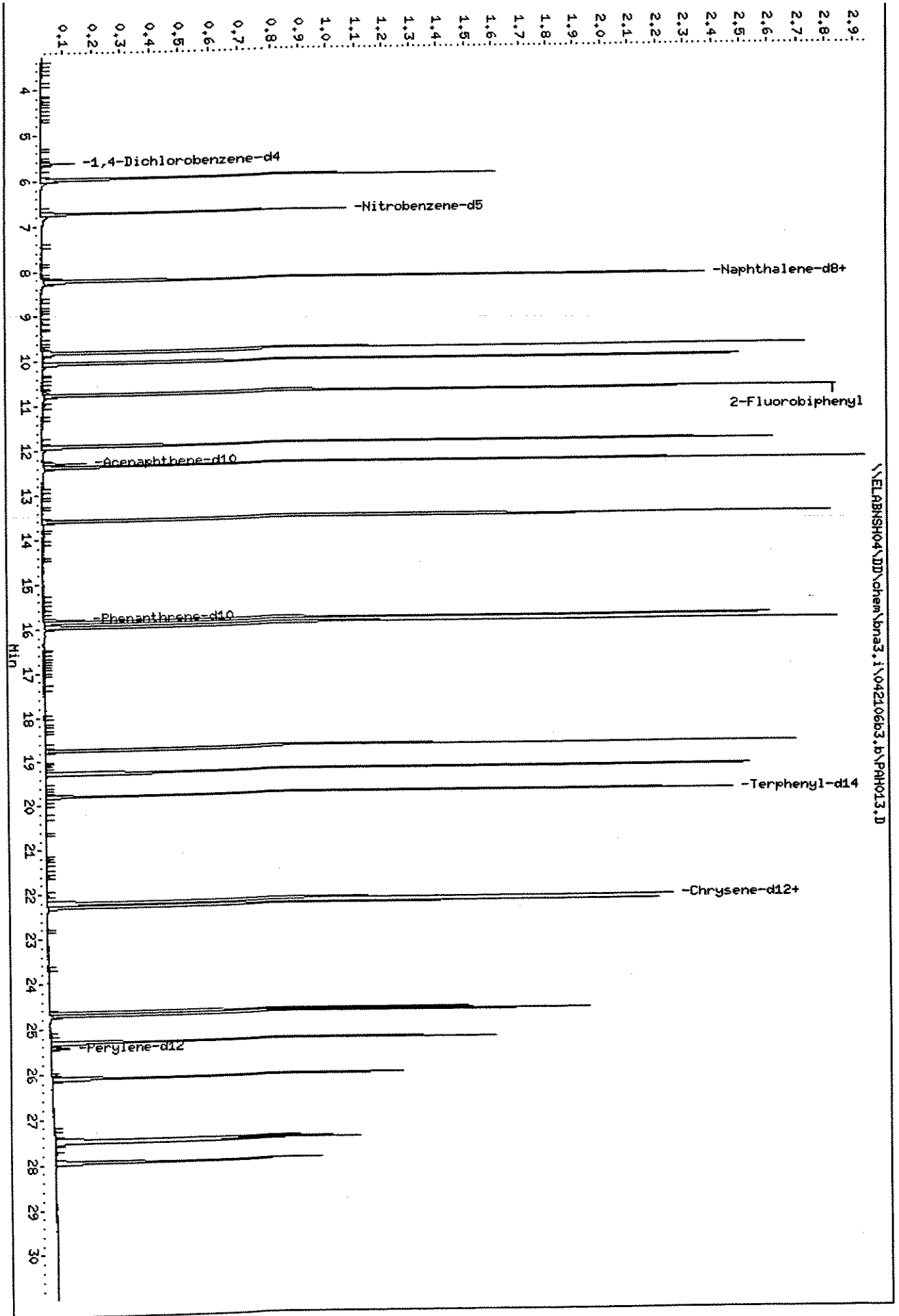
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	18 Anthracene	178	15.977	15.977	(1.011)	19023984	20.0000	17.99
	19 Fluoranthene	202	18.751	18.751	(1.186)	20013711	20.0000	18.00
*	20 Chrysene-d12	240	22.234	22.234	(1.000)	734542	1.00000	
	21 Pyrene	202	19.265	19.265	(0.866)	19784312	20.0000	18.12
$	22 Terphenyl-d14	244	19.802	19.802	(0.891)	14979344	20.0000	21.42(A)
	23 Benzo(a)anthracene	228	22.199	22.199	(0.998)	17871479	20.0000	20.89(A)
	24 Chrysene	228	22.302	22.302	(1.003)	16887934	20.0000	19.99
*	25 Perylene-d12	264	25.430	25.430	(1.000)	500206	1.00000	
	26 Benzo(b)fluoranthene	252	24.665	24.665	(0.970)	15131398	20.0000	21.91(A)
	27 Benzo(k)fluoranthene	252	24.711	24.711	(0.972)	14612083	20.0000	21.16(A)
	28 Benzo(a)pyrene	252	25.316	25.316	(0.996)	12605362	20.0000	22.15(A)
	29 Indeno(1,2,3-cd)pyrene	276	27.474	27.474	(1.080)	9064855	20.0000	22.53(A)
	30 Dibenz(a,h)anthracene	278	27.520	27.520	(1.082)	8730118	20.0000	22.93(A)
	31 Benzo(g,h,i)perylene	276	27.965	27.965	(1.100)	8639579	20.0000	20.57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAH013.D
Date : 21-APR-2006 21:47
Client ID: PAHCCV20.0PPM
Sample Info: PAHCCV20.0PPM;;;;;SV3490-13
Volume Injected (uL): 2.0
Column phase: fused silica

Instrument: bna3.i
Operator: ADM
Column diameter: 0.25



Empirical Laboratories

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 04/19/06 Time: 2340

Lab File ID: ICV050 Init. Calib. Date(s): 02/01/06 04/19/06

Init. Calib. Times: 1544 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.091	50.00	47.26		AVRG	-5.5	25.0
Acenaphthylene	1.682	1.824	50.00	54.24		AVRG	8.5	25.0
Anthracene	1.126	1.078	50.00	47.86		AVRG	-4.3	25.0
Benzo(a)anthracene	1.289	1.204	50.00	46.71		AVRG	-6.6	25.0
Benzo(b)fluoranthene	1.232	1.216	50.00	49.33		AVRG	-1.3	25.0
Benzo(k)fluoranthene	1.278	1.280	50.00	50.08		AVRG	0.2	25.0
Benzo(g,h,i)perylene	0.941	0.864	50.00	45.90		AVRG	-8.2	25.0
Benzo(a)pyrene	1.062	1.075	50.00	50.61		AVRG	1.2	25.0
Chrysene	1.177	1.084	50.00	46.03		AVRG	-7.9	25.0
Dibenz(a,h)anthracene	0.812	0.832	50.00	45.58		LINR	-8.8	25.0
Fluoranthene	1.129	1.088	50.00	48.18		AVRG	-3.6	25.0
Fluorene	1.234	1.152	50.00	46.66		AVRG	-6.7	25.0
Indeno(1,2,3-cd)pyrene	0.811	0.820	50.00	45.20		LINR	-9.6	25.0
2-Methylnaphthalene	0.572	0.552	50.00	48.30		AVRG	-3.4	25.0
1-Methylnaphthalene	0.527	0.470	50.00	0.0000		AVRG	-10.8	25.0
Naphthalene	0.994	0.928	50.00	46.63		AVRG	-6.7	25.0
Phenanthrene	1.140	1.076	50.00	47.19		AVRG	-5.6	25.0
Pyrene	1.597	1.445	50.00	45.22		AVRG	-9.6	25.0
Nitrobenzene-d5	0.437	0.454	50.00	51.93		AVRG	3.8	25.0
2-Fluorobiphenyl	1.273	1.226	50.00	48.17		AVRG	-3.6	25.0
Terphenyl-d14	1.010	0.932	50.00	46.15		AVRG	-7.7	25.0

ICV SV

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\ICV050.D
Report Date: 20-Apr-2006 14:29

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\ICV050.D
Lab Smp Id: ICV050PPM Client Smp ID: ICV050PPM
Inj Date : 19-APR-2006 23:40
Operator : ADM Inst ID: bna1.i
Smp Info : ICV050PPM;;;;;SV3355
Misc Info : ;;;;;ppbna.sub;3549
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\IXBN1.m
Meth Date : 20-Apr-2006 14:25 sburchfiel Quant Type: ISTD
Cal Date : 24-MAR-2006 02:57 Cal File: APPC100.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

4/20/06

5/1/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.910	4.914	(1.000)	400547	40.0000	
$ 2 2-Fluorophenol	112	4.007	4.014	(0.816)	739364	53.2906	53.29
$ 3 Phenol-d6	99	4.676	4.687	(0.952)	893946	53.9018	53.90
4 Pyridine	79	2.960	2.967	(0.603)	913930	51.1516	51.15
5 N-Nitroso-di-methylamine	42	2.974	2.980	(0.606)	421473	45.4845	45.48
6 Aniline	93	4.696	4.708	(0.956)	740594	77.4184	77.42
8 Phenol	94	4.683	4.702	(0.954)	930930	49.0835	49.08
9 bis(2-Chloroethyl)ether	93	4.737	4.749	(0.965)	779252	46.8964	46.90
10 2-Chlorophenol	128	4.779	4.783	(0.973)	666698	50.5930	50.59
11 1,3-Dichlorobenzene	146	4.883	4.886	(0.994)	717569	48.0080	48.01
12 1,4-Dichlorobenzene	146	4.924	4.928	(1.003)	667818	47.1090	47.11
13 Benzyl alcohol	108	5.040	5.051	(1.026)	438360	48.6060	48.61
14 1,2-Dichlorobenzene	146	5.074	5.079	(1.033)	679439	51.2894	51.29
15 2-Methylphenol	108	5.136	5.147	(1.046)	588344	47.8499	47.85

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\ICV050.D
Report Date: 20-Apr-2006 14:29

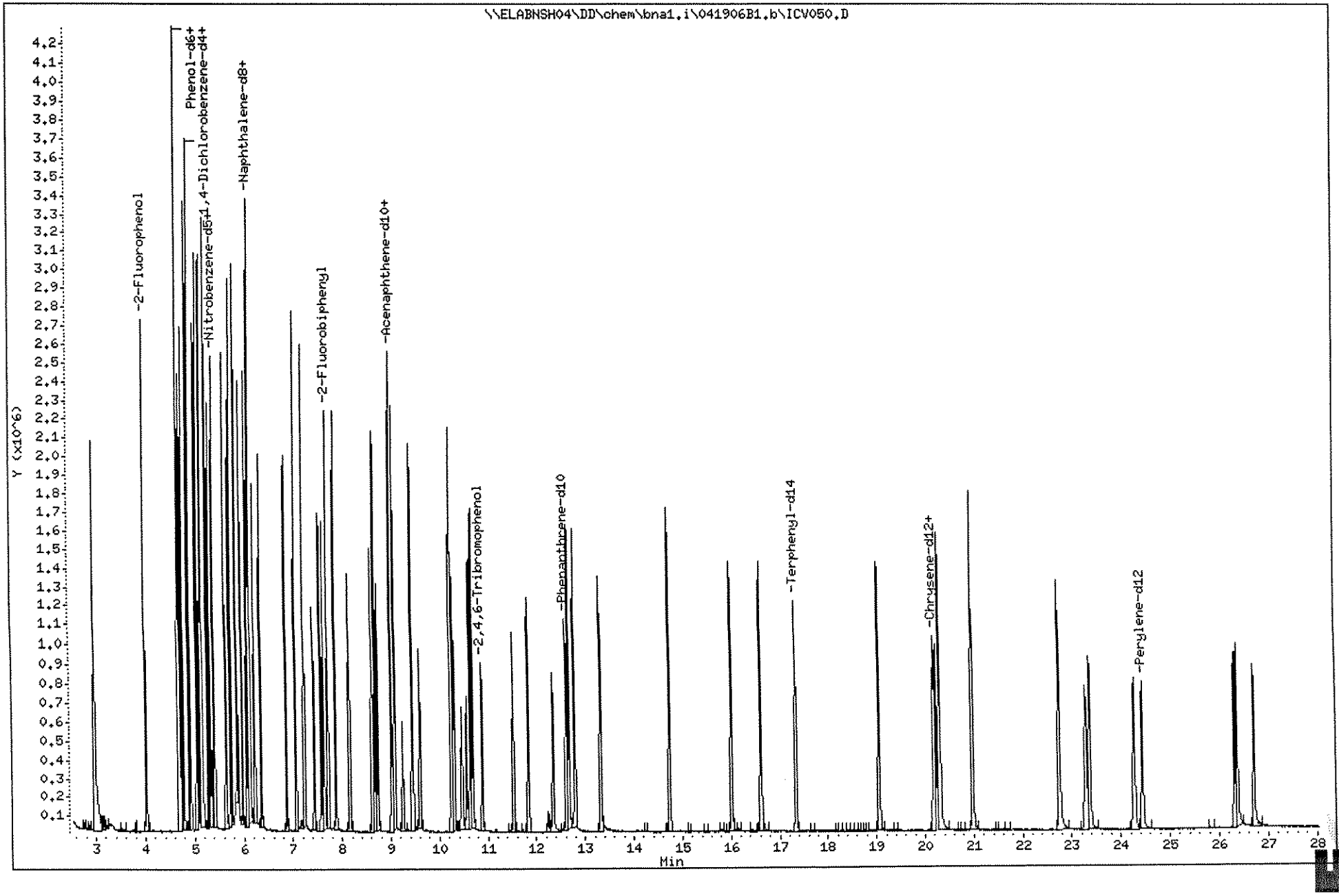
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	16 bis(2-Chloroisopropyl)ether	45	5.156	5.161	(1.050)	1574275	48.8068	48.81
	17 3-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6931	51.69
	18 4-Methylphenol	108	5.259	5.271	(1.071)	600572	51.6980	51.70
	19 N-Nitroso-di-n-propylamine	70	5.287	5.305	(1.077)	570973	49.6976	49.70
	20 Hexachloroethane	117	5.335	5.333	(1.087)	306393	48.5494	48.55
*	31 Naphthalene-d8	136	6.111	6.116	(1.000)	1246820	40.0000	
$	32 Nitrobenzene-d5	82	5.397	5.409	(0.883)	706793	51.9295	51.93
	33 Nitrobenzene	77	5.417	5.429	(0.887)	684749	49.6904	49.69
	35 Isophorone	82	5.637	5.656	(0.922)	1455528	49.5831	49.58
	36 2-Nitrophenol	139	5.719	5.725	(0.936)	381478	52.1794	52.18
	38 2,4-Dimethylphenol	107	5.753	5.766	(0.942)	529642	44.7906	44.79
	39 Benzoic acid	105	5.898	5.958	(0.965)	438381	52.7621	52.76
	40 bis(2-Chloroethoxy)methane	93	5.856	5.868	(0.958)	857091	48.5347	48.53
	43 2,4-Dichlorophenol	162	5.966	5.979	(0.976)	462113	47.3072	47.31
	46 1,2,4-Trichlorobenzene	180	6.062	6.068	(0.992)	490904	47.1047	47.10
	47 Naphthalene	128	6.138	6.143	(1.004)	1445608	46.6329	46.63
	48 4-Chloroaniline	127	6.227	6.226	(1.019)	694084	54.7375	54.74
	49 Hexachlorobutadiene	225	6.358	6.357	(1.040)	269347	51.0916	51.09
	50 4-Chloro-3-methylphenol	107	6.872	6.900	(1.125)	483354	49.5630	49.56
	51 2-Methylnaphthalene	141	7.064	7.072	(1.156)	860347	48.2994	48.30
*	65 Acenaphthene-d10	164	9.016	9.023	(1.000)	639570	40.0000	
	66 Hexachlorocyclopentadiene	237	7.435	7.436	(0.825)	238751	62.4728	62.47
	67 2,4,6-Trichlorophenol	196	7.572	7.594	(0.840)	308469	51.4165	51.42
	68 2,4,5-Trichlorophenol	196	7.634	7.662	(0.847)	323972	52.1267	52.13
	69 2-Chloronaphthalene	162	7.875	7.897	(0.873)	931870	51.5670	51.57
$	70 2-Fluorobiphenyl	172	7.724	7.731	(0.857)	980511	48.1750	48.17
	71 2-Nitroaniline	65	8.157	8.178	(0.905)	395379	56.1871	56.19
	72 Dimethylphthalate	163	8.624	8.645	(0.957)	1097747	48.4635	48.46
	73 Acenaphthylene	152	8.686	8.700	(0.963)	1458654	54.2438	54.24
	74 2,6-Dinitrotoluene	165	8.741	8.762	(0.969)	265325	53.4445	53.44
	75 3-Nitroaniline	138	9.023	9.058	(1.001)	302450	54.8499	54.85
	76 Acenaphthene	153	9.092	9.106	(1.008)	872375	47.2620	47.26
	77 2,4-Dinitrophenol	184	9.243	9.270	(1.025)	140791	55.4040	55.40
	79 4-Nitrophenol	65	9.456	9.504	(1.049)	205414	54.0023	54.00
	80 Dibenzofuran	168	9.442	9.462	(1.047)	1218226	47.6281	47.63
	81 2,4-Dinitrotoluene	165	9.607	9.634	(1.066)	328399	52.2502	52.25
	82 Diethylphthalate	149	10.267	10.294	(1.139)	1037178	47.7896	47.79
	83 4-Chlorophenyl-phenylether	204	10.315	10.328	(1.144)	401589	47.6214	47.62
	84 Fluorene	166	10.247	10.259	(1.136)	921265	46.6649	46.66
	85 4-Nitroaniline	138	10.466	10.513	(1.161)	275045	58.1425	58.14
*	98 Phenanthrene-d10	188	12.614	12.629	(1.000)	848846	40.0000	
	99 1,2-Diphenylhydrazine	77	10.699	10.720	(0.848)	1416542	49.6502	49.65
	100 Carbazole	167	13.330	13.352	(1.057)	1131235	48.4941	48.49
	101 4,6-Dinitro-2-methylphenol	198	10.569	10.609	(0.838)	185817	53.8581	53.86
	102 N-Nitrosodiphenylamine	169	10.644	10.672	(0.844)	637280	47.8584	47.86
$	103 2,4,6-Tribromophenol	330	10.884	10.920	(0.863)	170865	54.5621	54.56
	104 4-Bromophenyl-phenylether	248	11.528	11.545	(0.914)	234436	40.5877	40.59

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\ICV050.D
Report Date: 20-Apr-2006 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
105 Hexachlorobenzene	284	11.837	11.854	(0.938)	303002	47.6463	47.65
106 Pentachlorophenol	266	12.347	12.361	(0.979)	203601	50.4905	50.49
107 Phenanthrene	178	12.677	12.705	(1.005)	1142074	47.1884	47.19
108 Anthracene	178	12.800	12.823	(1.015)	1143543	47.8586	47.86
110 Di-n-butylphthalate	149	14.739	14.753	(1.168)	1907934	48.4156	48.42
111 Fluoranthene	202	16.016	16.042	(1.270)	1154345	48.1752	48.18
* 127 Chrysene-d12	240	20.234	20.256	(1.000)	658581	40.0000	
129 Pyrene	202	16.624	16.647	(0.822)	1189297	45.2180	45.22
$ 130 Terphenyl-d14	244	17.338	17.355	(0.857)	767441	46.1479	46.15
131 Butylbenzylphthalate	149	19.058	19.072	(0.942)	813722	49.7480	49.75
132 3,3'-Dichlorobenzidine	252	20.324	20.349	(1.004)	301186	51.8399	51.84
133 Benzo(a)anthracene	228	20.185	20.214	(0.998)	991085	46.7062	46.71
134 Chrysene	228	20.310	20.338	(1.004)	892181	46.0340	46.03
135 Bis(2-ethylhexyl)phthalate	149	20.981	20.992	(1.037)	1056866	49.5033	49.50
* 149 Perylene-d12	264	24.441	24.462	(1.000)	582226	40.0000	
150 Di-n-octylphthalate	149	22.744	22.759	(0.931)	1682049	51.9706	51.97
151 Benzo(b)fluoranthene	252	23.286	23.328	(0.953)	884827	49.3350	49.33
152 Benzo(k)fluoranthene	252	23.376	23.425	(0.956)	931839	50.0781	50.08
153 Benzo(a)pyrene	252	24.284	24.317	(0.994)	782660	50.6069	50.61
154 Indeno(1,2,3-cd)pyrene	276	26.319	26.346	(1.077)	596463	45.2040	45.20
155 Dibenz(a,h)anthracene	278	26.375	26.401	(1.079)	605494	45.5821	45.58
156 Benzo(g,h,i)perylene	276	26.718	26.744	(1.093)	628573	45.9049	45.90

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\ICV050.D
Date : 19-APR-2006 23:40
Client ID: ICV050PPM
Instrument: bna1.i
Sample Info: ICV050PPM;;;;;SV3355
Volume Injected (uL): 0.5
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

000381



Empirical Laboratories

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date: 04/21/06 Time: 2227

Lab File ID: PAHICV Init. Calib. Date(s): 03/11/06 04/21/06

Init. Calib. Times: 1210 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.008	0.974	5.000	4.830		AVRG	-3.4	25.0
Acenaphthylene	1.592	1.596	5.000	5.012		AVRG	0.2	25.0
Anthracene	1.056	1.062	5.000	5.027		AVRG	0.5	25.0
Benzo(a)anthracene	1.164	1.171	5.000	5.027		AVRG	0.5	25.0
Benzo(b)fluoranthene	1.381	1.409	5.000	5.104		AVRG	2.1	25.0
Benzo(k)fluoranthene	1.381	1.425	5.000	5.159		AVRG	3.2	25.0
Benzo(g,h,i)perylene	0.839	0.790	5.000	4.706		AVRG	-5.9	25.0
Benzo(a)pyrene	1.138	1.113	5.000	4.893		AVRG	-2.1	25.0
Chrysene	1.150	1.136	5.000	4.938		AVRG	-1.2	25.0
Dibenz(a,h)anthracene	0.761	0.787	5.000	5.171		AVRG	3.4	25.0
Fluoranthene	1.111	1.140	5.000	5.133		AVRG	2.7	25.0
Fluorene	1.189	1.184	5.000	4.979		AVRG	-0.4	25.0
Indeno(1,2,3-cd)pyrene	0.804	0.810	5.000	5.038		AVRG	0.8	25.0
2-Methylnaphthalene	0.523	0.556	5.000	5.310		AVRG	6.2	25.0
1-Methylnaphthalene	0.548	0.574	5.000	5.244		AVRG	4.9	25.0
Naphthalene	0.958	0.945	5.000	4.928		AVRG	-1.4	25.0
Phenanthrene	1.096	1.063	5.000	4.848		AVRG	-3.0	25.0
Pyrene	1.486	1.588	5.000	5.344		AVRG	6.9	25.0
Nitrobenzene-d5	0.186	0.247	5.000	4.820		LINR	-3.6	25.0
2-Fluorobiphenyl	1.206	1.232	5.000	5.105		AVRG	2.1	25.0
Terphenyl-d14	0.952	0.998	5.000	5.241		AVRG	4.8	25.0

ICV SV

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Lab Smp Id: PAHICV5.0PPM Client Smp ID: PAHICV5.0PPM
Inj Date : 21-APR-2006 22:27 MS Autotune Date: 19-APR-2006 07:41
Operator : ADM Inst ID: bna3.i
Smp Info : PAHICV5.0PPM;;;;;SV3397
Misc Info : ;;;;;;pahsurr.sub;3353
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHLOWS.m
Meth Date : 22-Apr-2006 08:16 sburchfiel Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Amt	15.000	Mass of initial extraction
Solids	100.000	Percent Solids

4/22/06

(C) 4/23/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (SV3397)	
*	1 1,4-Dichlorobenzene-d4	152	5.623	5.622	(1.000)	353000	1.00000		(QM)
*	3 Naphthalene-d8	136	8.191	8.191	(1.000)	1305757	1.00000		
$	4 Nitrobenzene-d5	82	6.730	6.730	(0.822)	1610691	4.81954	160.6	(R)
	5 Naphthalene	128	8.226	8.225	(1.004)	6168065	4.92769	164.2	
	6 2-Methylnaphthalene	141	9.801	9.812	(1.197)	3626953	5.31008	177.0	
	7 1-Methylnaphthalene	141	10.052	10.063	(1.227)	3750314	5.24437	174.8	
*	8 Acenaphthene-d10	164	12.290	12.290	(1.000)	802342	1.00000		
$	10 2-Fluorobiphenyl	172	10.760	10.760	(0.876)	4940600	5.10501	170.2	(R)
	11 Acenaphthylene	152	11.913	11.913	(0.969)	6402837	5.01155	167.0	
	12 Acenaphthene	153	12.370	12.369	(1.007)	3908464	4.82979	161.0	
	15 Fluorene	166	13.580	13.591	(1.105)	4749777	4.97942	166.0	
*	16 Phenanthrene-d10	188	15.806	15.806	(1.000)	1215373	1.00000		
	17 Phenanthrene	178	15.863	15.863	(1.004)	6457340	4.84790	161.6	

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Report Date: 22-Apr-2006 08:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (SV3397)
	18 Anthracene	178	15.966	15.977	(1.010)	6452415	5.02675	167.6
	19 Fluoranthene	202	18.740	18.751	(1.186)	6929091	5.13329	171.1
*	20 Chrysene-d12	240	22.223	22.234	(1.000)	889243	1.00000	
	21 Pyrene	202	19.266	19.265	(0.867)	7062998	5.34432	178.1
$	22 Terphenyl-d14	244	19.791	19.802	(0.891)	4437355	5.24129	174.7(R)
	23 Benzo(a)anthracene	228	22.188	22.199	(0.998)	5205413	5.02666	167.6
	24 Chrysene	228	22.291	22.302	(1.003)	5049629	4.93854	164.6
*	25 Perylene-d12	264	25.431	25.430	(1.000)	574826	1.00000	
	26 Benzo(b)fluoranthene	252	24.654	24.665	(0.969)	4050622	5.10368	170.1
	27 Benzo(k)fluoranthene	252	24.700	24.711	(0.971)	4094738	5.15905	172.0
	28 Benzo(a)pyrene	252	25.305	25.316	(0.995)	3200053	4.89335	163.1
	29 Indeno(1,2,3-cd)pyrene	276	27.463	27.474	(1.080)	2329096	5.03786	167.9(M)
	30 Dibenz(a,h)anthracene	278	27.509	27.520	(1.082)	2262420	5.17065	172.4
	31 Benzo(g,h,i)perylene	276	27.954	27.965	(1.099)	2271292	4.70606	156.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Date : 21-APR-2006 22:27
Client ID: PAHICV5.0PPM
Instrument: bna3.i
Sample Info: PAHICV5.0PPM;;;;;SV3397
Volume Injected (uL): 2.0
Operator: ADM
Column phase: fused silica
Column diameter: 0.25

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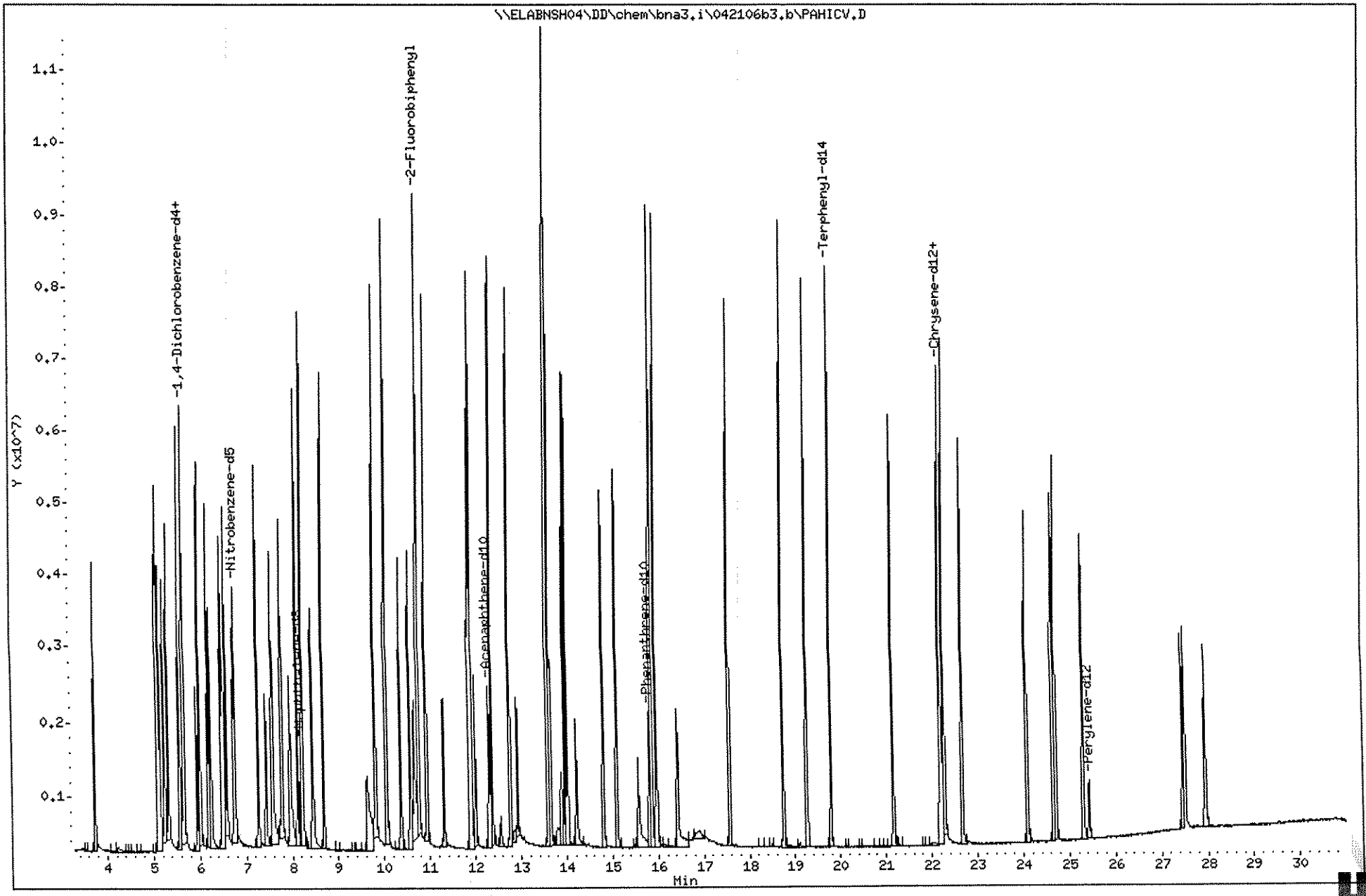
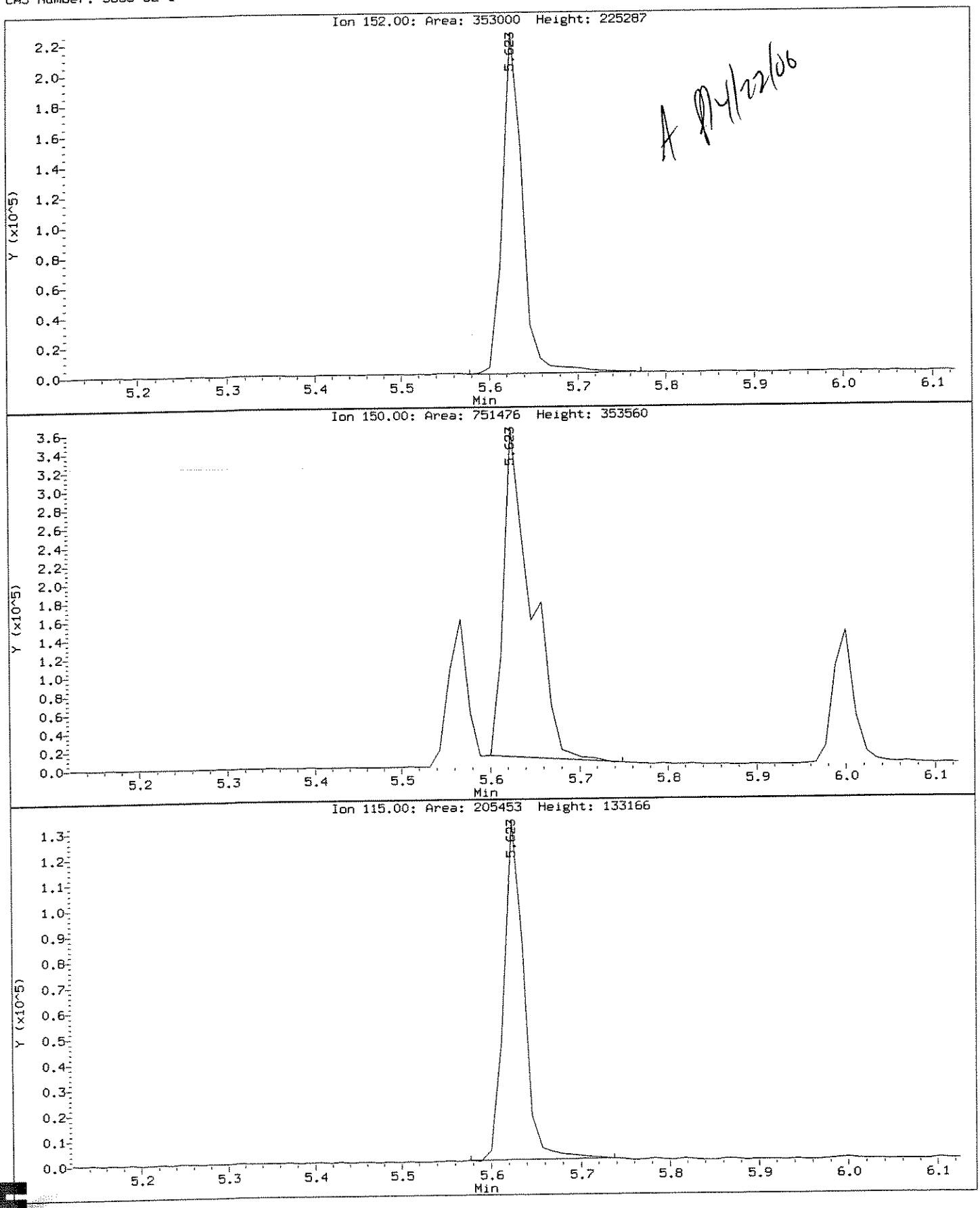


Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\PAHICV.D
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.0PPM

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1



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Empirical Laboratories

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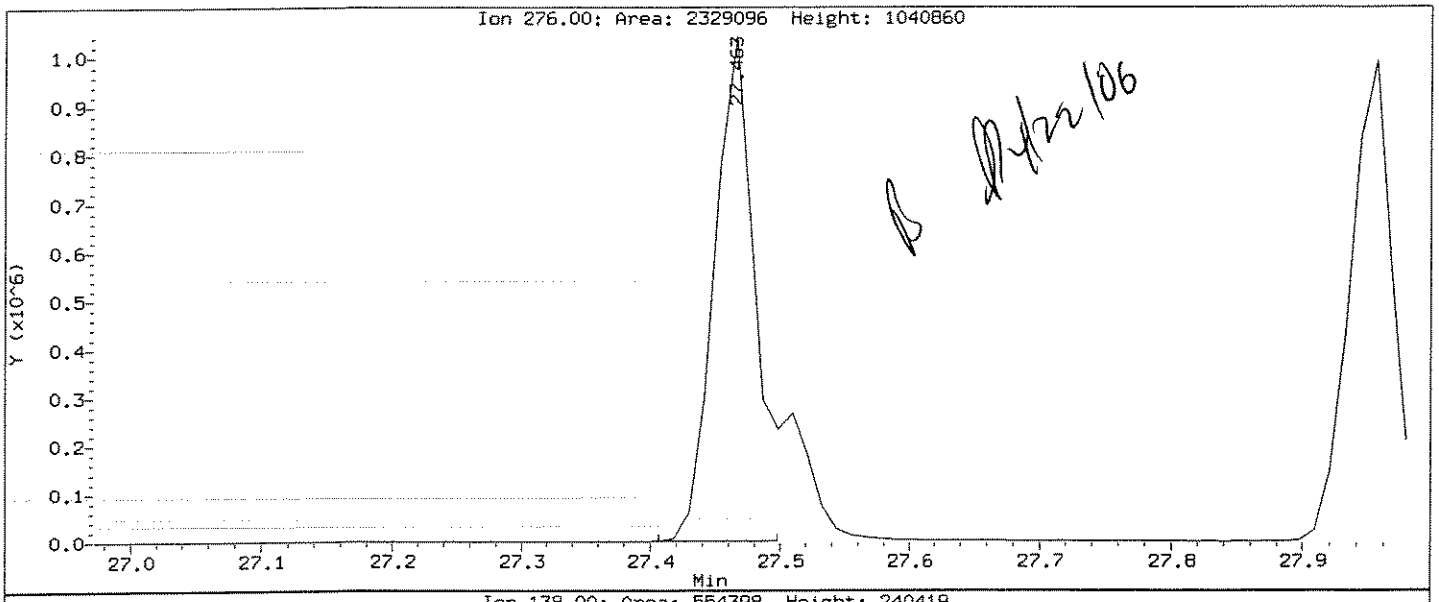
Injection Date: 21-APR-2006 22:27
Instrument: bna3.i
Client Sample ID: PAHICV5.0PPM

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



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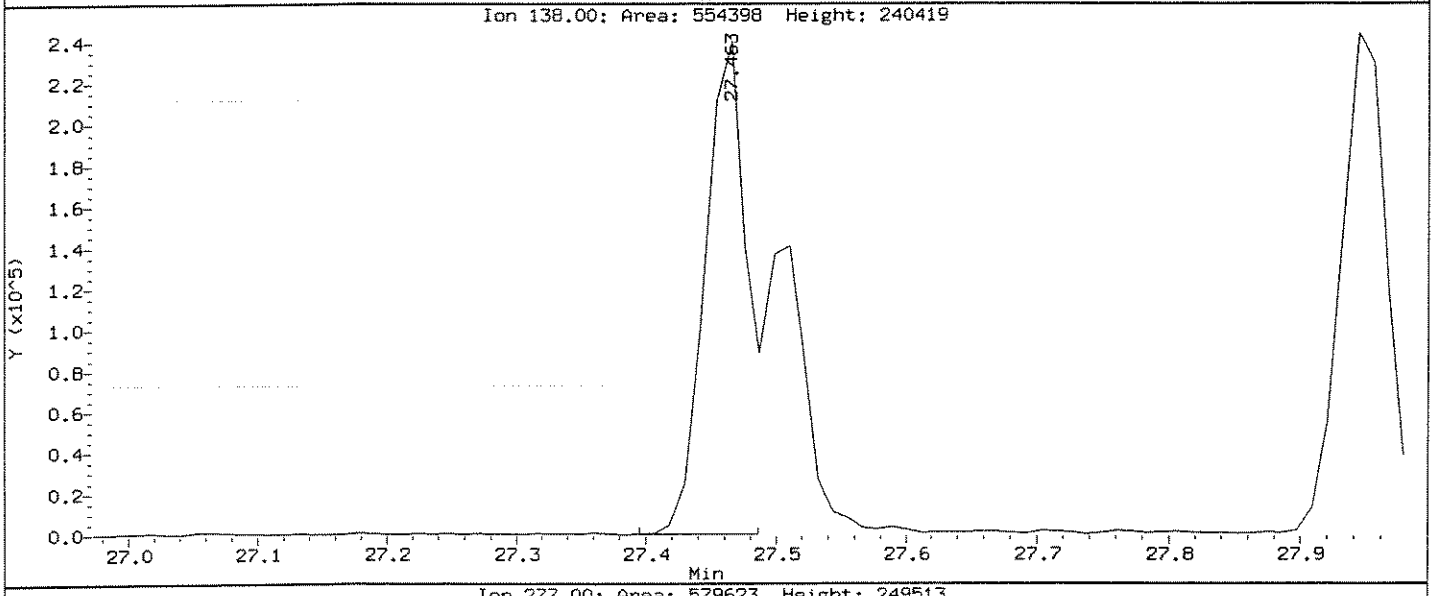
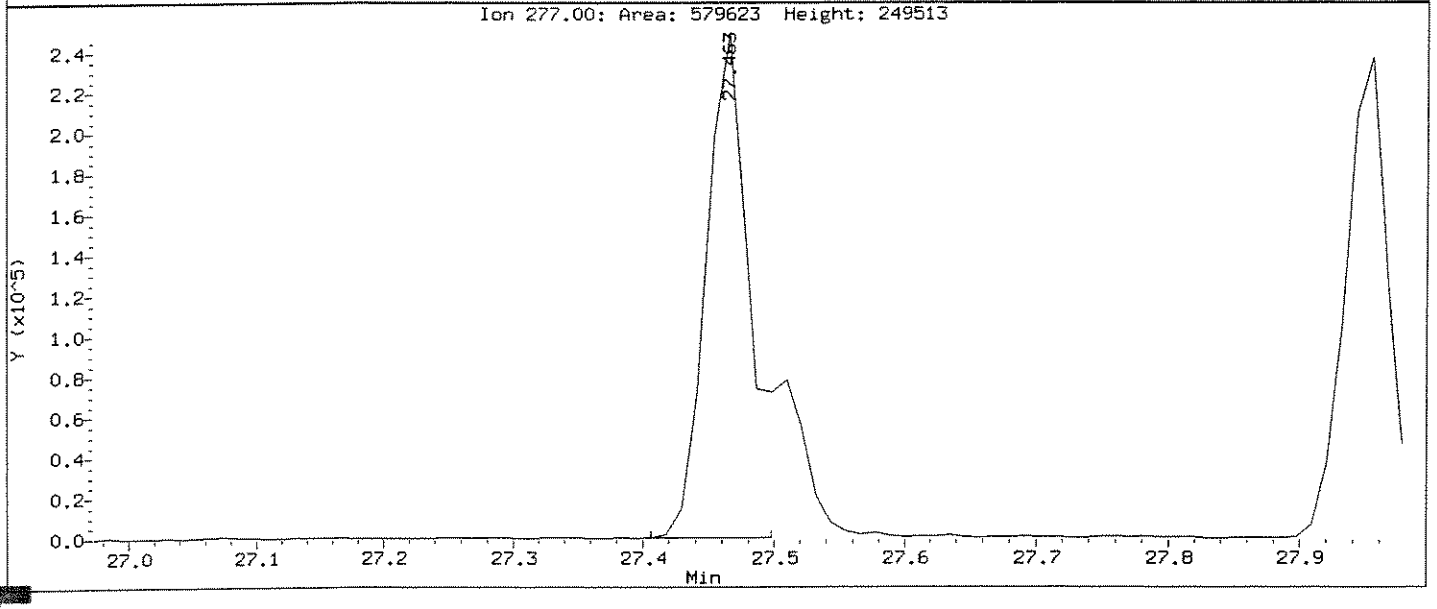




FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/26/06 Time: 1237

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.065	50.00	46.11		AVRG	-7.8	20.0
Acenaphthylene	1.682	1.499	50.00	44.56		AVRG	-10.9	
Acetophenone	1.639	1.800	50.00	54.90		AVRG	9.8	
Aniline	1.729	1.833	50.00	108.1		2ORDR	116.2	
Anthracene	1.126	1.102	50.00	48.92		AVRG	-2.2	
Atrazine	0.229	0.199	50.00	43.28		AVRG	-13.4	
Benzaldehyde	1.123	0.785	50.00	34.96		AVRG	-30.1	
Benzidine	0.802	0.199	50.00	12.42		AVRG	-75.2	
Benzoic acid	0.244	0.292	50.00	54.46		2ORDR	8.9	
Benzo(a)anthracene	1.289	1.374	50.00	53.31		AVRG	6.6	
Benzo(b)fluoranthene	1.232	1.168	50.00	47.39		AVRG	-5.2	
Benzo(k)fluoranthene	1.278	1.185	50.00	46.34		AVRG	-7.3	
Benzo(g,h,i)perylene	0.941	0.793	50.00	42.13		AVRG	-15.7	
Benzo(a)pyrene	1.062	1.104	50.00	51.98		AVRG	4.0	20.0
Benzyl alcohol	0.901	0.775	50.00	43.03		AVRG	-13.9	
1,1'-Biphenyl	1.420	1.313	50.00	46.25		AVRG	-7.5	
bis(2-Chloroethoxy)methane	0.566	0.489	50.00	43.16		AVRG	-13.7	
bis(2-Chloroethyl)ether	1.659	1.574	50.00	47.43		AVRG	-5.1	
bis(2-Chloroisopropyl)ether	3.221	3.217	50.00	49.93		AVRG	-0.1	
Bis(2-ethylhexyl)phthalate	1.297	1.460	50.00	56.31		AVRG	12.6	
4-Bromophenyl-phenylether	0.272	0.261	50.00	47.94		AVRG	-4.1	
Butylbenzylphthalate	0.993	1.200	50.00	60.39		AVRG	20.8	
4-Chloroaniline	0.407	0.390	50.00	47.94		AVRG	-4.1	
Carbazole	1.099	0.831	50.00	37.81		AVRG	-24.4	
Caprolactam	0.114	0.118	50.00	51.80		AVRG	3.6	
4-Chloro-3-methylphenol	0.313	0.314	50.00	50.23		AVRG	0.4	20.0
2-Chloronaphthalene	1.130	1.126	50.00	49.80		AVRG	-0.4	
2-Chlorophenol	1.316	1.391	50.00	52.85		AVRG	5.7	
4-Chlorophenyl-phenylether	0.527	0.453	50.00	42.98		AVRG	-14.0	
Chrysene	1.177	1.121	50.00	47.62		AVRG	-4.8	
Dibenz(a,h)anthracene	0.812	0.756	50.00	41.43		LINR	-17.1	
Dibenzofuran	1.600	1.454	50.00	45.43		AVRG	-9.1	
1,2-Dichlorobenzene	1.323	1.210	50.00	45.72		AVRG	-8.6	
1,4-Dichlorobenzene	1.416	1.409	50.00	49.76		AVRG	-0.5	20.0
1,3-Dichlorobenzene	1.492	1.476	50.00	49.45		AVRG	-1.1	
3,3'-Dichlorobenzidine	0.353	0.283	50.00	40.17		AVRG	-19.7	
2,4-Dichlorophenol	0.313	0.300	50.00	47.92		AVRG	-4.2	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/26/06 Time: 1237

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.320	50.00	48.62		AVRG	-2.8	
2,4-Dimethylphenol	0.379	0.375	50.00	49.45		AVRG	-1.1	
Dimethylphthalate	1.417	1.329	50.00	46.89		AVRG	-6.2	
Di-n-butylphthalate	1.857	1.958	50.00	52.71		AVRG	5.4	
4,6-Dinitro-2-methylphenol	0.149	0.173	50.00	53.25		2ORDR	6.5	
2,4-Dinitrophenol	0.144	0.181	50.00	56.78	0.050	2ORDR	13.6	
2,4-Dinitrotoluene	0.393	0.384	50.00	48.81		AVRG	-2.4	
2,6-Dinitrotoluene	0.310	0.311	50.00	50.10		AVRG	0.2	
1,2-Diphenylhydrazine	1.344	1.408	50.00	52.35		AVRG	4.7	
Di-n-octylphthalate	2.224	2.427	50.00	54.57		AVRG	9.1	20.0
Fluoranthene	1.129	1.040	50.00	46.04		AVRG	-7.9	20.0
Fluorene	1.234	1.112	50.00	45.02		AVRG	-10.0	
Hexachlorobenzene	0.300	0.293	50.00	48.83		AVRG	-2.3	
Hexachlorobutadiene	0.169	0.173	50.00	51.16		AVRG	2.3	20.0
Hexachlorocyclopentadiene	0.206	0.207	50.00	43.36	0.050	LINR	-13.3	
Hexachloroethane	0.630	0.616	50.00	48.85		AVRG	-2.3	
Indeno(1,2,3-cd)pyrene	0.811	0.830	50.00	45.77		LINR	-8.5	
Isophorone	0.942	0.882	50.00	46.82		AVRG	-6.4	
2-Methylnaphthalene	0.572	0.501	50.00	43.83		AVRG	-12.3	
2-Methylphenol	1.228	1.192	50.00	48.55		AVRG	-2.9	
3-Methylphenol	1.160	1.004	50.00	43.25		AVRG	-13.5	
Naphthalene	0.994	0.897	50.00	45.11		AVRG	-9.8	
4-Methylphenol	1.160	1.004	50.00	43.26		AVRG	-13.5	
2-Nitroaniline	0.440	0.508	50.00	57.70		AVRG	15.4	
3-Nitroaniline	0.345	0.288	50.00	41.73		AVRG	-16.5	
4-Nitroaniline	0.296	0.225	50.00	38.00		AVRG	-24.0	
Nitrobenzene	0.442	0.469	50.00	53.09		AVRG	6.2	
2-Nitrophenol	0.235	0.245	50.00	52.24		AVRG	4.5	20.0
4-Nitrophenol	0.238	0.286	50.00	60.02	0.050	AVRG	20.0	
N-Nitroso-di-methylamine	0.925	0.987	50.00	53.33		AVRG	6.7	
N-Nitrosodiphenylamine(1)	0.627	0.532	50.00	42.43		AVRG	-15.1	20.0
N-Nitroso-di-n-propylamine	1.147	1.053	50.00	45.88	0.050	AVRG	-8.2	
Pentachlorophenol	0.190	0.194	50.00	51.14		AVRG	2.3	20.0
Phenanthrene	1.140	1.062	50.00	46.55		AVRG	-6.9	
Phenol	1.894	1.822	50.00	48.11		AVRG	-3.8	20.0
Pyrene	1.597	1.547	50.00	48.42		AVRG	-3.2	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/26/06 Time: 1237

Lab File ID: CCV050 Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	2.026	50.00	56.77		AVRG	13.5	
1,2,4-Trichlorobenzene	0.334	0.302	50.00	45.14		AVRG	-9.7	
2,4,5-Trichlorophenol	0.388	0.402	50.00	51.68		AVRG	3.4	
2,4,6-Trichlorophenol	0.375	0.394	50.00	52.45		AVRG	4.9	20.0
2-Fluorophenol	1.386	1.429	100.0	103.2		AVRG	3.2	
Phenol-d6	1.656	1.543	100.0	93.16		AVRG	-6.8	
Nitrobenzene-d5	0.437	0.487	50.00	55.76		AVRG	11.5	
2-Fluorobiphenyl	1.273	1.194	50.00	46.88		AVRG	-6.2	
2,4,6-Tribromophenol	0.147	0.174	100.0	118.0		AVRG	18.0	
Terphenyl-d14	1.010	1.099	50.00	54.42		AVRG	8.8	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Report Date: 27-Jul-2006 06:35

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Lab Smp Id: CCV050PPM Client Smp ID: CCV050PPM
Inj Date : 26-JUL-2006 12:37
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3640
Misc Info : ;;;;;ppbna.sub;3627
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 06:34 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

M 7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1	1,4-Dichlorobenzene-d4	152	4.120	4.120	(1.000)	414791	40.0000	
$ 2	2-Fluorophenol	112	3.192	3.192	(0.775)	1482315	100.000	103.2(A)
$ 3	Phenol-d6	99	3.955	3.955	(0.960)	1599979	100.000	93.16
4	Pyridine	79	1.751	1.751	(0.425)	1050338	50.0000	56.77
5	N-Nitroso-di-methylamine	42	1.785	1.785	(0.433)	511761	50.0000	53.33
6	Aniline	93	3.913	3.913	(0.950)	950472	50.0000	108.1(AQ)
8	Phenol	94	3.961	3.961	(0.962)	944957	50.0000	48.11
9	bis(2-Chloroethyl)ether	93	3.975	3.975	(0.965)	816229	50.0000	47.43
10	2-Chlorophenol	128	3.996	3.996	(0.970)	721218	50.0000	52.85
11	1,3-Dichlorobenzene	146	4.085	4.085	(0.992)	765372	50.0000	49.45
12	1,4-Dichlorobenzene	146	4.127	4.127	(1.002)	730567	50.0000	49.76
13	Benzyl alcohol	108	4.264	4.264	(1.035)	401840	50.0000	43.03
14	1,2-Dichlorobenzene	146	4.264	4.264	(1.035)	627184	50.0000	45.72

PW 7-27-06

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Report Date: 27-Jul-2006 06:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	15 2-Methylphenol	108	4.381	4.381	(1.063)	618163	50.0000	48.55
	16 bis(2-Chloroisopropyl)ether	45	4.367	4.367	(1.060)	1667830	50.0000	49.93
	17 3-Methylphenol	108	4.484	4.484	(1.088)	520403	50.0000	43.25
	18 4-Methylphenol	108	4.484	4.484	(1.088)	520403	50.0000	43.26
	19 N-Nitroso-di-n-propylamine	70	4.477	4.477	(1.087)	545856	50.0000	45.88
	20 Hexachloroethane	117	4.484	4.484	(1.088)	319267	50.0000	48.85
	30 Benzaldehyde	106	3.796	3.796	(0.922)	407217	50.0000	34.96
*	31 Naphthalene-d8	136	5.088	5.088	(1.000)	1312052	40.0000	
$	32 Nitrobenzene-d5	82	4.553	4.553	(0.895)	798708	50.0000	55.76
	33 Nitrobenzene	77	4.567	4.567	(0.898)	769822	50.0000	53.09
	35 Isophorone	82	4.745	4.745	(0.933)	1446252	50.0000	46.82
	36 2-Nitrophenol	139	4.800	4.800	(0.943)	401892	50.0000	52.24
	38 2,4-Dimethylphenol	107	4.868	4.868	(0.957)	615343	50.0000	49.45(M)
	39 Benzoic acid	105	5.012	5.012	(0.985)	478704	50.0000	54.46(M)
	40 bis(2-Chloroethoxy)methane	93	4.930	4.930	(0.969)	802067	50.0000	43.16
	43 2,4-Dichlorophenol	162	5.005	5.005	(0.984)	492613	50.0000	47.92
	46 1,2,4-Trichlorobenzene	180	5.060	5.060	(0.995)	495086	50.0000	45.14
	47 Naphthalene	128	5.108	5.108	(1.004)	1471523	50.0000	45.11
	48 4-Chloroaniline	127	5.191	5.191	(1.020)	639764	50.0000	47.94
	49 Hexachlorobutadiene	225	5.287	5.287	(1.039)	283850	50.0000	51.16
	50 4-Chloro-3-methylphenol	107	5.739	5.739	(1.128)	515468	50.0000	50.23
	51 2-Methylnaphthalene	141	5.815	5.815	(1.143)	821555	50.0000	43.83
	53 Acetophenone	105	4.450	4.450	(1.080)	933317	50.0000	54.90
	64 Caprolactam	113	5.555	5.555	(1.092)	193702	50.0000	51.80
*	65 Acenaphthene-d10	164	7.382	7.382	(1.000)	668065	40.0000	
	66 Hexachlorocyclopentadiene	237	6.111	6.111	(0.828)	173074	50.0000	43.36
	67 2,4,6-Trichlorophenol	196	6.241	6.241	(0.846)	328693	50.0000	52.45
	68 2,4,5-Trichlorophenol	196	6.304	6.304	(0.854)	335530	50.0000	51.68
	69 2-Chloronaphthalene	162	6.447	6.447	(0.873)	940065	50.0000	49.80
$	70 2-Fluorobiphenyl	172	6.345	6.345	(0.860)	996705	50.0000	46.88
	71 2-Nitroaniline	65	6.695	6.695	(0.907)	424080	50.0000	57.70
	72 Dimethylphthalate	163	7.100	7.100	(0.962)	1109492	50.0000	46.89
	73 Acenaphthylene	152	7.100	7.100	(0.962)	1251540	50.0000	44.56
	74 2,6-Dinitrotoluene	165	7.189	7.189	(0.974)	259826	50.0000	50.10
	75 3-Nitroaniline	138	7.416	7.416	(1.005)	240349	50.0000	41.73
	76 Acenaphthene	153	7.437	7.437	(1.007)	889095	50.0000	46.11
	77 2,4-Dinitrophenol	184	7.609	7.609	(1.031)	151542	50.0000	56.78
	79 4-Nitrophenol	65	7.891	7.891	(1.069)	238490	50.0000	60.02
	80 Dibenzofuran	168	7.746	7.746	(1.049)	1213890	50.0000	45.43
	81 2,4-Dinitrotoluene	165	7.912	7.912	(1.072)	320471	50.0000	48.81
	82 Diethylphthalate	149	8.523	8.523	(1.155)	1102207	50.0000	48.62
	83 4-Chlorophenyl-phenylether	204	8.523	8.523	(1.155)	378623	50.0000	42.98
	84 Fluorene	166	8.434	8.434	(1.143)	928287	50.0000	45.02
	85 4-Nitroaniline	138	8.667	8.667	(1.174)	187749	50.0000	38.00
	96 1,1'-Biphenyl	154	6.461	6.461	(0.875)	1096717	50.0000	46.25
*	97 Phenanthrene-d10	188	10.583	10.583	(1.000)	851934	40.0000	
	98 1,2-Diphenylhydrazine	77	8.866	8.866	(0.838)	1499045	50.0000	52.35

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Report Date: 27-Jul-2006 06:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	99 Carbazole	167	11.297	11.297	(1.067)	885192	50.0000	37.81
	100 4,6-Dinitro-2-methylphenol	198	8.770	8.770	(0.829)	184061	50.0000	53.25
	101 N-Nitrosodiphenylamine	169	8.838	8.838	(0.835)	567097	50.0000	42.43
$	102 2,4,6-Tribromophenol	330	9.024	9.024	(0.853)	370918	100.000	118.0(A)
	103 4-Bromophenyl-phenylether	248	9.621	9.621	(0.909)	277934	50.0000	47.94
	104 Hexachlorobenzene	284	9.875	9.875	(0.933)	311669	50.0000	48.83
	105 Pentachlorophenol	266	10.383	10.383	(0.981)	206950	50.0000	51.14
	106 Phenanthrene	178	10.645	10.645	(1.006)	1130675	50.0000	46.55
	107 Anthracene	178	10.755	10.755	(1.016)	1173144	50.0000	48.92
	109 Di-n-butylphthalate	149	12.739	12.739	(1.204)	2084856	50.0000	52.71
	110 Fluoranthene	202	13.814	13.814	(1.305)	1107154	50.0000	46.04
	123 Atrazine	200	10.348	10.348	(0.978)	211522	50.0000	43.28
*	124 Chrysene-d12	240	17.933	17.933	(1.000)	535645	40.0000	
	125 Benzidine	184	14.445	14.445	(0.806)	133409	50.0000	12.42(a)
	126 Pyrene	202	14.390	14.390	(0.802)	1035787	50.0000	48.42
$	127 Terphenyl-d14	244	15.177	15.177	(0.846)	736038	50.0000	54.42
	128 Butylbenzylphthalate	149	16.936	16.936	(0.944)	803435	50.0000	60.39
	129 3,3'-Dichlorobenzidine	252	18.098	18.098	(1.009)	189806	50.0000	40.17
	130 Benzo(a)anthracene	228	17.885	17.885	(0.997)	920046	50.0000	53.31
	131 Chrysene	228	18.002	18.002	(1.004)	750649	50.0000	47.62
	132 Bis(2-ethylhexyl)phthalate	149	18.892	18.892	(1.053)	977713	50.0000	56.31
*	145 Perylene-d12	264	21.736	21.736	(1.000)	501921	40.0000	
	146 Di-n-octylphthalate	149	20.597	20.597	(0.948)	1522518	50.0000	54.57
	147 Benzo(b)fluoranthene	252	20.823	20.823	(0.958)	732729	50.0000	47.39
	148 Benzo(k)fluoranthene	252	20.893	20.893	(0.961)	743326	50.0000	46.34
	149 Benzo(a)pyrene	252	21.584	21.584	(0.993)	693005	50.0000	51.98
	150 Indeno(1,2,3-cd)pyrene	276	24.521	24.521	(1.128)	520594	50.0000	45.77
	151 Dibenz(a,h)anthracene	278	24.618	24.618	(1.133)	474429	50.0000	41.43
	152 Benzo(g,h,i)perylene	276	24.961	24.961	(1.148)	497346	50.0000	42.13

QC Flag Legend

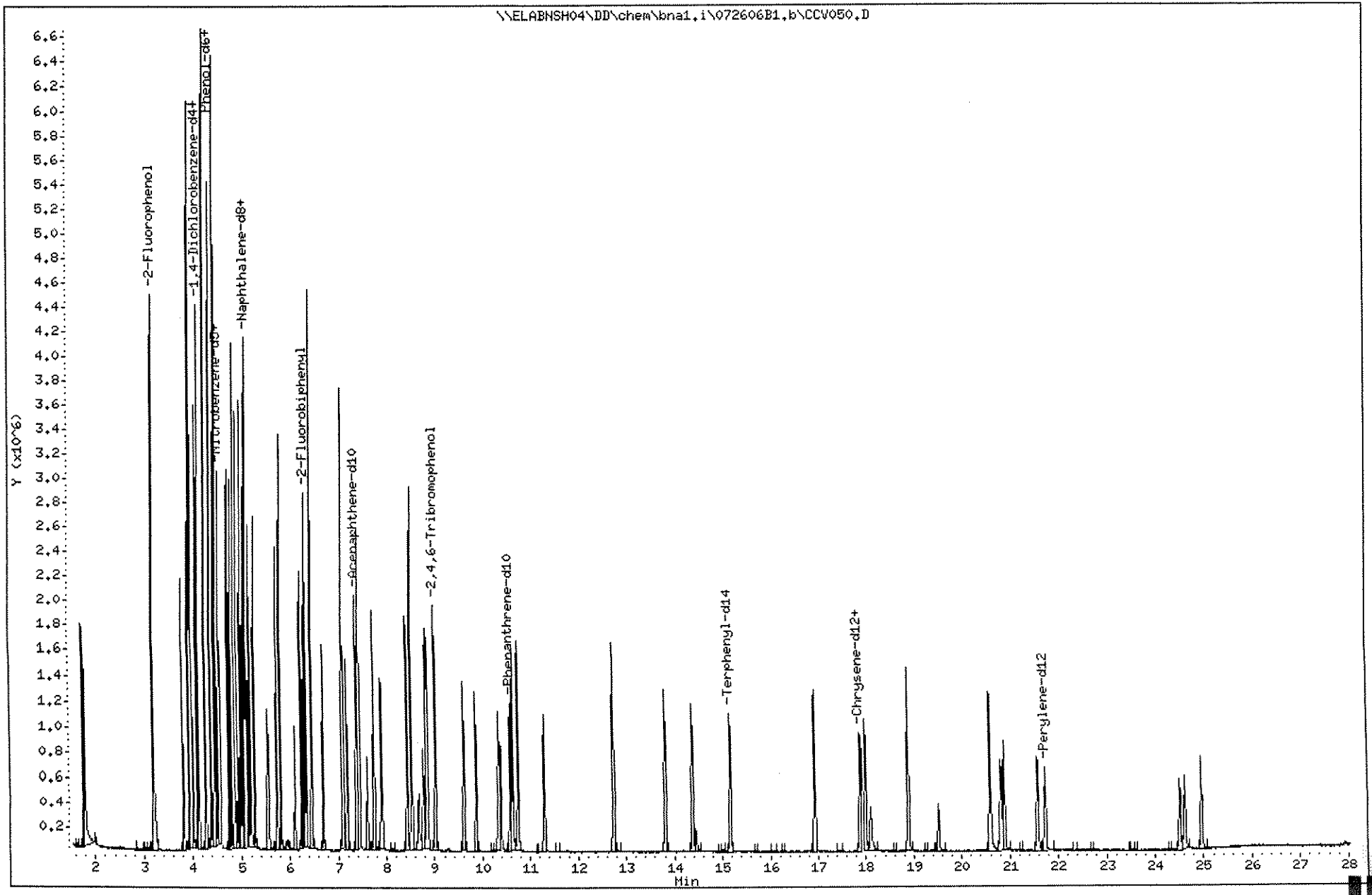
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Date : 26-JUL-2006 12:37
Client ID: CCV050PPM
Sample Info: CCV050PPM;;;;;SV3640
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: SDB
Column diameter: 0.25

000394



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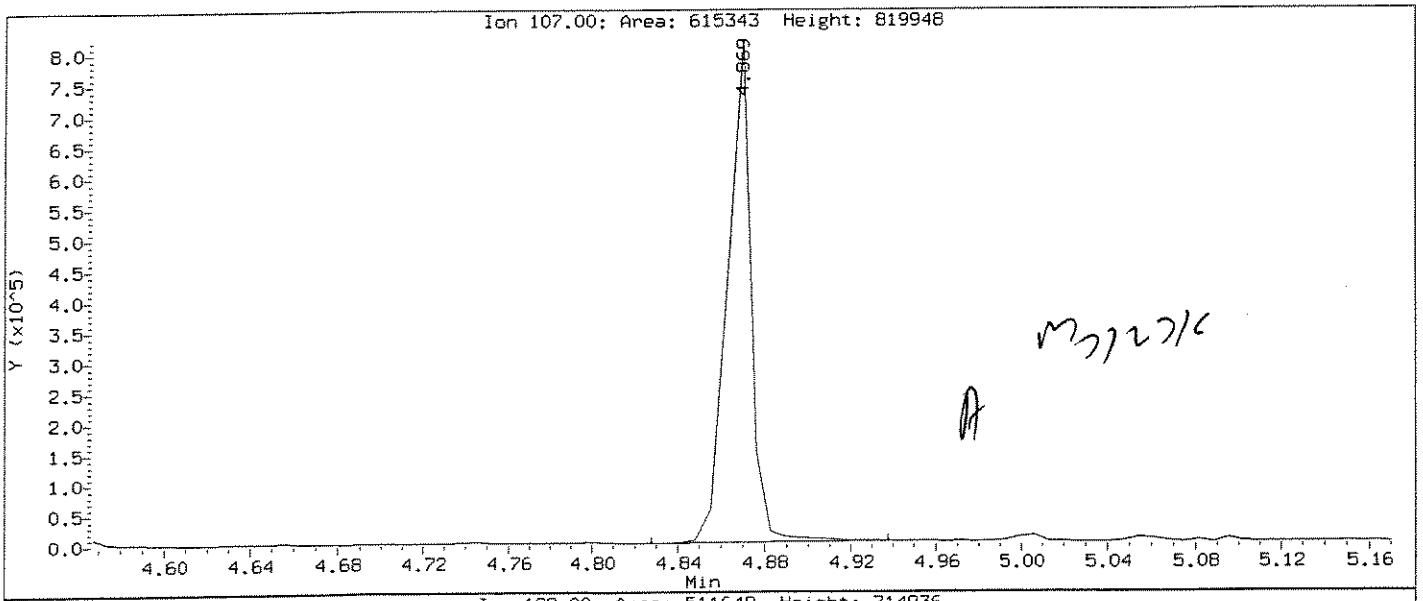
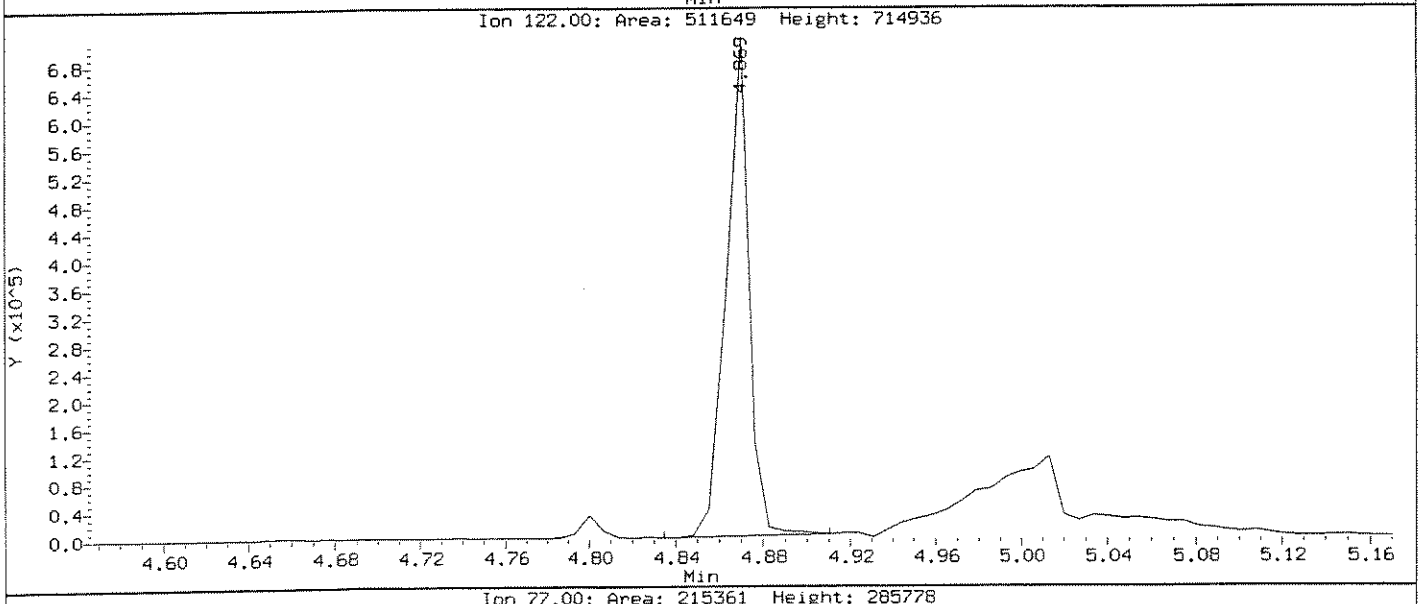
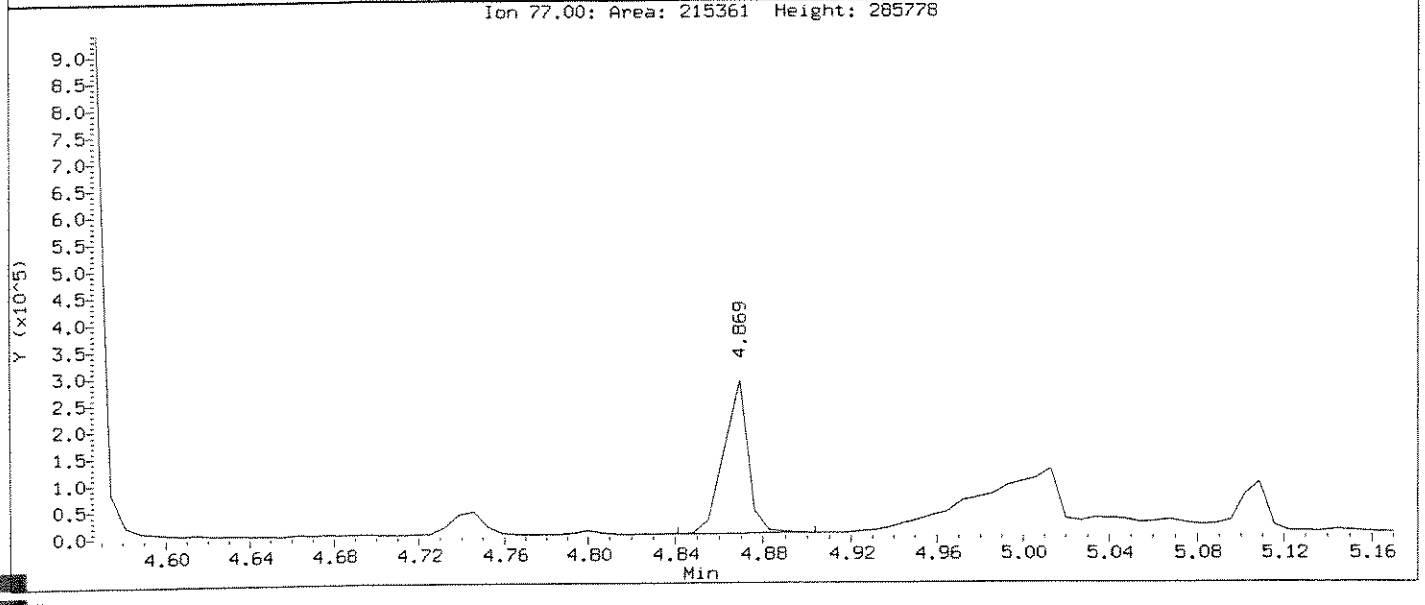
Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
Injection Date: 26-JUL-2006 12:37
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9







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Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\CCV050.D
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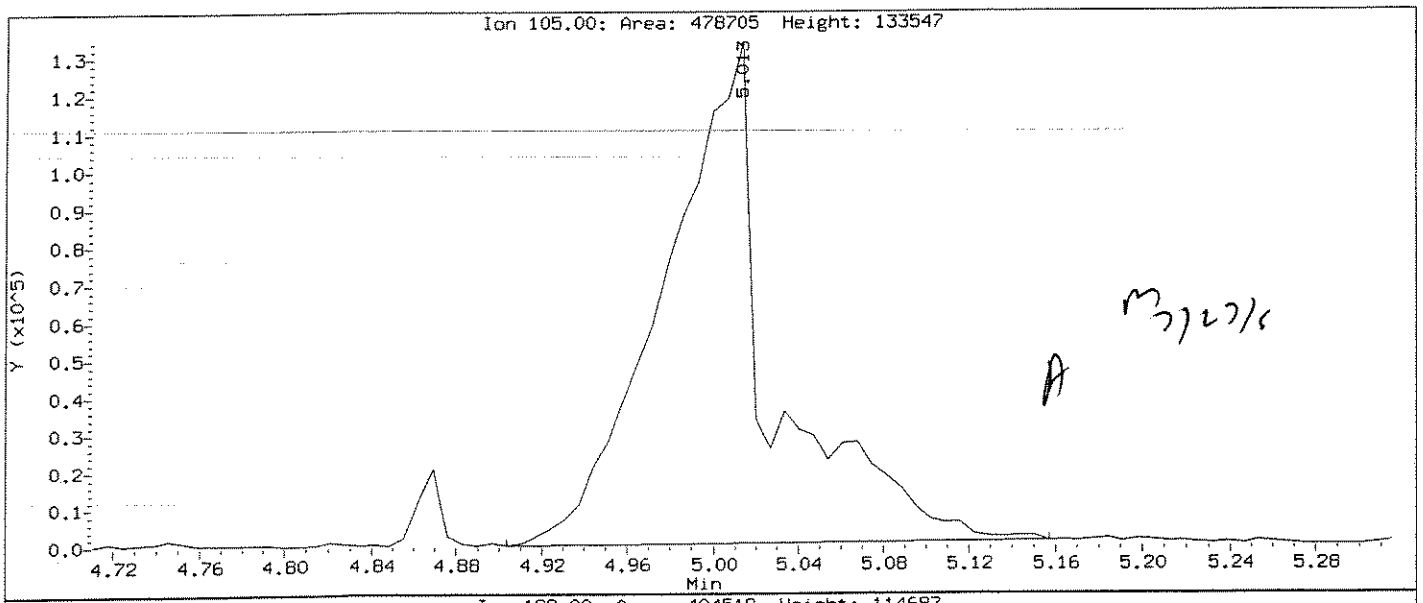
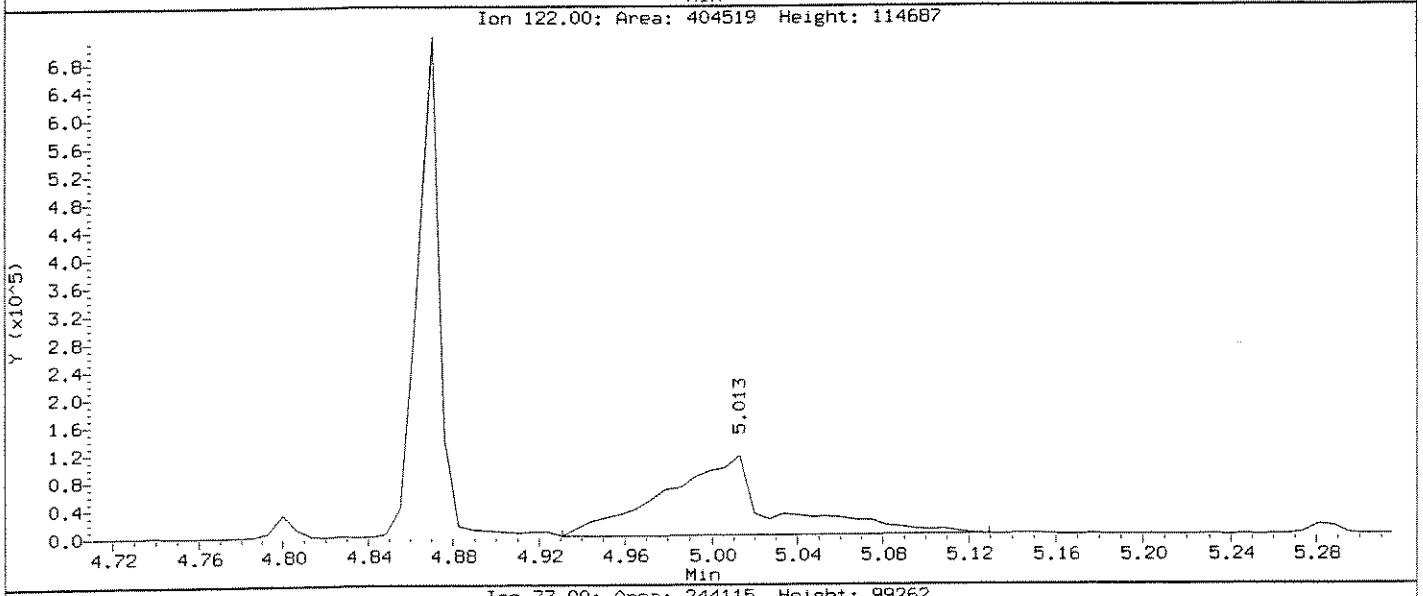
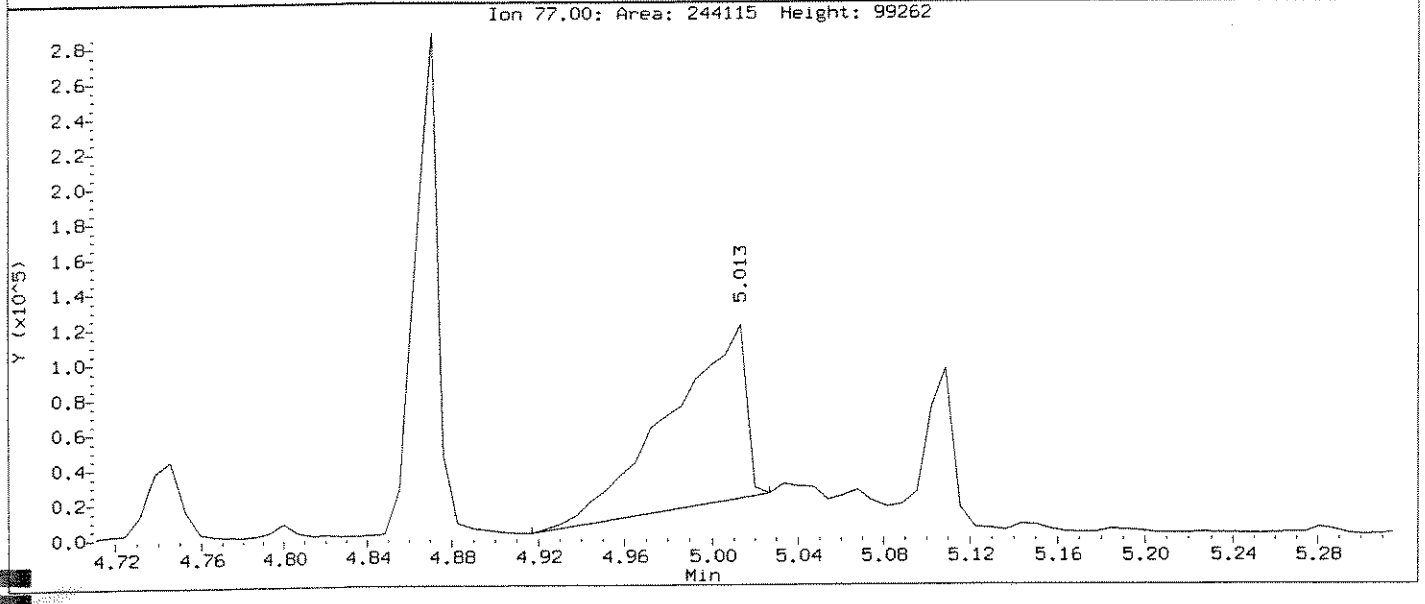
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0







Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/26/06 Time: 1312

Lab File ID: APP9A Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.516	0.482	50.00	46.70		AVRG	-6.6	20.0
4-Aminobiphenyl	0.816	0.745	50.00	45.68		AVRG	-8.6	20.0
m-Dinitrobenzene	0.197	0.209	50.00	46.00		LINR	-8.0	20.0
Hexachloropropene	0.204	0.176	50.00	43.21		AVRG	-13.6	20.0
Isodrin	0.249	0.253	50.00	50.86		AVRG	1.7	20.0
Kepone	0.181	0.210	50.00	57.98		AVRG	16.0	20.0
1-Methylnaphthalene	0.546	0.470	50.00	43.10		AVRG	-13.8	20.0
5-Nitro-o-toluidine	0.341	0.356	50.00	52.22		AVRG	4.4	20.0
Pentachlorobenzene	0.506	0.520	50.00	51.38		AVRG	2.8	20.0
Pentachloronitrobenzene	0.113	0.111	50.00	49.26		AVRG	-1.5	20.0
Pentachloroethane	0.530	0.476	50.00	44.95	0.050	AVRG	-10.1	20.0
1,2,4,5-Tetrachlorobenzene	0.306	0.263	50.00	42.97		AVRG	-14.0	20.0
o-Toluidine	1.989	1.778	50.00	44.69		AVRG	-10.6	20.0
sym-Trinitrobenzene	0.170	0.294	50.00	61.43		2ORDR	22.9	20.0

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\APP9A.D
Report Date: 27-Jul-2006 06:33

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Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\APP9A.D
Lab Smp Id: APP9aCCV050PPM Client Smp ID: APP9aCCV050PPM
Inj Date : 26-JUL-2006 13:12
Operator : SDB Inst ID: bna1.i
Smp Info : APP9aCCV050PPM;;;;;SV3630
Misc Info : ;;;;;app9a.sub;3627
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 06:33 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	20.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

M 7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.112	4.112	(1.000)	482731	40.0000	
	7 Pentachloroethane	167	3.892	3.892	(0.947)	287496	50.0000	44.95
	29 o-Toluidine	106	4.475	4.475	(1.088)	1072600	50.0000	44.69
*	31 Naphthalene-d8	136	5.084	5.084	(1.000)	1524248	40.0000	
	52 1-Methylnaphthalene	141	5.939	5.939	(1.168)	895887	50.0000	43.10
	57 Hexachloropropene	213	5.215	5.215	(1.026)	335425	50.0000	43.21
	63 1,2,4,5-Tetrachlorobenzene	216	6.077	6.077	(1.195)	501799	50.0000	42.97
*	65 Acenaphthene-d10	164	7.379	7.379	(1.000)	700869	40.0000	
	88 m-Dinitrobenzene	168	7.078	7.078	(0.959)	183365	50.0000	46.00
	89 Pentachlorobenzene	250	7.789	7.789	(1.056)	455735	50.0000	51.38
	93 5-Nitro-o-toluidine	152	8.609	8.609	(1.167)	312111	50.0000	52.22
*	97 Phenanthrene-d10	188	10.589	10.589	(1.000)	809682	40.0000	
	112 sym-Trinitrobenzene	75	9.679	9.679	(0.914)	297896	50.0000	61.43

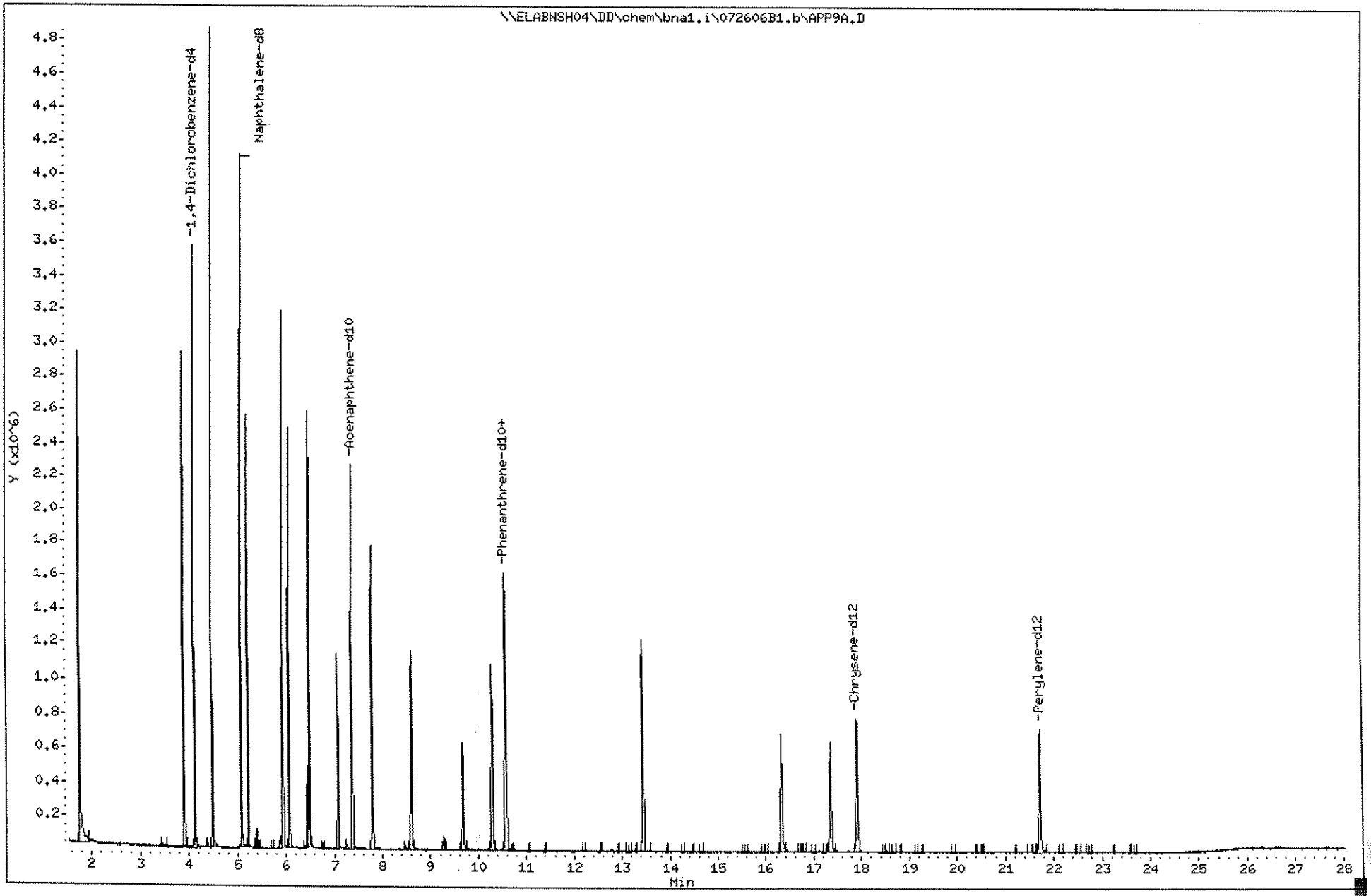
RPW 7-27-06

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\APP9A.D
Report Date: 27-Jul-2006 06:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
114 4-Aminobiphenyl	169	10.294	10.294	(0.972)	754262	50.0000	45.68
115 Pentachloronitrobenzene	237	10.568	10.568	(0.998)	112263	50.0000	49.26
* 124 Chrysene-d12	240	17.916	17.916	(1.000)	597495	40.0000	
137 2-Acetylaminofluorene	181	17.368	17.368	(0.969)	359875	50.0000	46.70
142 Isodrin	193	13.439	13.439	(0.750)	188989	50.0000	50.86
143 Kepone	272	16.329	16.329	(0.911)	156840	50.0000	57.98
* 145 Perylene-d12	264	21.730	21.730	(1.000)	569860	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\APP9A.D
Date : 26-JUL-2006 13:12
Client ID: APP9aCCV050PPM
Instrument: bna1.i
Sample Info: APP9aCCV050PPM;;;;;SV3630
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000400



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date: 07/26/06 Time: 1328

Lab File ID: SPCC020 Init. Calib. Date(s): 02/13/06 04/21/06

Init. Calib. Times: 1342 2147

COMPOUND	RRF	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2,4-Dinitrophenol	0.063	√0.069	20.00	22.09	0.050	AVRG	10.5	20.0
Hexachlorocyclopentadiene	0.274	√0.467	20.00	34.03	0.050	AVRG	70.2	20.0
4-Nitrophenol	0.147	√0.114	20.00	15.55	0.050	AVRG	-22.2	20.0
N-Nitroso-di-n-propylamine	0.644	√0.994	20.00	30.88	0.050	AVRG	54.4	20.0

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SPCC020.D
Report Date: 26-Jul-2006 15:41

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SPCC020.D
Lab Smp Id: SPCC020PPM Client Smp ID: SPCC020PPM
Inj Date : 26-JUL-2006 13:28 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SPCC020PPM;;;;;SV3634
Misc Info : ;;;;;;spcc.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 26-Jul-2006 15:41 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spcc.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	ON-COL (ng/ul)	
*	1 1,4-Dichlorobenzene-d4	152	5.451	5.451	(1.000)	94432	1.00000		(a)
	2 N-Nitroso-di-n-propylamine	70	6.353	6.353	(1.165)	1877666	20.0000	30.88	
*	3 Naphthalene-d8	136	8.054	8.054	(1.000)	419867	1.00000		(a)
*	8 Acenaphthene-d10	164	12.187	12.187	(1.000)	230866	1.00000		(a)
	9 Hexachlorocyclopentadiene	237	10.246	10.246	(0.841)	2155888	20.0000	34.03	
	13 2,4-Dinitrophenol	184	12.461	12.461	(1.022)	320001	20.0000	22.09	(a)
	14 4-Nitrophenol	65	12.826	12.826	(1.052)	529039	20.0000	15.55	(a)
*	16 Phenanthrene-d10	188	15.714	15.714	(1.000)	327320	1.00000		(a)
*	20 Chrysene-d12	240	22.131	22.131	(1.000)	150393	1.00000		(a)
*	25 Perylene-d12	264	25.339	25.339	(1.000)	128599	1.00000		(a)

Empirical Laboratories

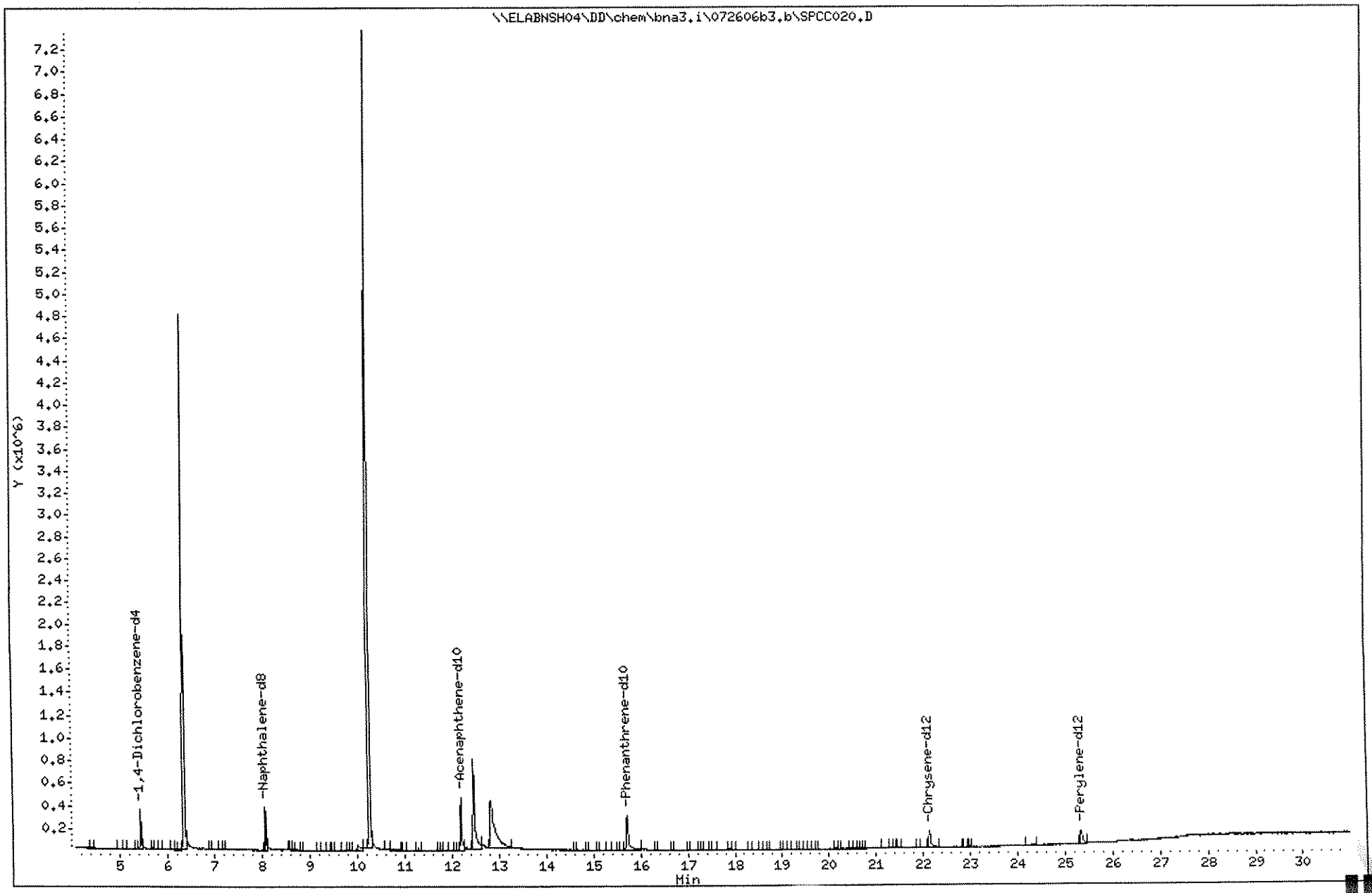
Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SPCC020.D
Report Date: 26-Jul-2006 15:41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SPCC020.D
Date : 26-JUL-2006 13:28
Client ID: SPCC020PPM
Instrument: bna3.i
Sample Info: SPCC020PPM;;;;;SV3634
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000404



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA3 Calibration Date: 07/26/06 Time: 1545

Lab File ID: PAHCCV Init. Calib. Date(s): 03/11/06 04/21/06

Init. Calib. Times: 1210 2147

COMPOUND	$\overline{RRF}$	RRF5	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.008	1.026	5.000	5.085		AVRG	1.7	20.0
Acenaphthylene	1.592	1.616	5.000	5.073		AVRG	1.5	20.0
Anthracene	1.056	0.946	5.000	4.478		AVRG	-10.4	20.0
Benzo(a)anthracene	1.164	1.001	5.000	4.297		AVRG	-14.0	20.0
Benzo(b)fluoranthene	1.381	1.249	5.000	4.524		AVRG	-9.5	20.0
Benzo(k)fluoranthene	1.381	1.478	5.000	5.354		AVRG	7.1	20.0
Benzo(g,h,i)perylene	0.839	0.701	5.000	4.176		AVRG	-16.5	20.0
Benzo(a)pyrene	1.138	1.043	5.000	4.582		AVRG	-8.4	20.0
Chrysene	1.150	1.130	5.000	4.912		AVRG	-1.8	20.0
Dibenz(a,h)anthracene	0.761	0.572	5.000	3.756		AVRG	-24.9	20.0
Fluoranthene	1.111	1.099	5.000	4.948		AVRG	-1.0	20.0
Fluorene	1.189	1.070	5.000	4.502		AVRG	-10.0	20.0
Indeno(1,2,3-cd)pyrene	0.804	0.794	5.000	4.933		AVRG	-1.3	20.0
2-Methylnaphthalene	0.523	0.461	5.000	4.406		AVRG	-11.9	20.0
1-Methylnaphthalene	0.548	0.550	5.000	5.024		AVRG	0.5	20.0
Naphthalene	0.958	0.898	5.000	4.686		AVRG	-6.3	20.0
Phenanthrene	1.096	0.997	5.000	4.549		AVRG	-9.0	20.0
Pyrene	1.486	1.648	5.000	5.544		AVRG	10.9	20.0
Nitrobenzene-d5	0.186	0.283	5.000	5.522		LINR	10.4	
2-Fluorobiphenyl	1.206	1.076	5.000	4.463		AVRG	-10.7	
Terphenyl-d14	0.952	0.835	5.000	4.386		AVRG	-12.3	

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHCCV.D
Report Date: 27-Jul-2006 07:36

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHCCV.D
Lab Smp Id: PAHCCV5.0PPM Client Smp ID: PAHCCV5.0PPM
Inj Date : 26-JUL-2006 15:45 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : PAHCCV5.0PPM;;;;;SV3633
Misc Info : ;;;;;;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:36 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	5.454	5.454	(1.000)	92616	1.00000	
*	3 Naphthalene-d8	136	8.057	8.057	(1.000)	413930	1.00000	
$	4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	585063	5.00000	5.522
	5 Naphthalene	128	8.103	8.103	(1.006)	1859372	5.00000	4.686
	6 2-Methylnaphthalene	141	9.701	9.701	(1.204)	954104	5.00000	4.406
	7 1-Methylnaphthalene	141	9.941	9.941	(1.234)	1138891	5.00000	5.024
*	8 Acenaphthene-d10	164	12.190	12.190	(1.000)	254076	1.00000	
$	10 2-Fluorobiphenyl	172	10.649	10.649	(0.874)	1367679	5.00000	4.463
	11 Acenaphthylene	152	11.813	11.813	(0.969)	2052579	5.00000	5.073
	12 Acenaphthene	153	12.259	12.259	(1.006)	1303190	5.00000	5.085
	15 Fluorene	166	13.480	13.480	(1.106)	1359772	5.00000	4.502
*	16 Phenanthrene-d10	188	15.718	15.718	(1.000)	373328	1.00000	
	17 Phenanthrene	178	15.764	15.764	(1.003)	1861137	5.00000	4.549
	18 Anthracene	178	15.878	15.878	(1.010)	1765809	5.00000	4.478

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Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHCCV.D
Report Date: 27-Jul-2006 07:36

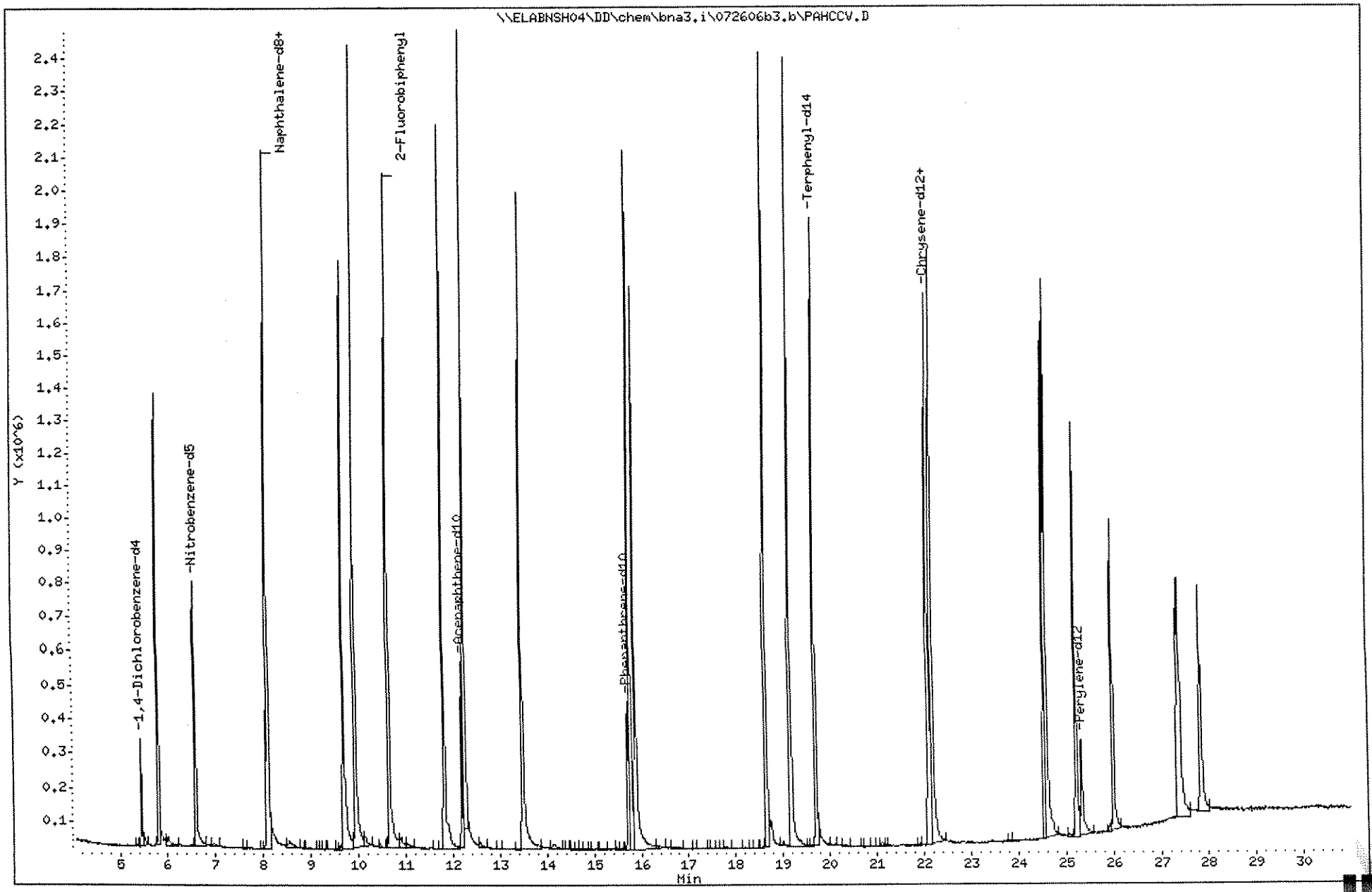
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	19 Fluoranthene	202	18.652	18.652	(1.187)	2051551	5.00000	4.948
*	20 Chrysene-d12	240	22.134	22.134	(1.000)	291632	1.00000	
	21 Pyrene	202	19.166	19.166	(0.866)	2402855	5.00000	5.544
$	22 Terphenyl-d14	244	19.702	19.702	(0.890)	1217724	5.00000	4.386
	23 Benzo(a)anthracene	228	22.100	22.100	(0.998)	1459465	5.00000	4.297
	24 Chrysene	228	22.191	22.191	(1.003)	1647216	5.00000	4.912
*	25 Perylene-d12	264	25.342	25.342	(1.000)	226244	1.00000	
	26 Benzo(b)fluoranthene	252	24.566	24.566	(0.969)	1413162	5.00000	4.524
	27 Benzo(k)fluoranthene	252	24.612	24.612	(0.971)	1672411	5.00000	5.354
	28 Benzo(a)pyrene	252	25.217	25.217	(0.995)	1179424	5.00000	4.582
	29 Indeno(1,2,3-cd)pyrene	276	27.363	27.363	(1.080)	897632	5.00000	4.933
	30 Dibenz(a,h)anthracene	278	27.409	27.409	(1.082)	646937	5.00000	3.756
	31 Benzo(g,h,i)perylene	276	27.843	27.843	(1.099)	793212	5.00000	4.176

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHCCV.D
Date : 26-JUL-2006 15:45
Client ID: PAHCCV5.0PPM
Sample Info: PAHCCV5.0PPM;;;;;SV3633
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: SDB
Column diameter: 0.25

000408



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/27/06 Time: 1242

Lab File ID: APP9A Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.516	0.481	50.00	46.63		AVRG	-6.7	20.0
4-Aminobiphenyl	0.816	0.750	50.00	45.95		AVRG	-8.1	20.0
m-Dinitrobenzene	0.197	0.188	50.00	41.39		LINR	-17.2	20.0
Hexachloropropene	0.204	0.181	50.00	44.51		AVRG	-11.0	20.0
Isodrin	0.249	0.275	50.00	55.21		AVRG	10.4	20.0
Kepone	0.181	0.221	50.00	61.12		AVRG	22.2	20.0
1-Methylnaphthalene	0.546	0.448	50.00	41.03		AVRG	-17.9	20.0
5-Nitro-o-toluidine	0.341	0.307	50.00	45.00		AVRG	-10.0	20.0
Pentachlorobenzene	0.506	0.493	50.00	48.68		AVRG	-2.6	20.0
Pentachloronitrobenzene	0.113	0.113	50.00	50.08		AVRG	0.2	20.0
Pentachloroethane	0.530	0.474	50.00	44.77	0.050	AVRG	-10.4	20.0
1,2,4,5-Tetrachlorobenzene	0.306	0.284	50.00	46.27		AVRG	-7.4	20.0
o-Toluidine	1.989	1.893	50.00	47.59		AVRG	-4.8	20.0
sym-Trinitrobenzene	0.170	0.267	50.00	56.64		2ORDR	13.3	20.0

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\APP9A.D
Report Date: 27-Jul-2006 14:32

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\APP9A.D
Lab Smp Id: APP9aCCV050PPM Client Smp ID: APP9aCCV050PPM
Inj Date : 27-JUL-2006 12:42
Operator : SDB Inst ID: bna1.i
Smp Info : APP9aCCV050PPM;;;;;SV3630
Misc Info : ;;;;;app9a.sub;3627
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 14:32 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: app9a.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

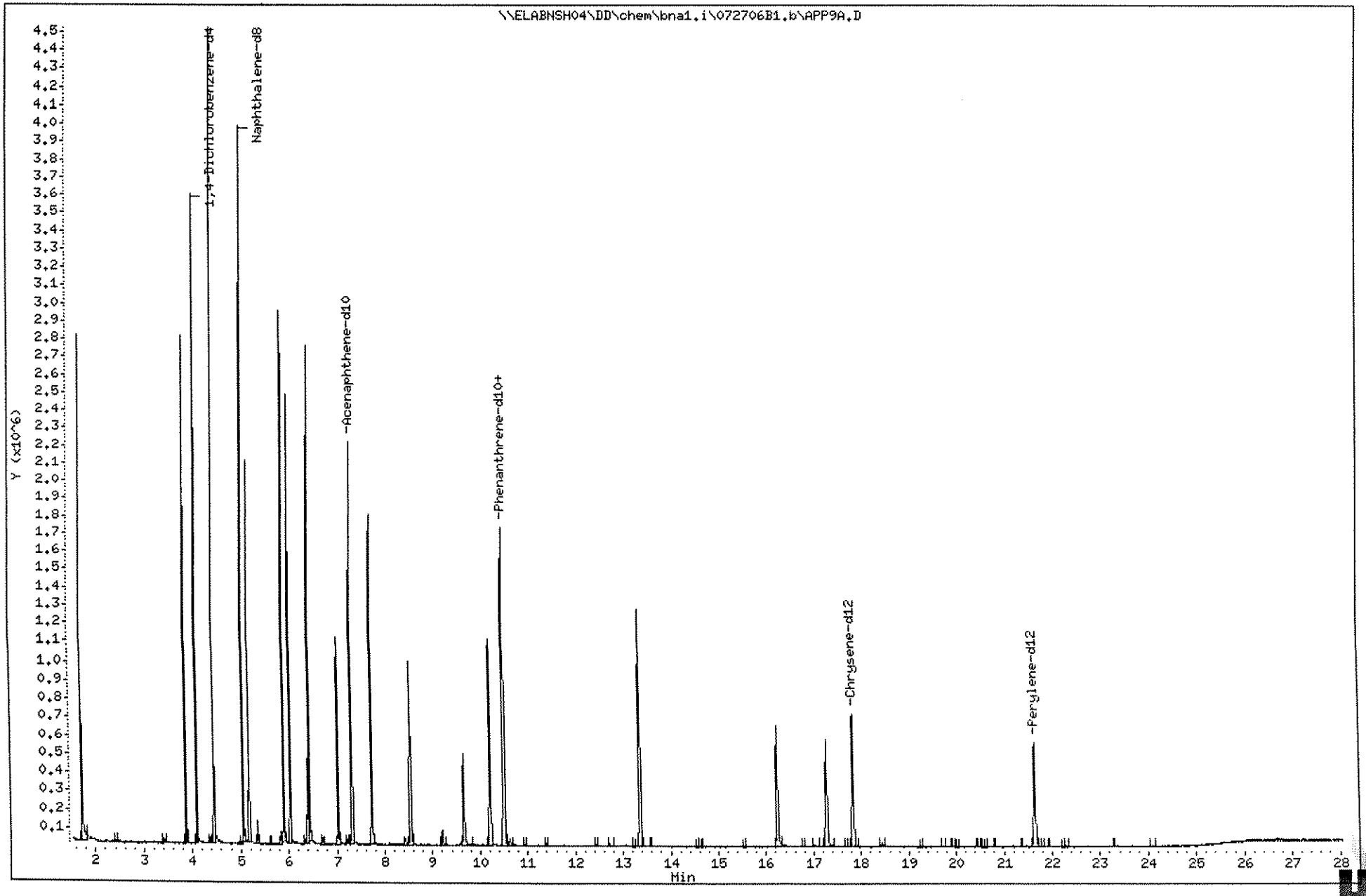
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.085	4.085	(1.000)	451987	40.0000	
	7 Pentachloroethane	167	3.865	3.865	(0.946)	268095	50.0000	44.77
	29 o-Toluidine	106	4.448	4.448	(1.089)	1069485	50.0000	47.59
*	31 Naphthalene-d8	136	5.052	5.052	(1.000)	1479907	40.0000	
	52 1-Methylnaphthalene	141	5.895	5.895	(1.167)	828199	50.0000	41.03
	57 Hexachloropropene	213	5.182	5.182	(1.026)	335455	50.0000	44.51
	63 1,2,4,5-Tetrachlorobenzene	216	6.033	6.033	(1.194)	524568	50.0000	46.27
*	65 Acenaphthene-d10	164	7.321	7.321	(1.000)	738392	40.0000	
	88 m-Dinitrobenzene	168	7.028	7.028	(0.960)	173841	50.0000	41.39
	89 Pentachlorobenzene	250	7.733	7.733	(1.056)	454824	50.0000	48.68
	93 5-Nitro-o-toluidine	152	8.542	8.542	(1.167)	283321	50.0000	45.00
*	97 Phenanthrene-d10	188	10.513	10.513	(1.000)	817218	40.0000	
	112 sym-Trinitrobenzene	75	9.657	9.657	(0.919)	273031	50.0000	56.64

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\APP9A.D
Report Date: 27-Jul-2006 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
114 4-Aminobiphenyl	169	10.219	10.219	(0.972)	765855	50.0000	45.95
115 Pentachloronitrobenzene	237	10.506	10.506	(0.999)	115217	50.0000	50.08
* 124 Chrysene-d12	240	17.838	17.838	(1.000)	529868	40.0000	
137 2-Acetylaminofluorene	181	17.284	17.284	(0.969)	318693	50.0000	46.63
142 Isodrin	193	13.358	13.358	(0.749)	181960	50.0000	55.21
143 Kepone	272	16.241	16.241	(0.910)	146622	50.0000	61.12
* 145 Perylene-d12	264	21.649	21.649	(1.000)	435476	40.0000	

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\APP9A.D
Date : 27-JUL-2006 12:42
Client ID: APP9aCCV050PPM
Instrument: bna1.i
Sample Info: APP9aCCV050PPM;;;;;SV3630
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000412



Empirical Laboratories

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/27/06 Time: 1316

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.154	1.092	50.00	47.31		AVRG	-5.4	20.0
Acenaphthylene	1.682	1.656	50.00	49.23		AVRG	-1.5	
Acetophenone	1.639	1.796	50.00	54.79		AVRG	9.6	
Aniline	1.729	1.753	50.00	100.7		2ORDR	101.4	
Anthracene	1.126	1.037	50.00	46.06		AVRG	-7.9	
Atrazine	0.229	0.198	50.00	43.04		AVRG	-13.9	
Benzaldehyde	1.123	0.755	50.00	33.61		AVRG	-32.8	
Benzidine	0.802	0.245	50.00	15.26		AVRG	-69.5	
Benzoic acid	0.244	0.312	50.00	57.73		2ORDR	15.4	
Benzo(a)anthracene	1.289	1.190	50.00	46.18		AVRG	-7.6	
Benzo(b)fluoranthene	1.232	1.203	50.00	48.83		AVRG	-2.3	
Benzo(k)fluoranthene	1.278	1.188	50.00	46.47		AVRG	-7.1	
Benzo(g,h,i)perylene	0.941	0.961	50.00	51.07		AVRG	2.1	
Benzo(a)pyrene	1.062	1.119	50.00	52.67		AVRG	5.3	20.0
Benzyl alcohol	0.901	0.790	50.00	43.88		AVRG	-12.2	
1,1'-Biphenyl	1.420	1.352	50.00	47.60		AVRG	-4.8	
bis(2-Chloroethoxy)methane	0.566	0.537	50.00	47.39		AVRG	-5.2	
bis(2-Chloroethyl)ether	1.659	1.527	50.00	46.01		AVRG	-8.0	
bis(2-Chloroisopropyl)ether	3.221	3.149	50.00	48.88		AVRG	-2.2	
Bis(2-ethylhexyl)phthalate	1.297	1.424	50.00	54.92		AVRG	9.8	
4-Bromophenyl-phenylether	0.272	0.256	50.00	46.95		AVRG	-6.1	
Butylbenzylphthalate	0.993	1.199	50.00	60.33		AVRG	20.6	
4-Chloroaniline	0.407	0.418	50.00	51.37		AVRG	2.7	
Carbazole	1.099	0.901	50.00	40.97		AVRG	-18.0	
Caprolactam	0.114	0.119	50.00	52.28		AVRG	4.6	
4-Chloro-3-methylphenol	0.313	0.333	50.00	53.24		AVRG	6.5	20.0
2-Chloronaphthalene	1.130	1.119	50.00	49.51		AVRG	-1.0	
2-Chlorophenol	1.316	1.330	50.00	50.54		AVRG	1.1	
4-Chlorophenyl-phenylether	0.527	0.490	50.00	46.47		AVRG	-7.1	
Chrysene	1.177	1.142	50.00	48.52		AVRG	-3.0	
Dibenz(a,h)anthracene	0.812	0.852	50.00	46.68		LINR	-6.6	
Dibenzofuran	1.600	1.555	50.00	48.60		AVRG	-2.8	
1,2-Dichlorobenzene	1.323	1.244	50.00	47.04		AVRG	-5.9	
1,4-Dichlorobenzene	1.416	1.356	50.00	47.89		AVRG	-4.2	20.0
1,3-Dichlorobenzene	1.492	1.483	50.00	49.67		AVRG	-0.7	
3,3'-Dichlorobenzidine	0.353	0.347	50.00	49.23		AVRG	-1.5	
2,4-Dichlorophenol	0.313	0.314	50.00	50.04		AVRG	0.1	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/27/06 Time: 1316

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.357	1.376	50.00	50.71		AVRG	1.4	
2,4-Dimethylphenol	0.379	0.393	50.00	51.86		AVRG	3.7	
Dimethylphthalate	1.417	1.397	50.00	49.30		AVRG	-1.4	
Di-n-butylphthalate	1.857	1.780	50.00	47.92		AVRG	-4.2	
4,6-Dinitro-2-methylphenol	0.149	0.172	50.00	53.06		2ORDR	6.1	
2,4-Dinitrophenol	0.144	0.199	50.00	61.18	0.050	2ORDR	22.4	
2,4-Dinitrotoluene	0.393	0.405	50.00	51.55		AVRG	3.1	
2,6-Dinitrotoluene	0.310	0.327	50.00	52.69		AVRG	5.4	
1,2-Diphenylhydrazine	1.344	1.392	50.00	51.79		AVRG	3.6	
Di-n-octylphthalate	2.224	2.538	50.00	57.07		AVRG	14.1	20.0
Fluoranthene	1.129	1.062	50.00	47.04		AVRG	-5.9	20.0
Fluorene	1.234	1.162	50.00	47.05		AVRG	-5.9	
Hexachlorobenzene	0.300	0.304	50.00	50.76		AVRG	1.5	
Hexachlorobutadiene	0.169	0.176	50.00	51.90		AVRG	3.8	20.0
Hexachlorocyclopentadiene	0.206	0.231	50.00	48.31	0.050	LINR	-3.4	
Hexachloroethane	0.630	0.635	50.00	50.40		AVRG	0.8	
Indeno(1,2,3-cd)pyrene	0.811	0.916	50.00	50.51		LINR	1.0	
Isophorone	0.942	0.837	50.00	44.46		AVRG	-11.1	
2-Methylnaphthalene	0.572	0.535	50.00	46.79		AVRG	-6.4	
2-Methylphenol	1.228	1.123	50.00	45.73		AVRG	-8.5	
3-Methylphenol	1.160	1.068	50.00	46.04		AVRG	-7.9	
Naphthalene	0.994	0.941	50.00	47.30		AVRG	-5.4	
4-Methylphenol	1.160	1.068	50.00	46.04		AVRG	-7.9	
2-Nitroaniline	0.440	0.542	50.00	61.64		AVRG	23.3	
3-Nitroaniline	0.345	0.360	50.00	52.21		AVRG	4.4	
4-Nitroaniline	0.296	0.316	50.00	53.49		AVRG	7.0	
Nitrobenzene	0.442	0.422	50.00	47.77		AVRG	-4.4	
2-Nitrophenol	0.235	0.245	50.00	52.33		AVRG	4.7	20.0
4-Nitrophenol	0.238	0.320	50.00	67.34	0.050	AVRG	34.7	
N-Nitroso-di-methylamine	0.925	0.972	50.00	52.52		AVRG	5.0	
N-Nitrosodiphenylamine(1)	0.627	0.549	50.00	43.77		AVRG	-12.4	20.0
N-Nitroso-di-n-propylamine	1.147	1.007	50.00	43.90	0.050	AVRG	-12.2	
Pentachlorophenol	0.190	0.196	50.00	51.53		AVRG	3.1	20.0
Phenanthrene	1.140	1.070	50.00	46.91		AVRG	-6.2	
Phenol	1.894	1.941	50.00	51.24		AVRG	2.5	20.0
Pyrene	1.597	1.732	50.00	54.21		AVRG	8.4	

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Instrument ID: BNA1 Calibration Date: 07/27/06 Time: 1316

Lab File ID: CCV050S Init. Calib. Date(s): 02/02/06 04/19/06

Init. Calib. Times: 0655 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyridine	1.784	1.451	50.00	40.66		AVRG	-18.7	
1,2,4-Trichlorobenzene	0.334	0.297	50.00	44.38		AVRG	-11.2	
2,4,5-Trichlorophenol	0.388	0.418	50.00	53.82		AVRG	7.6	
2,4,6-Trichlorophenol	0.375	0.404	50.00	53.77		AVRG	7.5	20.0
2-Fluorophenol	1.386	1.426	100.0	102.9		AVRG	2.9	
Phenol-d6	1.656	1.643	100.0	99.19		AVRG	-0.8	
Nitrobenzene-d5	0.437	0.452	50.00	51.81		AVRG	3.6	
2-Fluorobiphenyl	1.273	1.210	50.00	47.52		AVRG	-5.0	
2,4,6-Tribromophenol	0.147	0.168	100.0	113.6		AVRG	13.6	
Terphenyl-d14	1.010	1.068	50.00	52.87		AVRG	5.7	

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Report Date: 27-Jul-2006 14:44

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
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Inj Date : 27-JUL-2006 13:16
Operator : SDB Inst ID: bna1.i
Smp Info : CCV050PPM;;;;;SV3640
Misc Info : ;;;;;ppbna.sub;3627
Comment :
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Meth Date : 27-Jul-2006 14:37 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbna.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL) (1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

8/1/06

2/28/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	4.088	4.088	(1.000)	405227	40.0000	
$	2 2-Fluorophenol	112	3.163	3.163	(0.774)	1444530	100.000	102.9(A)
$	3 Phenol-d6	99	3.930	3.930	(0.961)	1664266	100.000	99.19
	4 Pyridine	79	1.710	1.710	(0.418)	735051	50.0000	40.66
	5 N-Nitroso-di-methylamine	42	1.744	1.744	(0.427)	492364	50.0000	52.52
	6 Aniline	93	3.889	3.889	(0.951)	887766	50.0000	100.7(AQ)
	8 Phenol	94	3.937	3.937	(0.963)	983265	50.0000	51.24
	9 bis(2-Chloroethyl)ether	93	3.944	3.944	(0.965)	773439	50.0000	46.01
	10 2-Chlorophenol	128	3.971	3.971	(0.971)	673844	50.0000	50.54
	11 1,3-Dichlorobenzene	146	4.060	4.060	(0.993)	751068	50.0000	49.67
	12 1,4-Dichlorobenzene	146	4.102	4.102	(1.003)	686879	50.0000	47.89
	13 Benzyl alcohol	108	4.238	4.238	(1.037)	400324	50.0000	43.88
	14 1,2-Dichlorobenzene	146	4.238	4.238	(1.037)	630369	50.0000	47.04

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Report Date: 27-Jul-2006 14:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	15 2-Methylphenol	108	4.356	4.356	(1.065)	568842	50.0000	45.73
	16 bis(2-Chloroisopropyl)ether	45	4.342	4.342	(1.062)	1595070	50.0000	48.88
	17 3-Methylphenol	108	4.458	4.458	(1.091)	541112	50.0000	46.04
	18 4-Methylphenol	108	4.458	4.458	(1.091)	541112	50.0000	46.04
	19 N-Nitroso-di-n-propylamine	70	4.452	4.452	(1.089)	510291	50.0000	43.90
	20 Hexachloroethane	117	4.458	4.458	(1.091)	321781	50.0000	50.40
	30 Benzaldehyde	106	3.766	3.766	(0.921)	382540	50.0000	33.61
*	31 Naphthalene-d8	136	5.055	5.055	(1.000)	1357937	40.0000	
$	32 Nitrobenzene-d5	82	4.527	4.527	(0.896)	768076	50.0000	51.81
	33 Nitrobenzene	77	4.534	4.534	(0.897)	716995	50.0000	47.77
	35 Isophorone	82	4.712	4.712	(0.932)	1421540	50.0000	44.46
	36 2-Nitrophenol	139	4.774	4.774	(0.944)	416710	50.0000	52.33
	38 2,4-Dimethylphenol	107	4.843	4.843	(0.958)	667894	50.0000	51.86(M)
	39 Benzoic acid	105	4.987	4.987	(0.986)	530547	50.0000	57.73(M)
	40 bis(2-Chloroethoxy)methane	93	4.898	4.898	(0.969)	911510	50.0000	47.39
	43 2,4-Dichlorophenol	162	4.973	4.973	(0.984)	532361	50.0000	50.04
	46 1,2,4-Trichlorobenzene	180	5.028	5.028	(0.995)	503714	50.0000	44.38
	47 Naphthalene	128	5.076	5.076	(1.004)	1597016	50.0000	47.30
	48 4-Chloroaniline	127	5.158	5.158	(1.020)	709388	50.0000	51.37
	49 Hexachlorobutadiene	225	5.248	5.248	(1.038)	297997	50.0000	51.90
	50 4-Chloro-3-methylphenol	107	5.701	5.701	(1.128)	565526	50.0000	53.24
	51 2-Methylnaphthalene	141	5.776	5.776	(1.143)	907761	50.0000	46.79
	53 Acetophenone	105	4.417	4.417	(1.081)	909888	50.0000	54.79
	64 Caprolactam	113	5.523	5.523	(1.092)	202350	50.0000	52.28
*	65 Acenaphthene-d10	164	7.324	7.324	(1.000)	659078	40.0000	
	66 Hexachlorocyclopentadiene	237	6.059	6.059	(0.827)	190266	50.0000	48.31
	67 2,4,6-Trichlorophenol	196	6.197	6.197	(0.846)	332427	50.0000	53.77
	68 2,4,5-Trichlorophenol	196	6.258	6.258	(0.854)	344730	50.0000	53.82
	69 2-Chloronaphthalene	162	6.397	6.397	(0.873)	922019	50.0000	49.51
$	70 2-Fluorobiphenyl	172	6.300	6.300	(0.860)	996726	50.0000	47.52
	71 2-Nitroaniline	65	6.645	6.645	(0.907)	446967	50.0000	61.64
	72 Dimethylphthalate	163	7.042	7.042	(0.961)	1150789	50.0000	49.30
	73 Acenaphthylene	152	7.049	7.049	(0.962)	1364176	50.0000	49.23
	74 2,6-Dinitrotoluene	165	7.132	7.132	(0.974)	269573	50.0000	52.69
	75 3-Nitroaniline	138	7.366	7.366	(1.006)	296668	50.0000	52.21
	76 Acenaphthene	153	7.387	7.387	(1.008)	899852	50.0000	47.31
	77 2,4-Dinitrophenol	184	7.558	7.558	(1.032)	164029	50.0000	61.18
	79 4-Nitrophenol	65	7.839	7.839	(1.070)	263948	50.0000	67.34
	80 Dibenzofuran	168	7.688	7.688	(1.050)	1280977	50.0000	48.60
	81 2,4-Dinitrotoluene	165	7.860	7.860	(1.073)	333863	50.0000	51.55
	82 Diethylphthalate	149	8.465	8.465	(1.156)	1134054	50.0000	50.71
	83 4-Chlorophenyl-phenylether	204	8.465	8.465	(1.156)	403808	50.0000	46.47
	84 Fluorene	166	8.375	8.375	(1.143)	957245	50.0000	47.05
	85 4-Nitroaniline	138	8.616	8.616	(1.176)	260769	50.0000	53.49
	96 1,1'-Biphenyl	154	6.411	6.411	(0.875)	1113634	50.0000	47.60
*	97 Phenanthrene-d10	188	10.512	10.512	(1.000)	904552	40.0000	
	98 1,2-Diphenylhydrazine	77	8.801	8.801	(0.837)	1574523	50.0000	51.79

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Report Date: 27-Jul-2006 14:44

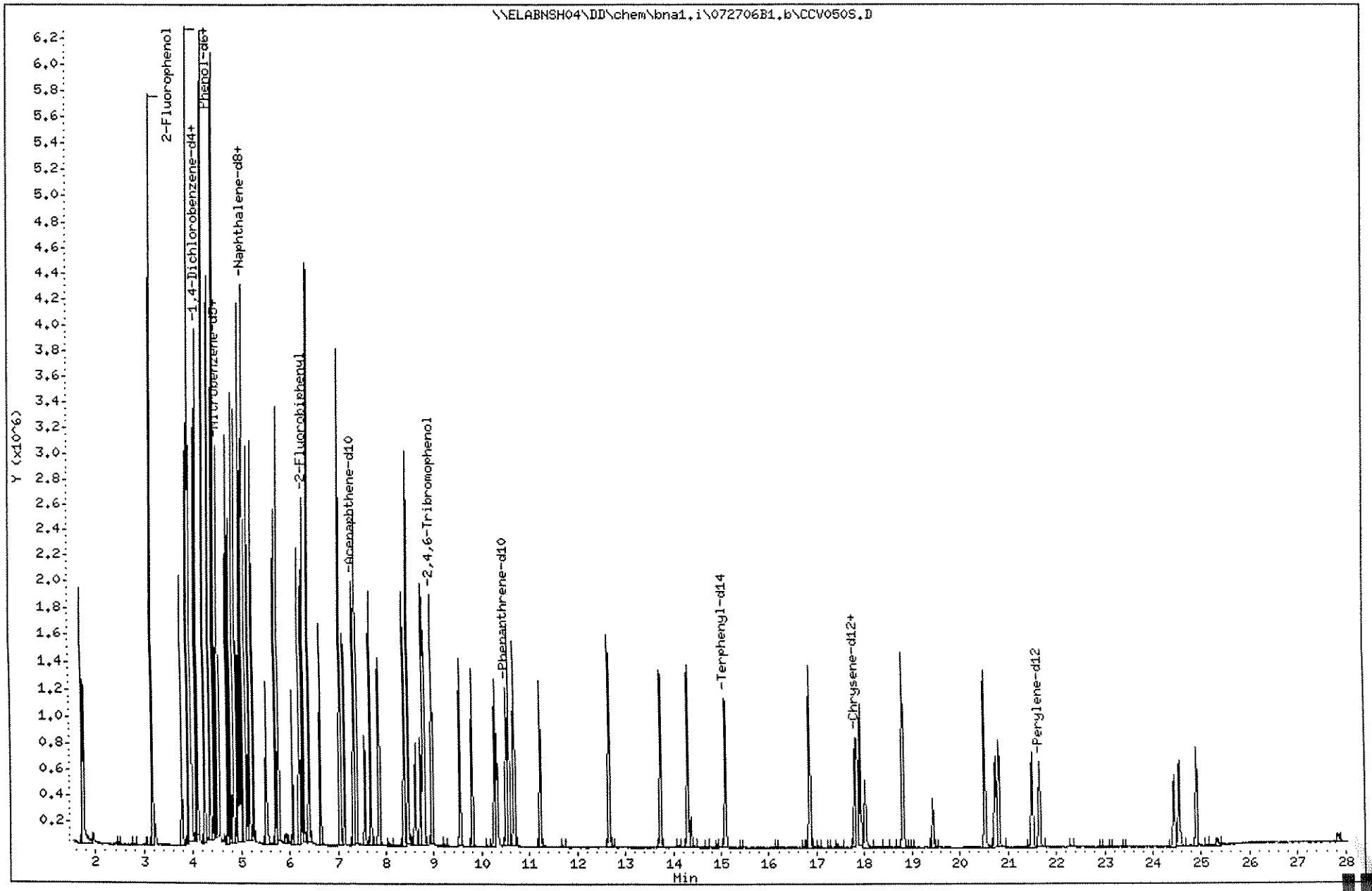
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	99 Carbazole	167	11.224	11.224	(1.068)	1018513	50.0000	40.97
	100 4,6-Dinitro-2-methylphenol	198	8.719	8.719	(0.829)	194584	50.0000	53.06
	101 N-Nitrosodiphenylamine	169	8.774	8.774	(0.835)	621117	50.0000	43.77
$	102 2,4,6-Tribromophenol	330	8.960	8.960	(0.852)	379179	100.000	113.6(A)
	103 4-Bromophenyl-phenylether	248	9.551	9.551	(0.909)	288962	50.0000	46.95
	104 Hexachlorobenzene	284	9.805	9.805	(0.933)	343978	50.0000	50.76
	105 Pentachlorophenol	266	10.320	10.320	(0.982)	221443	50.0000	51.53
	106 Phenanthrene	178	10.568	10.568	(1.005)	1209920	50.0000	46.91
	107 Anthracene	178	10.685	10.685	(1.016)	1172862	50.0000	46.06
	109 Di-n-butylphthalate	149	12.667	12.667	(1.205)	2012476	50.0000	47.92
	110 Fluoranthene	202	13.736	13.736	(1.307)	1201235	50.0000	47.04
	123 Atrazine	200	10.279	10.279	(0.978)	223316	50.0000	43.04
*	124 Chrysene-d12	240	17.850	17.850	(1.000)	560900	40.0000	
	125 Benzidine	184	14.373	14.373	(0.805)	171749	50.0000	15.26(a)
	126 Pyrene	202	14.311	14.311	(0.802)	1214320	50.0000	54.21
$	127 Terphenyl-d14	244	15.093	15.093	(0.846)	748868	50.0000	52.87
	128 Butylbenzylphthalate	149	16.857	16.857	(0.944)	840419	50.0000	60.33
	129 3,3'-Dichlorobenzidine	252	18.023	18.023	(1.010)	243623	50.0000	49.23
	130 Benzo(a)anthracene	228	17.809	17.809	(0.998)	834639	50.0000	46.18
	131 Chrysene	228	17.927	17.927	(1.004)	800909	50.0000	48.52
	132 Bis(2-ethylhexyl)phthalate	149	18.810	18.810	(1.054)	998592	50.0000	54.92
*	145 Perylene-d12	264	21.664	21.664	(1.000)	500591	40.0000	
	146 Di-n-octylphthalate	149	20.521	20.521	(0.947)	1588050	50.0000	57.07
	147 Benzo(b)fluoranthene	252	20.746	20.746	(0.958)	753029	50.0000	48.83
	148 Benzo(k)fluoranthene	252	20.822	20.822	(0.961)	743413	50.0000	46.47
	149 Benzo(a)pyrene	252	21.512	21.512	(0.993)	700417	50.0000	52.67
	150 Indeno(1,2,3-cd)pyrene	276	24.452	24.452	(1.129)	573011	50.0000	50.51
	151 Dibenz(a,h)anthracene	278	24.554	24.554	(1.133)	533130	50.0000	46.68
	152 Benzo(g,h,i)perylene	276	24.910	24.910	(1.150)	601299	50.0000	51.07

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Date : 27-JUL-2006 13:16
Client ID: CCV050PPM
Instrument: bna1.i
Sample Info: CCV050PPM;;;;;SV3640
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

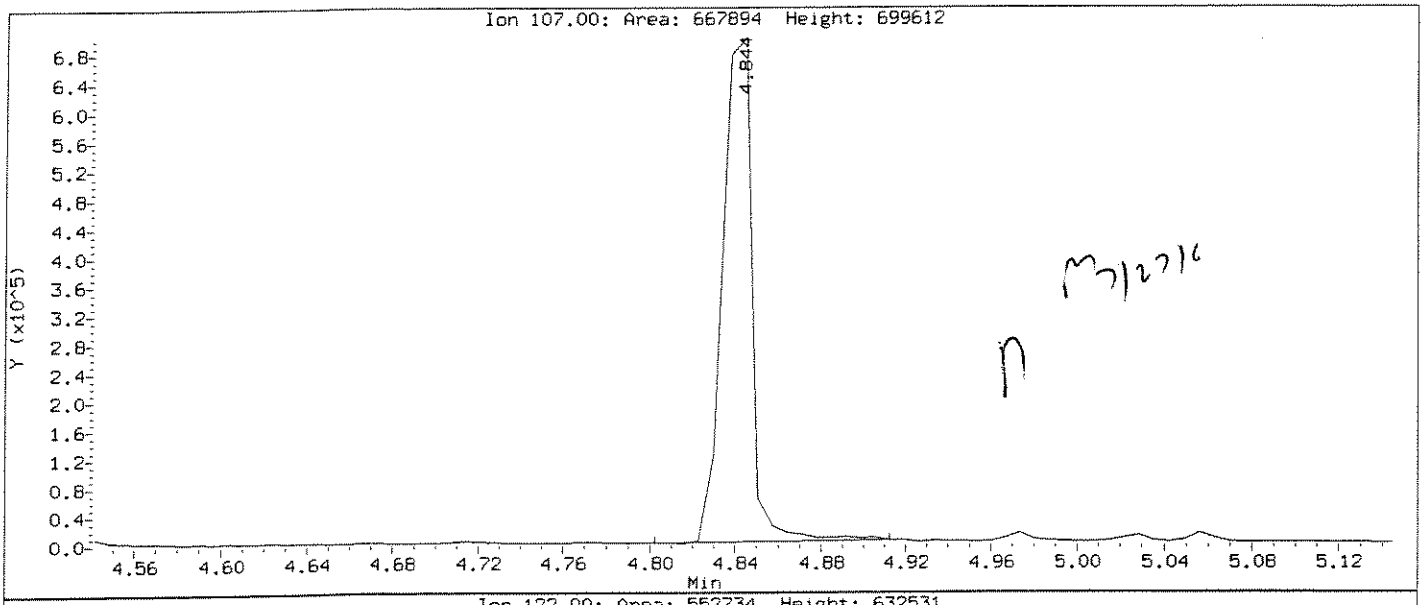
000419

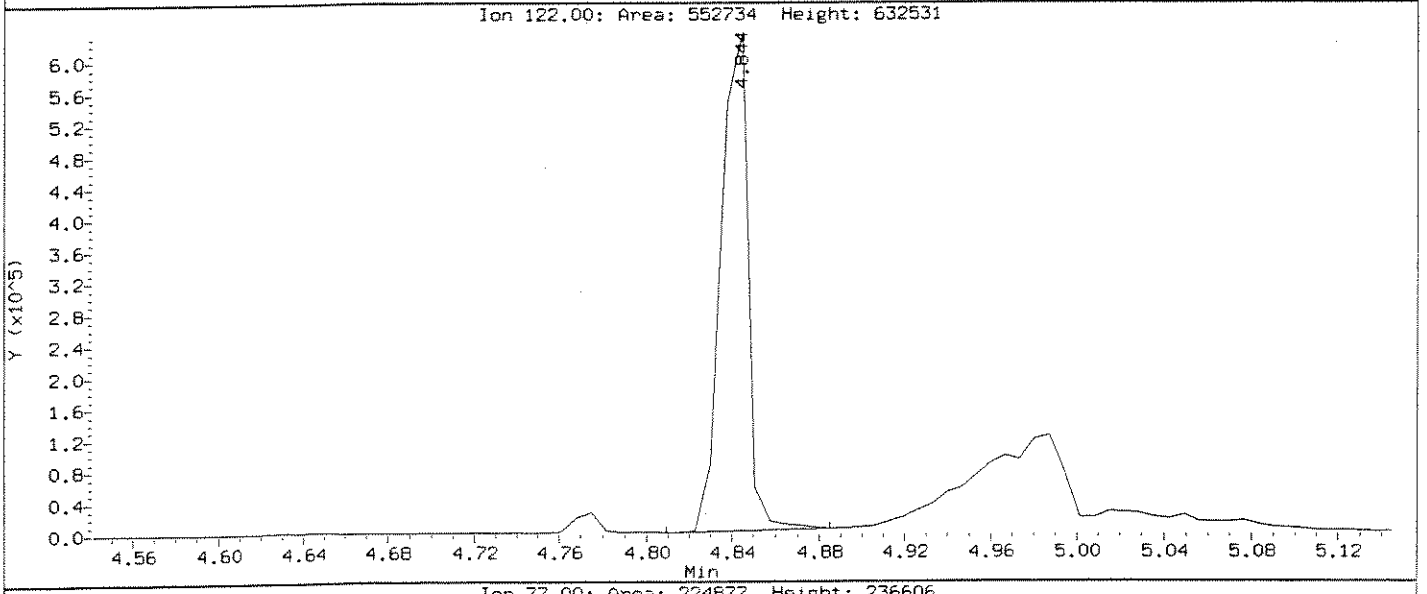


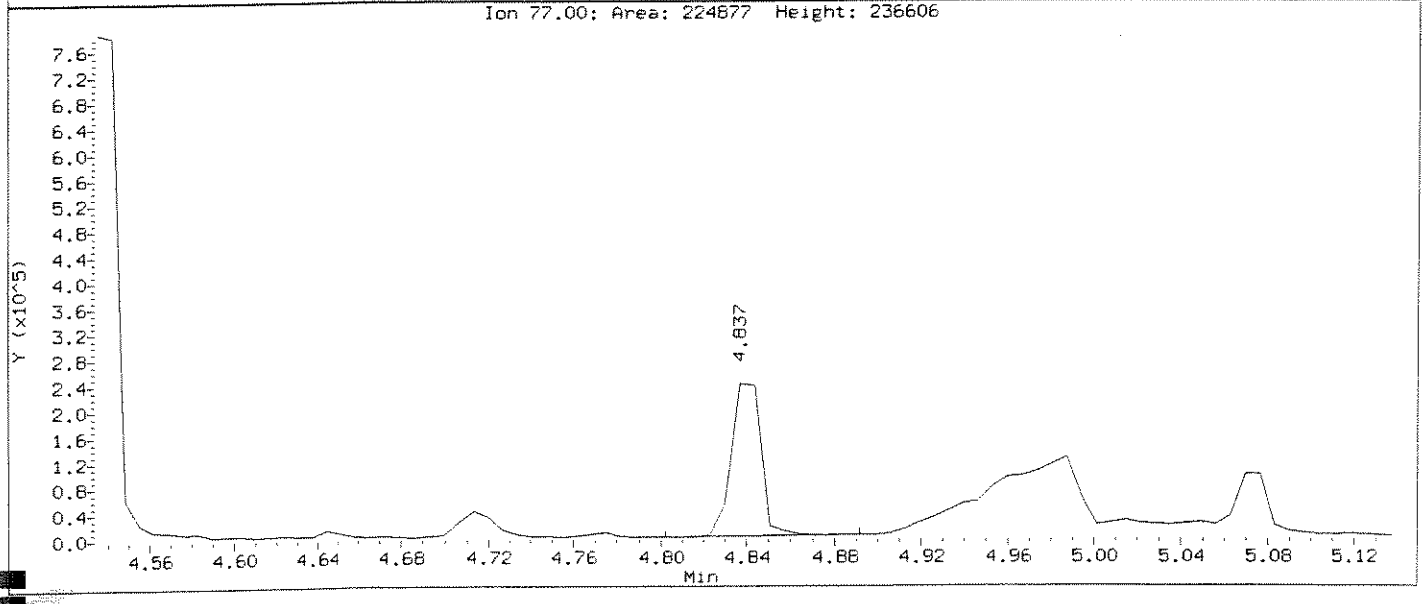
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Injection Date: 27-JUL-2006 13:16
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: 2,4-Dimethylphenol
CAS Number: 105-67-9



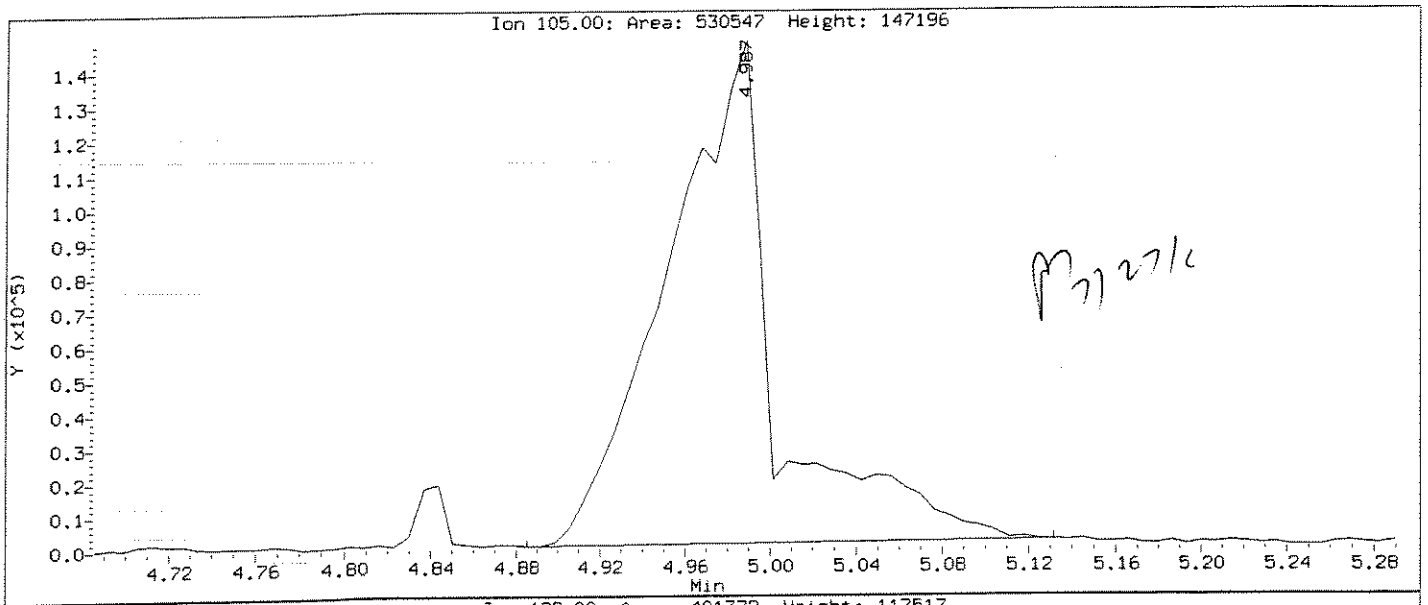


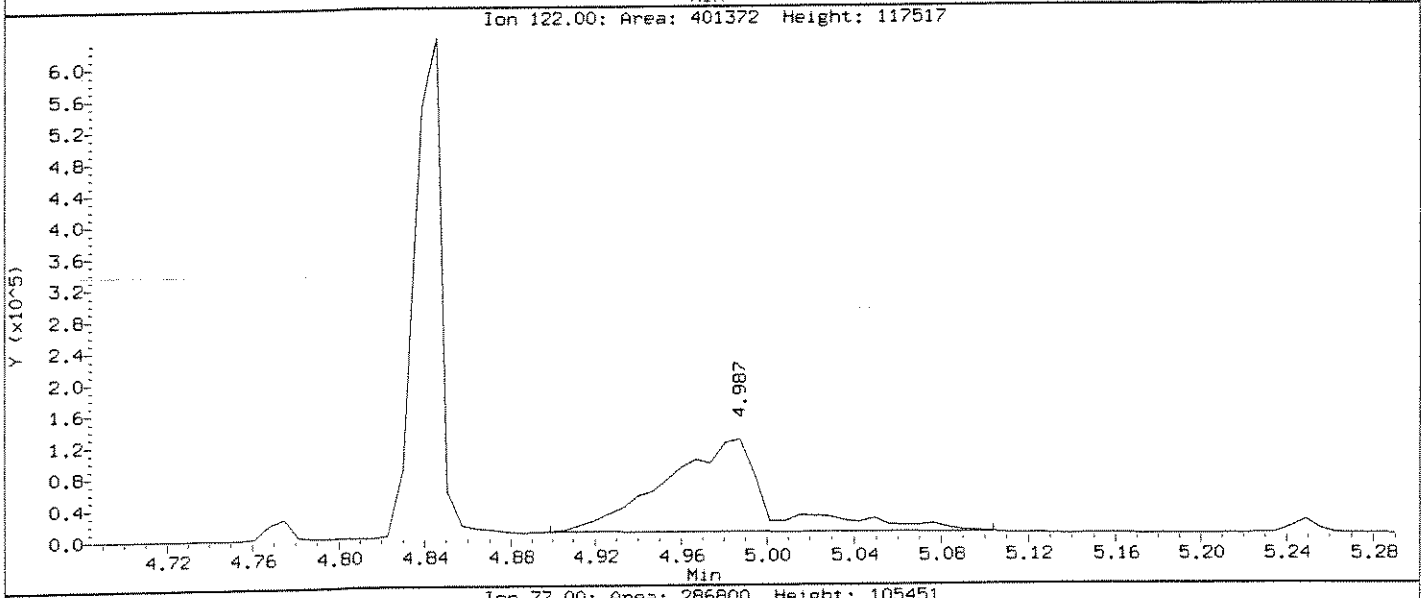


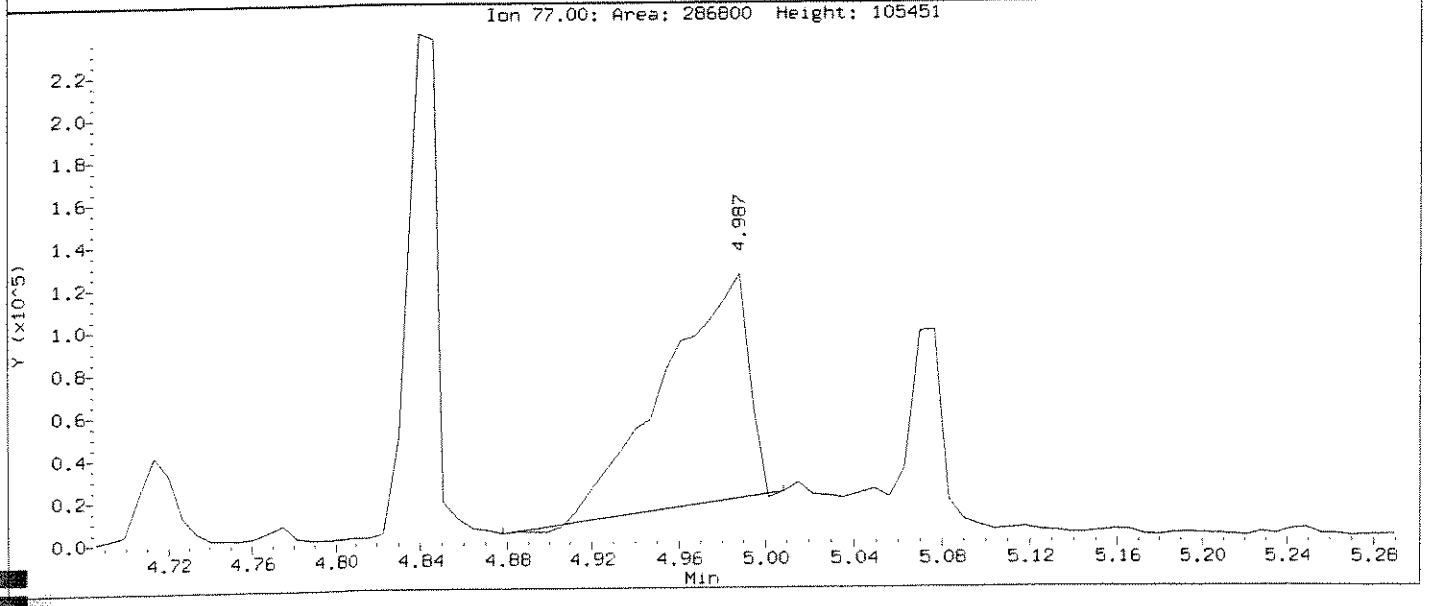
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\CCV050S.D
Injection Date: 27-JUL-2006 13:16
Instrument: bna1.i
Client Sample ID: CCV050PPM

Compound: Benzoic acid
CAS Number: 65-85-0







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

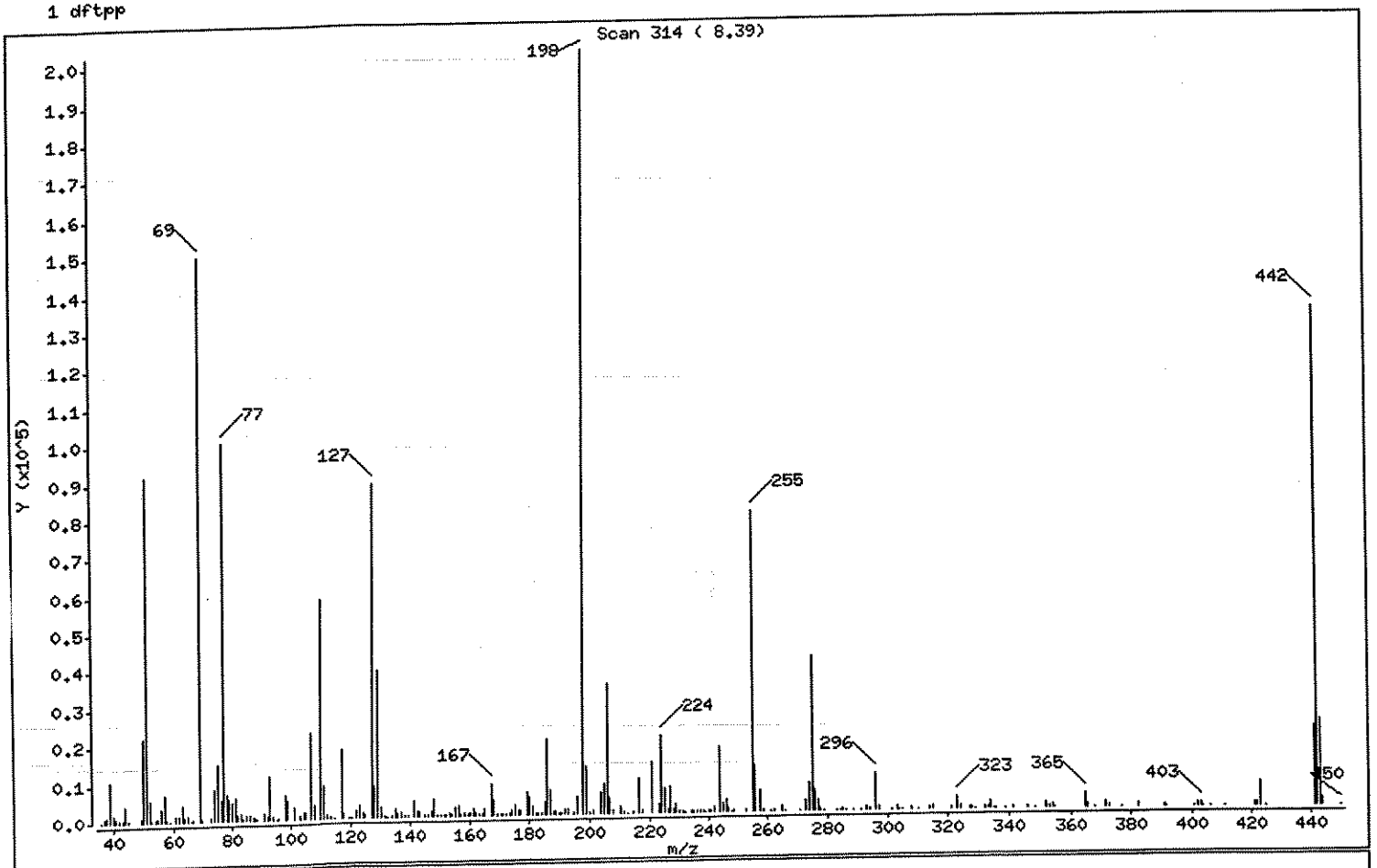
Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.19
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	74.01
70	Less than 2.00% of mass 69	0.15 (0.21)
127	40.00 - 60.00% of mass 198	43.74
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.31
275	10.00 - 30.00% of mass 198	20.18
365	Greater than 1.00% of mass 198	1.79
441	Present, but less than mass 443	10.26
442	Greater than 40.00% of mass 198	65.34
443	17.00 - 23.00% of mass 442	11.26 (17.24)

4/20/06

MS/MSC

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	154	117.00	18368	186.90	6565	276.85	2645
37.00	723	117.80	1314	187.90	896	277.75	492
38.05	1401	119.20	197	188.85	794	278.85	156
39.05	10590	119.90	214	190.15	286	282.95	230
40.05	1902	120.80	210	190.85	678	283.95	179
41.05	826	121.90	1803	191.95	1553	284.65	407
41.85	298	123.00	3242	192.95	1629	286.20	151
43.15	471	124.05	1191	194.85	379	288.70	111
44.05	4365	124.95	999	195.95	4884	290.70	117
45.05	376	126.95	88776	197.95	202944	292.90	856
49.10	786	128.05	8332	198.85	12801	293.80	279
50.10	21760	128.95	39088	200.00	372	295.95	9617
51.10	91712	129.95	2746	201.20	823	296.85	1078
52.10	5841	131.15	321	204.00	5539	300.85	143
53.00	141	132.25	155	205.00	8015	302.95	1115
54.00	235	132.75	187	206.00	34400	303.75	203
55.00	842	133.85	563	207.00	4033	304.95	182
56.00	3307	135.00	2562	207.90	916	307.70	270
57.00	6940	135.90	910	210.75	1809	310.00	163
57.90	391	136.90	1314	211.95	290	313.90	305
59.00	166	137.80	309	212.75	166	314.90	845
61.05	1334	139.30	324	214.85	447	320.95	360
62.05	1502	141.00	4184	216.85	9152	322.95	3481
63.05	4161	142.00	1581	217.95	980	323.95	702
63.95	791	142.90	1228	221.00	13486	326.95	500
65.05	1620	144.90	234	223.10	2216	327.85	257
65.95	129	145.95	498	224.00	20664	328.70	102
67.05	260	147.05	1405	224.90	6547	331.80	307
68.95	150208	147.95	4643	226.00	1054	332.90	266
70.00	314	148.95	585	226.90	7056	333.90	1639
73.00	726	149.95	280	228.00	1122	335.10	202
74.00	8447	151.05	463	228.90	2397	335.80	196
75.00	15008	151.55	503	229.90	390	338.80	180
76.20	5712	152.05	415	230.80	473	340.95	413
77.00	100576	152.95	996	231.65	154	345.85	370

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0419B1.D
Spectrum: Scan 314 (8.39)
Location of Maximum: 197.95
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	7056	153.95	636	232.55	170	348.45	105
79.00	5792	154.95	2349	233.85	274	351.90	1405
80.00	4464	155.95	2706	234.85	610	352.90	404
81.05	6022	156.90	672	235.75	436	354.00	1091
82.05	1530	157.90	873	236.85	354	354.90	111
83.05	1841	159.00	606	238.05	237	364.85	3632
83.75	249	159.90	1129	238.65	156	365.85	745
84.95	1489	161.00	1664	239.15	114	368.35	110
85.95	1436	161.80	812	239.85	269	371.90	1334
87.05	818	162.70	410	240.95	421	372.90	336
87.85	364	164.00	382	241.95	1516	377.30	102
88.75	236	164.90	1891	244.00	17488	382.85	745
90.95	1659	166.95	8194	245.00	2158	390.95	287
92.00	1084	167.85	4102	245.90	3187	391.75	205
93.00	11628	168.95	573	246.90	741	400.90	162
93.90	826	169.95	446	247.90	228	401.90	781
94.90	124	170.85	308	248.70	697	402.90	845
96.00	349	171.95	583	252.95	280	403.95	191
98.00	6657	173.15	699	254.95	80080	405.95	143
98.90	4911	173.95	1534	255.95	11952	410.75	128
101.00	3124	174.95	2950	257.85	5508	421.00	804
103.15	910	175.95	1194	258.85	513	421.90	1064
104.05	2102	176.85	1355	261.05	206	422.90	6620
104.95	1994	179.00	5989	262.75	252	424.70	111
106.95	22736	180.00	4604	264.80	1634	441.00	20832
107.95	3812	181.00	2308	266.00	146	441.90	132608
109.95	58608	181.90	411	270.80	193	442.90	22856
110.95	8684	183.00	292	273.00	2809	443.90	2053
111.95	1154	184.10	378	273.90	7711	449.85	138
113.10	388	185.00	3403	274.95	40944		
114.50	192	186.00	19888	275.95	5776		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1.D

Date : 19-APR-2006 15:30

Client ID: 50ppm DFTPP

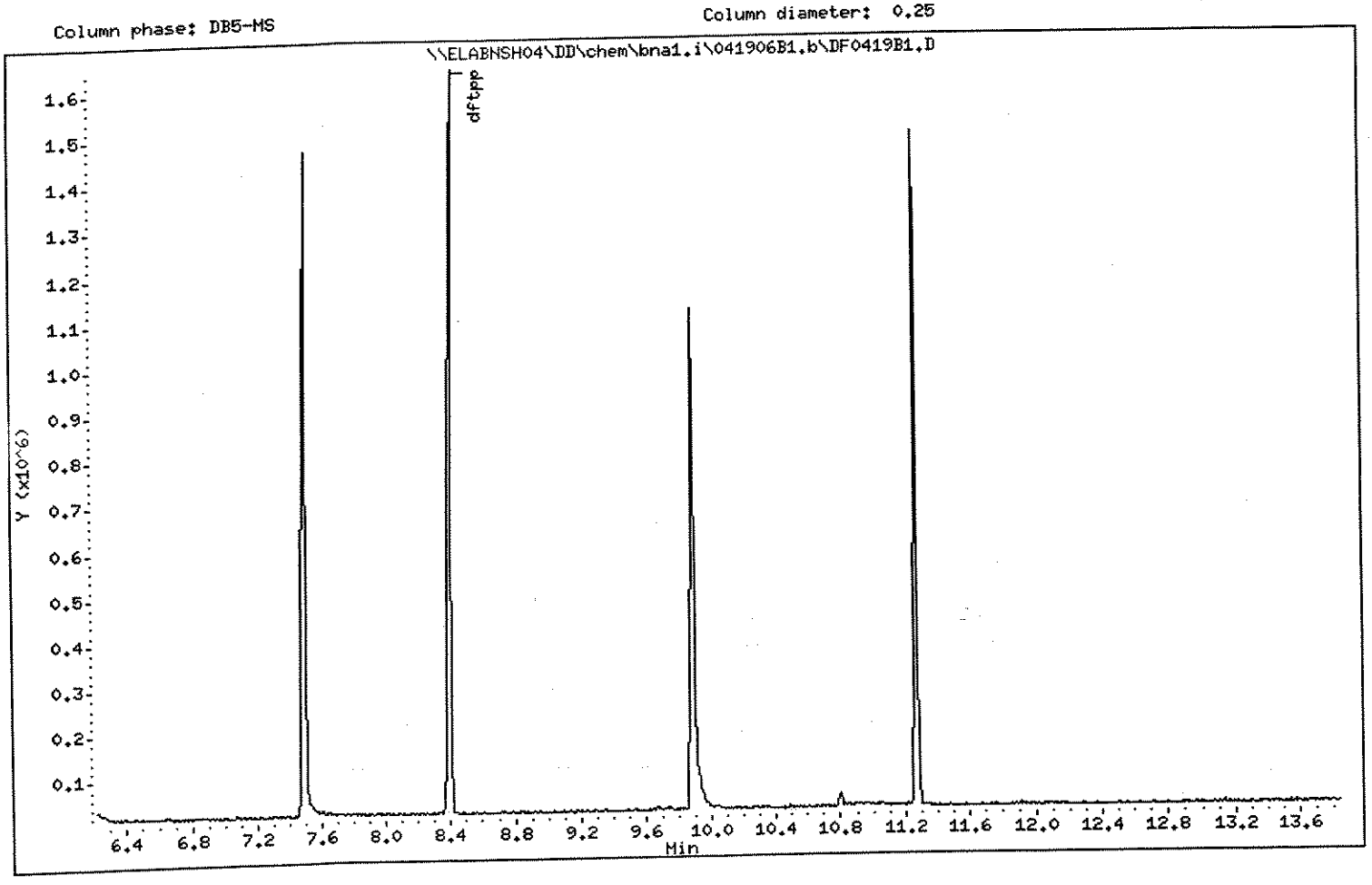
Instrument: bna1.i

Sample Info: DF0419B1;;;;;SV3529

Operator: ADM

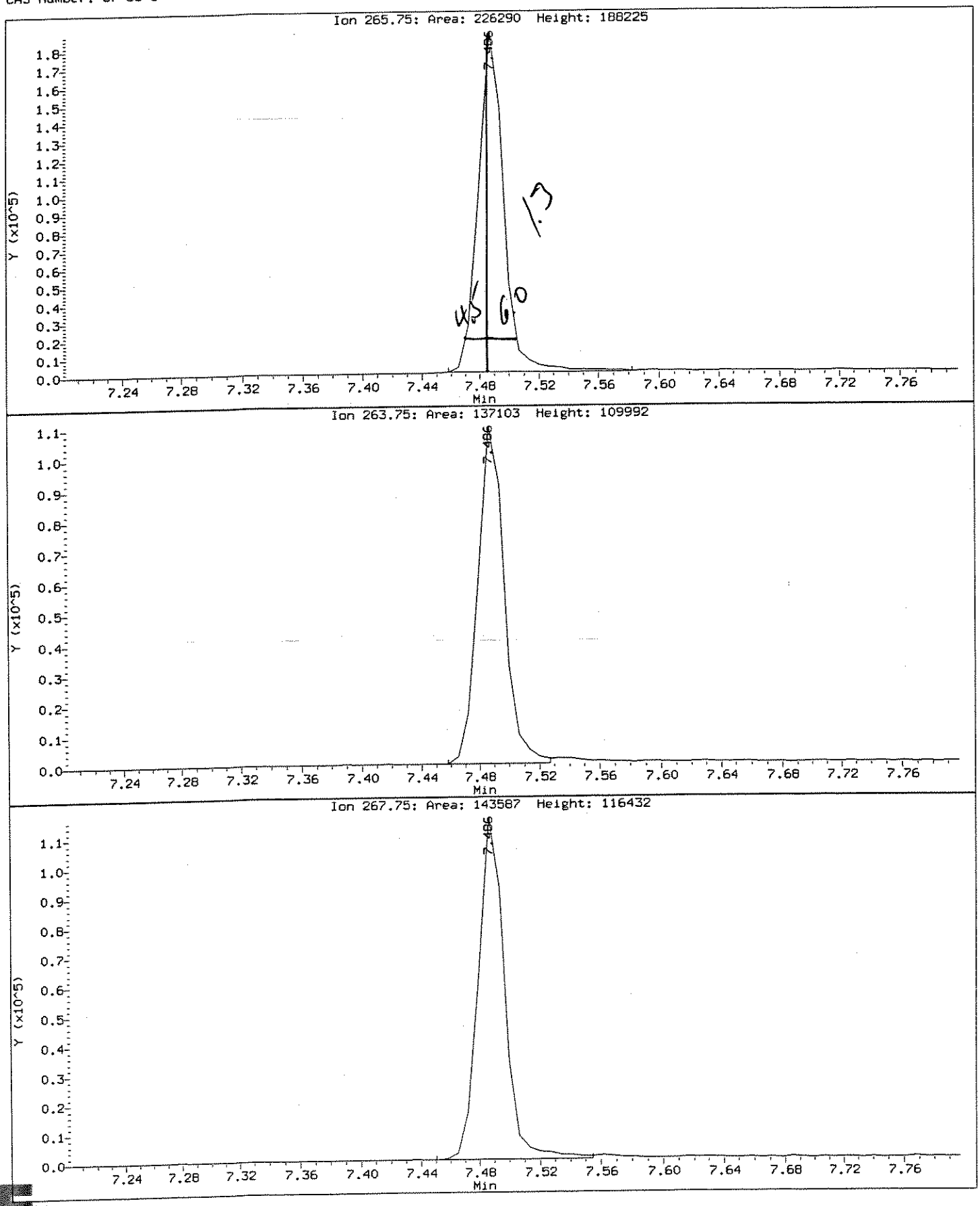
Column phase: DB5-MS

Column diameter: 0.25



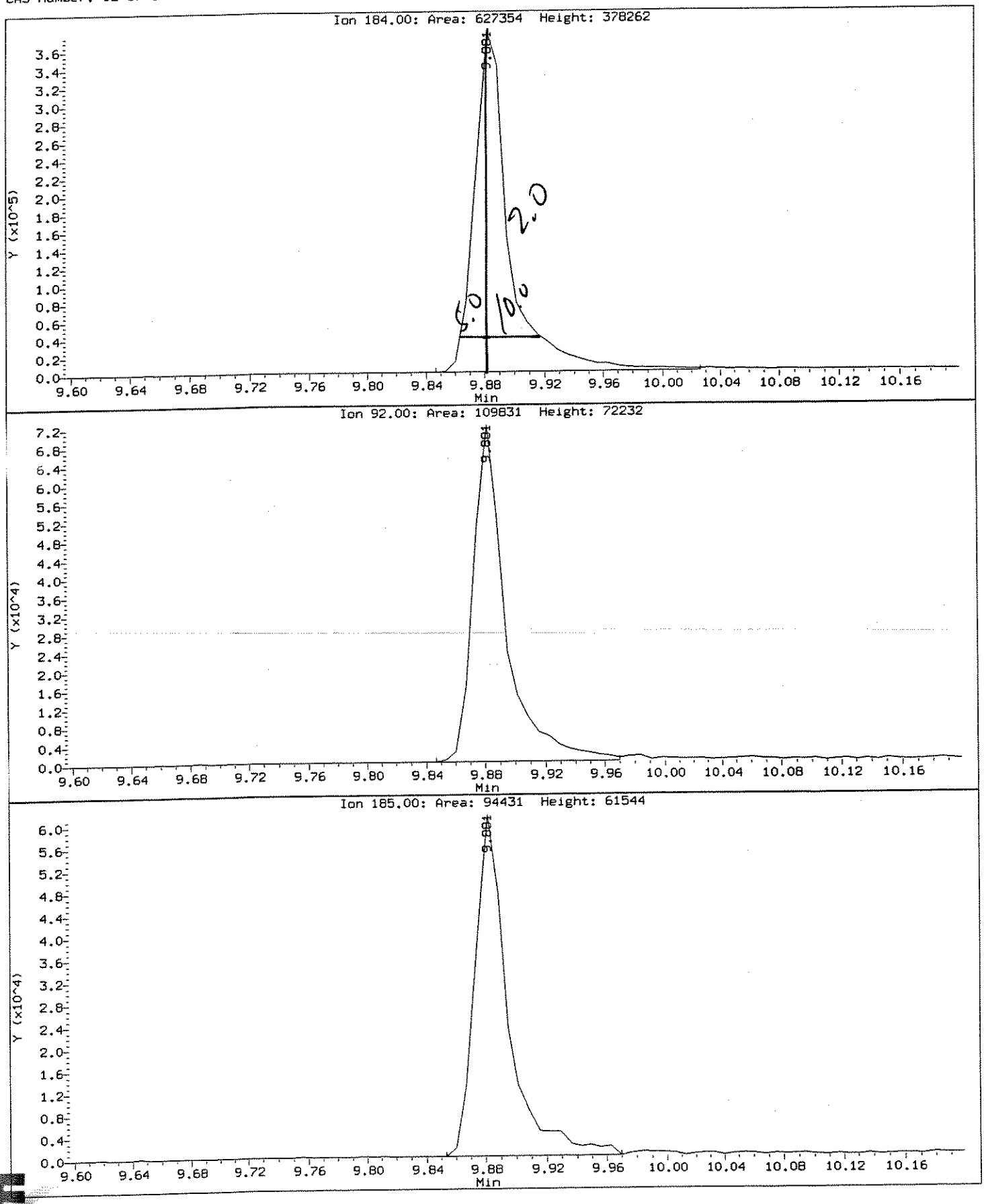
Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Injection Date: 19-APR-2006 15:30
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Report Date: 20-Apr-2006 14:22

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\DF0419B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 19-APR-2006 15:30
Operator : ADM Inst ID: bna1.i
Smp Info : DF0419B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\041906B1.b\dftppbn1ex.m
Meth Date : 17-Apr-2006 15:31 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-BURCHFIELD

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	7.485	7.500	-0.015	226290			
2 Benzidine	184	9.880	9.900	-0.020	627354			(Q)
4 4,4'-DDD	235	10.800	10.800	0.000	7101			
5 4,4'-DDT	235	11.271	11.300	-0.029	331693			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

4,4'-DDT Breakdown = 7101 / (7101 + 331693) x100 = 0.2% ✓

4/20/06

mu/u/c

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

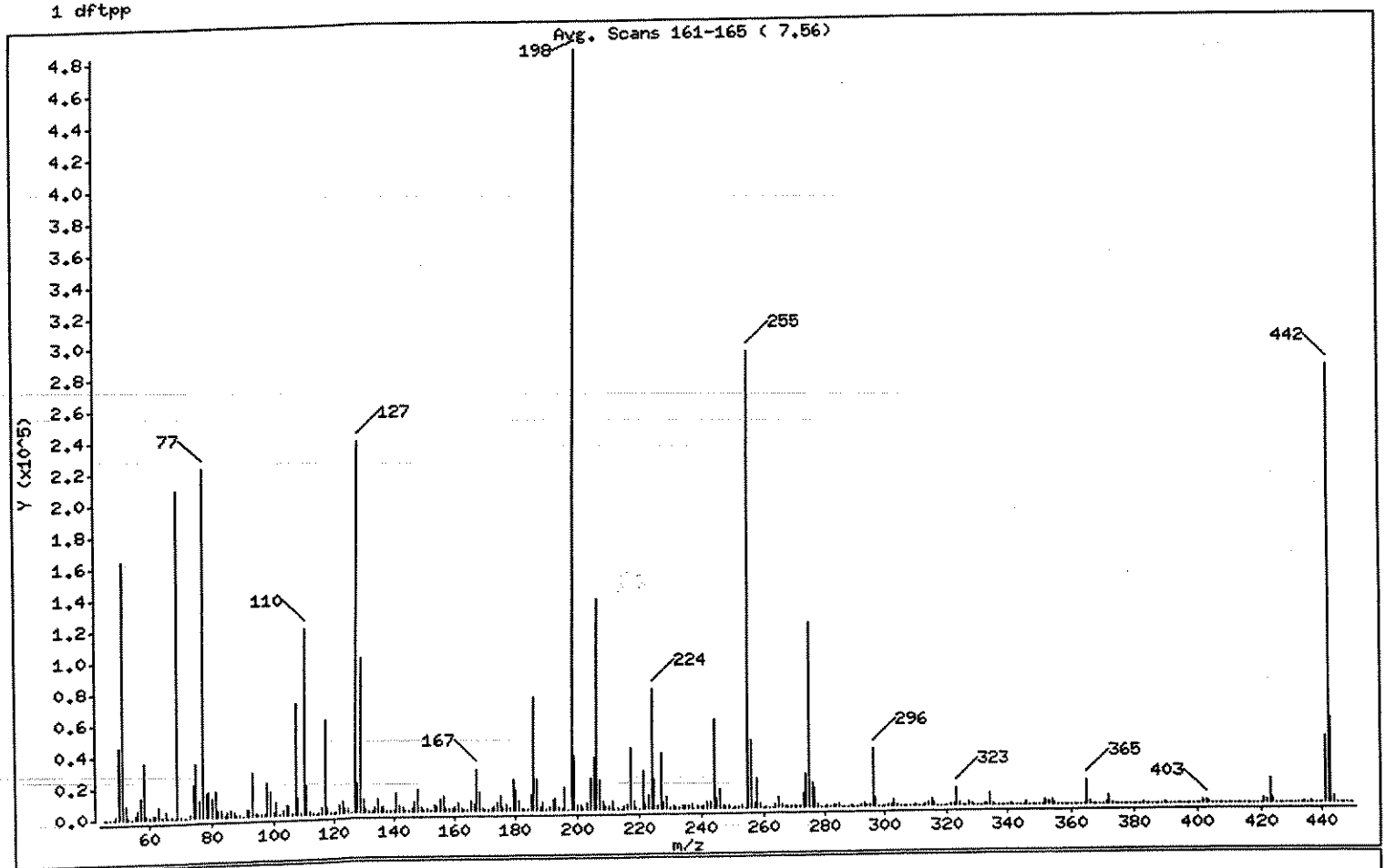
Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.09
68	Less than 2.00% of mass 69	0.05 (0.12)
69	Mass 69 relative abundance	43.24
70	Less than 2.00% of mass 69	0.33 (0.76)
127	40.00 - 60.00% of mass 198	49.03
197	Less than 1.00% of mass 198	0.04
199	5.00 - 9.00% of mass 198	7.08
275	10.00 - 30.00% of mass 198	24.47
365	Greater than 1.00% of mass 198	3.24
441	Present, but less than mass 443	8.75
442	Greater than 40.00% of mass 198	57.88
443	17.00 - 23.00% of mass 442	11.21 (19.36)

4/25/06
(042306

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D

Spectrum: Avg. Scans 161-165 (7.56)

Location of Maximum: 198.00

Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	407	147.00	6498	249.00	1811	351.00	189
46.00	220	148.00	14562	250.00	373	352.00	2909
47.00	307	149.00	3024	251.00	924	353.00	1935
48.00	337	150.00	1001	252.00	1106	354.00	3210
49.00	1818	151.00	1860	253.00	2013	355.00	676
50.00	45616	152.00	1247	254.00	117	356.00	99
51.00	164672	153.00	4466	255.00	292160	357.00	83
52.00	8555	154.00	3633	256.00	43256	358.00	60
53.00	1462	155.00	7980	257.00	3090	359.00	407
54.00	508	156.00	10555	258.00	18672	360.00	130
55.00	2545	157.00	2283	259.00	2920	361.00	235
56.00	5449	158.00	2424	260.00	393	362.00	80
57.00	13015	159.00	2048	261.00	601	363.00	104
58.00	35320	160.00	3776	262.00	177	364.00	108
59.00	1715	161.00	6105	263.00	156	365.00	15658
60.00	682	162.00	2053	264.00	1703	366.00	1910
61.00	2635	163.00	891	265.00	7148	367.00	199
62.00	2576	164.00	1010	266.00	2659	368.00	61
63.00	7987	165.00	6396	267.00	645	369.00	47
64.00	1335	166.00	4023	268.00	1464	370.00	401
65.00	4027	167.00	26456	269.00	624	371.00	919
66.00	387	168.00	12742	270.00	863	372.00	5045
67.00	802	169.00	2343	271.00	885	373.00	1309
68.00	249	170.00	978	272.00	1483	374.00	163
69.00	208896	171.00	1360	273.00	8555	375.00	62
70.00	1579	172.00	2294	274.00	21160	376.00	60
71.00	524	173.00	3585	275.00	118208	377.00	377
72.00	372	174.00	5775	276.00	15980	378.00	86
73.00	2476	175.00	10261	277.00	11948	379.00	54
74.00	21592	176.00	2782	278.00	1809	380.00	10
75.00	34432	177.00	4841	279.00	326	381.00	56
76.00	11196	178.00	1919	280.00	166	382.00	15
77.00	222336	179.00	19672	281.00	704	383.00	1295
78.00	15033	180.00	13169	282.00	484	384.00	365
79.00	16624	181.00	7014	283.00	1607	385.00	146

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	12503	182.00	1168	284.00	791	386.00	63
81.00	17088	183.00	879	285.00	1959	387.00	124
82.00	4263	184.00	1464	286.00	545	388.00	89
83.00	4293	185.00	10039	287.00	183	389.00	157
84.00	949	186.00	71840	288.00	145	390.00	676
85.00	3459	187.00	19992	289.00	579	391.00	439
86.00	4815	188.00	2425	290.00	414	392.00	369
87.00	3024	189.00	5352	291.00	296	393.00	259
88.00	1055	190.00	1027	292.00	776	394.00	44
89.00	817	191.00	2767	293.00	2411	395.00	103
90.00	194	192.00	7043	294.00	670	396.00	58
91.00	4277	193.00	7798	295.00	1210	397.00	136
92.00	4413	194.00	1728	296.00	36264	398.00	54
93.00	27384	195.00	1570	297.00	5374	399.00	13
94.00	2133	196.00	14343	298.00	397	400.00	25
95.00	1492	197.00	181	299.00	160	401.00	348
96.00	1646	198.00	483072	300.00	146	402.00	1964
97.00	932	199.00	34208	301.00	778	403.00	2662
98.00	20968	200.00	2947	302.00	750	404.00	967
99.00	15993	201.00	3849	303.00	4586	405.00	179
100.00	2289	202.00	674	304.00	1125	406.00	48
101.00	9383	203.00	4373	305.00	268	407.00	33
102.00	804	204.00	20360	306.00	28	408.00	80
103.00	3527	205.00	33664	307.00	85	409.00	53
104.00	6557	206.00	134784	308.00	504	410.00	200
105.00	6223	207.00	19064	309.00	492	411.00	79
106.00	1181	208.00	5121	310.00	742	412.00	54
107.00	71768	209.00	1949	311.00	236	413.00	87
108.00	10894	210.00	2633	312.00	155	414.00	69
109.00	873	211.00	5656	313.00	558	415.00	206
110.00	119376	212.00	73	314.00	1694	416.00	116
111.00	18496	213.00	582	315.00	4052	417.00	123
112.00	2565	214.00	257	316.00	2511	418.00	117
113.00	963	215.00	1725	317.00	418	419.00	196
114.00	404	216.00	3354	318.00	106	420.00	71

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0421B1.D
Spectrum: Avg. Scans 161-165 (7.56)
Location of Maximum: 198.00
Number of points: 406

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	828	217.00	38936	319.00	171	421.00	2794
116.00	4307	218.00	5228	320.00	175	422.00	2215
117.00	60544	219.00	599	321.00	1264	423.00	15940
118.00	4678	220.00	79	322.00	688	424.00	2968
119.00	1070	221.00	25016	323.00	11088	425.00	356
120.00	1327	222.00	2799	324.00	2091	426.00	203
121.00	680	223.00	8402	325.00	279	427.00	213
122.00	5220	224.00	76744	326.00	372	428.00	193
123.00	7639	225.00	19192	327.00	1735	429.00	232
124.00	3766	226.00	1998	328.00	1351	430.00	187
125.00	3229	227.00	35432	329.00	317	431.00	390
126.00	88	228.00	4956	330.00	56	432.00	450
127.00	236864	229.00	7347	331.00	122	433.00	300
128.00	19336	230.00	1218	332.00	791	434.00	687
129.00	99104	231.00	2742	333.00	1181	435.00	135
130.00	8870	232.00	769	334.00	7843	436.00	1008
131.00	2332	233.00	800	335.00	1473	437.00	551
132.00	1369	234.00	2465	336.00	237	438.00	554
133.00	1139	235.00	2535	337.00	68	439.00	431
134.00	3457	236.00	1728	338.00	98	440.00	24
135.00	9254	237.00	2819	339.00	212	441.00	42248
136.00	2956	238.00	501	340.00	233	442.00	279616
137.00	3939	239.00	1855	341.00	1371	443.00	54144
138.00	1053	240.00	1375	342.00	405	444.00	4554
139.00	755	241.00	2345	343.00	172	445.00	328
140.00	1509	242.00	4305	344.00	78	446.00	68
141.00	12792	243.00	4434	345.00	105	447.00	70
142.00	4240	244.00	56984	346.00	2139	448.00	18
143.00	3538	245.00	7193	347.00	472	449.00	25
144.00	907	246.00	12419	348.00	86	450.00	13
145.00	748	247.00	2599	349.00	53		
146.00	2421	248.00	623	350.00	128		

Data File: \\ELABNSH04\DD\chem\bna3.i\042106b3.b\DF0421B1.D

Date : 21-APR-2006 15:24

Client ID: 10ppm DFTPP

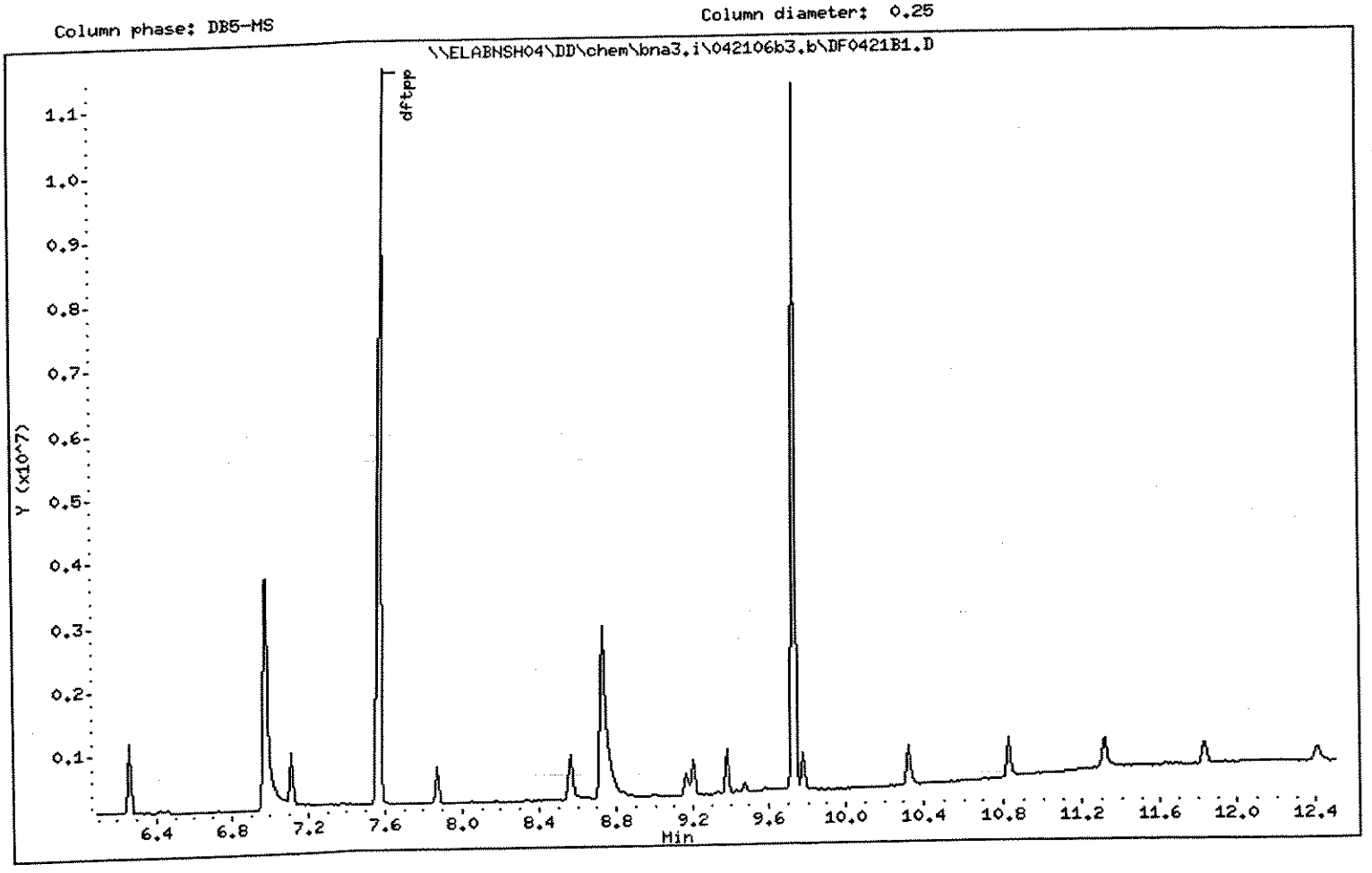
Instrument: bna3.i

Sample Info: DF0421B1;;;;;SV3177

Operator: ADM

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\DF0726B1.D

Date : 26-JUL-2006 13:08

Client ID: 10ppm DFTPP

Instrument: bna3.i

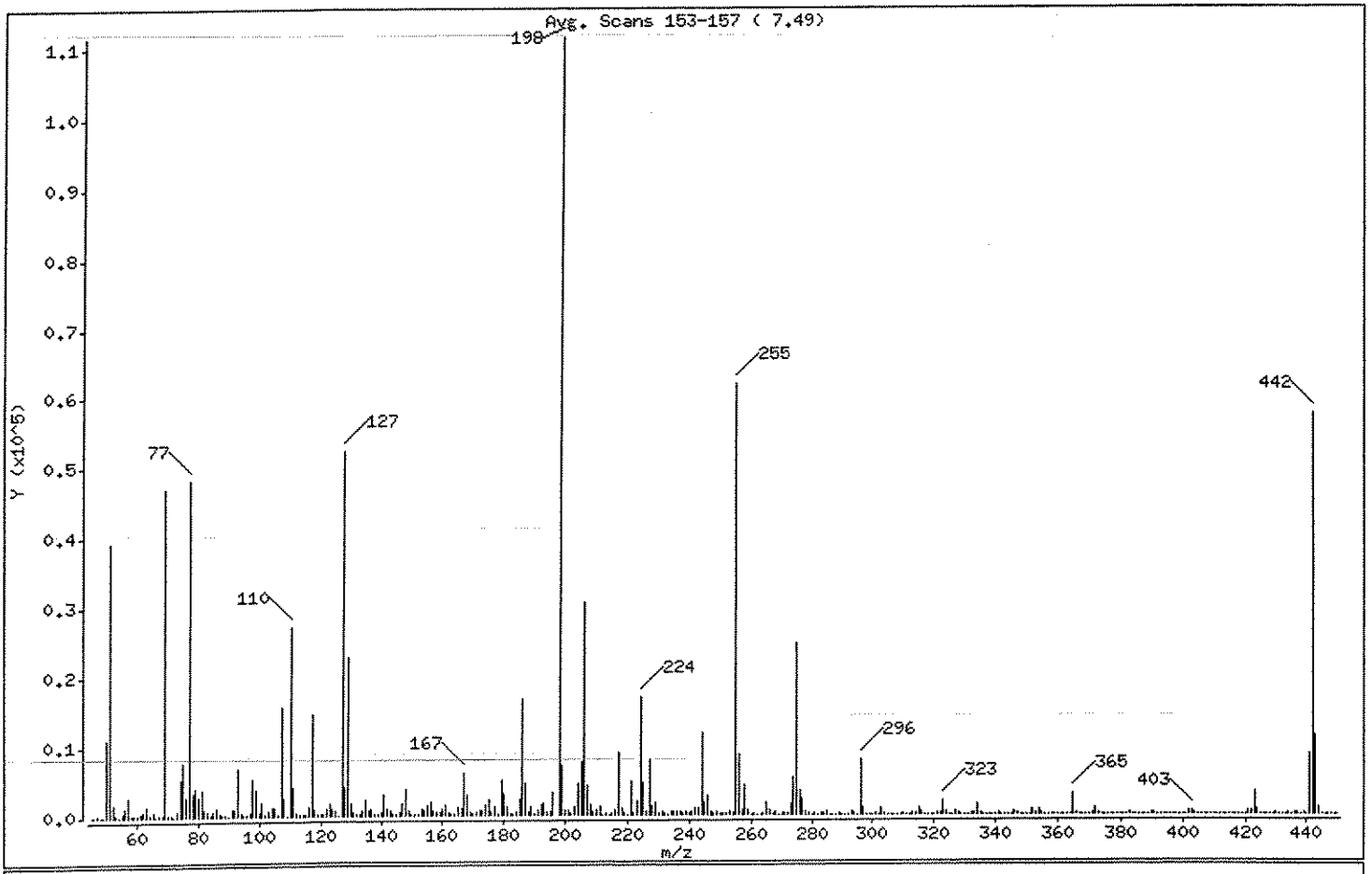
Sample Info: DF0726B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.27
68	Less than 2.00% of mass 69	0.14 (0.34)
69	Mass 69 relative abundance	42.16
70	Less than 2.00% of mass 69	0.27 (0.65)
127	40.00 - 60.00% of mass 198	47.03
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	22.23
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	7.82
442	Greater than 40.00% of mass 198	51.53
443	17.00 - 23.00% of mass 442	10.07 (19.54)

MJ 7/27/06

RW 7-27-06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\DF0726B1.D

Date : 26-JUL-2006 13:08

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0726B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0726B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	100	147.00	1785	250.00	138	352.00	793
46.00	21	148.00	3838	251.00	175	353.00	379
47.00	133	149.00	680	252.00	225	354.00	737
48.00	73	150.00	216	253.00	572	355.00	190
49.00	41	151.00	384	254.00	129	356.00	54
50.00	10958	152.00	337	255.00	61928	357.00	40
51.00	39320	153.00	974	256.00	8659	358.00	42
52.00	1736	154.00	792	257.00	747	359.00	88
53.00	199	155.00	1669	258.00	4369	360.00	12
54.00	103	156.00	2086	259.00	711	361.00	35
55.00	551	157.00	701	260.00	124	362.00	18
56.00	1301	158.00	632	261.00	170	363.00	60
57.00	2824	159.00	493	262.00	82	364.00	26
58.00	328	160.00	1031	263.00	34	365.00	3089
59.00	156	161.00	1480	264.00	356	366.00	385
60.00	220	162.00	462	265.00	1859	367.00	38
61.00	580	163.00	200	266.00	872	368.00	21
62.00	680	164.00	238	267.00	229	369.00	23
63.00	1540	165.00	1372	268.00	405	370.00	87
64.00	276	166.00	1061	269.00	76	371.00	163
65.00	875	167.00	6184	270.00	209	372.00	1110
66.00	104	168.00	3104	271.00	163	373.00	276
67.00	200	169.00	470	272.00	297	374.00	24
68.00	158	170.00	308	273.00	1660	375.00	39
69.00	47008	171.00	402	274.00	5382	376.00	18
70.00	306	172.00	731	275.00	24792	377.00	50
71.00	257	173.00	788	276.00	3535	378.00	13
72.00	78	174.00	1448	277.00	2315	379.00	26
73.00	818	175.00	2322	278.00	414	380.00	15
74.00	5326	176.00	610	279.00	182	381.00	5
75.00	7753	177.00	1221	280.00	56	382.00	5
76.00	2918	178.00	343	281.00	182	383.00	256
77.00	48216	179.00	5054	282.00	68	384.00	89
78.00	3435	180.00	3021	283.00	382	385.00	54
79.00	4088	181.00	1364	284.00	210	386.00	18

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\DF0726B1.D

Date : 26-JUL-2006 13:08

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0726B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0726B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	2754	182.00	252	285.00	507	387.00	10
81.00	3967	183.00	231	286.00	102	388.00	25
82.00	1001	184.00	451	287.00	62	389.00	31
83.00	837	185.00	2381	288.00	72	390.00	161
84.00	145	186.00	16608	289.00	141	391.00	197
85.00	795	187.00	4552	290.00	83	392.00	52
86.00	1207	188.00	532	291.00	26	393.00	28
87.00	506	189.00	1328	292.00	95	394.00	26
88.00	133	190.00	226	293.00	513	395.00	5
89.00	142	191.00	655	294.00	229	396.00	26
90.00	70	192.00	1419	295.00	1	397.00	37
91.00	1000	193.00	1723	296.00	7944	398.00	13
92.00	1034	194.00	424	297.00	1156	399.00	35
93.00	7000	195.00	577	298.00	100	400.00	33
94.00	492	196.00	3328	299.00	77	401.00	80
95.00	374	198.00	111504	300.00	46	402.00	433
96.00	338	199.00	7247	301.00	129	403.00	523
97.00	421	200.00	795	302.00	94	404.00	259
98.00	5436	201.00	652	303.00	1009	405.00	56
99.00	3947	202.00	239	304.00	342	406.00	22
100.00	426	203.00	1185	305.00	88	407.00	16
101.00	2061	204.00	4508	306.00	77	408.00	15
102.00	169	205.00	7629	307.00	73	409.00	22
103.00	811	206.00	30624	308.00	109	410.00	25
104.00	1278	207.00	4392	309.00	68	411.00	19
105.00	1314	208.00	1492	310.00	137	412.00	5
106.00	290	209.00	478	311.00	92	413.00	53
107.00	15546	210.00	818	312.00	93	414.00	53
108.00	2610	211.00	1406	313.00	139	415.00	69
109.00	100	212.00	106	314.00	356	416.00	119
110.00	27176	213.00	178	315.00	1069	417.00	21
111.00	4169	214.00	74	316.00	436	418.00	70
112.00	508	215.00	360	317.00	71	419.00	24
113.00	156	216.00	686	318.00	8	420.00	31
114.00	129	217.00	8946	319.00	35	421.00	438

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\DF0726B1.D

Date : 26-JUL-2006 13:08

Client ID: 10ppm DFTPP

Instrument: bna3.i

Sample Info: DF0726B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0726B1.D
Spectrum: Avg. Scans 153-157 (7.49)
Location of Maximum: 198.00
Number of points: 405

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	260	218.00	993	320.00	105	422.00	607
116.00	1225	219.00	151	321.00	236	423.00	3299
117.00	14698	220.00	81	322.00	201	424.00	832
118.00	1042	221.00	4953	323.00	2101	425.00	126
119.00	305	222.00	335	324.00	450	426.00	20
120.00	213	223.00	2056	325.00	93	427.00	54
121.00	242	224.00	16888	326.00	103	428.00	22
122.00	1116	225.00	4576	327.00	509	429.00	87
123.00	1758	226.00	505	328.00	269	430.00	157
124.00	1026	227.00	8076	329.00	91	431.00	85
125.00	856	228.00	1221	330.00	32	432.00	58
126.00	41	229.00	1792	331.00	62	433.00	82
127.00	52440	230.00	256	332.00	220	434.00	129
128.00	4030	231.00	523	333.00	326	435.00	85
129.00	22968	232.00	272	334.00	1575	436.00	164
130.00	1876	233.00	127	335.00	310	437.00	324
131.00	530	234.00	535	336.00	26	438.00	100
132.00	300	235.00	538	337.00	6	439.00	196
133.00	328	236.00	473	338.00	14	440.00	88
134.00	658	237.00	598	339.00	20	441.00	8724
135.00	2227	238.00	129	340.00	93	442.00	57464
136.00	736	239.00	479	341.00	366	443.00	11230
137.00	1071	240.00	282	342.00	120	444.00	1124
138.00	264	241.00	450	343.00	87	445.00	73
139.00	150	242.00	975	344.00	29	446.00	29
140.00	404	243.00	943	345.00	18	447.00	28
141.00	3165	244.00	11924	346.00	598	448.00	14
142.00	1022	245.00	1860	347.00	141	449.00	6
143.00	705	246.00	2711	348.00	17	450.00	1
144.00	336	247.00	628	349.00	26		
145.00	262	248.00	130	350.00	44		
146.00	547	249.00	466	351.00	43		

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\DF0726B1.D

Date : 26-JUL-2006 13:08

Client ID: 10ppm DFTPP

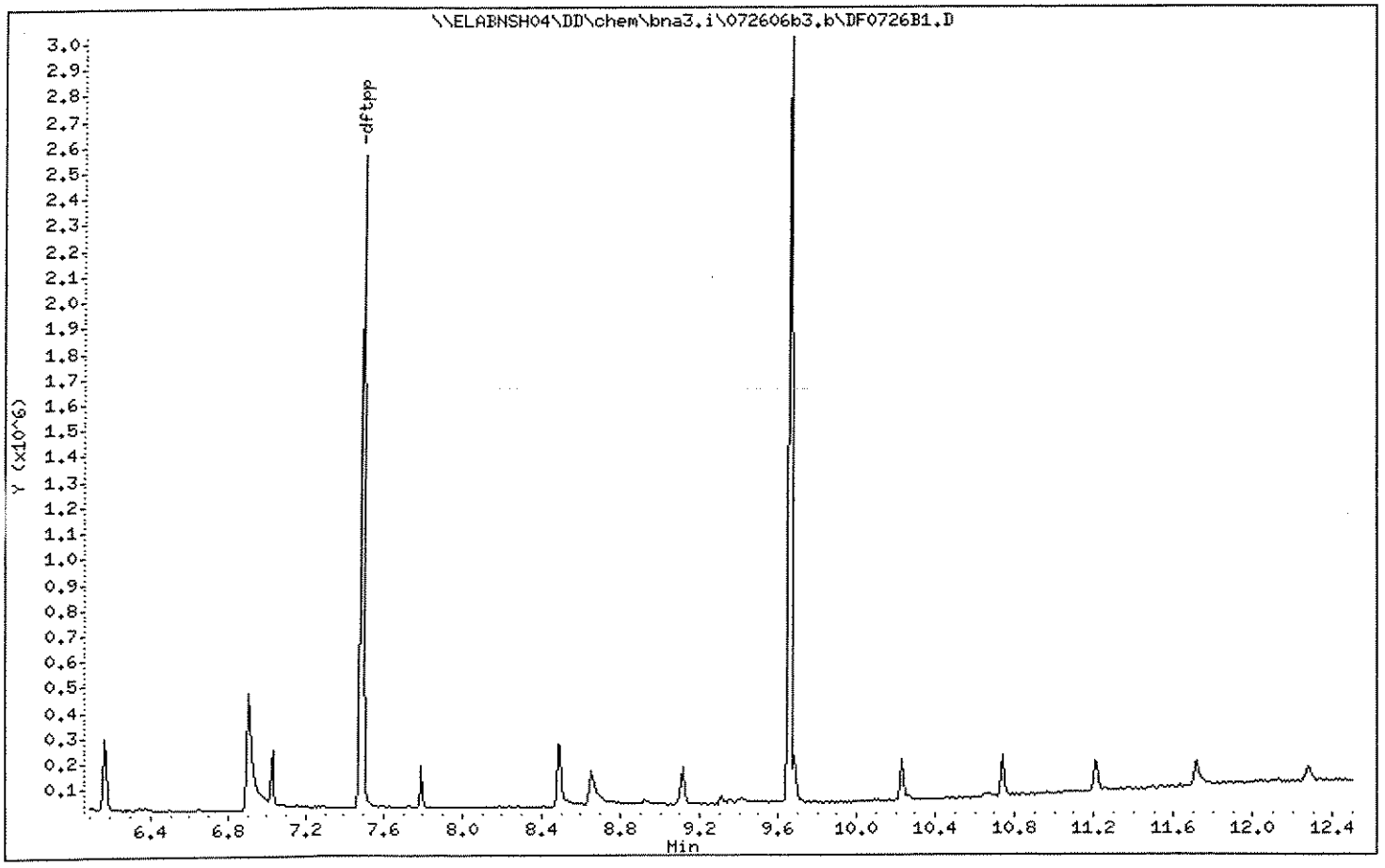
Instrument: bna3.i

Sample Info: DF0726B1;;;;;SV3177

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1.D

Date : 26-JUL-2006 12:17

Client ID: 50ppm DFTPP

Instrument: bna1.i

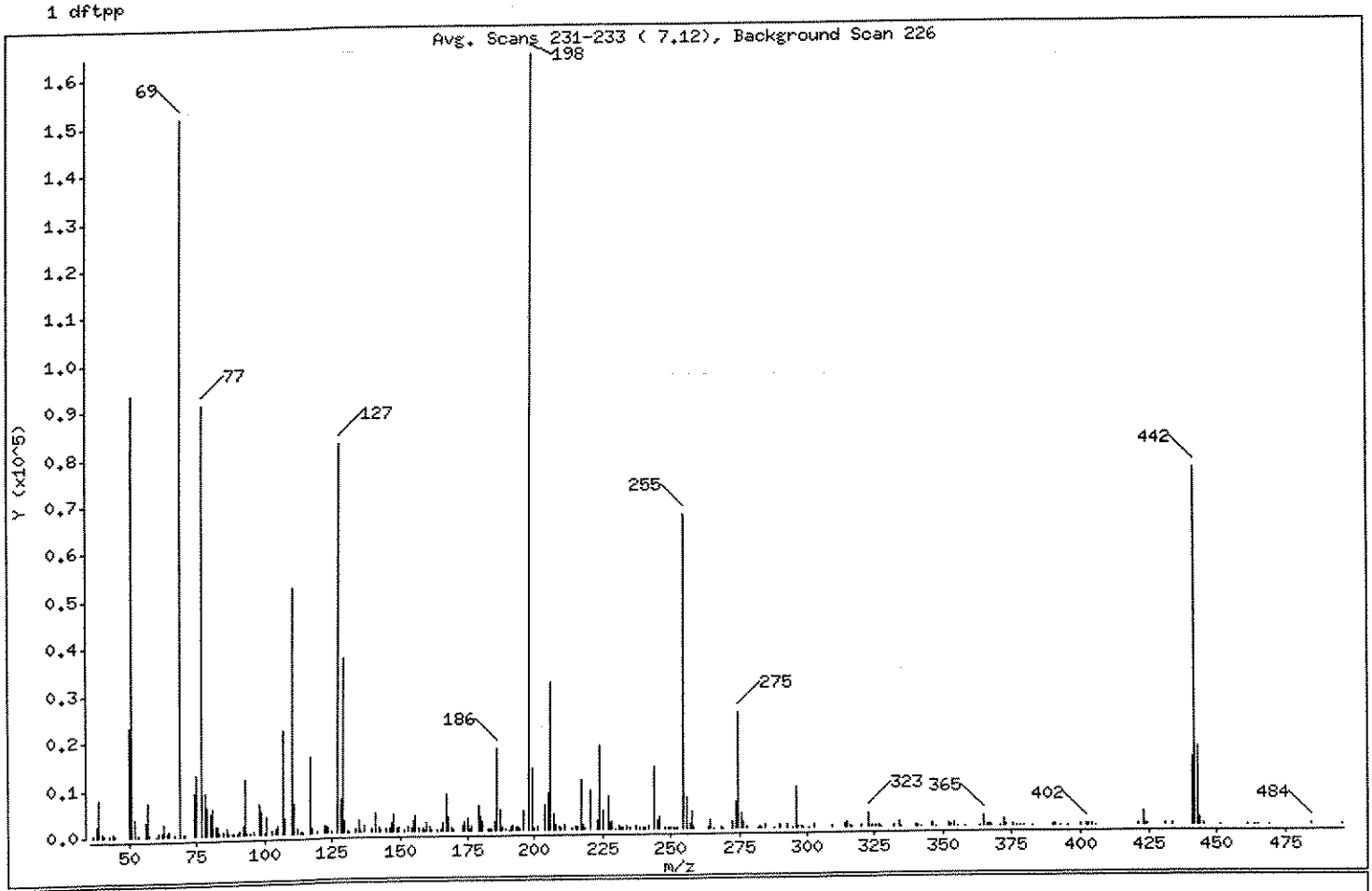
Sample Info: DF0726B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	56.90
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	92.44
70	Less than 2.00% of mass 69	0.27 (0.29)
127	40.00 - 60.00% of mass 198	50.22
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.05
275	10.00 - 30.00% of mass 198	14.98
365	Greater than 1.00% of mass 198	1.34
441	Present, but less than mass 443	8.65
442	Greater than 40.00% of mass 198	46.04
443	17.00 - 23.00% of mass 442	10.08 (21.89)

M 7/26/1

RW 7-26-06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1.D

Date : 26-JUL-2006 12:17

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0726B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0726B1.D
Spectrum: Avg. Scans 231-233 (7.12), Background Scan 226
Location of Maximum: 197.90
Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.05	503	126.85	82504	206.95	3452	309.55	245
37.95	2134	127.95	7097	207.85	1085	313.85	686
38.95	8016	128.95	37224	208.85	661	314.75	1032
39.95	732	129.85	2623	209.65	245	315.85	253
40.95	288	130.90	490	210.85	1042	316.45	188
42.95	198	131.70	101	214.10	403	320.30	212
43.85	854	133.80	754	215.30	762	322.90	2909
44.85	311	134.90	2731	215.80	885	323.90	285
50.00	23240	135.70	504	216.90	10447	325.70	433
51.00	93472	136.90	1360	217.70	1003	326.70	243
51.90	3955	139.90	682	218.70	191	327.50	175
53.10	287	140.95	3978	220.80	8448	332.05	408
55.90	2926	142.05	1148	223.00	1751	333.85	1241
56.90	7057	142.85	914	223.90	17632	334.65	184
57.75	476	144.75	576	224.95	4233	340.30	230
59.95	115	146.05	857	226.85	7077	340.90	395
60.85	938	146.85	2024	227.85	1472	341.80	140
62.05	897	147.85	3759	228.75	1804	345.90	751
62.95	2778	148.95	906	229.75	189	347.20	162
63.95	830	149.85	1222	230.85	673	352.05	852
64.95	1065	151.60	332	231.65	380	352.85	300
66.55	195	152.80	1152	232.75	258	353.95	580
68.90	151872	154.00	630	233.85	722	355.55	179
69.90	447	155.00	2128	234.90	337	358.25	170
70.90	224	155.90	3337	236.90	742	363.60	155
73.90	9178	156.90	746	238.80	506	364.80	2204
74.90	13015	158.00	578	239.90	247	366.00	445
76.90	91216	159.00	452	240.60	540	366.70	326
77.90	9127	159.80	1881	242.10	871	367.40	203
78.95	6176	160.90	1155	243.90	13159	370.85	174
79.95	4465	161.85	286	244.95	1858	371.85	1700
80.95	5729	163.95	256	245.85	2512	372.85	467
81.95	1875	164.85	361	247.85	233	375.65	208
82.85	1757	165.95	2007	249.05	432	376.75	149
83.75	370	166.85	8038	249.95	211	377.95	120

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1.D

Date : 26-JUL-2006 12:17

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0726B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0726B1.D
Spectrum: Avg. Scans 231-233 (7.12), Background Scan 226
Location of Maximum: 197.90
Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.85	729	167.85	3045	251.05	340	379.45	119
85.85	1568	168.85	739	251.65	111	382.60	127
86.75	558	169.85	379	252.85	546	390.10	345
87.85	477	172.80	969	254.85	66768	390.75	313
88.90	282	173.90	1960	255.90	6941	392.75	141
90.00	256	174.90	2630	257.00	1163	395.75	126
91.00	941	175.80	546	257.80	3644	400.55	371
91.90	2066	176.70	956	258.70	245	401.90	428
92.90	11597	178.90	5137	263.90	318	402.90	391
93.80	274	179.80	3098	264.90	1837	404.10	354
94.90	311	180.70	1778	265.85	173	405.30	117
95.90	712	182.10	497	268.55	270	420.85	427
97.90	6421	182.95	262	269.35	139	422.90	3063
98.80	4750	183.65	462	272.85	1690	423.90	548
100.15	394	184.85	2036	273.85	5681	424.60	403
100.85	3944	185.95	17392	274.85	24608	431.20	282
102.85	914	186.75	4592	275.95	3472	433.95	276
103.95	1203	187.95	852	276.90	1635	440.95	14208
104.95	2036	188.95	534	277.90	488	441.85	75640
106.85	22000	190.45	165	281.70	162	442.90	16560
107.85	3375	191.05	700	282.90	202	443.80	1481
109.90	52144	191.85	1207	283.60	157	444.90	203
110.90	6404	193.00	926	284.60	576	451.20	150
111.90	1241	193.80	843	287.75	169	461.35	189
113.70	190	194.70	422	289.95	611	464.00	179
114.50	228	195.90	4138	292.85	712	465.10	168
116.90	16383	197.90	164288	294.45	175	468.80	161
117.90	1137	198.80	13231	295.85	8757	484.60	230
119.85	240	199.80	506	296.75	379	495.45	106
121.95	1587	201.40	675	298.00	237		
122.95	1568	203.85	5166	298.60	180		
123.85	1032	204.85	7994	300.70	146		
124.95	477	205.95	31448	302.90	580		

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1.D

Date : 26-JUL-2006 12:17

Client ID: 50ppm DFTPP

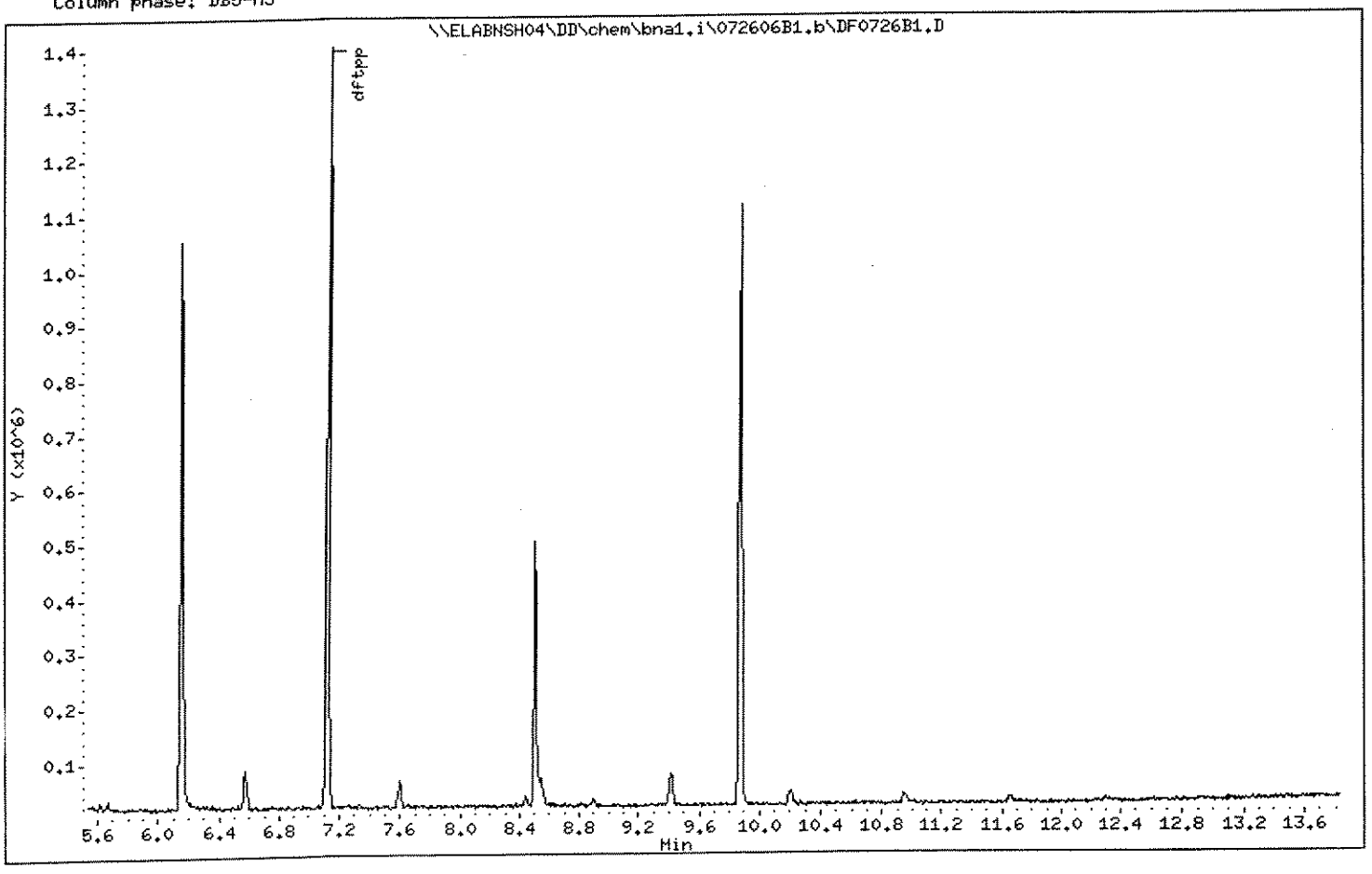
Instrument: bna1.i

Sample Info: DF0726B1;;;;;SV3529

Operator: SDB

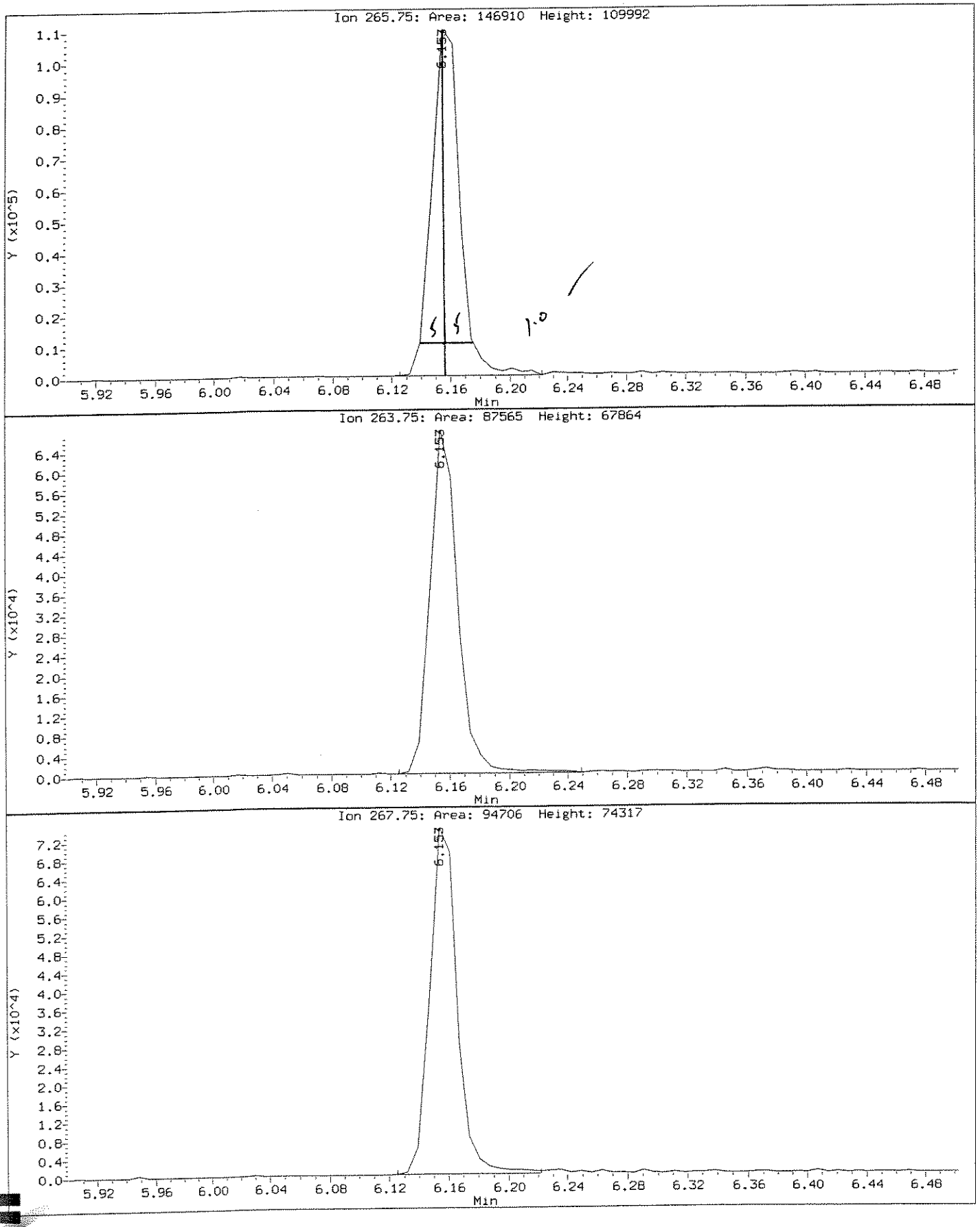
Column phase: DB5-MS

Column diameter: 0.25



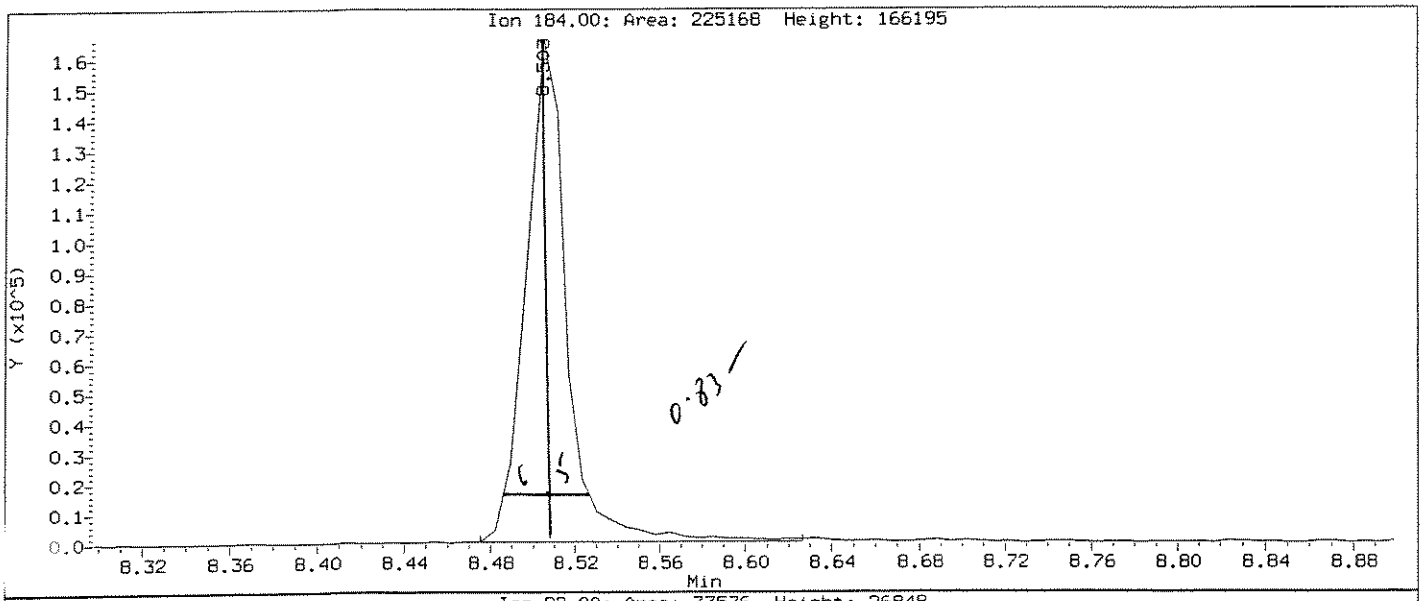
Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1ex.D
Injection Date: 26-JUL-2006 12:17
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

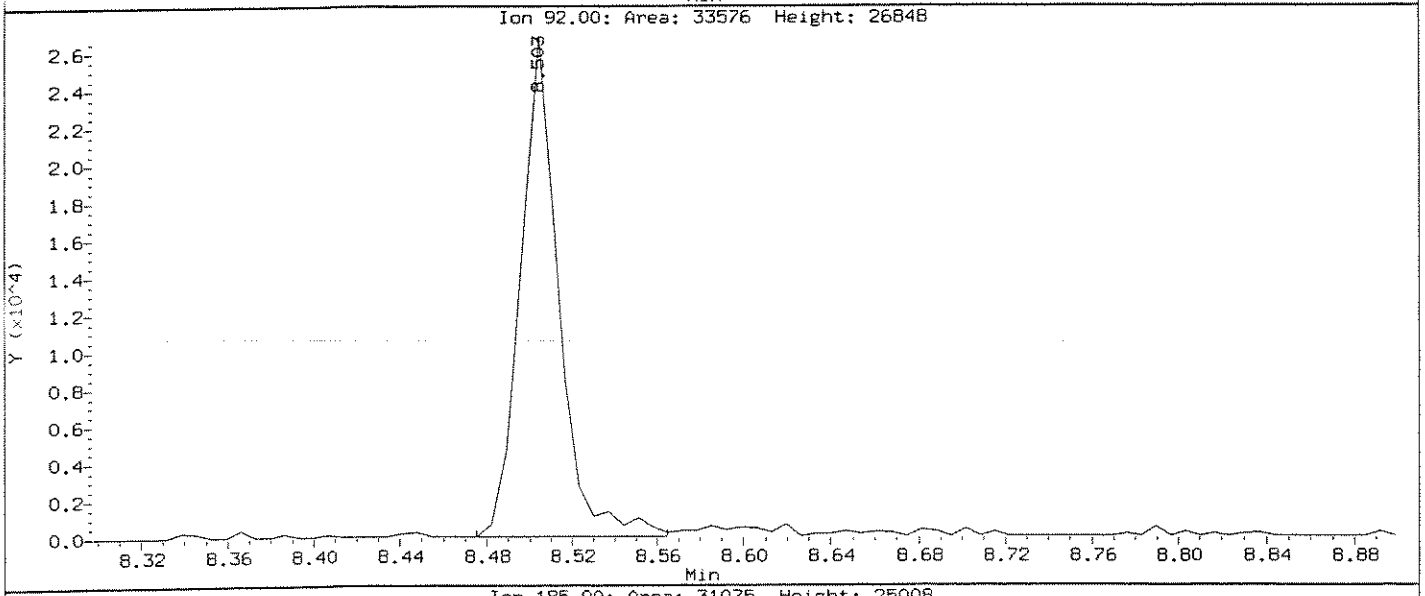
Compound: Pentachlorophenol
CAS Number: 87-86-5

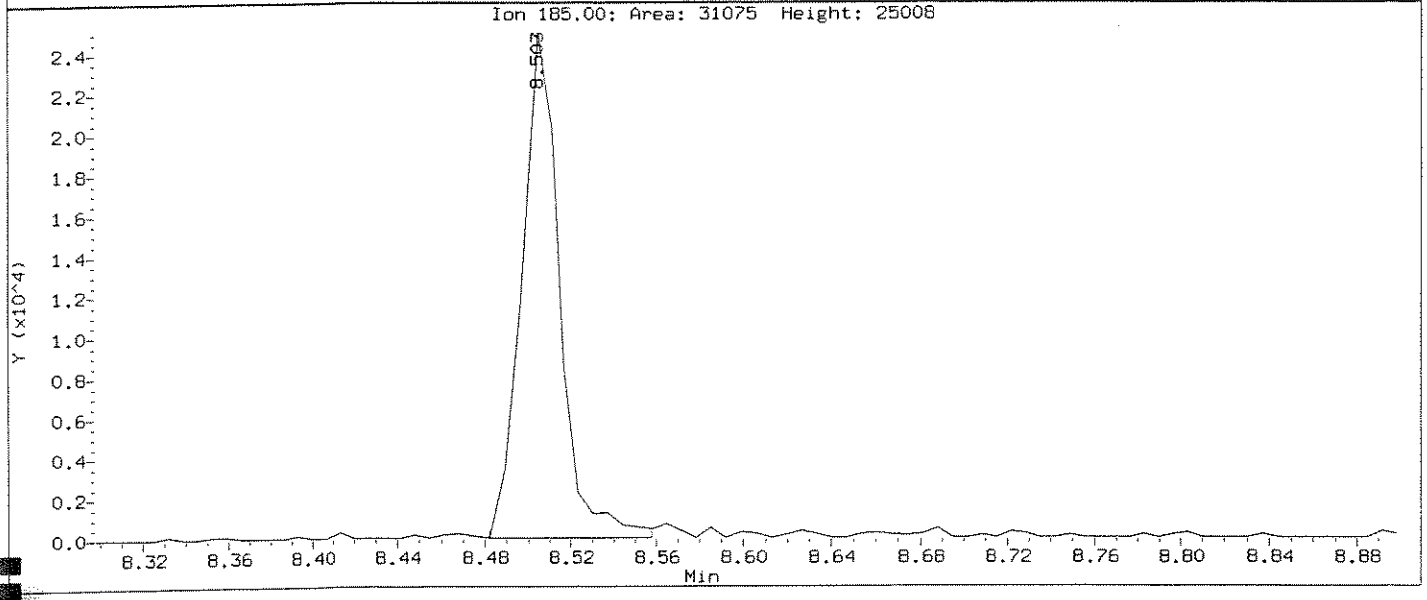


Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1ex.D
Injection Date: 26-JUL-2006 12:17
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1ex.D
Report Date: 26-Jul-2006 14:30

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\DF0726B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 26-JUL-2006 12:17
Operator : SDB Inst ID: bna1.i
Smp Info : DF0726B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\dftppbn1ex.m
Meth Date : 19-Jul-2006 08:20 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.152	6.200	-0.048	146910			(H)
2 Benzidine	184	8.502	8.600	-0.098	225168			(QH)
3 4,4'-DDE	246	8.905	9.000	-0.095	1877			(Q)
4 4,4'-DDD	235	9.420	9.500	-0.080	7593			(H)
5 4,4'-DDT	235	9.878	10.000	-0.122	232147			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

DDT breakdown = 9470 / 241617 = 3.9%

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1.D

Date : 27-JUL-2006 11:47

Client ID: 50ppm DFTPP

Instrument: bna1.i

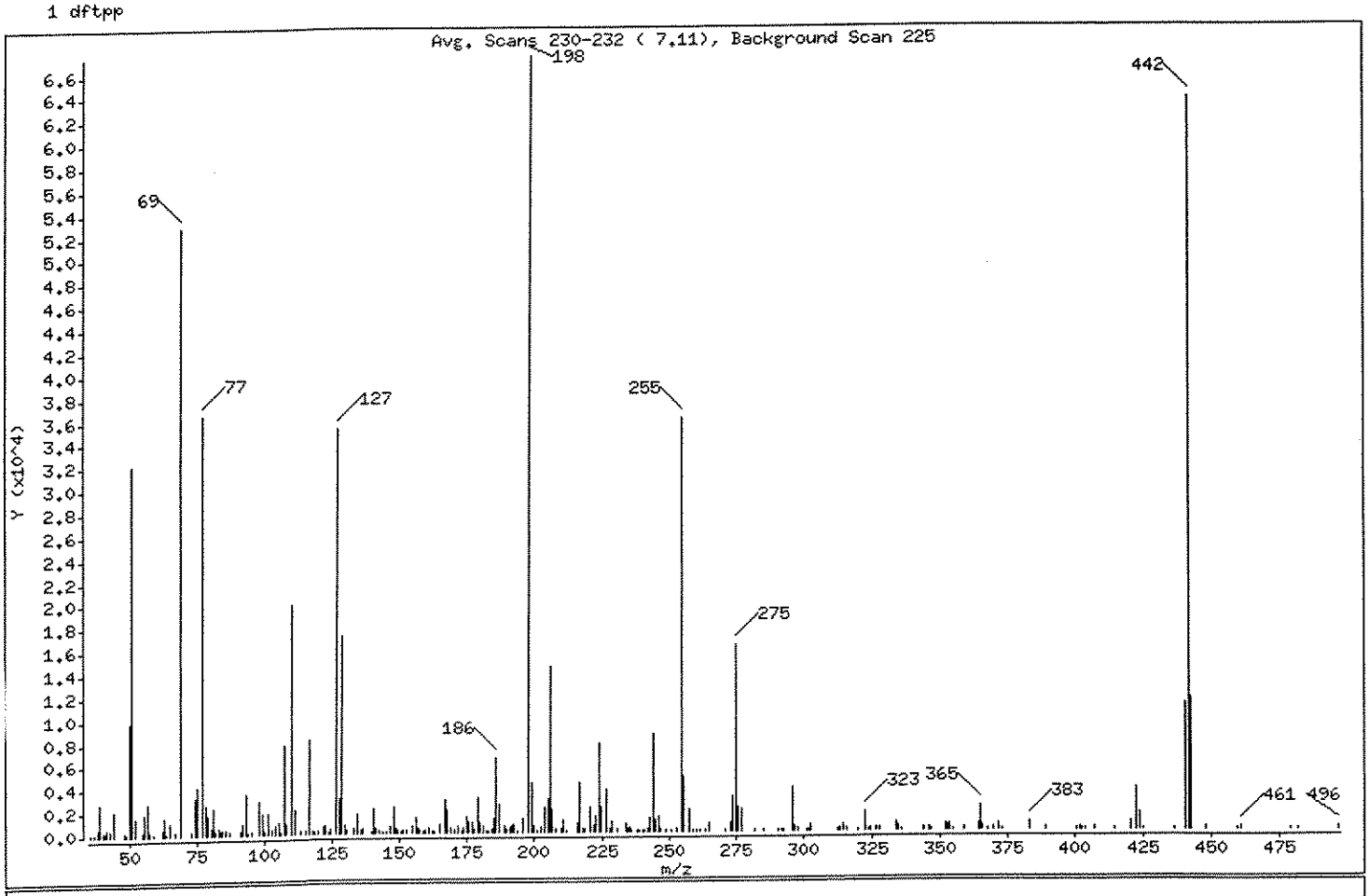
Sample Info: DF0727B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.74
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	78.31
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	52.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	24.27
365	Greater than 1.00% of mass 198	3.13
441	Present, but less than mass 443	16.35
442	Greater than 40.00% of mass 198	94.45
443	17.00 - 23.00% of mass 442	17.00 (17.99)

7/25/06

8/1/06

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1.D

Date : 27-JUL-2006 11:47

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0727B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0727B1.D

Spectrum: Avg. Scans 230-232 (7.11), Background Scan 225

Location of Maximum: 197.90

Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.70	201	119.85	258	192.55	824	290.45	201
36.75	158	121.75	626	194.00	143	291.55	175
38.05	650	122.35	635	195.90	1192	292.75	212
39.05	2739	122.95	742	197.90	67496	295.85	3955
39.85	385	123.95	226	198.90	4428	296.75	504
41.05	263	124.85	391	199.80	550	297.90	319
41.65	605	126.85	35256	201.30	112	301.00	205
42.95	486	127.95	3188	202.80	464	301.60	150
43.95	2223	128.85	17208	203.85	2109	302.80	550
47.80	245	129.85	798	204.95	2926	312.25	157
48.90	174	130.80	251	205.95	14484	313.05	284
50.00	9860	133.70	470	206.85	1989	314.85	570
51.00	32224	134.90	1762	207.85	376	316.05	350
52.00	1587	135.90	287	210.05	304	319.80	131
54.90	379	136.90	485	210.75	1029	322.80	1762
55.80	1804	139.80	200	211.65	121	323.80	167
56.90	2859	140.85	2103	216.00	808	324.80	241
57.65	337	141.75	460	216.80	4341	326.70	296
58.65	203	142.75	276	217.70	249	327.70	257
61.95	476	144.25	224	218.80	382	333.95	769
62.95	1559	145.65	224	220.80	2147	334.85	427
63.85	121	146.95	677	222.00	622	336.15	150
64.85	1062	147.95	2391	222.70	1385	344.30	345
66.75	261	148.95	406	223.80	7754	345.80	360
68.90	52856	149.75	287	224.95	2230	346.80	169
73.00	251	151.10	152	226.95	3759	351.85	666
74.00	3327	151.80	296	227.95	382	352.75	443
74.90	4138	152.80	371	228.85	871	353.85	675
76.90	36520	155.10	675	230.65	383	354.85	102
78.00	2669	155.90	1344	233.85	795	358.95	246
78.95	1731	157.00	529	234.50	240	364.10	556
80.05	646	157.80	370	235.20	398	364.80	2115
80.95	2336	159.00	181	236.00	122	365.80	411
81.85	383	159.70	382	238.30	158	367.70	138
82.95	643	160.80	477	238.80	178	369.70	388

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1.D

Date : 27-JUL-2006 11:47

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0727B1;;;;;SV3529

Operator: SDB

Column phase: DB5-MS

Column diameter: 0.25

Data File: DF0727B1.D
Spectrum: Avg. Scans 230-232 (7.11), Background Scan 225
Location of Maximum: 197.90
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.65	310	162.05	148	239.90	167	371.85	641
84.65	479	162.85	120	241.00	163	372.95	163
85.75	465	164.75	830	241.90	274	382.90	729
86.95	344	166.95	2959	243.10	1256	389.40	311
91.00	338	167.75	2054	243.90	8590	400.65	114
92.00	932	168.95	523	244.95	1016	401.80	315
92.90	3502	170.05	299	245.85	1406	402.70	150
93.90	205	171.55	609	246.75	318	404.10	103
94.90	383	172.80	220	248.75	174	407.10	364
97.80	2884	173.90	460	250.95	223	414.85	103
98.90	1815	174.90	1389	252.85	240	420.95	744
99.75	256	175.70	863	254.85	36128	422.90	3780
100.85	1848	176.90	926	255.80	4817	423.80	1554
102.65	403	177.80	377	257.80	1995	425.00	101
103.95	742	178.90	3188	258.60	188	436.85	224
104.95	1048	179.90	959	260.50	223	441.05	11038
105.85	185	181.00	596	261.80	113	441.85	63752
106.95	7797	182.10	104	263.70	175	442.90	11471
107.75	929	182.85	193	264.90	722	448.10	254
109.90	20104	184.05	344	270.85	220	459.55	114
110.90	2217	184.95	1291	272.95	729	460.95	265
112.90	329	185.95	6602	273.95	3072	479.05	147
113.50	181	186.95	2533	274.85	16383	481.85	103
115.00	290	188.85	584	275.85	2210	496.15	249
116.90	8241	189.75	345	276.80	1948		
117.70	291	190.95	403	281.40	157		
118.50	119	191.75	686	284.90	167		

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1.D

Date : 27-JUL-2006 11:47

Client ID: 50ppm DFTPP

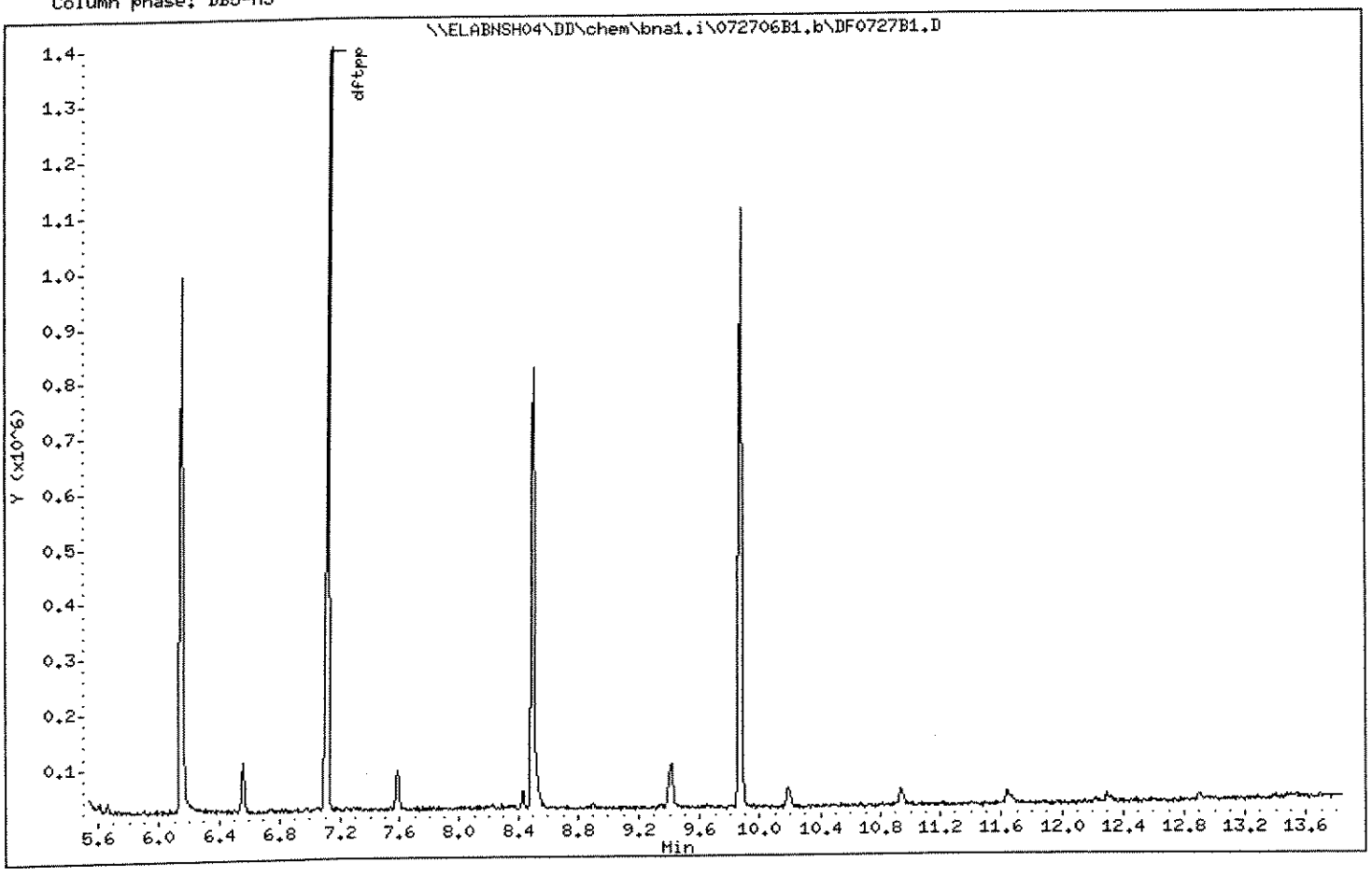
Instrument: bna1.i

Sample Info: DF0727B1;;;;;SV3529

Operator: SDB

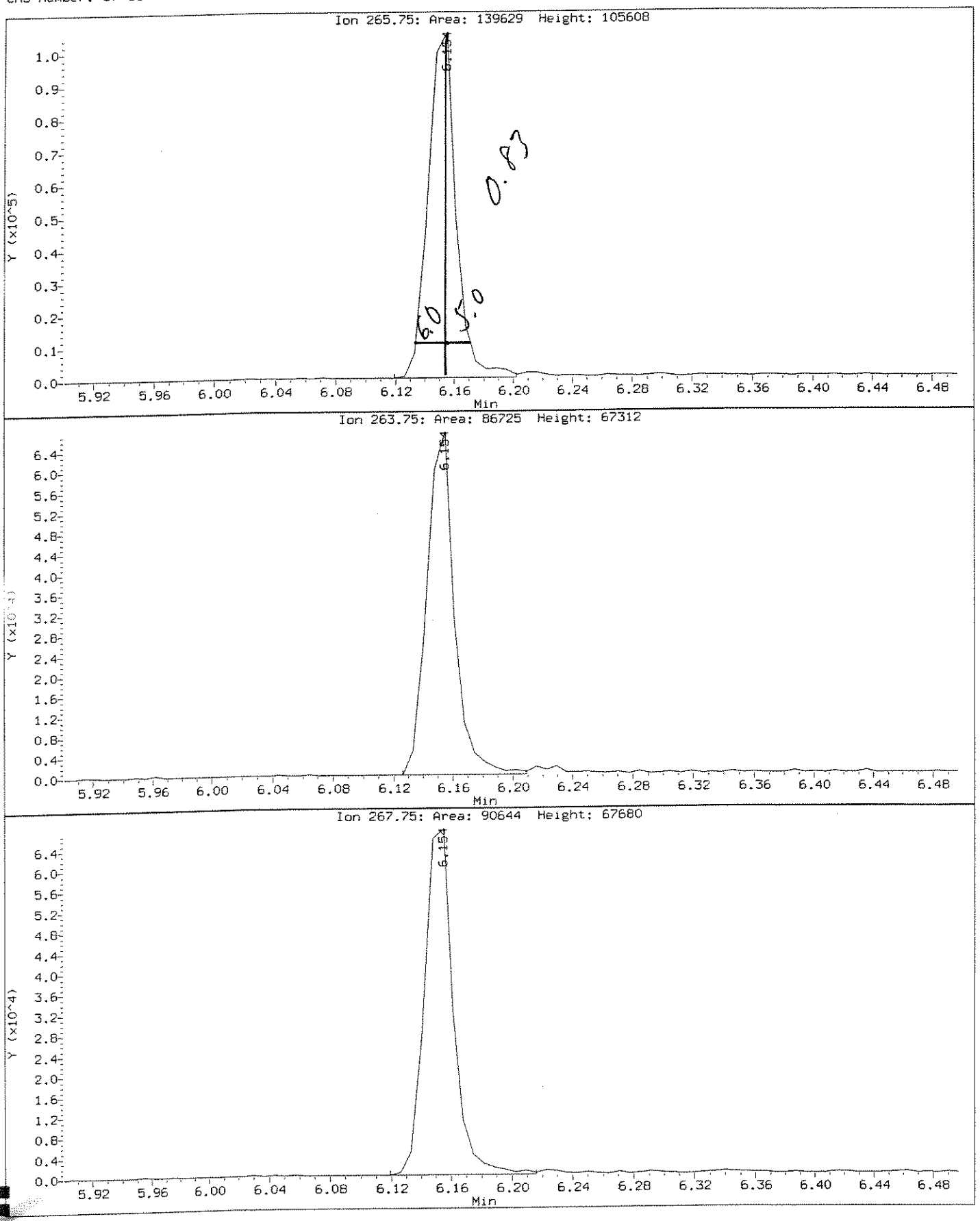
Column phase: DB5-MS

Column diameter: 0.25



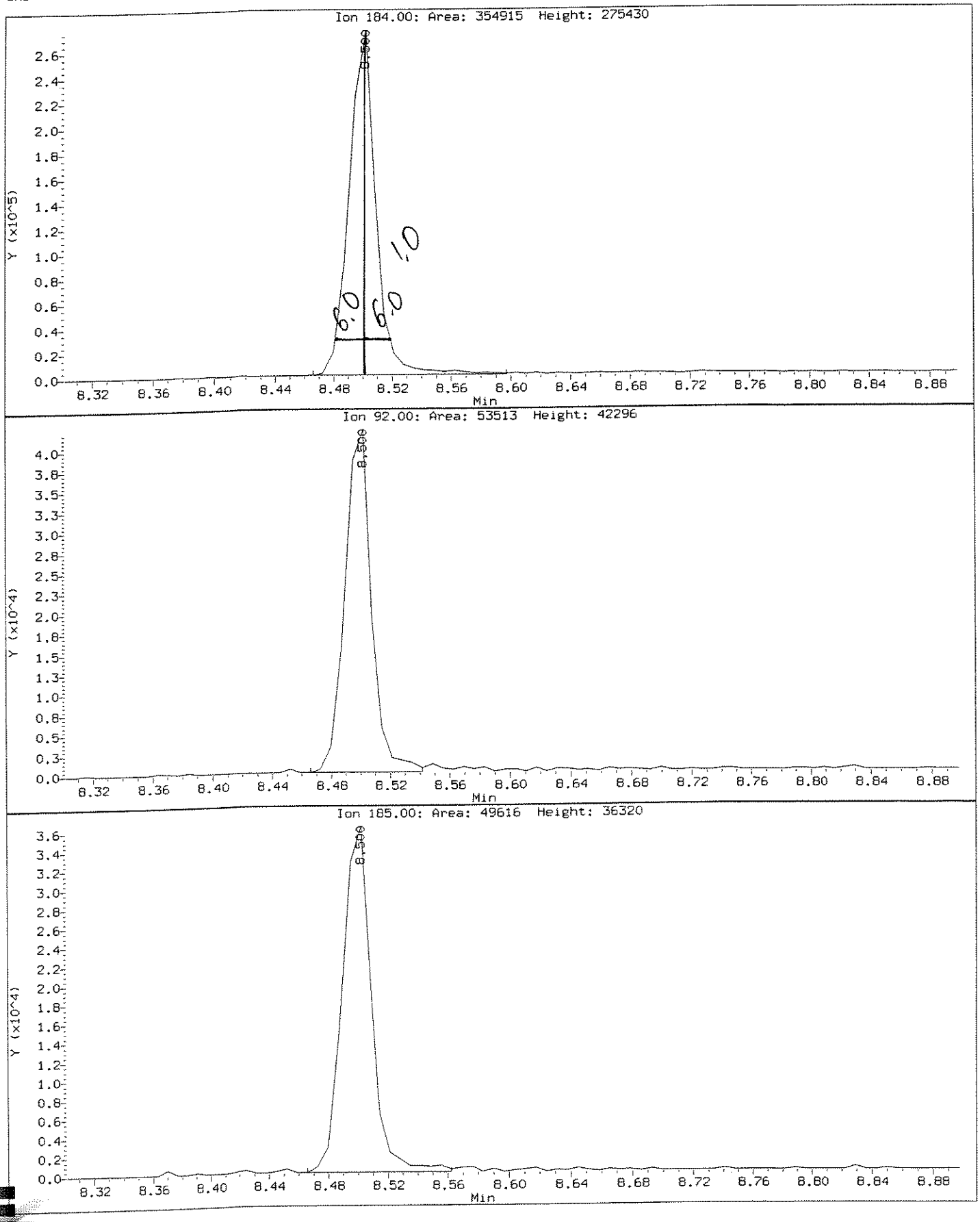
Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1ex.D
Injection Date: 27-JUL-2006 11:47
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: \\ELABNSHO4\DD\chem\bna1.i\072706B1.b\DF0727B1ex.D
Injection Date: 27-JUL-2006 11:47
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1ex.D
Report Date: 27-Jul-2006 13:03

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\DF0727B1ex.D
Lab Smp Id: 50ppm dftpp Client Smp ID: 50ppm DFTPP
Inj Date : 27-JUL-2006 11:47
Operator : SDB Inst ID: bna1.i
Smp Info : DF0727B1;;;;;SV3529
Misc Info : ;;;;;ppbna.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072706B1.b\dftppbn1ex.m
Meth Date : 19-Jul-2006 08:20 sburchfiel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)	
1 Pentachlorophenol	266	6.153	6.200	-0.047	139629			(H)
2 Benzidine	184	8.500	8.600	-0.100	354915			(QH)
4 4,4'-DDD	235	9.418	9.500	-0.082	15239			(H)
5 4,4'-DDT	235	9.869	10.000	-0.131	238987			

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

4,4'DDT Breakdown = $\frac{0+15239}{0+15239+238987} \times 100 = 6.0\%$

8/1/06

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726B1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: SBLK0726B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0726

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 16:24

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050		U
208-96-8	Acenaphthylene	0.0085	0.050		U
120-12-7	Anthracene	0.0095	0.050		U
56-55-3	Benzo(a)anthracene	0.010	0.050		U
205-99-2	Benzo(b)fluoranthene	0.016	0.050		U
207-08-9	Benzo(k)fluoranthene	0.013	0.050		U
191-24-2	Benzo(g,h,i)perylene	0.013	0.050		U
50-32-8	Benzo(a)pyrene	0.0095	0.050		U
218-01-9	Chrysene	0.0090	0.050		U
53-70-3	Dibenz(a,h)anthracene	0.012	0.050		U
206-44-0	Fluoranthene	0.012	0.050		U
86-73-7	Fluorene	0.012	0.050		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050		U
91-57-6	2-Methylnaphthalene	0.016	0.050		U
90-12-0	1-Methylnaphthalene	0.010	0.050		U
91-20-3	Naphthalene	0.019	0.050		U
85-01-8	Phenanthrene	0.014	0.050		U
129-00-0	Pyrene	0.010	0.050		U

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SBLK0726.D
Report Date: 27-Jul-2006 07:40

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SBLK0726.D
Lab Smp Id: SBLK0726B1 Client Smp ID: SBLK0726B1
Inj Date : 26-JUL-2006 16:24 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0726B1;1;1000;500;1;UG/L;26-JUL-2006
Misc Info : ;3;BLANK;;;072606B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:39 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

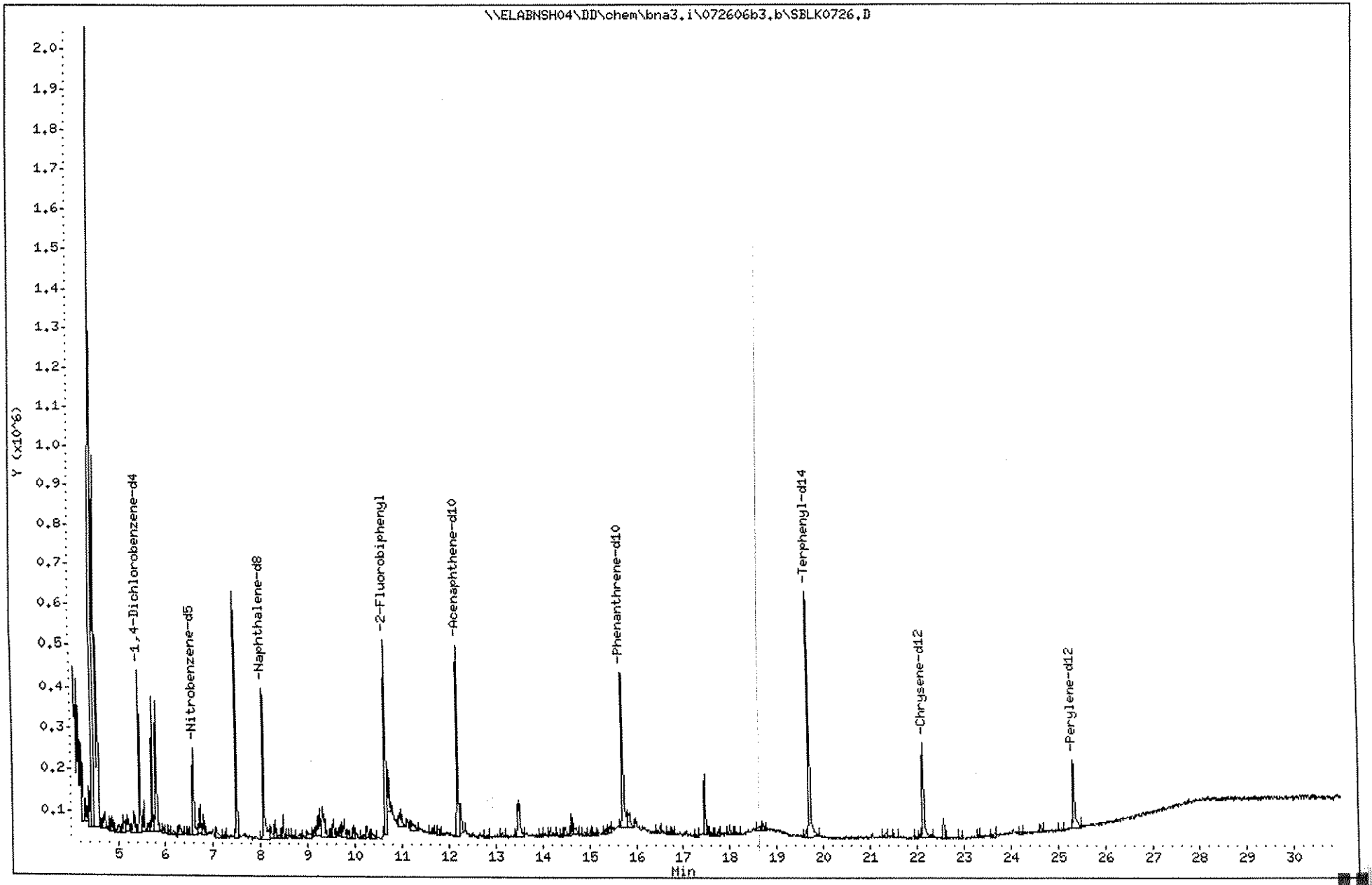
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.454	5.454	(1.000)	96876	1.00000	
*	3 Naphthalene-d8	136	8.057	8.057	(1.000)	369342	1.00000	
$	4 Nitrobenzene-d5	82	6.584	6.584	(0.817)	153191	1.62054	0.8103
*	8 Acenaphthene-d10	164	12.190	12.190	(1.000)	234825	1.00000	
$	10 2-Fluorobiphenyl	172	10.649	10.649	(0.874)	354240	1.25063	0.6253
*	16 Phenanthrene-d10	188	15.706	15.718	(1.000)	312423	1.00000	
*	20 Chrysene-d12	240	22.134	22.134	(1.000)	186431	1.00000	
$	22 Terphenyl-d14	244	19.691	19.702	(0.890)	443505	2.49870	1.249
*	25 Perylene-d12	264	25.331	25.342	(1.000)	156453	1.00000	

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SBLK0726.D
Date : 26-JUL-2006 16:24
Client ID: SBLK0726B1
Instrument: bna3.i
Sample Info: SBLK0726B1;1;1000;500;1;UG/L;26-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000455



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726BS1

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0726BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0726

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 14:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170		U
208-96-8	Acenaphthylene	20	170		U
120-12-7	Anthracene	20	170		U
56-55-3	Benzo(a)anthracene	20	170		U
205-99-2	Benzo(b)fluoranthene	20	170		U
207-08-9	Benzo(k)fluoranthene	20	170		U
191-24-2	Benzo(g,h,i)perylene	20	170		U
50-32-8	Benzo(a)pyrene	20	100		U
218-01-9	Chrysene	20	170		U
53-70-3	Dibenz(a,h)anthracene	20	100		U
206-44-0	Fluoranthene	20	170		U
86-73-7	Fluorene	20	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	20	170		U
91-57-6	2-Methylnaphthalene	20	170		U
90-12-0	1-Methylnaphthalene	50	170		U
91-20-3	Naphthalene	20	170		U
85-01-8	Phenanthrene	20	170		U
129-00-0	Pyrene	20	170		U

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SBLK0726.D
Report Date: 28-Jul-2006 09:52

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SBLK0726.D
Lab Smp Id: SBLK0726BS1 Client Smp ID: SBLK0726BS1
Inj Date : 26-JUL-2006 14:34
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0726BS1;15;500;1;UG/KG;26-JUL-2006
Misc Info : ;BLANK;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	4.118	4.120	(1.000)	497295	40.0000		(QM)
* 31 Naphthalene-d8	136	5.084	5.088	(1.000)	1486121	40.0000		
$ 32 Nitrobenzene-d5	82	4.549	4.553	(0.895)	465351	28.6848	956.2	
* 65 Acenaphthene-d10	164	7.378	7.382	(1.000)	735929	40.0000		
$ 70 2-Fluorobiphenyl	172	6.338	6.345	(0.859)	657540	28.0765	935.9	
* 97 Phenanthrene-d10	188	10.582	10.583	(1.000)	974075	40.0000		
* 124 Chrysene-d12	240	17.918	17.933	(1.000)	652479	40.0000		
$ 127 Terphenyl-d14	244	15.177	15.177	(0.847)	698217	42.3780	1412	
* 145 Perylene-d12	264	21.737	21.736	(1.000)	635276	40.0000		

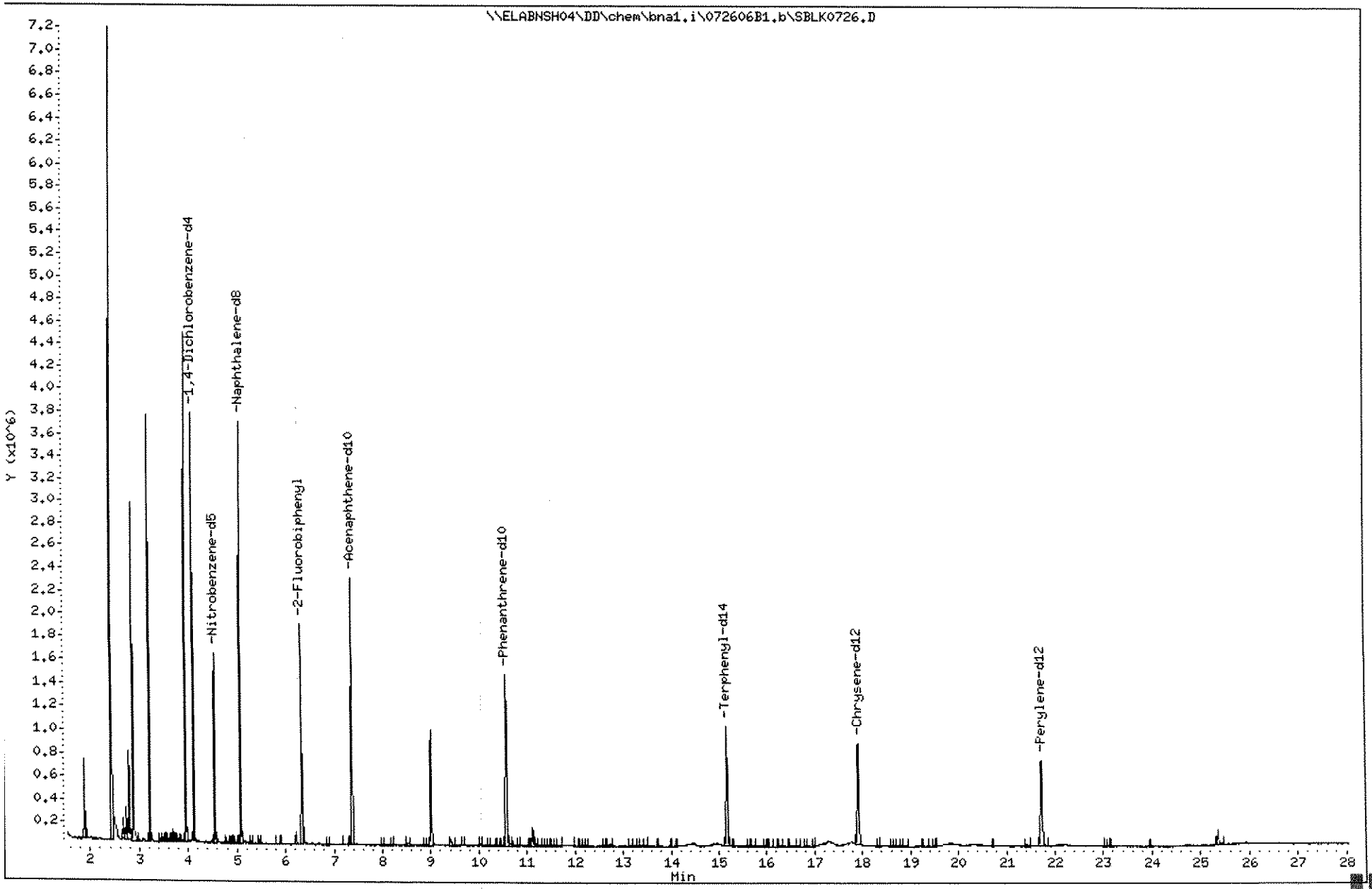
Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SBLK0726.D
Report Date: 28-Jul-2006 09:52

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SBLK0726.D
Date : 26-JUL-2006 14:34
Client ID: SBLK0726BS1
Instrument: bna1.i
Sample Info: SBLK0726BS1;15;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

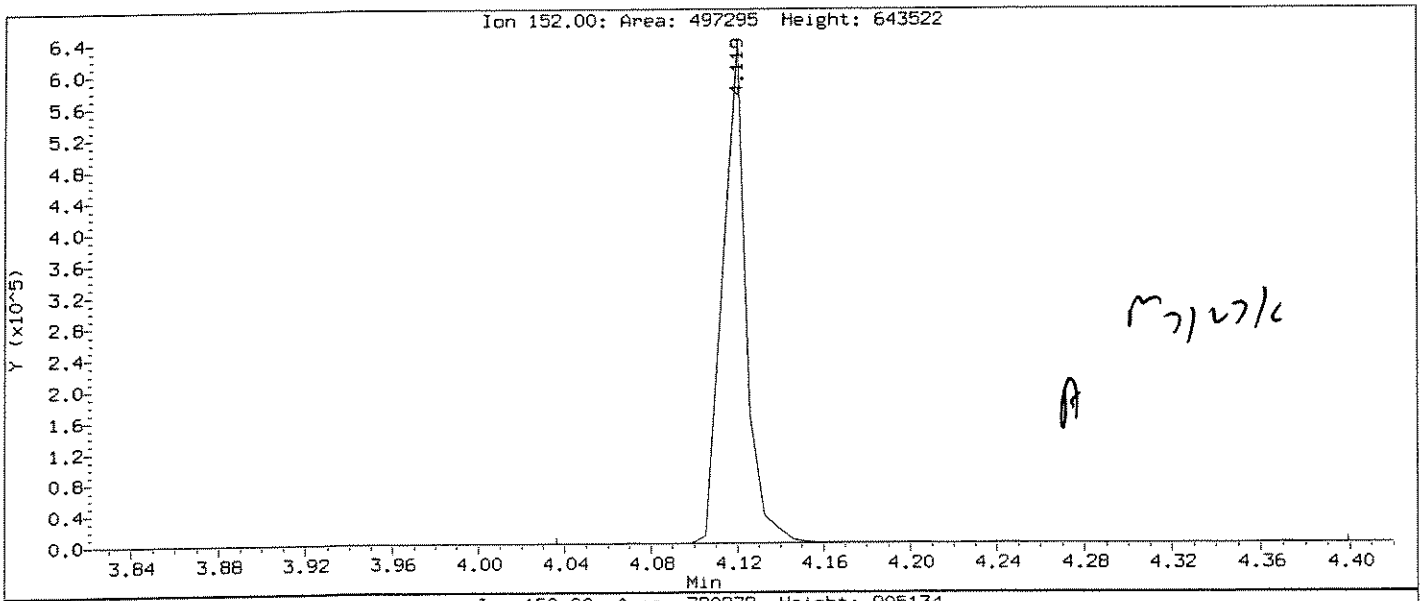
000459

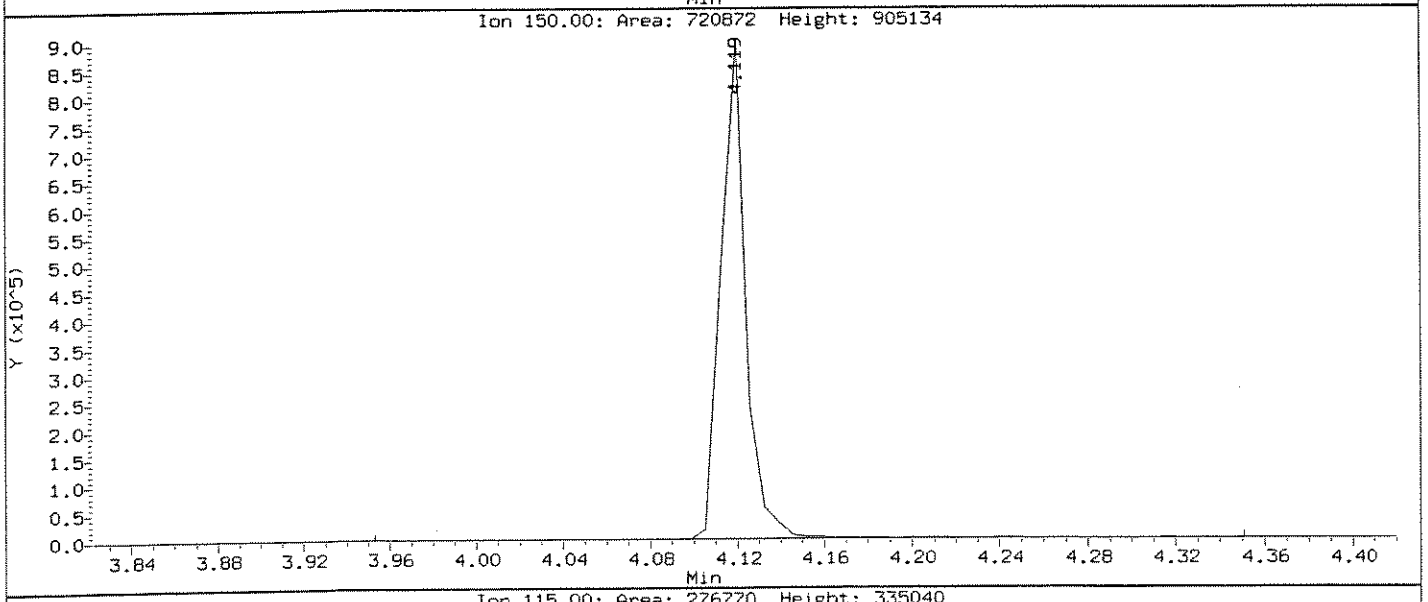


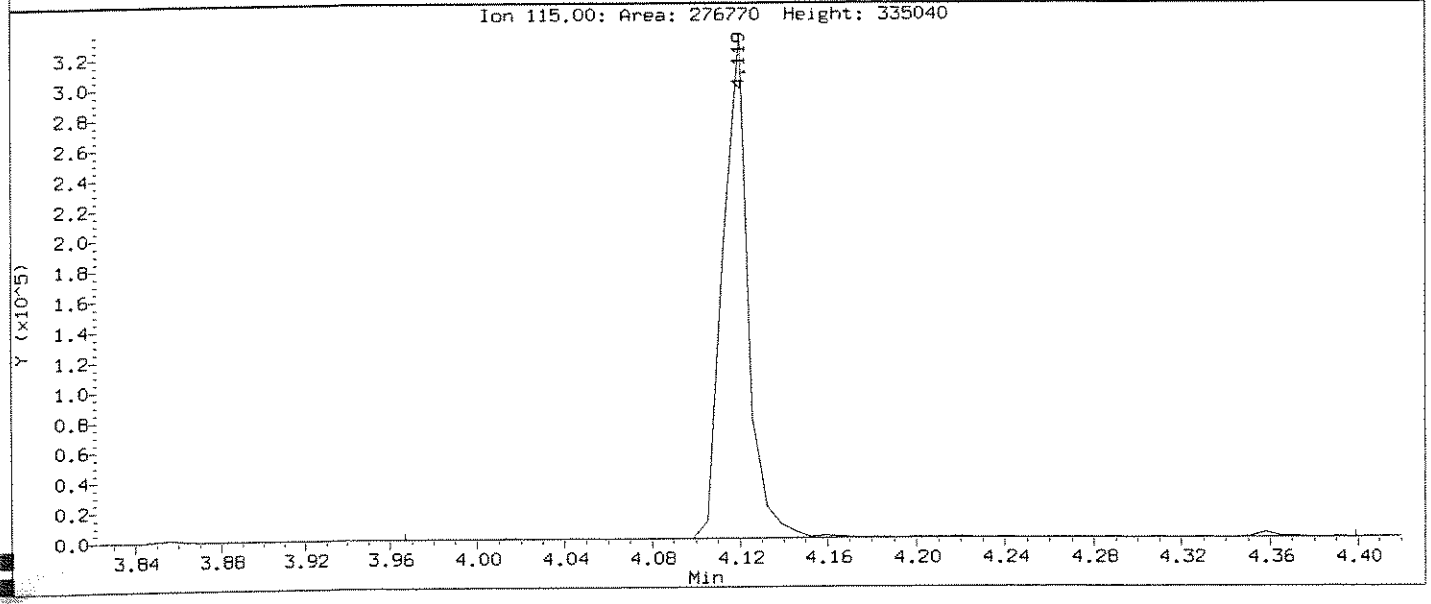
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SBLK0726.D
Injection Date: 26-JUL-2006 14:34
Instrument: bna1.i
Client Sample ID: SBLK0726BS1

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1







FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726BS1LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0726BS1LCS

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SLCS0726

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 15:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	20	170	900	
208-96-8	Acenaphthylene	20	170	1000	
120-12-7	Anthracene	20	170	1200	
56-55-3	Benzo(a)anthracene	20	170	1300	
205-99-2	Benzo(b)fluoranthene	20	170	1200	
207-08-9	Benzo(k)fluoranthene	20	170	1200	
191-24-2	Benzo(g,h,i)perylene	20	170	1200	
50-32-8	Benzo(a)pyrene	20	100	1300	
218-01-9	Chrysene	20	170	1300	
53-70-3	Dibenz(a,h)anthracene	20	100	1200	
206-44-0	Fluoranthene	20	170	1300	
86-73-7	Fluorene	20	170	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	20	170	1300	
91-57-6	2-Methylnaphthalene	20	170	800	
90-12-0	1-Methylnaphthalene	50	170	830	
91-20-3	Naphthalene	20	170	780	
85-01-8	Phenanthrene	20	170	1200	
129-00-0	Pyrene	20	170	1300	

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SLCS0726.D
Report Date: 28-Jul-2006 09:52

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SLCS0726.D
Lab Smp Id: SBLK0726BS1LCS Client Smp ID: SBLK0726BS1LCS
Inj Date : 26-JUL-2006 15:09
Operator : SDB Inst ID: bna1.i
Smp Info : SBLK0726BS1LCS;15;500;1;UG/KG;26-JUL-2006
Misc Info : ;LCS;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-MHARTMAN

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

7/28/06 7/28/06

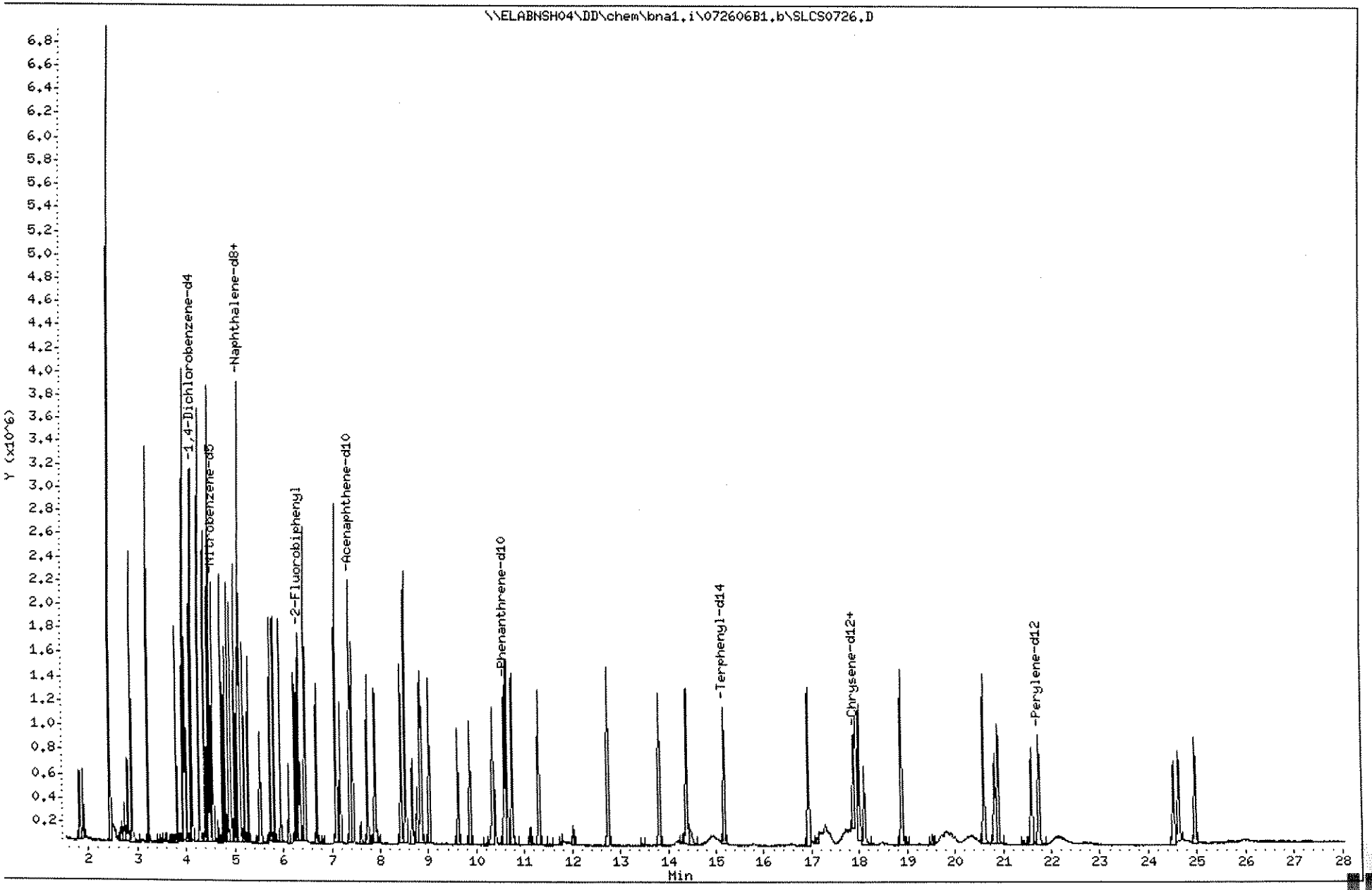
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	464069	40.0000	
*	31 Naphthalene-d8	136	5.088	5.088	(1.000)	1457622	40.0000	
$	32 Nitrobenzene-d5	82	4.547	4.553	(0.894)	429815	27.0124	900.4
	47 Naphthalene	128	5.102	5.108	(1.003)	850489	23.4676	782.2
	51 2-Methylnaphthalene	141	5.817	5.815	(1.143)	500952	24.0560	801.9
	52 1-Methylnaphthalene	141	5.940	5.939	(1.167)	493422	24.8210	827.4
*	65 Acenaphthene-d10	164	7.377	7.382	(1.000)	757886	40.0000	
$	70 2-Fluorobiphenyl	172	6.340	6.345	(0.859)	587975	24.3788	812.6
	73 Acenaphthylene	152	7.103	7.100	(0.963)	966375	30.3269	1011
	76 Acenaphthene	153	7.440	7.437	(1.008)	588954	26.9262	897.5
	84 Fluorene	166	8.435	8.434	(1.143)	724882	30.9854	1033
*	97 Phenanthrene-d10	188	10.584	10.583	(1.000)	983102	40.0000	
	106 Phenanthrene	178	10.639	10.645	(1.005)	1031732	36.8077	1227

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SLCS0726.D
Report Date: 28-Jul-2006 09:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
107 Anthracene	178	10.755	10.755	(1.016)	1035660	37.4244	1247
110 Fluoranthene	202	13.817	13.814	(1.305)	1096450	39.5100	1317
* 124 Chrysene-d12	240	17.938	17.933	(1.000)	695365	40.0000	
126 Pyrene	202	14.393	14.390	(0.802)	1097052	39.5043	1317
$ 127 Terphenyl-d14	244	15.175	15.177	(0.846)	729383	41.5393	1385
130 Benzo(a)anthracene	228	17.890	17.885	(0.997)	858125	38.3011	1277
131 Chrysene	228	18.008	18.002	(1.004)	821984	40.1685	1339
* 145 Perylene-d12	264	21.756	21.736	(1.000)	741251	40.0000	
147 Benzo(b)fluoranthene	252	20.836	20.823	(0.958)	819415	35.8861	1196
148 Benzo(k)fluoranthene	252	20.905	20.893	(0.961)	817229	34.4966	1150
149 Benzo(a)pyrene	252	21.597	21.584	(0.993)	783596	39.7974	1326
150 Indeno(1,2,3-cd)pyrene	276	24.534	24.521	(1.128)	666651	39.6843	1323
151 Dibenz(a,h)anthracene	278	24.631	24.618	(1.132)	603515	35.6861	1190
152 Benzo(g,h,i)perylene	276	24.974	24.961	(1.148)	649362	37.2492	1242

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\SLCS0726.D
Date : 26-JUL-2006 15:09
Client ID: SBLK0726BS1LCS
Instrument: bna1.i
Sample Info: SBLK0726BS1LCS;15;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000464



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726B1LCS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: SBLK0726B1LCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SLCS0726

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 17:03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050	0.69	
208-96-8	Acenaphthylene	0.0085	0.050	0.68	
120-12-7	Anthracene	0.0095	0.050	0.79	
56-55-3	Benzo(a)anthracene	0.010	0.050	0.94	
205-99-2	Benzo(b)fluoranthene	0.016	0.050	0.83	
207-08-9	Benzo(k)fluoranthene	0.013	0.050	1.2	
191-24-2	Benzo(g,h,i)perylene	0.013	0.050	0.72	
50-32-8	Benzo(a)pyrene	0.0095	0.050	0.79	
218-01-9	Chrysene	0.0090	0.050	1.0	
53-70-3	Dibenz(a,h)anthracene	0.012	0.050	0.71	
206-44-0	Fluoranthene	0.012	0.050	1.0	
86-73-7	Fluorene	0.012	0.050	0.73	
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050	0.89	
91-57-6	2-Methylnaphthalene	0.016	0.050	0.65	
90-12-0	1-Methylnaphthalene	0.010	0.050	0.63	
91-20-3	Naphthalene	0.019	0.050	0.65	
85-01-8	Phenanthrene	0.014	0.050	0.81	
129-00-0	Pyrene	0.010	0.050	1.0	

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCS0726.D
Report Date: 27-Jul-2006 07:40

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Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCS0726.D
Lab Smp Id: SBLK0726B1LCS Client Smp ID: SBLK0726B1LCS
Inj Date : 26-JUL-2006 17:03 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0726B1LCS;1;1000;500;1;UG/L;26-JUL-2006
Misc Info : ;3;LCS;;;072606B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:39 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
*	1 1,4-Dichlorobenzene-d4	152	5.451	5.454	(1.000)	103543	1.00000	
*	3 Naphthalene-d8	136	8.066	8.057	(1.000)	408228	1.00000	
$	4 Nitrobenzene-d5	82	6.582	6.584	(0.816)	183209	1.75348	0.8767
	5 Naphthalene	128	8.100	8.103	(1.004)	508903	1.30044	0.6502
	6 2-Methylnaphthalene	141	9.698	9.701	(1.202)	276863	1.29653	0.6483
	7 1-Methylnaphthalene	141	9.938	9.941	(1.232)	280521	1.25473	0.6274
*	8 Acenaphthene-d10	164	12.187	12.190	(1.000)	276446	1.00000	
$	10 2-Fluorobiphenyl	172	10.646	10.649	(0.874)	447529	1.34211	0.6710
	11 Acenaphthylene	152	11.810	11.813	(0.969)	600763	1.36475	0.6824
	12 Acenaphthene	153	12.256	12.259	(1.006)	386556	1.38638	0.6932
	15 Fluorene	166	13.477	13.480	(1.106)	482592	1.46837	0.7342
*	16 Phenanthrene-d10	188	15.704	15.718	(1.000)	392391	1.00000	
	17 Phenanthrene	178	15.761	15.764	(1.004)	695239	1.61668	0.8083
	18 Anthracene	178	15.875	15.878	(1.011)	656124	1.58322	0.7916

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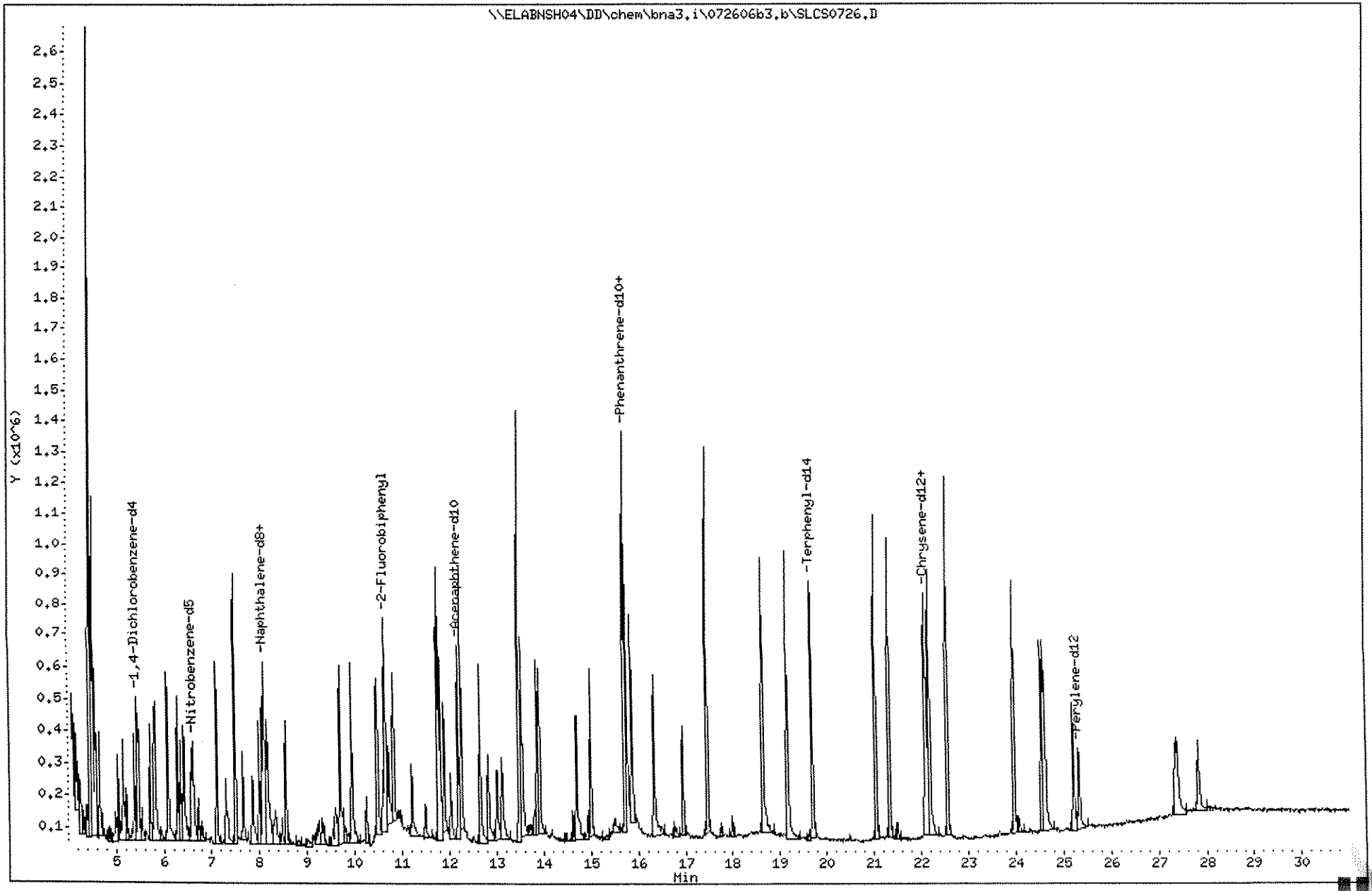
Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCS0726.D
Report Date: 27-Jul-2006 07:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
	19 Fluoranthene	202	18.649	18.652	(1.188)	899384	2.06374	1.032
*	20 Chrysene-d12	240	22.131	22.134	(1.000)	312815	1.00000	
	21 Pyrene	202	19.163	19.166	(0.866)	933538	2.00802	1.004
$	22 Terphenyl-d14	244	19.688	19.702	(0.890)	585278	1.96521	0.9826
	23 Benzo(a)anthracene	228	22.097	22.100	(0.998)	688357	1.88961	0.9448
	24 Chrysene	228	22.188	22.191	(1.003)	760669	2.11479	1.057
*	25 Perylene-d12	264	25.339	25.342	(1.000)	218844	1.00000	
	26 Benzo(b)fluoranthene	252	24.552	24.566	(0.969)	501396	1.65937	0.8297
	27 Benzo(k)fluoranthene	252	24.609	24.612	(0.971)	715360	2.36739	1.184
	28 Benzo(a)pyrene	252	25.214	25.217	(0.995)	392331	1.57581	0.7879
	29 Indeno(1,2,3-cd)pyrene	276	27.360	27.363	(1.080)	313746	1.78254	0.8913
	30 Dibenz(a,h)anthracene	278	27.406	27.409	(1.082)	236003	1.41674	0.7084
	31 Benzo(g,h,i)perylene	276	27.840	27.843	(1.099)	264777	1.44101	0.7205

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCS0726.D
Date : 26-JUL-2006 17:03
Client ID: SBLK0726B1LCS
Instrument: bna3.i
Sample Info: SBLK0726B1LCS;1;1000;500;1;UG/L;26-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000468



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0726B1LCSD

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) WATER Lab Sample ID: SBLK0726B1LCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SLCD0726

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 17:43

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.010	0.050	0.76	
208-96-8	Acenaphthylene	0.0085	0.050	0.75	
120-12-7	Anthracene	0.0095	0.050	0.81	
56-55-3	Benzo(a)anthracene	0.010	0.050	0.95	
205-99-2	Benzo(b)fluoranthene	0.016	0.050	0.84	
207-08-9	Benzo(k)fluoranthene	0.013	0.050	1.2	
191-24-2	Benzo(g,h,i)perylene	0.013	0.050	0.72	
50-32-8	Benzo(a)pyrene	0.0095	0.050	0.86	
218-01-9	Chrysene	0.0090	0.050	1.0	
53-70-3	Dibenz(a,h)anthracene	0.012	0.050	0.74	
206-44-0	Fluoranthene	0.012	0.050	1.0	
86-73-7	Fluorene	0.012	0.050	0.79	
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.050	0.92	
91-57-6	2-Methylnaphthalene	0.016	0.050	0.66	
90-12-0	1-Methylnaphthalene	0.010	0.050	0.73	
91-20-3	Naphthalene	0.019	0.050	0.68	
85-01-8	Phenanthrene	0.014	0.050	0.81	
129-00-0	Pyrene	0.010	0.050	0.95	

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCD0726.D
Report Date: 27-Jul-2006 07:40

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCD0726.D
Lab Smp Id: SBLK0726B1LCSD Client Smp ID: SBLK0726B1LCSD
Inj Date : 26-JUL-2006 17:43 MS Autotune Date: 19-APR-2006 07:41
Operator : SDB Inst ID: bna3.i
Smp Info : SBLK0726B1LCSD;1;1000;500;1;UG/L;26-JUL-2006
Misc Info : ;3;LCSD;;;072606B1;pahsurr.sub;3620
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\072606b3.b\PAHLOWW.m
Meth Date : 27-Jul-2006 07:39 amonteiro Quant Type: ISTD
Cal Date : 21-APR-2006 21:47 Cal File: PAH013.D
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahsurr.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 1	1,4-Dichlorobenzene-d4	152	5.452	5.454	(1.000)	101825	1.00000	
* 3	Naphthalene-d8	136	8.066	8.057	(1.000)	398713	1.00000	
$ 4	Nitrobenzene-d5	82	6.582	6.584	(0.816)	186213	1.82476	0.9124
5	Naphthalene	128	8.101	8.103	(1.004)	518571	1.35677	0.6784
6	2-Methylnaphthalene	141	9.699	9.701	(1.202)	277777	1.33186	0.6659
7	1-Methylnaphthalene	141	9.939	9.941	(1.232)	319287	1.46221	0.7311
* 8	Acenaphthene-d10	164	12.188	12.190	(1.000)	259037	1.00000	
$ 10	2-Fluorobiphenyl	172	10.647	10.649	(0.874)	432243	1.38338	0.6917
11	Acenaphthylene	152	11.811	11.813	(0.969)	616714	1.49514	0.7476
12	Acenaphthene	153	12.256	12.259	(1.006)	398370	1.52478	0.7624
15	Fluorene	166	13.478	13.480	(1.106)	488620	1.58663	0.7933
* 16	Phenanthrene-d10	188	15.704	15.718	(1.000)	391919	1.00000	
17	Phenanthrene	178	15.761	15.764	(1.004)	693813	1.61531	0.8076
18	Anthracene	178	15.864	15.878	(1.010)	667940	1.61367	0.8068

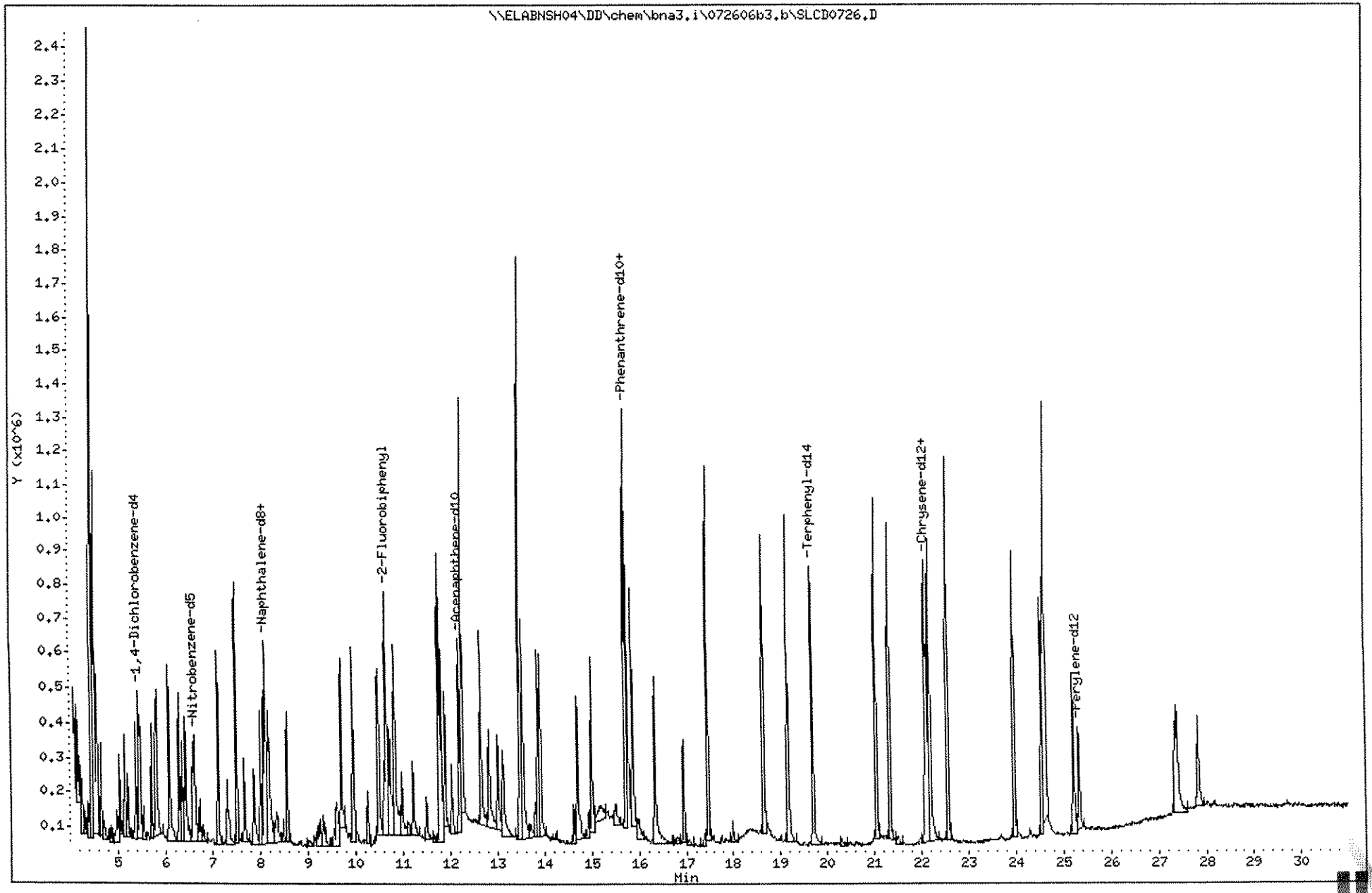
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCD0726.D
Report Date: 27-Jul-2006 07:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
	19 Fluoranthene	202	18.650	18.652	(1.188)	874907	2.00999	1.005
*	20 Chrysene-d12	240	22.132	22.134	(1.000)	327389	1.00000	
	21 Pyrene	202	19.164	19.166	(0.866)	926950	1.90509	0.9525
$	22 Terphenyl-d14	244	19.689	19.702	(0.890)	566100	1.81620	0.9081
	23 Benzo(a)anthracene	228	22.098	22.100	(0.998)	722781	1.89578	0.9479
	24 Chrysene	228	22.189	22.191	(1.003)	778175	2.06715	1.034
*	25 Perylene-d12	264	25.329	25.342	(1.000)	248196	1.00000	
	26 Benzo(b)fluoranthene	252	24.552	24.566	(0.969)	579768	1.69183	0.8459
	27 Benzo(k)fluoranthene	252	24.609	24.612	(0.972)	816287	2.38193	1.191
	28 Benzo(a)pyrene	252	25.214	25.217	(0.995)	487793	1.72753	0.8638
	29 Indeno(1,2,3-cd)pyrene	276	27.361	27.363	(1.080)	368765	1.84735	0.9237
	30 Dibenz(a,h)anthracene	278	27.395	27.409	(1.082)	280879	1.48673	0.7434
	31 Benzo(g,h,i)perylene	276	27.840	27.843	(1.099)	302370	1.45099	0.7255

Data File: \\ELABNSH04\DD\chem\bna3.i\072606b3.b\SLCD0726.D
Date : 26-JUL-2006 17:43
Client ID: SBLK0726B1LCSD
Instrument: bna3.i
Sample Info: SBLK0726B1LCSD;1;1000;500;1;UG/L;26-JUL-2006
Volume Injected (uL): 2.0
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000472



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM09S
060725 MS

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0721103M

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 16:18

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	900	
208-96-8	Acenaphthylene	21	170	880	
120-12-7	Anthracene	21	170	1200	
56-55-3	Benzo(a)anthracene	21	170	3000	
205-99-2	Benzo(b)fluoranthene	21	170	3900	E
207-08-9	Benzo(k)fluoranthene	21	170	1700	
191-24-2	Benzo(g,h,i)perylene	21	170	1300	
50-32-8	Benzo(a)pyrene	21	100	3300	
218-01-9	Chrysene	21	170	3400	
53-70-3	Dibenz(a,h)anthracene	21	100	960	
206-44-0	Fluoranthene	21	170	3400	
86-73-7	Fluorene	21	170	960	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	1500	
91-57-6	2-Methylnaphthalene	21	170	750	
90-12-0	1-Methylnaphthalene	52	170	760	
91-20-3	Naphthalene	21	170	700	
85-01-8	Phenanthrene	21	170	2000	
129-00-0	Pyrene	21	170	3900	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MS
Inj Date : 26-JUL-2006 16:18
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.3;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;MS;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.000	Percent Solids

7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	505370	40.0000	
*	31 Naphthalene-d8	136	5.091	5.088	(1.000)	1554118	40.0000	
$	32 Nitrobenzene-d5	82	4.548	4.553	(0.893)	384871	22.6860	780.4
	47 Naphthalene	128	5.105	5.108	(1.003)	785926	20.3396	699.7
	51 2-Methylnaphthalene	141	5.814	5.815	(1.142)	481879	21.7033	746.6
	52 1-Methylnaphthalene	141	5.945	5.939	(1.168)	470905	22.2175	764.3
*	65 Acenaphthene-d10	164	7.383	7.382	(1.000)	811988	40.0000	
$	70 2-Fluorobiphenyl	172	6.343	6.345	(0.859)	591891	22.9060	788.0
	73 Acenaphthylene	152	7.101	7.100	(0.962)	869879	25.4798	876.5
	76 Acenaphthene	153	7.438	7.437	(1.007)	612876	26.1529	899.6
	84 Fluorene	166	8.437	8.434	(1.143)	700915	27.9646	962.0
*	97 Phenanthrene-d10	188	10.598	10.583	(1.000)	996285	40.0000	
	106 Phenanthrene	178	10.653	10.645	(1.005)	1654847	58.2565	2004(R)

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Report Date: 27-Jul-2006 09:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	10.757	10.755	(1.015)	938238	33.4554	1151
110 Fluoranthene	202	13.868	13.814	(1.309)	2759267	98.1131	3375(R)
* 124 Chrysene-d12	240	17.982	17.933	(1.000)	663688	40.0000	
126 Pyrene	202	14.449	14.390	(0.804)	2999768	113.176	3893(ARH)
$ 127 Terphenyl-d14	244	15.193	15.177	(0.845)	482150	28.7696	989.7
130 Benzo(a)anthracene	228	17.954	17.885	(0.998)	1841761	86.1276	2963(R)
131 Chrysene	228	18.066	18.002	(1.005)	1929028	98.7665	3398(RH)
* 145 Perylene-d12	264	21.803	21.736	(1.000)	675174	40.0000	
147 Benzo(b)fluoranthene	252	20.918	20.823	(0.959)	2341993	112.605	3874(AR)
148 Benzo(k)fluoranthene	252	20.968	20.893	(0.962)	1051962	48.7509	1677(H)
149 Benzo(a)pyrene	252	21.676	21.584	(0.994)	1706159	95.1331	3272(RH)
150 Indeno(1,2,3-cd)pyrene	276	24.581	24.521	(1.127)	689032	45.0307	1549
151 Dibenz(a,h)anthracene	278	24.666	24.618	(1.131)	428215	27.7985	956.3
152 Benzo(g,h,i)perylene	276	25.012	24.961	(1.147)	593871	37.4000	1286

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Report Date: 27-Jul-2006 07:07

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MS
Inj Date : 26-JUL-2006 16:18
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.3;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;MS;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 07:00 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.300	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

M 7/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.121	4.120	(1.000)	505370	40.0000	
*	31 Naphthalene-d8	136	5.091	5.088	(1.000)	1554118	40.0000	
$	32 Nitrobenzene-d5	82	4.548	4.553	(0.893)	384871	22.6860	741.4
	47 Naphthalene	128	5.105	5.108	(1.003)	785926	20.3396	664.7
	51 2-Methylnaphthalene	141	5.814	5.815	(1.142)	481879	21.7033	709.2
	52 1-Methylnaphthalene	141	5.945	5.939	(1.168)	470905	22.2175	726.1
*	65 Acenaphthene-d10	164	7.383	7.382	(1.000)	811988	40.0000	
$	70 2-Fluorobiphenyl	172	6.343	6.345	(0.859)	591891	22.9060	748.6
	73 Acenaphthylene	152	7.101	7.100	(0.962)	869879	25.4798	832.7
	76 Acenaphthene	153	7.438	7.437	(1.007)	612876	26.1529	854.7
	84 Fluorene	166	8.437	8.434	(1.143)	700915	27.9646	913.9
*	97 Phenanthrene-d10	188	10.598	10.583	(1.000)	996285	40.0000	
	106 Phenanthrene	178	10.653	10.645	(1.005)	1654847	58.2565	1904(R)

7-27-06

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Report Date: 27-Jul-2006 07:07

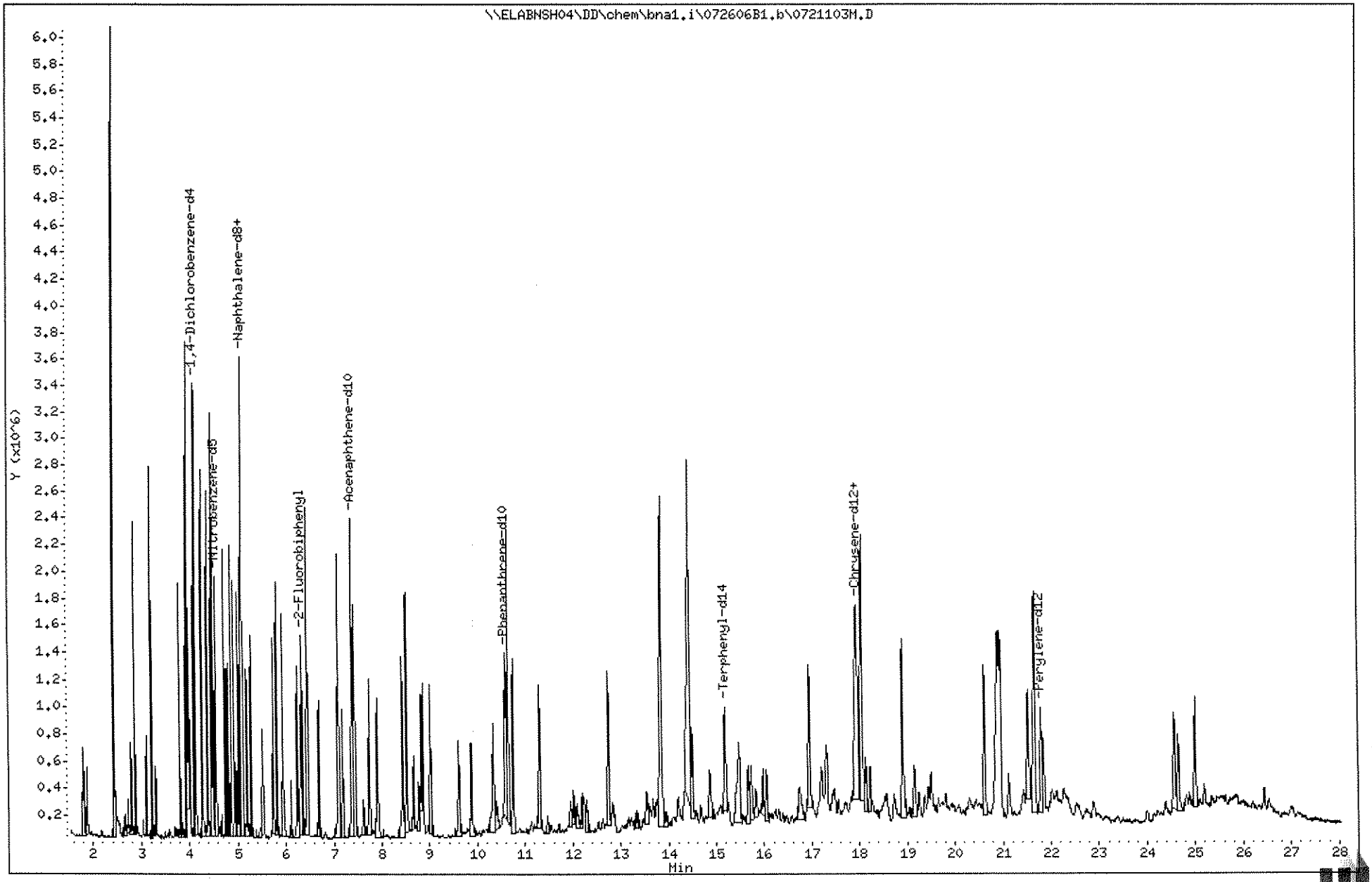
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	10.757	10.755	(1.015)	938238	33.4554	1093
110 Fluoranthene	202	13.868	13.814	(1.309)	2759267	98.1131	3206(R)
* 124 Chrysene-d12	240	17.982	17.933	(1.000)	663688	40.0000	
126 Pyrene	202	14.449	14.390	(0.804)	2999768	113.176	3698(ARH)
$ 127 Terphenyl-d14	244	15.193	15.177	(0.845)	482150	28.7696	940.2
130 Benzo(a)anthracene	228	17.954	17.885	(0.998)	1841761	86.1276	2815(R)
131 Chrysene	228	18.066	18.002	(1.005)	1929028	98.7665	3228(RH)
* 145 Perylene-d12	264	21.803	21.736	(1.000)	675174	40.0000	
147 Benzo(b)fluoranthene	252	20.918	20.823	(0.959)	2341993	112.605	3680(AR)
148 Benzo(k)fluoranthene	252	20.968	20.893	(0.962)	1051962	48.7509	1593(H)
149 Benzo(a)pyrene	252	21.676	21.584	(0.994)	1706159	95.1331	3109(RH)
150 Indeno(1,2,3-cd)pyrene	276	24.581	24.521	(1.127)	689032	45.0307	1472
151 Dibenz(a,h)anthracene	278	24.666	24.618	(1.131)	428215	27.7985	908.4
152 Benzo(g,h,i)perylene	276	25.012	24.961	(1.147)	593871	37.4000	1222

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103M.D
Date : 26-JUL-2006 16:18
Client ID: 51CFM09S060725 MS
Instrument: bna1.i
Sample Info: 0607211-03;15.3;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000478



Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
51CFM09S0
60725 MSD

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0721103S

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/26/06

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/26/06 16:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	21	170	1300	
208-96-8	Acenaphthylene	21	170	1100	
120-12-7	Anthracene	21	170	1900	
56-55-3	Benzo(a)anthracene	21	170	5900	E
205-99-2	Benzo(b)fluoranthene	21	170	9200	E
207-08-9	Benzo(k)fluoranthene	21	170	3000	
191-24-2	Benzo(g,h,i)perylene	21	170	2300	
50-32-8	Benzo(a)pyrene	21	100	6100	E
218-01-9	Chrysene	21	170	6300	E
53-70-3	Dibenz(a,h)anthracene	21	100	1600	
206-44-0	Fluoranthene	21	170	8100	E
86-73-7	Fluorene	21	170	1400	
193-39-5	Indeno(1,2,3-cd)pyrene	21	170	2600	
91-57-6	2-Methylnaphthalene	21	170	980	
90-12-0	1-Methylnaphthalene	52	170	1000	
91-20-3	Naphthalene	21	170	1000	
85-01-8	Phenanthrene	21	170	5200	E
129-00-0	Pyrene	21	170	7900	E

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Report Date: 27-Jul-2006 09:06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MSD
Inj Date : 26-JUL-2006 16:53
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;MSD;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 09:03 arobinson Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AROBINSON1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	95.000	Percent Solids

1/27/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1 1,4-Dichlorobenzene-d4	152	4.119	4.120	(1.000)	548317	40.0000	
*	31 Naphthalene-d8	136	5.091	5.088	(1.000)	1725438	40.0000	
$	32 Nitrobenzene-d5	82	4.553	4.553	(0.894)	564644	29.9779	1038
	47 Naphthalene	128	5.111	5.108	(1.004)	1241497	28.9396	1002
	51 2-Methylnaphthalene	141	5.818	5.815	(1.143)	698543	28.3378	981.2
	52 1-Methylnaphthalene	141	5.949	5.939	(1.169)	708788	30.1205	1043
*	65 Acenaphthene-d10	164	7.385	7.382	(1.000)	917232	40.0000	
$	70 2-Fluorobiphenyl	172	6.342	6.345	(0.859)	848761	29.0779	1007
	73 Acenaphthylene	152	7.109	7.100	(0.963)	1276291	33.0946	1146
	76 Acenaphthene	153	7.447	7.437	(1.008)	1014664	38.3301	1327
	84 Fluorene	166	8.446	8.434	(1.144)	1170767	41.3509	1432
*	97 Phenanthrene-d10	188	10.608	10.583	(1.000)	1025169	40.0000	
	106 Phenanthrene	178	10.697	10.645	(1.008)	4431746	151.617	5250(ARH)

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Report Date: 27-Jul-2006 09:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	10.788	10.755	(1.017)	1585206	54.9322	1902(R)
110 Fluoranthene	202	13.935	13.814	(1.314)	6774396	234.095	8106(ARH)
* 124 Chrysene-d12	240	18.046	17.933	(1.000)	752260	40.0000	
126 Pyrene	202	14.513	14.390	(0.804)	6890463	229.356	7942(ARH)
$ 127 Terphenyl-d14	244	15.224	15.177	(0.844)	738578	38.8816	1346
130 Benzo(a)anthracene	228	17.996	17.885	(0.997)	4122627	170.090	5890(AR)
131 Chrysene	228	18.129	18.002	(1.005)	4051342	183.006	6337(ARH)
* 145 Perylene-d12	264	21.848	21.736	(1.000)	502519	40.0000	
147 Benzo(b)fluoranthene	252	20.984	20.823	(0.960)	4129788	266.786	9238(ARM)
148 Benzo(k)fluoranthene	252	21.033	20.893	(0.963)	1368179	85.1900	2950(RM)
149 Benzo(a)pyrene	252	21.735	21.584	(0.995)	2347013	175.829	6088(ARH)
150 Indeno(1,2,3-cd)pyrene	276	24.615	24.521	(1.127)	840695	73.8196	2556(R)
151 Dibenz(a,h)anthracene	278	24.692	24.618	(1.130)	515484	44.9613	1557
152 Benzo(g,h,i)perylene	276	25.046	24.961	(1.146)	789833	66.8310	2314

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Report Date: 27-Jul-2006 07:07

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725 MSD
Inj Date : 26-JUL-2006 16:53
Operator : SDB Inst ID: bna1.i
Smp Info : 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Misc Info : ch2.b07211;MSD;;;072606BS1;ch2pahmay.sub;3635
Comment :
Method : \\ELABNSH04\DD\chem\bna1.i\072606B1.b\IXSOX1.m
Meth Date : 27-Jul-2006 07:00 amonteiro Quant Type: ISTD
Cal Date : 07-FEB-2006 14:49 Cal File: APPA100.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ch2pahmay.sub
Target Version: 4.04
Processing Host: NSH-AMONTEIRO1

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Amt	15.200	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

M 7/27/06

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (UG/KG)
*	1	1,4-Dichlorobenzene-d4	152	4.119	4.120	(1.000)	548317	40.0000	
*	31	Naphthalene-d8	136	5.091	5.088	(1.000)	1725438	40.0000	
$	32	Nitrobenzene-d5	82	4.553	4.553	(0.894)	564644	29.9779	986.1
	47	Naphthalene	128	5.111	5.108	(1.004)	1241497	28.9396	952.0
	51	2-Methylnaphthalene	141	5.818	5.815	(1.143)	698543	28.3378	932.2
	52	1-Methylnaphthalene	141	5.949	5.939	(1.169)	708788	30.1205	990.8
*	65	Acenaphthene-d10	164	7.385	7.382	(1.000)	917232	40.0000	
$	70	2-Fluorobiphenyl	172	6.342	6.345	(0.859)	848761	29.0779	956.5
	73	Acenaphthylene	152	7.109	7.100	(0.963)	1276291	33.0946	1089
	76	Acenaphthene	153	7.447	7.437	(1.008)	1014664	38.3301	1261
	84	Fluorene	166	8.446	8.434	(1.144)	1170767	41.3509	1360
*	97	Phenanthrene-d10	188	10.608	10.583	(1.000)	1025169	40.0000	
	106	Phenanthrene	178	10.697	10.645	(1.008)	4431746	151.617	4987(ARH)

RBW 7-27-06

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Report Date: 27-Jul-2006 07:07

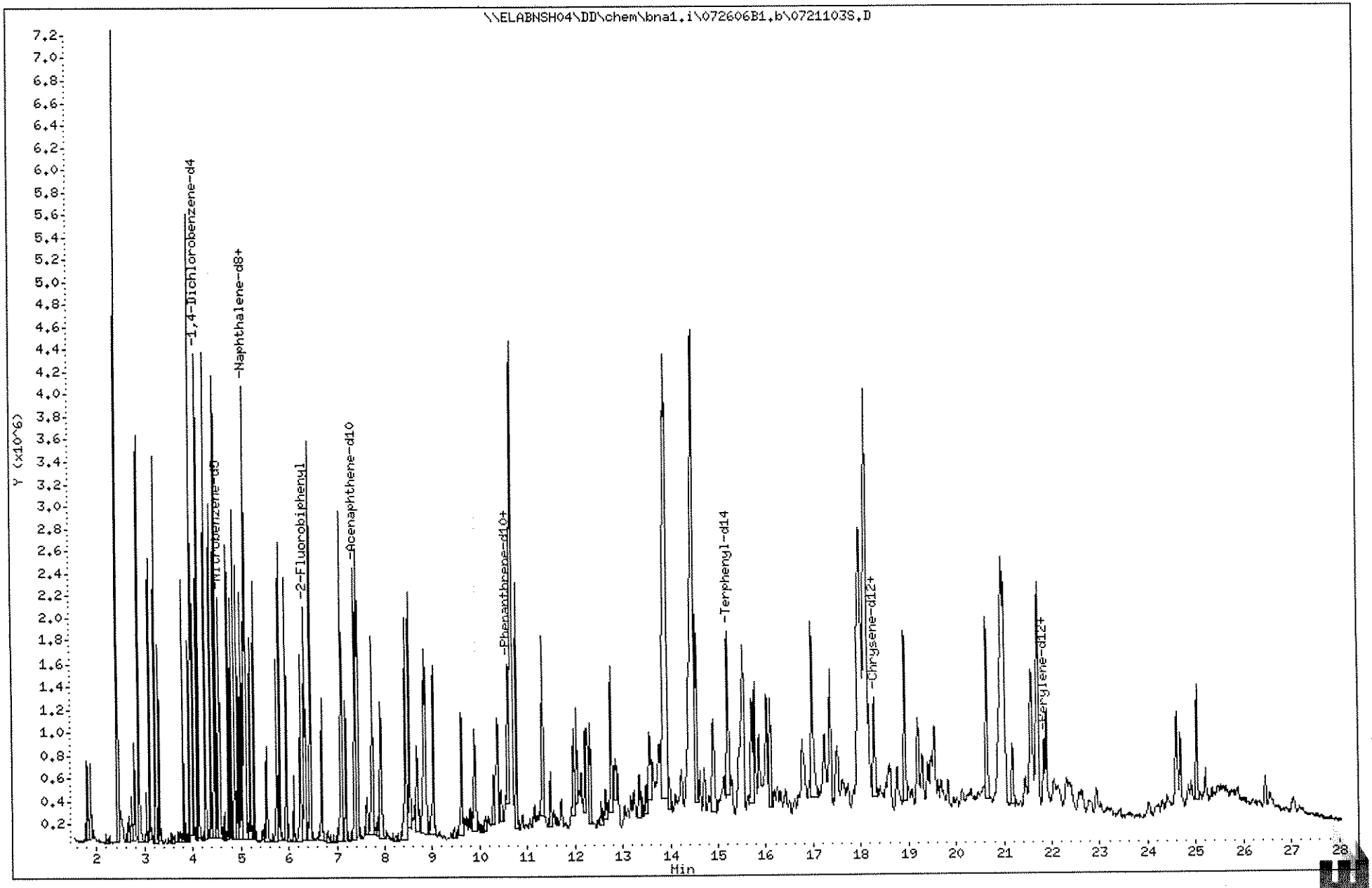
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
107 Anthracene	178	10.788	10.755	(1.017)	1585206	54.9322	1807(R)
110 Fluoranthene	202	13.935	13.814	(1.314)	6774396	234.095	7700(ARH)
* 124 Chrysene-d12	240	18.046	17.933	(1.000)	752260	40.0000	
126 Pyrene	202	14.513	14.390	(0.804)	6890463	229.356	7545(ARH)
$ 127 Terphenyl-d14	244	15.224	15.177	(0.844)	738578	38.8816	1279
130 Benzo(a)anthracene	228	17.996	17.885	(0.997)	4122627	170.090	5595(AR)
131 Chrysene	228	18.129	18.002	(1.005)	4051342	183.006	6020(ARH)
* 145 Perylene-d12	264	21.848	21.736	(1.000)	502519	40.0000	
147 Benzo(b)fluoranthene	252	20.984	20.823	(0.960)	4129788	266.786	8776(ARM)
148 Benzo(k)fluoranthene	252	21.033	20.893	(0.963)	1368179	85.1900	2802(RM)
149 Benzo(a)pyrene	252	21.735	21.584	(0.995)	2347013	175.829	5784(ARH)
150 Indeno(1,2,3-cd)pyrene	276	24.615	24.521	(1.127)	840695	73.8196	2428(R)
151 Dibenz(a,h)anthracene	278	24.692	24.618	(1.130)	515484	44.9613	1479
152 Benzo(g,h,i)perylene	276	25.046	24.961	(1.146)	789833	66.8310	2198

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna1.i\072606B1.b\0721103S.D
Date : 26-JUL-2006 16:53
Client ID: 51CFM09S060725 MSD
Instrument: bna1.i
Sample Info: 0607211-03;15.2;500;1;UG/KG;26-JUL-2006
Volume Injected (uL): 0.5
Operator: SDB
Column phase: fused silica
Column diameter: 0.25

000484



Empirical Laboratories

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ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7031, 7037	751 7/13/06	944 7/13/06		Y.S
K23-c1	7/13/06	7/13/06 14:15		Ign. ↑.
7104	750 7/17/06	854 7/17/06		Y.S
7108	842 7/18/06 RCL	1238 7/18/06 RCL		% solid
7114	925 7/18/06 RCL	↓	taken from Ingers	% solid
7004; 7014; 7114	10:35 7-18-06 RBS	10:49 7-18-06 RBS		Metals
7105-01-03	11:10 7/18/06 TAS	15:05 7/18/06 TAS		TCLP
7114-01	14:05 7/19/06 TAS	16:00 7/19/06 TAS		Ig
7108, 7114	820 7/20/06 RCL	914 7/20/06 RCL		% S
7049	8:22 7-21-06 RBS	09:01 7-21-06 RBS		Metals
7014-01-03 7106-01-34	13:00 7/21/06 TAS	15:00 7/21/06 TAS		METALS/Hg Lwt
7152-1-19	7-21-06 1:15 wg	7-21-06 1400 wg		Exp
7183-1-6	7-24-06 635 wg	7-24-06 720 wg		PAH DRO
7152, 7183	1252 7/24/06	1515 7/24/06		Y.S
7193.01→04	759 7/26/06 RCL	1034 7/26/06 RCL		TCLP NON ZHE & ZHE
7211	1000 7/26/06	1125 7/26/06		Y.S
7216-02-07	1300 From Login 7-26-06 RSW	1349 7-26-06 RSW		VOA wt/vol
7220-01-23	6:20 7/27/06 MM	1:50 7/29/06 MM		Exp - BNA
7216-02-08	↓	↓		PAH, DRO
7210.08A	916 7/27/06 RCL	209 1409 7/27/06 RCL		full TCLP

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7110-02, 06; ~~7119-02~~; ~~7138-02~~; ~~7144-02, 04, 06; 7145-02~~	8:47 7/25/06 MM		used all	O&G
7119.01, 03 7138.02, 03 7144.01	1456 7/25/06 RCh	1655 7/25/06 RCh		TSS/VSS
7145.01 7146.01→03 7147.01, 06	↓	↓		↓
7156.01 7159.01	↓	↓		↓
7103-04, 10-12 7141-01; 7145-01	14:57 7/25/06 MM	18:04 7/25/06 MM		NH3
7146-01→03 7165-01	↓	↓		↓
7188-02, 03	6:50 7/26/06 ML	all		Rest
7193-02, 03 7195-02, 03	↓	↓		PAH/DRO
7194-01→03 7146-1→3 7145-1	9:30 7/26/06 RCh	16:19 7/26/06 RB		TKN
7107; 7111; 7116; 7138; 7155; 7156; 7164; 7166; 7167	09:47 7-26-06 RB	10:46 7-26-06 RB		Metals
7204 7205	1130 7/26/06	1455 7/26/06 from login		BOD
7164 7165	1200 7/26/06	1540 7/26/06		COD
7146 7153 7203 7135 7164	↓	↓		↓
7116-2, 4, 5, 05 ~~7120-1 7138-02, 3, 5~~ 7146-1-3 7160-1-15	13:20 7/26/06 MM ↓	16:15 7/26/06 ↓		NO3
7138-05 7124-01, 02 7212-01-04	11:30 7/26/06 BTO ↓	14:30 7/26/06 BTO ↓		ANIONS ↓
7215-01	12:37 7/26/06 MM	14:35 7/26/06 MM	Took from Log In	Filter 0.45 AE 1.5 GF
7212-1-4 7213-1	8:30 7-27-06 ML	900 7-27-06 ML		Exp
7107; 7116; 7138; 7120; 7124; 7180; 7213	08:32 7-27-06 RB	09:41 7-27-06 RB		Metals

LOW · PAH

Fraction: Semi-volatiles Matrix: Water EX053

Supervisor ____________

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Volume(ml)	Final Volume(ml)	Surrogate Added	Surr Initials	Spike Added	Spk Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor Methylene Chloride	Notes/Comments	#
1	CH2mHill	7622-01	071606BW1	mH	6	980	.5ml	1ml SV 3574	mH	NA	NA	B21			WF	062123	~~0621~~ 7:30	1
2	↓	↓ -02	↓	↓	↓	966	↓	↓	↓	NA	NA	—			↓	↓		2
3	CH2mHill	7211-01*	072606BW2	mH	6	1000	.5ml	1ml SV 3637	mH	NA	NA	—			mH	062123	From Log-in No back-up	3
4	↓	↓ -02	↓	↓	↓	1000	↓	↓	↓	NA	NA	—			↓	↓	10:35	4
5										NA	NA						* = Leaked on 1st shake	5
6										NA	NA							6
7										NA	NA							7
8										NA	NA							8
9										NA	NA							9
10										NA	NA							10
11										NA	NA							11
12										NA	NA							12
13										NA	NA							13
14										NA	NA							14
15										NA	NA							15
16										NA	NA							16
17										NA	NA							17
18										NA	NA							18
19										NA	NA							19
20										NA	NA							20
	M.Blank	1-2	071606BW1	mH		1000	.5ml	SAS	SAS		mH	—			WF	SAS		
	LCS	↓	↓	↓		1000	↓	SAS	SAS	1ml SV 3558	↓	—			↓	SAS		
								SAS	SAS							SAS		
	M.Blank	3-4	072606BW2	mH		1000	.5ml	SAS	SAS		mH	B21			mH	SAS		
	LCS	↓	↓	↓		1000	↓	SAS	SAS	1ml SV [illegible]	↓	B6			↓	SAS		
	LCS Dup	↓	↓	↓		1000	↓	SAS	SAS	↓	↓	B11			↓	SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		

Empirical Laboratories

Fraction: Semi-volatiles Matrix: Soil Level: Low/Soxhlet/Medium (circle one) Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	Initial Weight	Final Volume	Surrogate Added	Surr. Initials	Spike Added	Spk Initials	Sox.	Thimble	Thimble	Transf. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Acetone	Notes/Comments
1	[redacted]	7014-01	07110686	MH	15.4	1ml	.5ml SV 3557	MH	NA	NA	—	—	PO	wf	062287	062123	7:35
2		-02			15.6				NA	NA	SBZ71	—	—				
3		-03			15.3				NA	NA	—	—	—				
4	[redacted]	7114-01	07180686S1	wf	15.5	1ml	SV 3557	wf	NA	NA	—	-	PC		063478	062287	Rush 9:15
5	[redacted]	7163-01	07240686S1	WF	15.1	1/2 ml	250µl SV 3557	wf	NA	NA	—	ST33	—	wf	062123		very strong diesel smell
6		-02	750		15.2				NA	NA	SBZ71	—	—				
7		-03			15.1				NA	NA	—	—	—				
8		-04			15.0				NA	NA	—	—	—				
9		-05			15.1				NA	NA	—	ST20	B6				
10		-06			15.1				NA	NA	—	—	B11				
11	Ch2	7211-03	07260686S1	wf	15.2	1/2ml	SV 3557	wf	NA	NA	—	—	FAI	MH	062123	062287	
12		04			15.1				NA	NA	—	—	300				
13		05	1045		15.1				NA	NA	—	—	—				
14		06			15.2				NA	NA	—	—	—				
15		07			15.3				NA	NA	—	—	—				
16		08			15.1				NA	NA	—	—	STA				
17		09			15.2				NA	NA	—	—	—				
18		10			15.3				NA	NA	—	—	—				
19		11			15.2				NA	NA	—	—	—				
20		12			15.2				NA	NA	—	—	—				
	MBlank	1-3	07110686S1	MH	—	1ml	SAS	SAS	.5ml SV 3557 .5ml SV 3616	MH	—	62	GO	wf			
	LCS				—		SAS	SAS			—	9	BZS				
							SAS	SAS									
	MBlank	7114-1	07180686S1	wf	—	1ml	SAS	SAS	.5ml SV 3617		T+		DRG				
	LCS				—		SAS	SAS	.5ml SV 3616	wf	—		—				
							SAS	SAS									
	M. Blank	5-10	07240686S1	WF	—	1/2ml	SAS	SAS			—	—	—	wf			
	LCS				—		SAS	SAS	250µl SV 3616	wf	—	—	BZL				
	MS	7163-05			15.1		SAS	SAS	.25µl SV 3617		—	—	—				
	MSD				15.0		SAS	SAS			—	—	B24				
							SAS	SAS									
	MBlank	11-20	07260686S1	wf	—	1/2ml	SAS	SAS	250µl SV 3616		—	—	—	MH			
	LCS				—		SAS	SAS	250µl SV 3617	MH	—	—	—				
	MS	7211-3			15.3		SAS	SAS	250µl SV 3539		—	—	MAP				
	MSD				15.2		SAS	SAS			—	—	CAP				
							SAS	SAS									
							SAS	SAS									

FROM LOG IN

000488

Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7158-1-4	PCB	10:05am 7/25/06	TJM	11:20am 7/25/06	TJM	clean-up/analysis
7166-1-4 7167-2-4	BNA			7-25-1100	ug	
7107-2-5; 7111-2,3 7138-2,3,5 7114-2,4,5; 7140-1-5,7,8	PEST/PCB	1:10 Pm/7-25-06	J.H.	4:55 Pm/7-25-06	J.H.	ANALYZE
7107-2-5; 7111-2,3 7114-2,4,5; 7138-2,3,5 7140-1-5,7,8	HERB.	1:40 Pm/7-25-06	J.H.	↓	J.H.	ANALYZE
6382-05 6404-01	PEST/PCB	1:55 Pm/7-25-06	J.H.	↓	J.H.	RE-ANALYZE
7188-2,3	Pest			7-26-06 930	ug	
7193-2,3 7195-2,3	DRO			7-26-06 1000	ug	
7152-6,7	Explosive	10:15 7/26/06	BTD	14:30 7/26/06 BTD	BTD	Dilute & Analyze
7188-2,3	PEST.	1:45 Pm/7-26-06	J.H.	15:30 7/26/06	BTD	ANALYZE
7211-1,2 7211-3-12	FPRO Straight to GC			7-26-06 230	ug	
7291-03-12; 7195-02,03 7211-01,02; 7193-02,03	PAH Straight to GCMS			7/26/06 7:30	MB	
7195-02,03 7193-02,03	PAH			7/27/06 2:55	M	
7211-1-12	F.PRO	14:30 7/26/06	BTD	15:30 7/26/06 BTD	BTD	Analyzed
7216-02-07	PAH			10:35 07/27/07	MB	
7216-02-07	DRO			10:35 07/27/07	MB	
7109-2-9	F.PRO	12:30 7/27/06	BTD	13:45 07/27/06	BTD	Re Analyze
7211-1-12	PAH			2:30 7/27/06	M	
7211-3,5,9,8,12	PAH			8:20 7/28/06	M	Diluting
7220-1-23	BNA			7-28-06 1630	ug	
7237-01-04	Pest/PCB	INSERTED: 7-28-06 @ 3:35 Pm J.H. Straight to GC		12:00 7/28/06	MB	ANALYZE
7237-1-4 7220-15-23	BNA	12:30 7/28/06 M	M	7:30 7/31/06	M	Analyze
7212-01-04 7213-04; 7225-01-05	EXP			1255 7/24/06	MB	

Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

04/20/06
5279

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0419B1	DFTPPBN1	DF0419B1;;;;;SV3529
4	Sample	2	CAL001	IXBN1	CAL001PPM;;;;;SV3350-1
5	Sample	3	CAL002	IXBN1	CAL002PPM;;;;;SV3350-2
6	Sample	4	CAL005	IXBN1	CAL005PPM;;;;;SV3350-3
7	Sample	5	CAL010	IXBN1	CAL010PPM;;;;;SV3350-4
8	Sample	6	CAL020	IXBN1	CAL020PPM;;;;;SV3350-5
9	Sample	7	CAL030	IXBN1	CAL030PPM;;;;;SV3350-6
10	Sample	8	CAL040	IXBN1	CAL040PPM;;;;;SV3350-7
11	Sample	9	CAL050	IXBN1	CAL050PPM;;;;;SV3350-8
12	Sample	10	CAL060	IXBN1	CAL060PPM;;;;;SV3350-9
13	Sample	11	CAL070	IXBN1	CAL070PPM;;;;;SV3350-10
14	Sample	12	CAL080	IXBN1	CAL080PPM;;;;;SV3350-11
15	Sample	13	CAL090	IXBN1	CAL090PPM;;;;;SV3350-12
16	Sample	14	CAL100	IXBN1	CAL100PPM;;;;;SV3350-13
17	Sample	15	ICV050	IXBN1	ICV050PPM;;;;;SV3355
18	Sample	16	ICV050EX	IXBN1	ICV050PPMex;;;;;SV3356

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

4/19/06 5280

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info		
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 041906B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D		
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 041906B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D		
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
3	Type: Sample	DF0419B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 041906B1.b	
	Data: DF0419B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	CAL001PPM;;;;;SV3350-1	
	Vial: 2	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL001.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	CAL002PPM;;;;;SV3350-2	
	Vial: 3	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL002.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	CAL005PPM;;;;;SV3350-3	
	Vial: 4	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL005.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	CAL010PPM;;;;;SV3350-4	
	Vial: 5	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL010.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	CAL020PPM;;;;;SV3350-5	
	Vial: 6	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	

Quant Report :Default CR Spreadsheet :Default
CR Database :Default

---

9 Type: Sample CAL030PPM;;;;;SV3350-6
Vial: 7 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL030.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample CAL040PPM;;;;;SV3350-7
Vial: 8 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL040.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample CAL050PPM;;;;;SV3350-8
Vial: 9 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL050.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample CAL060PPM;;;;;SV3350-9
Vial: 10 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL060.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample CAL070PPM;;;;;SV3350-10
Vial: 11 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL070.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample CAL080PPM;;;;;SV3350-11
Vial: 12 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL080.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample CAL090PPM;;;;;SV3350-12
Vial: 13 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL090.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample CAL100PPM;;;;;SV3350-13
Vial: 14 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL100.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample ICV050PPM;;;;;SV3355
Vial: 15 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: ICV050.D Samp Amt: 0 Multiplr: 1

CR Database

18	Type: Sample	ICV050PPMex;;;;;SV3356	
	Vial: 16	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: ICV050EX.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default

4/19/06
5282

Data Path: F:\HPCHEM\1\DATA\042106B3\
Pre-Seq Cmd:
Post-Seq Cmd:

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2497

ethod Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

ine	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0421B1	DFTPPLOW	DF0421B1;;;;;SV3177
3	Sample	2	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3534
4	Sample	3	PAH001	PAHLOWS	PAHCCV0.10PPM;;;;;SV3490-1
5	Sample	4	PAH002	PAHLOWS	PAHCCV0.20PPM;;;;;SV3490-2
6	Sample	5	PAH003	PAHLOWS	PAHCCV0.40PPM;;;;;SV3490-3
7	Sample	6	PAH004	PAHLOWS	PAHCCV0.60PPM;;;;;SV3490-4
8	Sample	7	PAH006	PAHLOWS	PAHCCV1.00PPM;;;;;SV3490-6
9	Sample	8	PAH008	PAHLOWS	PAHCCV2.50PPM;;;;;SV3490-8
.0	Sample	9	PAH009	PAHLOWS	PAHCCV5.00PPM;;;;;SV3490-9
.1	Sample	10	PAH011	PAHLOWS	PAHCCV10.0PPM;;;;;SV3490-11
.2	Sample	11	PAH013	PAHLOWS	PAHCCV20.0PPM;;;;;SV3490-13
.3	Sample	12	PAHICV	PAHLOWS	PAHICV5.0PPM;;;;;SV3397

t Modified: Fri Apr 21 16:26:57 2006

Operator: ADM
Data Path: F:\HPCHEM\1\DATA\042106b3\
?re-Seq Cmd:
?st-Seq Cmd:

4/21/06 24:48

thod Sections To Run
K) Full Method
) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

ne	Sample Name/Misc Info	
Type: Sample	;;;;;SV3177	
Vial: 100	;3;DFTPP;;;;;	
Meth: DFTPPLOW.M	Barcode:	
Data: BLANK.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
Type: Sample	DF0421B1;;;;;SV3177	
Vial: 1	;3;DFTPP;;;;;	
Meth: DFTPPLOW.M	Barcode:	
Data: DF0421B1.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
Type: Sample	PAHCCV5.0PPM;;;;;SV3534	
Vial: 2	;;;;;;pahsurr.sub;3459	
Meth: PAHLOWS.M	Barcode:	
Data: PAHCCV.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
Type: Sample	PAHCCV0.10PPM;;;;;SV3490-1	
Vial: 3	;;;;;;pahsurr.sub;3459	
Meth: PAHLOWS.M	Barcode:	
Data: PAH001.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
; Type: Sample	PAHCCV0.20PPM;;;;;SV3490-2	
Vial: 4	;;;;;;pahsurr.sub;3489	
Meth: PAHLOWS.M	Barcode:	
Data: PAH002.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
6 Type: Sample	PAHCCV0.40PPM;;;;;SV3490-3	
Vial: 5	;;;;;;pahsurr.sub;3489	
Meth: PAHLOWS.M	Barcode:	
Data: PAH003.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method
7 Type: Sample	PAHCCV0.60PPM;;;;;SV3490-4	
Vial: 6	;;;;;;pahsurr.sub;3489	
Meth: PAHLOWS.M	Barcode:	
Data: PAH004.D	Samp Amt: 0	Multiplr: 1
Area% Report	:per Method	Lib. Search Rep :per Method
Quant Report	:per Method	Post-Quant Macro:per Method
CR Database	:per Method	CR Spreadsheet :per Method

Sequence:042106B3.S Last Modified:Fri Apr 21 16:26:57 2006 Page: 1

Vial: 7 ;;;;;;
Meth: PAHLOWS.M Barcode:
Data: PAH006.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

Type: Sample PAHCCV2.50PPM;;;;;SV3490-8
Vial: 8 ;;;;;;pahsurr.sub;3489
Meth: PAHLOWS.M Barcode:
Data: PAH008.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

Type: Sample PAHCCV5.00PPM;;;;;SV3490-9
Vial: 9 ;;;;;;pahsurr.sub;3489
Meth: PAHLOWS.M Barcode:
Data: PAH009.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

Type: Sample PAHCCV10.0PPM;;;;;SV3490-11
Vial: 10 ;;;;;;pahsurr.sub;3489
Meth: PAHLOWS.M Barcode:
Data: PAH011.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

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2 Type: Sample PAHCCV20.0PPM;;;;;SV3490-13
Vial: 11 ;;;;;;pahsurr.sub;3489
Meth: PAHLOWS.M Barcode:
Data: PAH013.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

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3 Type: Sample PAHICV5.0PPM;;;;;SV3397
Vial: 12 ;;;;;;pahsurr.sub;3353
Meth: PAHLOWS.M Barcode:
Data: PAHICV.D Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

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2499

Operator: SDB
Data Path: F:\HPCHEM\1\DATA\072606b3\
Pre-Seq Cmd:
Post-Seq Cmd:

2578

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

M 7/27/6

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPLOW	;;;;;SV3177
2	Sample	1	DF0726B1	DFTPPLOW	DF0726B1;;;;;SV3177 1308 7-26-06
3	Sample	2	SPCC020	PAHLOWS	SPCC020PPM;;;;;SV3634
4	Sample	3	PAHCCV	PAHLOWS	PAHCCV5.0PPM;;;;;SV3633
5	Sample	4	SBLK0726	PAHLOWW	SBLK0726B1;1;1000;500;1;UG/L;
6	Sample	5	SLCS0726	PAHLOWW	SBLK0726B1LCS;1;1000;500;1;UG
7	Sample	6	SLCD0726	PAHLOWW	SBLK0726B1LCSD;1;1000;500;1;U
8	Sample	7	0721101	PAHLOWW	0607022-01;1;1000;500;1;UG/L;
9	Sample	8	0721102	PAHLOWW	0607022-02;1;1000;500;1;UG/L; 1902 7-26-06

Operator: SDB
Data Path: F:\HPCHEM\1\DATA\072606b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample Vial: 100 Meth: DFTPPLOW.M Data: BLANK.D Area% Report :per Method Quant Report :per Method CR Database :per Method	;;;;;SV3177 ;3;DFTPP;;;;; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
2 Type: Sample Vial: 1 Meth: DFTPPLOW.M Data: DF0726B1.D Area% Report :per Method Quant Report :per Method CR Database :per Method	DF0726B1;;;;;SV3177 ;3;DFTPP;;;;; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
3 Type: Sample Vial: 2 Meth: PAHLOWS.M Data: SPCC020.D Area% Report :per Method Quant Report :per Method CR Database :per Method	SPCC020PPM;;;;;SV3634 ;;;;;;pahsurr.sub;3620 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
4 Type: Sample Vial: 3 Meth: PAHLOWS.M Data: PAHCCV.D Area% Report :per Method Quant Report :per Method CR Database :per Method	PAHCCV5.0PPM;;;;;SV3633 ;;;;;;pahsurr.sub;3620 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
5 Type: Sample Vial: 4 Meth: PAHLOWW.M Data: SBLK0726.D Area% Report :per Method Quant Report :per Method CR Database :per Method	SBLK0726B1;1;1000;500;1;UG/L;26-JUL-2006 ;3;BLANK;;;072606B1;pahsurr.sub;3620 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
6 Type: Sample Vial: 5 Meth: PAHLOWW.M Data: SLCS0726.D Area% Report :per Method Quant Report :per Method CR Database :per Method	SBLK0726B1LCS;1;1000;500;1;UG/L;26-JUL-2006 ;3;LCS;;;072606B1;pahsurr.sub;3620 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method
7 Type: Sample Vial: 6 Meth: PAHLOWW.M Data: SLCD0726.D Area% Report :per Method Quant Report :per Method CR Database :per Method	SBLK0726B1LCSD;1;1000;500;1;UG/L;26-JUL-2006 ;3;LCSD;;;072606B1;pahsurr.sub;3620 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep :per Method Post-Quant Macro:per Method CR Spreadsheet :per Method

```
8   Type: Sample          ch2.b07211;;;;;072606B1;pahsurr.sub;3620
    Vial: 7               Barcode:
    Meth: PAHLOWW.M       Samp Amt: 0          Multiplr: 1
    Data: 0721101.D     :per Method          Lib. Search Rep :per Method
    Area% Report        :per Method          Post-Quant Macro:per Method
    Quant Report        :per Method          CR Spreadsheet  :per Method
    CR Database         :per Method
-------------------------------------------------------------------------
9   Type: Sample          0607022-02;1;1000;500;1;UG/L;26-JUL-2006
    Vial: 8               ch2.b07211;;;;;072606B1;pahsurr.sub;3620
    Meth: PAHLOWW.M       Barcode:
    Data: 0721102.D       Samp Amt: 0          Multiplr: 1
    Area% Report        :per Method          Lib. Search Rep :per Method
    Quant Report        :per Method          Post-Quant Macro:per Method
    CR Database         :per Method          CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

2580

Comment: [illegible]
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\072606B1\
Pre-Seq Cmd:
Post-Seq Cmd:

5589

M 7/26/6

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0726B1	DFTPPBN1	DF0726B1;;;;;SV3529 12:17, 7/26
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3640
5	Sample	3	APP9A	IXBN1	APP9aCCV050PPM;;;;;SV3630
6	QC	4	SBLK0726	IXBN1	SBLK0726BS1;15;500;1;UG/KG;26-JUL-200
7	QC	5	SLCS0726	IXBN1	SBLK0726BS1LCS;15;500;1;UG/KG;26-JUL-
8	Sample	6	0721103	IXBN1	0607211-03;15.2;500;1;UG/KG;26-JUL-20 — RR10X
9	Sample	7	0721103M	IXBN1	0607211-03;15.3;500;1;UG/KG;26-JUL-20
10	Sample	8	0721103S	IXBN1	0607211-03;15.2;500;1;UG/KG;26-JUL-20
11	Sample	9	0721104	IXBN1	0607211-04;15.1;500;1;UG/KG;26-JUL-20
12	Sample	10	0721105	IXBN1	0607211-05;15.1;500;1;UG/KG;26-JUL-20 — RR100X
13	Sample	11	0721106	IXBN1	0607211-06;15.2;500;1;UG/KG;26-JUL-20
14	Sample	12	0721107	IXBN1	0607211-07;15.3;500;1;UG/KG;26-JUL-20
15	Sample	13	0721108	IXBN1	0607211-08;15.1;500;1;UG/KG;26-JUL-20 — RR2X
16	Sample	14	0721109	IXBN1	0607211-09;15.2;500;1;UG/KG;26-JUL-20 — RR50X
17	Sample	15	0721110	IXBN1	0607211-10;15.3;500;1;UG/KG;26-JUL-20
18	Sample	16	0721111	IXBN1	0607211-11;15.2;500;1;UG/KG;26-JUL-20
19	Sample	17	0721112	IXBN1	0607211-12;15.2;500;1;UG/KG;26-JUL-20 21:04, 7/26 RR10X
20	Sample	18	FLROCCV	IXBN1	FLPROCCV4250;;;;;5466D — Run needs to be extended

Comment: SW846-8270C/8B
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\072606B1\
Pre-Seq Cmd:
Post-Seq Cmd:

5590

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info	
1	Type: Sample	;;;;;ppbna .sub;
	Vial: 99	Barcode: 072506B1.b
	Meth: IXBN1.M	Samp Amt: 0 Multiplr: 1
	Data: PRIMER.D	Lib. Search Rep.:Default
	Area% Report :Default	Post-Quant Macro:Default
	Quant Report :Default	CR Spreadsheet :Default
	CR Database :Default	
2	Type: Sample	;;;;;ppbna .sub;
	Vial: 100	Barcode: 072506B1.b
	Meth: DFTPPBN1.M	Samp Amt: 0 Multiplr: 1
	Data: BLANK01.D	Lib. Search Rep.:Default
	Area% Report :Default	Post-Quant Macro:Default
	Quant Report :Default	CR Spreadsheet :Default
	CR Database :Default	
3	Type: Sample	DF0726B1;;;;;SV3529
	Vial: 1	;;;;;ppbna.sub;
	Meth: DFTPPBN1.M	Barcode: 072606B1.b
	Data: DF0726B1.D	Samp Amt: 0 Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default
	Quant Report :Default	Post-Quant Macro:Default
	CR Database :Default	CR Spreadsheet :Default
4	Type: Sample	CCV050PPM;;;;;SV3640
	Vial: 2	;;;;;ppbna.sub;3627
	Meth: IXBN1.M	Barcode: 072606B1.b
	Data: CCV050.D	Samp Amt: 0 Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default
	Quant Report :Default	Post-Quant Macro:Default
	CR Database :Default	CR Spreadsheet :Default
5	Type: Sample	APP9aCCV050PPM;;;;;SV3630
	Vial: 3	;;;;;app9b.sub;3627
	Meth: IXBN1.M	Barcode: 072606B1.b
	Data: APP9A.D	Samp Amt: 0 Multiplr: 1
	Area% Report :Default	Lib. Search Rep.:Default
	Quant Report :Default	Post-Quant Macro:Default
	CR Database :Default	CR Spreadsheet :Default
6	Type: QC	SBLK0726BS1;15;500;1;UG/KG;26-JUL-2006
	Vial: 4	;BLANK;;;072606BS1;ch2pahmay.sub;3635
	Meth: IXBN1.M	Barcode: 072606B1.b
	Data: SBLK0726.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default
	Quant Report :Default	Post-Quant Macro:Default
	CR Database :Default	CR Spreadsheet :Default
7	Type: QC	SBLK0726BS1LCS;15;500;1;UG/KG;26-JUL-2006
	Vial: 5	;LCS;;;072606BS1;ch2pahmay.sub;3635
	Meth: IXBN1.M	Barcode: 072606B1.b
	Data: SLCS0726.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default	Lib. Search Rep.:Default
	Quant Report :Default	Post-Quant Macro:Default
	CR Database :Default	CR Spreadsheet :Default
8	Type: Sample	0607211-03;15.2;500;1;UG/KG;26-JUL-2006
	Vial: 6	ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
	Meth: IXBN1.M	Barcode: 072606B1.b

```
   Area% Report     :Default          Post-Quant Macro:Default
   Quant Report     :Default          CR Spreadsheet  :Default
   CR Database      :Default
-------------------------------------------------------------------
9  Type: Sample       0607211-03;15.3;500;1;UG/KG;26-JUL-2006
   Vial: 7            ch2.b07211;MS;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721103M.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10 Type: Sample       0607211-03;15.2;500;1;UG/KG;26-JUL-2006
   Vial: 8            ch2.b07211;MSD;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721103S.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11 Type: Sample       0607211-04;15.1;500;1;UG/KG;26-JUL-2006
   Vial: 9            ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721104.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12 Type: Sample       0607211-05;15.1;500;1;UG/KG;26-JUL-2006
   Vial: 10           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721105.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13 Type: Sample       0607211-06;15.2;500;1;UG/KG;26-JUL-2006
   Vial: 11           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721106.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14 Type: Sample       0607211-07;15.3;500;1;UG/KG;26-JUL-2006
   Vial: 12           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721107.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15 Type: Sample       0607211-08;15.1;500;1;UG/KG;26-JUL-2006
   Vial: 13           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721108.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16 Type: Sample       0607211-09;15.2;500;1;UG/KG;26-JUL-2006
   Vial: 14           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721109.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17 Type: Sample       0607211-10;15.3;500;1;UG/KG;26-JUL-2006
   Vial: 15           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
   Meth: IXBN1.M      Barcode: 072606B1.b
   Data: 0721110.D    Samp Amt: 0          Multiplr: 1
```

5091

```
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample       0607211-11;15.2;500;1;UG/KG;26-JUL-2006
    Vial: 16           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
    Meth: IXBN1.M      Barcode: 072606B1.b
    Data: 0721111.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample       0607211-12;15.2;500;1;UG/KG;26-JUL-2006
    Vial: 17           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
    Meth: IXBN1.M      Barcode: 072606B1.b
    Data: 0721112.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample       FLPROCCV4250;;;;;5466D
    Vial: 18           ;;;;;ppbna.sub;
    Meth: IXBN1.M      Barcode: 072606B1.b
    Data: FLROCCV.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

5592

Operator: SDB
Data Path: C:\HPCHEM\1\DATA\072706B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK01	DFTPPBN1	
2	Sample	1	DF0727B1	DFTPPBN1	DF0727B1;;;;;SV3529
3	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3640
4	Sample	3	APP9A	IXBN1	APP9aCCV050PPM;;;;;SV3630
5	Sample	4	CCV050S	IXSOX1	CCV050PPM;;;;;SV3640
6	Sample	5	0721103D	IXSOX1	0607211-03;15.2;500;1;UG/KG;26-JUL-20 10X
7	Sample	6	0721112D	IXSOX1	0607211-12;15.2;500;1;UG/KG;26-JUL-20 10X
8	Sample	7	721105D1	IXSOX1	0607211-05;15.1;500;1;UG/KG;26-JUL-20 200X
9	Sample	8	721105D2	IXSOX1	0607211-05;15.1;500;1;UG/KG;26-JUL-20 100X
10	Sample	9	0721109D	IXSOX1	0607211-09;15.2;500;1;UG/KG;26-JUL-20 50X
11	Sample	10	0721108D	IXSOX1	0607211-08;15.1;500;1;UG/KG;26-JUL-20 2X

Comment:
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\072706B1\
Pre-Seq Cmd:
Post-Seq Cmd:

5596

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK01.D Area% Report :Default Quant Report :Default CR Database :Default ;;;;;ppbna .sub; Barcode: 072706B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2	Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0727B1.D Area% Report :Default Quant Report :Default CR Database :Default DF0727B1;;;;;SV3529 ;;;;;ppbna.sub; Barcode: 072706B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3	Type: Sample Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default CCV050PPM;;;;;SV3640 ;;;;;ppbna.sub;3627 Barcode: 072706B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4	Type: Sample Vial: 3 Meth: IXBN1.M Data: APP9A.D Area% Report :Default Quant Report :Default CR Database :Default APP9aCCV050PPM;;;;;SV3630 ;;;;;app9b.sub;3627 Barcode: 072706B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5	Type: Sample Vial: 4 Meth: IXSOX1.M Data: CCV050S.D Area% Report :Default Quant Report :Default CR Database :Default CCV050PPM;;;;;SV3640 ;;;;;ppbna.sub;3627 Barcode: 072706B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6	Type: Sample Vial: 5 Meth: IXSOX1.M Data: 0721103D.D Area% Report :Default Quant Report :Default CR Database :Default 0607211-03;15.2;500;1;UG/KG;26-JUL-2006 ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635 Barcode: 072706B1.b Samp Amt: 0 Multiplr: 10 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7	Type: Sample Vial: 6 Meth: IXSOX1.M Data: 0721112D.D Area% Report :Default Quant Report :Default CR Database :Default 0607211-12;15.2;500;1;UG/KG;26-JUL-2006 ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635 Barcode: 072606B1.b Samp Amt: 0 Multiplr: 10 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8	Type: Sample Vial: 7 Meth: IXSOX1.M 0607211-05;15.1;500;1;UG/KG;26-JUL-2006 ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635 Barcode: 072606B1.b

```
    Area% Report     :Default          Post-Quant Macro:Default
    Quant Report     :Default          CR Spreadsheet  :Default
    CR Database      :Default
-------------------------------------------------------------------
9   Type: Sample      0607211-05;15.1;500;1;UG/KG;26-JUL-2006
    Vial: 8           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
    Meth: IXSOX1.M    Barcode: 072606B1.b
    Data: 721105D2.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: Sample      0607211-09;15.2;500;1;UG/KG;26-JUL-2006
    Vial: 9           ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
    Meth: IXSOX1.M    Barcode: 072606B1.b
    Data: 0721109D.D  Samp Amt: 0          Multiplr: 50
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: Sample      0607211-08;15.1;500;1;UG/KG;26-JUL-2006
    Vial: 10          ch2.b07211;;;;072606BS1;ch2pahmay.sub;3635
    Meth: IXSOX1.M    Barcode: 072606B1.b
    Data: 0721108D.D  Samp Amt: 0          Multiplr: 2
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
```

5595

ANALYTICAL REPORT

MAIN DATA PACKAGE – ORGANIC

PETROLEUM RANGE ORGANICS SECTION

CH2M Hill, Inc.

WO #0607211
Part 2 of 3

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

August 8, 2006

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WO #0607211

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607211

Lab Sample ID	Client Sample ID	Dilution
0607211-01	51EQB3W060725	1
0607211-02	51EQB4W060725	1
0607211-03	51CFM09S060725	1
0607211-04	51CFM10S060725	1
0607211-05	51CFM11S060725	1
0607211-05DL	51CFM11S060725DL	5
0607211-06	51CFM12S060725	1
0607211-07	51CFM13S060725	1
0607211-08	51CFM14S060725	1
0607211-09	51CFM15S060725	1
0607211-09DL	51CFM15S060725DL	10
0607211-10	51CFM16S060725	1
0607211-11	51CFM17S060725	1
0607211-12	51DUP1S060725	1

Florida Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, sonication or separatory funnel extraction followed by capillary column GC/FID) for soils or waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Note: Samples exceeding a concentration of 460mg/kg were further speciated into the following routinely supplied hydrocarbon ranges of >C8-C10, >C10-C12, >C12-C16, >C16-C22 and >C22-C36. The associated QC samples FS1BLK0726/LCS were also speciated in this manner.
- Initial Calibration Criteria: All method calibration criteria were met.
- Continuing Calibration Criteria: The continuing calibration standard associated with analysis of sample 51CFM17S060725 exceeded the limit of 25% for PRO on the high side at +28.7%. No target analytes were detected in this sample. Several of the continuing calibrations exceeded 25% difference on the high side for the range >C16-C22. As reported concentrations for this range were well below the Florida criteria, no further action was taken.
- Blank Results: Method blanks FS1BLK0726 and FW1BLK0726 have reported concentrations of the target analytes. Reported concentrations in the associated samples within 5x the method blank concentration are flagged with a "B". None of the speciated range concentrations reported were within 5x the method blank concentration.
- Surrogate Recoveries: All surrogate recoveries from undiluted analyses were within limits with the exception of nonatriacontane in sample 51CFM12S060725 which exceeded the limit of 150% at 196%.
- FS1BLK0726LCS results: All recoveries were within limits.
- FW1BLK0726LCS results: Recovery exceeded the limit of 118% at 123%. Reported concentrations in the associated samples are less than the quantitation limit and flagged "J" as

estimated.

- 51CFM09S060725MS/MSD: Recoveries of PRO exceeded the limit of 140% at 153%/(127%) with a relative percent difference of 12.
- Dilutions: All samples were analyzed based upon screening/analysis results as indicated in the table above.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

CH2M Hill Constructors, Inc.
Center Center Place, Suite 700
30346-1278
No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-003 (1 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	51EQB3W060724 25	Pre-Equipment Blank	W	07/25/06	15:50	C	3 Day	3	3				Grab	1 Amber bottle	7211-01
2	51EQB4W060724	Post-Equipment Blank	W	07/25/06	17:35	C	3 Day	3	3				Grab		02
3	51CFM09S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:10	C	3 Day	4	1				Grab		03
4	51CFM10S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:20	C	3 Day	4	1				Grab		04
5	51CFM11S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:30	C	3 Day	4	1				Grab		05
6	51CFM12S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:40	C	3 Day	4	1				Grab		06
7	51CFM13S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:45	C	3 Day	4	1				Grab		07
8	51CFM14S060724	Post-Excavation Confirmatory Sampling	S	07/25/06	16:50	C	3 Day	4	1				Grab		08
9	51CFM15S060724 ↓	Post-Excavation Confirmatory Sampling	S	07/25/06	17:05	C	3 Day	4	1				Grab		09
-	See Next Page MH 7/27/06	See Next Page	--	--	--	--	--	--	--	--	--	--	See Next Page	See Next Page	--

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	Printed Name and Signature: FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature:	7-26-06	900

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

00004

Empirical Laboratories

Hill Constructors, Inc.
ter Center Place, Suite 700
30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-003 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
10	51CFM16S060725	Post-Excavation Confirmatory Sampling	W	07/25/06	17:15	C	3 Day	4	1			Grab		7211-10
11	51CFM17S060724	Post-Excavation Background Sampling	W	07/25/06	17:25	C	3 Day	4	1			Grab		11
12	51MS1S060724	Matrix Spike Sample (51CFM09S060724)	W	07/25/06	16:10	C	3 Day	4	1			Grab		03
13	51MSD1S060724	Matrix Spike Duplicate Sample (51CFM09S060724)	S	07/25/06	16:10	C	3 Day	4	1			Grab		03
14	51DUP1S060724	Duplicate Sample	S	07/25/06	--	C	3 Day	4	1			Grab		12
15	TB 51BLK3W060724	TTP Temp Blank	W	--	--			1					Prepared by lab	13
16	TB 51BLK4W060724	Temp Blank	W	--	--			1					Prepared by lab	14
		M 7/27/06 as per Bethany												

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	4.3 Intact

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/25/2006	19:30	FedEx Tracking Numbers: 7910 6296 8893 and 7910 6296 8908	7/25/2006	19:30
Printed Name and Signature:			Printed Name and Signature: Andy Berto	7/26/06	900

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Form CCI001, Rev 02/00

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607211 COC ID(s): 346570-003

Client CH2M H.11 Project NAVSTA Mayport

Sample Custodian Andy Bach. Today's Date 7-26-06

Date/Time Samples Received 7-26 500
Airbill Number Fx
Cooler Opened: Date 7-26

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-25

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 4.3

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0726	89	54					0
02	FW1BLK0726LC	103	70					0
03	51EQB3W06072	103	79					0
04	51EQB4W06072	112	97					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= Ortho-Terphenyl	(30-140)	0.050
S2	= Nonatriacontane	(20-150)	0.30

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column(1): ZB-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0726	123	122					0
02	FS1BLK0726LC	102	75					0
03	51CFM09S0607	76	72					0
04	51CFM10S0607	119	130					0
05	51CFM11S0607	57	104					0
06	51CFM12S0607	112	196*					1
07	51CFM13S0607	83	92					0
08	51CFM14S0607	95	82					0
09	51CFM15S0607	82	75					0
10	51CFM16S0607	92	112					0
11	51CFM17S0607	85	84					0
12	51CFM09S0607	94	80					0
13	51CFM09S0607	107	69					0
14	51CFM11S0607	72D	85D					0
15	51CFM15S0607	73D	55D					0
16	51DUP1S06072	100	74					0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	2.0
S2	= Nonatriacontane	(40-150)	12

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FW1BLK0726

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.0000	3.940	123*	55-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FS1BLK0726

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	128.0	5.345	135.7	102	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: 51CFM09S060725 Lab Sample ID: 0607211-03

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Petroleum Range	132.1	101.1	303.2	153*	50-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	132.1	269.4	127	12	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 1 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix Spike - Client Sample No.: FS1BLK0726

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
>C8-C10	6.400	0.0000	3.424	54	50-140
>C10-C12	6.400	0.0000	5.944	93	50-140
>C12-C16	12.80	0.9931	13.95	101	50-140
>C16-C22	38.40	0.0000	50.13	130	50-140
>C22-C36	44.80	4.342	48.49	98	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FW1BLK0726 Lab File ID: 029R0101

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/27/06 Date Analyzed (2):

Time Analyzed (1): 1044 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0726LC	FW1BLK0726LCS	07/27/06	
02	51EQB3W06072	0607211-01	07/27/06	
03	51EQB4W06072	0607211-02	07/27/06	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FS1BLK0726 Lab File ID: 013R0101

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/26/06 Date Analyzed (2):

Time Analyzed (1): 2212 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0726LC	FS1BLK0726LCS	07/26/06	
02	51CFM09S0607	0607211-03	07/26/06	
03	51CFM10S0607	0607211-04	07/27/06	
04	51CFM11S0607	0607211-05	07/27/06	
05	51CFM12S0607	0607211-06	07/27/06	
06	51CFM13S0607	0607211-07	07/27/06	
07	51CFM14S0607	0607211-08	07/27/06	
08	51CFM15S0607	0607211-09	07/27/06	
09	51CFM16S0607	0607211-10	07/27/06	
10	51CFM17S0607	0607211-11	07/27/06	
11	51CFM09S0607	0607211-03MS	07/27/06	
12	51CFM09S0607	0607211-03MSD	07/27/06	
13	51CFM11S0607	0607211-05DL	07/27/06	
14	51CFM15S0607	0607211-09DL	07/27/06	
15	51DUP1S06072	0607211-12	07/27/06	
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Lab Sample ID: FS1BLK0726 Lab File ID: 013R0101

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted:07/26/06

Date Analyzed (1): 07/26/06 Date Analyzed (2):

Time Analyzed (1): 2212 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

Column (1): ZB-5 ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0726LC	FS1BLK0726LCS	07/26/06	
02	51CFM11S0607	0607211-05	07/27/06	
03	51CFM15S0607	0607211-09	07/27/06	
04	51CFM11S0607	0607211-05DL	07/27/06	
05	51CFM15S0607	0607211-09DL	07/27/06	
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB3W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-01

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: 032R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.061	0.17		U

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J.H. 7.28.06

AMb072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\032R0101.D
Lab Smp Id: 0607211-01 Client Smp ID: 51EQB3W060725
Inj Date : 27-JUL-2006 13:04
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-01
Misc Info : CH2.F07211;980;2;072606FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	980.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

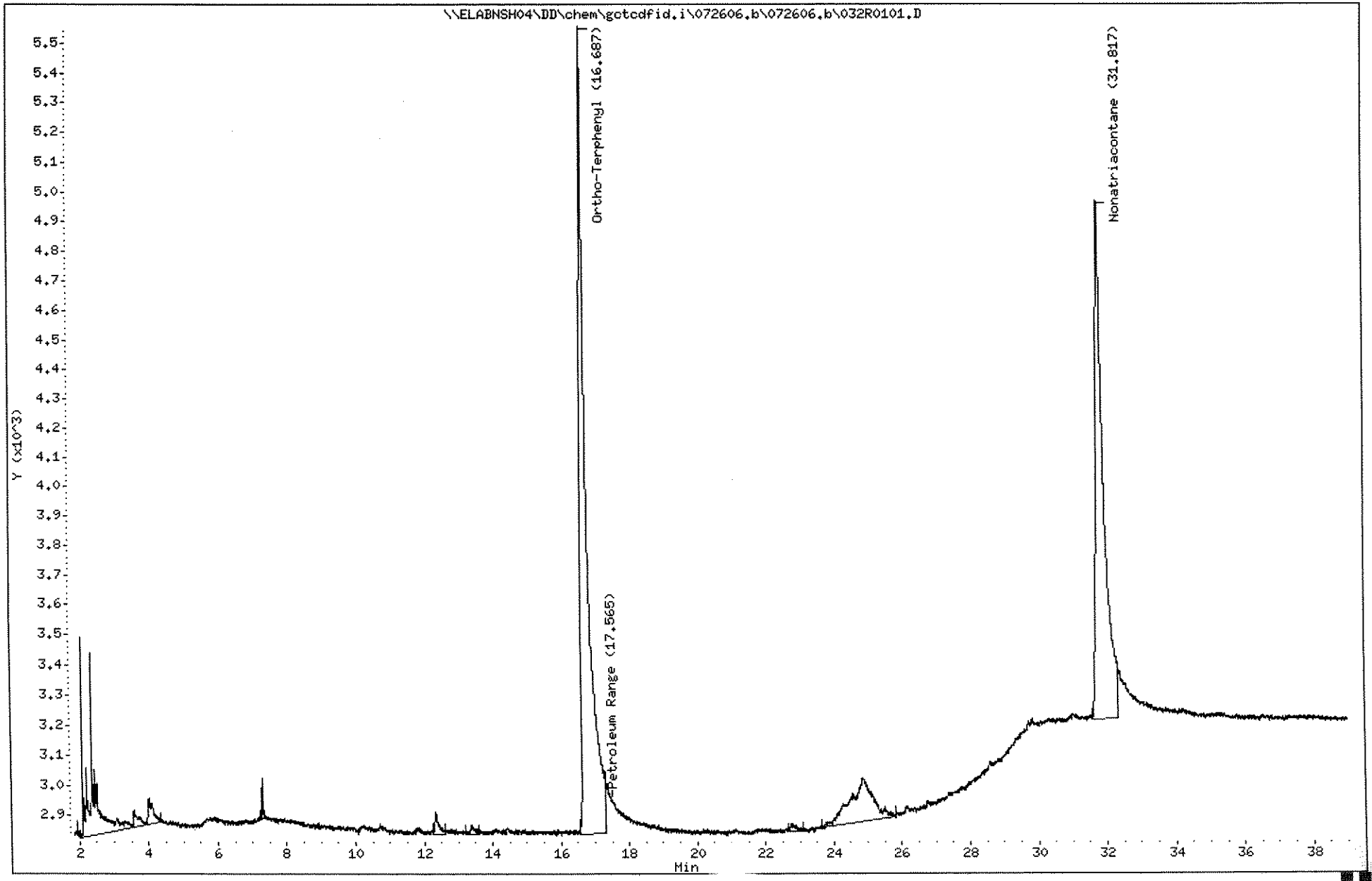
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 Ortho-Terphenyl	16.686	16.660	0.026	34534	25.7191	0.05249
$ 23 Nonatriacontane	31.816	31.796	0.020	27753	118.113	0.2410

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\032R0101.D
Date : 27-JUL-2006 13:04
Client ID: 51EQB3W060725
Sample Info: 0607211-01
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000018



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51EQB4W060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: 0607211-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 033R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/25/06 17:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 13:50

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17		U

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Data File: 033R0101.D
Report Date: 28-Jul-2006 09:20

J.A. 7-28-06

AWL072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\033R0101.D
Lab Smp Id: 0607211-02 Client Smp ID: 51EQB4W060725
Inj Date : 27-JUL-2006 13:50
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-02
Misc Info : CH2.F07211;1000;2;072606FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 Ortho-Terphenyl	16.680	16.660	0.020	37447	27.8885	0.05578
$ 23 Nonatriacontane	31.803	31.796	0.007	34134	145.270	0.2905

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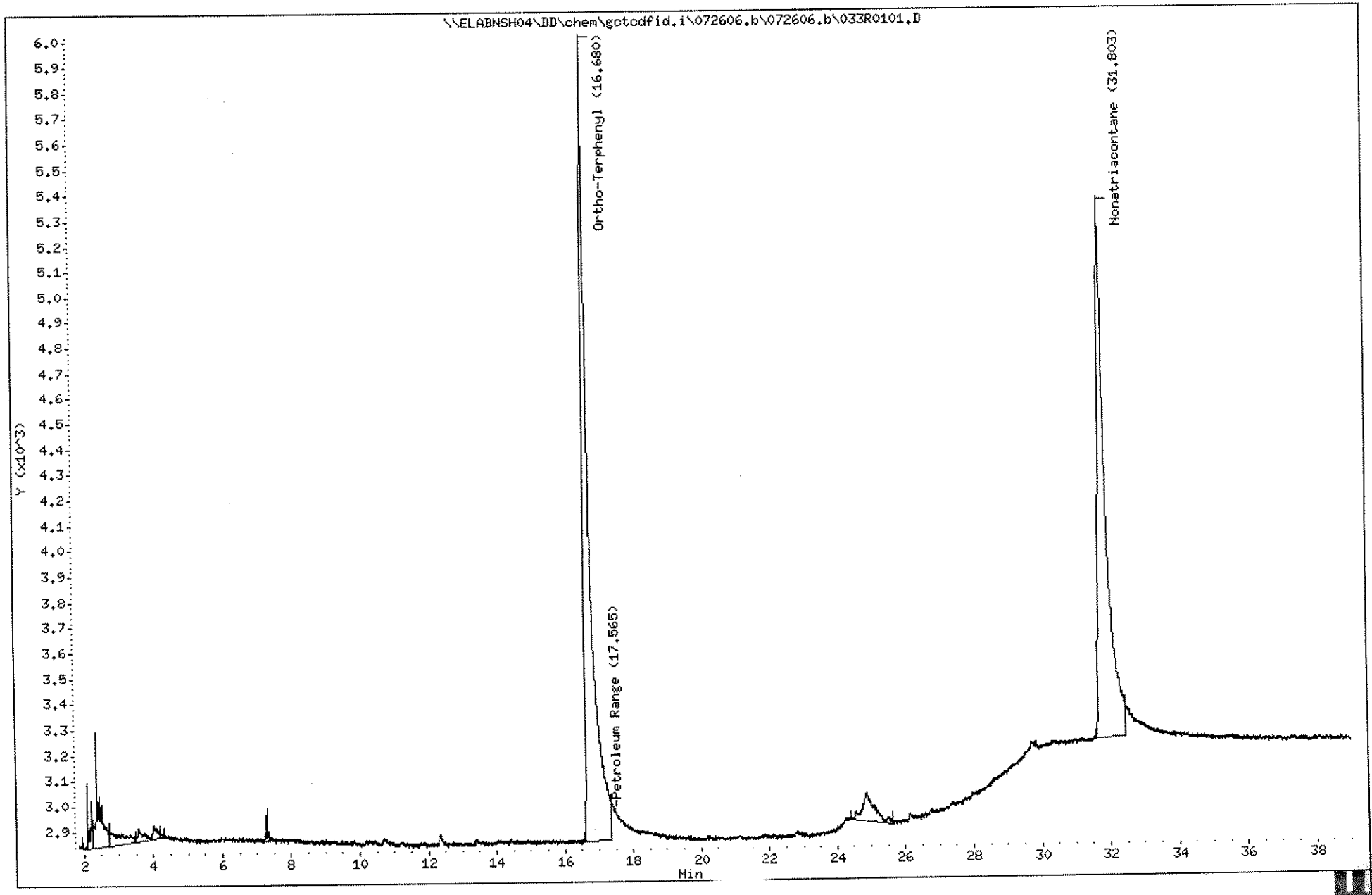
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\033R0101.D
Date : 27-JUL-2006 13:50
Client ID: 51EQB4W060725
Sample Info: 0607211-02
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

0000021



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 015R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 23:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	100	

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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\015R0101.D
Lab Smp Id: 0607211-03 Client Smp ID: 51CFM09S060725
Inj Date : 26-JUL-2006 23:45
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-03
Misc Info : CH2.F07211;25.6;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.600	Sample Amount
Vi	1.000	Injection Volume
Solids	95.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			948950	1229.82	101.1(M)
$ 2 Ortho-Terphenyl	16.646	16.660	-0.014	25593	19.0603	1.567(M)
$ 23 Nonatriacontane	31.740	31.796	-0.056	25391	108.061	8.886(M)

QC Flag Legend

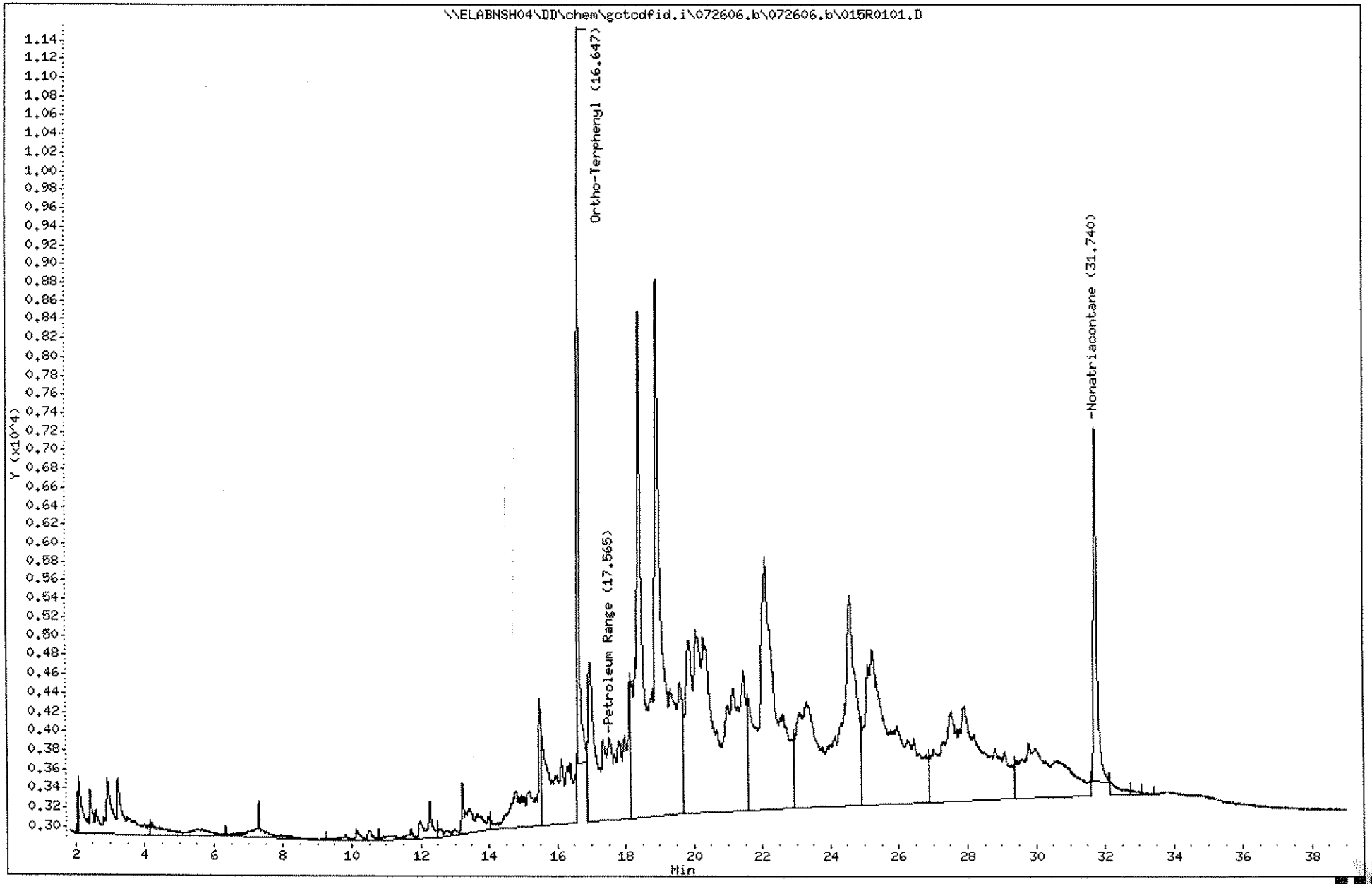
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\015R0101.D
Date : 26-JUL-2006 23:45
Client ID: 51CFM09S060725
Sample Info: 0607211-03
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000024



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM10S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-04

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 016R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 16:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 00:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	23	B

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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\016R0101.D
Lab Smp Id: 0607211-04 Client Smp ID: 51CFM10S060725
Inj Date : 27-JUL-2006 00:32
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-04
Misc Info : CH2.F07211;25.4;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.400	Sample Amount
Vi	1.000	Injection Volume
Solids	92.400	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			206794	268.000	22.84(M) B
$ 2 Ortho-Terphenyl	16.666	16.660	0.006	40037	29.8174	2.541(M)
$ 23 Nonatriacontane	31.783	31.796	-0.013	45663	194.335	16.56(M)

QC Flag Legend

M - Compound response manually integrated.

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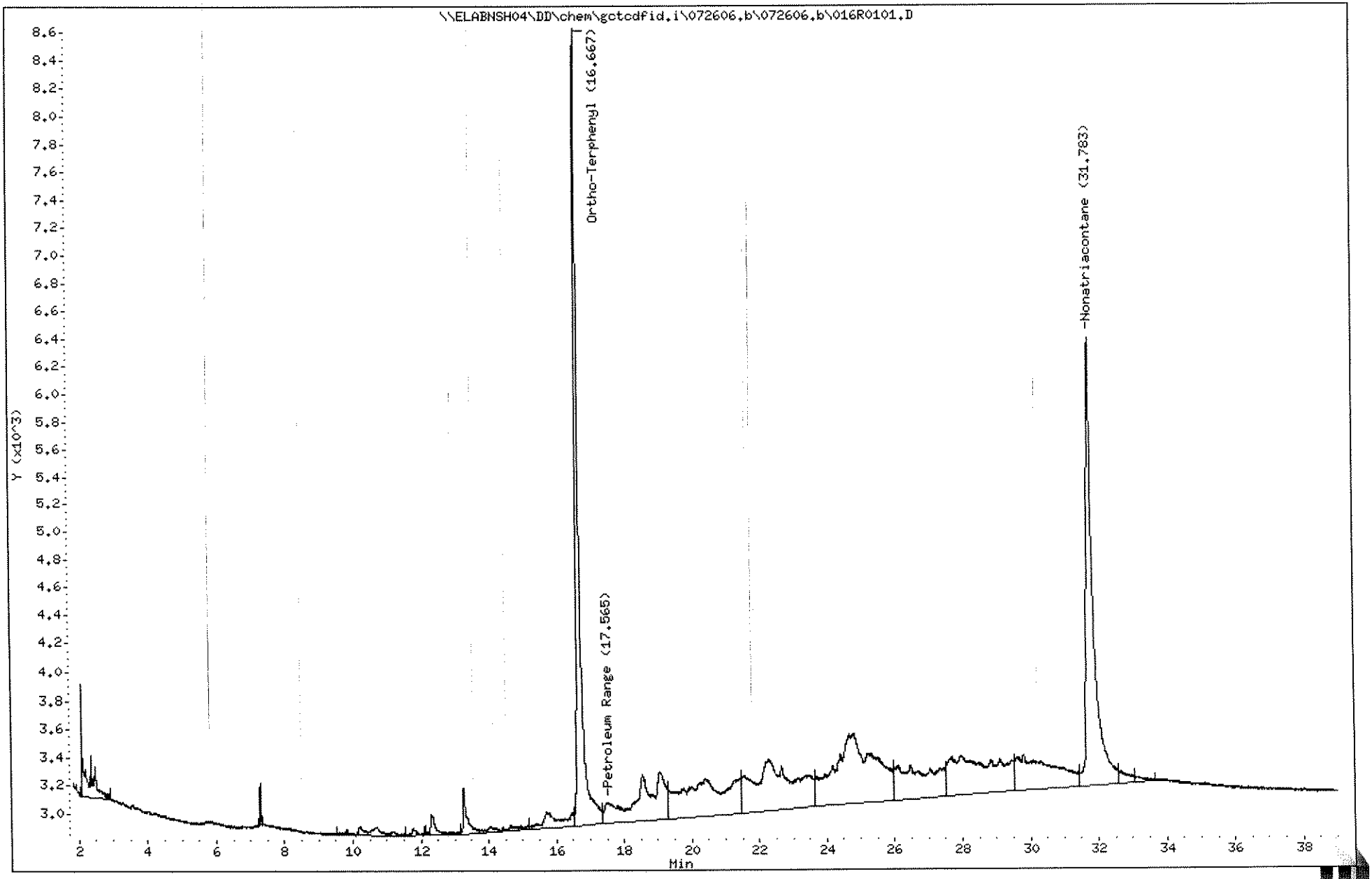
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\016R0101.D
Date : 27-JUL-2006 00:32
Client ID: 51CFM10S060725
Sample Info: 0607211-04
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	590	

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Amls 072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\017R0101.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 27-JUL-2006 01:19
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-05
Misc Info : CH2.F07211;25.2;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	94.600	Percent Solids

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S	1 Petroleum Range	2.069-33.060			5409670	7010.81	588.2 (M)
$	2 Ortho-Terphenyl	16.650	16.660	-0.010	19052	14.1889	1.190 (M)
$	23 Nonatriacontane	31.836	31.796	0.040	36508	155.373	13.04 (M)

QC Flag Legend

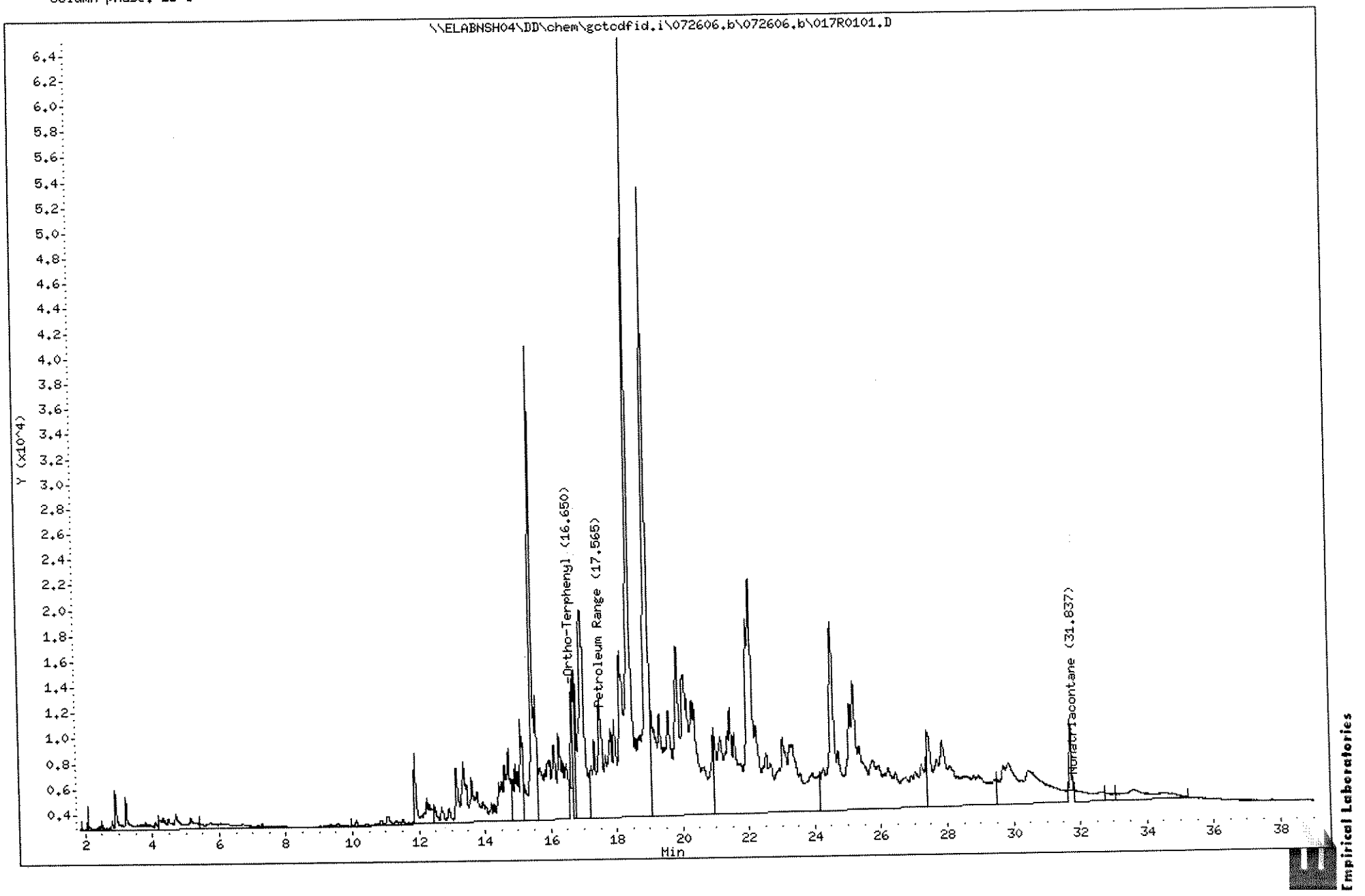
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\017R0101.D
Date : 27-JUL-2006 01:19
Client ID: 51CFM11S060725
Sample Info: 0607211-05
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000030



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	710	D

Empirical Laboratories

Data File: 034R0101.D
Report Date: 28-Jul-2006 09:20

J.H. 7.28.06

Amb072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\034R0101.D
Lab Smp Id: 0607211-05dl Client Smp ID: 51CFM11S060725dl
Inj Date : 27-JUL-2006 14:37
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-05dl
Misc Info : CH2.F07211;25.2;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 34
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	94.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 1 Petroleum Range	2.069-33.060			1303758	1689.64	708.8(M)
$ 2 Ortho-Terphenyl	16.650	16.660	-0.010	4826	3.59414	1.508(M)
$ 23 Nonatriacontane	31.746	31.796	-0.050	5981	25.4543	10.68(M)

QC Flag Legend

M - Compound response manually integrated.

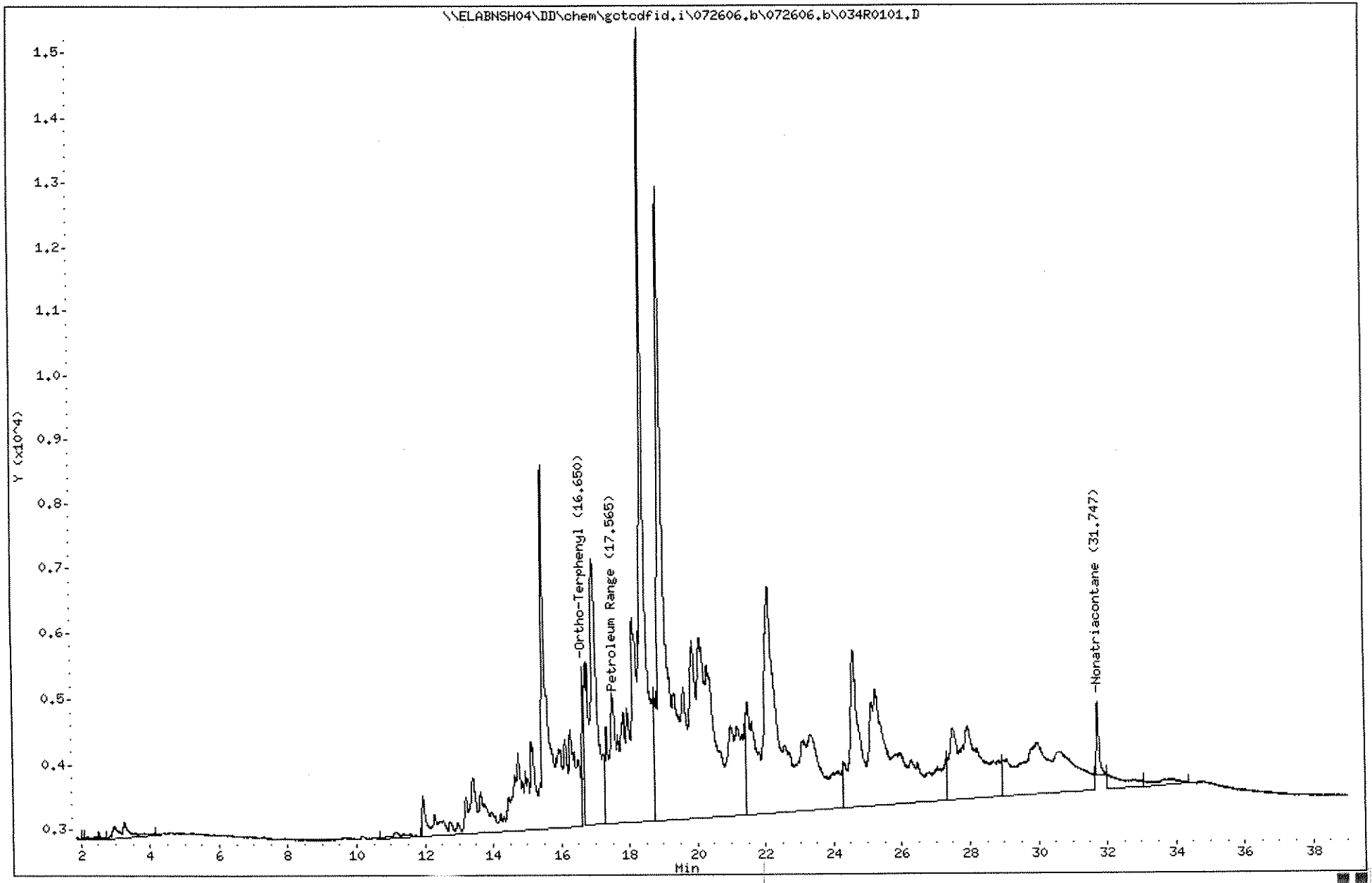
Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\034R0101.D
Date : 27-JUL-2006 14:37
Client ID: 51CFM11S060725dl
Sample Info: 0607211-05dl
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

CME 4/26/06 072606

000033



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 017R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 01:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.17	4.2	3.8	J
	>C10-C12	0.17	0.42	2.8	
	>C12-C16	0.34	0.84	11	
	>C16-C22	0.50	1.2	230	E
	>C22-C36	1.2	29	510	E

J.H. 7.28.06
AMLS072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\017R0101.D
Lab Smp Id: 0607211-05 Client Smp ID: 51CFM11S060725
Inj Date : 27-JUL-2006 01:19
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-05
Misc Info : CH2.F07211;25.2;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:09 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	94.600	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	16.650	16.660	-0.010	19052	14.1889	1.190 (M)
S 27 >C8-C10	2.156-4.924			75570	45.1383	3.787 (M)
S 28 >C10-C12	4.924-8.060			48554	32.9897	2.768 (M)
S 29 >C12-C16	8.060-13.512			163218	128.046	10.74 (M)
S 30 >C16-C22	13.512-19.816			2412672	2710.13	227.4 (M)
S 31 >C22-C36	19.816-29.892			2497855	6134.34	514.6 (M)
$ 23 Nonatriacontane	31.836	31.796	0.040	36508	155.373	13.04 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\017R0101.D
Date : 27-JUL-2006 01:19
Client ID: 51CFM11S060725
Sample Info: 0607211-05
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

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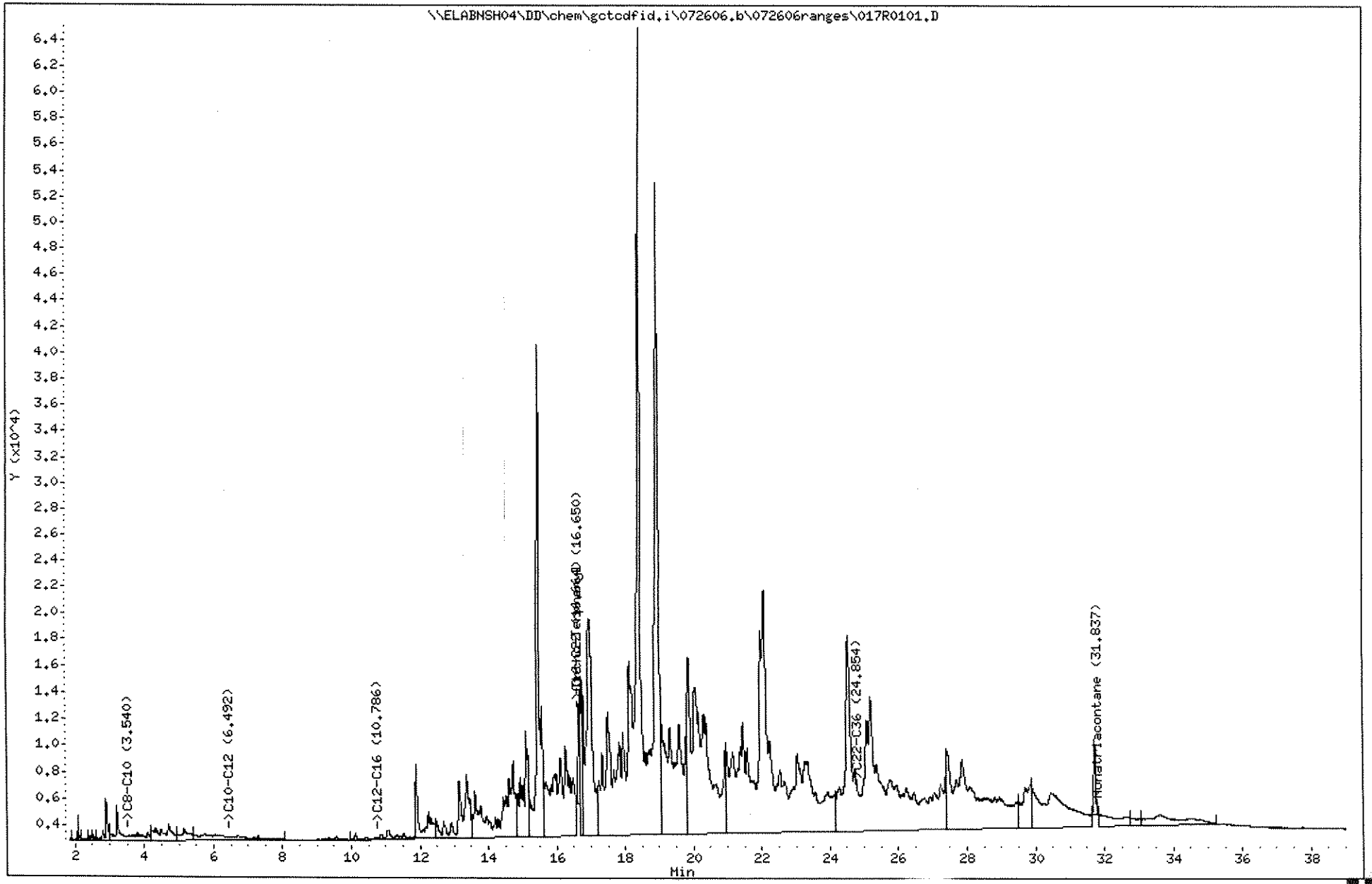

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM11S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-05DL

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 034R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 14:37

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.84	21	1.7	JD
	>C10-C12	0.84	2.1		UD
	>C12-C16	1.7	4.2	9.4	D
	>C16-C22	2.5	6.3	290	D
	>C22-C36	5.9	150	610	D

J.H. 7.28.06
Anls 072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\034R0101.D
Lab Smp Id: 0607211-05dl Client Smp ID: 51CFM11S060725dl
Inj Date : 27-JUL-2006 14:37
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-05dl
Misc Info : CH2.F07211;25.2;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 28-Jul-2006 09:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 34
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	94.600	Percent Solids

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/Kg)
$ 2 Ortho-Terphenyl	16.650	16.660	-0.010	4826	3.59414	1.508 (M)
S 27 >C8-C10	2.156-4.924			6919	4.13275	1.734 (M)
S 29 >C12-C16	8.060-13.512			28483	22.3451	9.373 (M)
S 30 >C16-C22	13.512-19.816			618230	694.451	291.3 (M)
S 31 >C22-C36	19.816-29.892			591644	1452.99	609.5 (M)
$ 23 Nonatriacontane	31.746	31.796	-0.050	5981	25.4543	10.68 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\034R0101.D
Date : 27-JUL-2006 14:37
Client ID: 51CFM11S060725dl
Sample Info: 0607211-05dl
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

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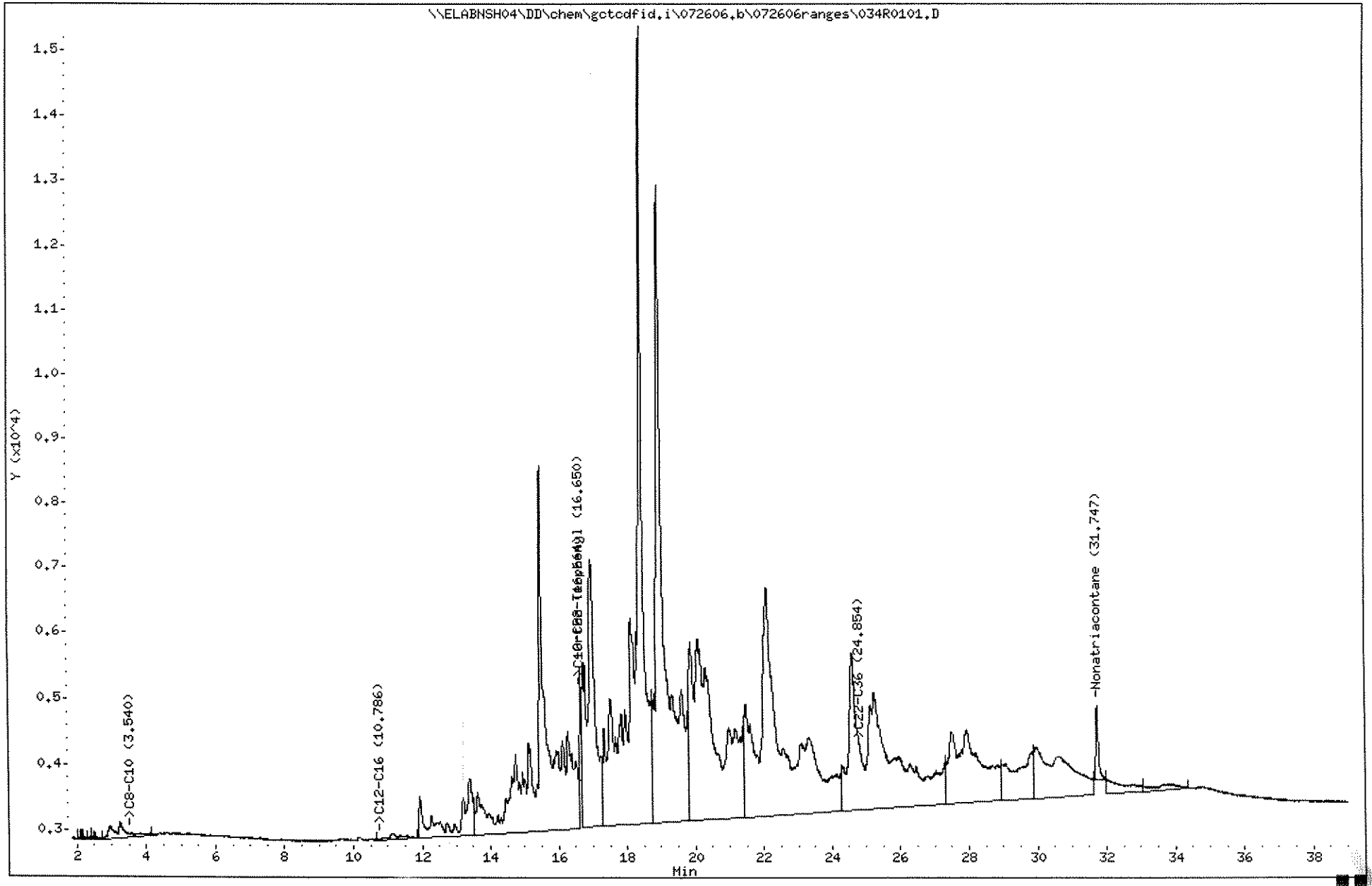

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM12S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-06

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 018R0101

% Moisture: 7 decanted: (Y/N) N Date Sampled: 07/25/06 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.2	13	B

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D.H. 7.28.06

Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\018R0101.D
Lab Smp Id: 0607211-06 Client Smp ID: 51CFM12S060725
Inj Date : 27-JUL-2006 02:06
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-06
Misc Info : CH2.F07211;25.2;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.200	Sample Amount
Vi	1.000	Injection Volume
Solids	93.400	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			114885	148.888	12.65 (M)
$ 2 Ortho-Terphenyl	16.676	16.660	0.016	37763	28.1238	2.390 (M)
$ 23 Nonatriacontane	31.756	31.796	-0.040	68874	293.118	24.91 (RM)

QC Flag Legend

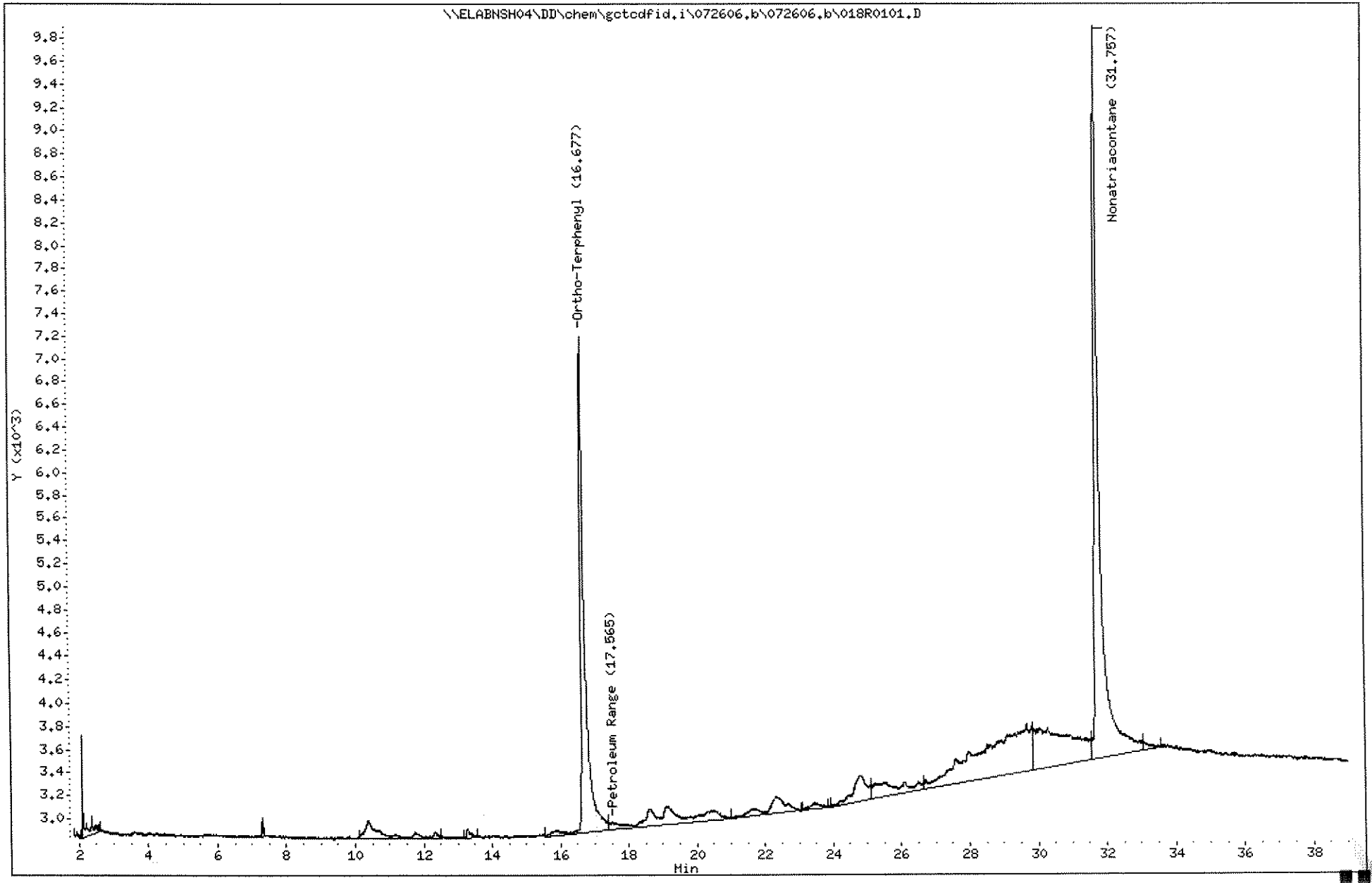
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\018R0101.D
Date : 27-JUL-2006 02:06
Client ID: 51CFM12S060725
Sample Info: 0607211-06
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000042



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM13S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-07

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 019R0101

% Moisture: 12 decanted: (Y/N) N Date Sampled: 07/25/06 16:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 02:53

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	26	B

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J.H. 7.28.06
Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\019R0101.D
Lab Smp Id: 0607211-07 Client Smp ID: 51CFM13S060725
Inj Date : 27-JUL-2006 02:53
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-07
Misc Info : CH2.F07211;25.3;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.300	Sample Amount
Vi	1.000	Injection Volume
Solids	87.900	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			227364	294.658	26.50 (M)
$ 2 Ortho-Terphenyl	16.663	16.660	0.003	27955	20.8194	1.872 (M)
$ 23 Nonatriacontane	31.770	31.796	-0.026	32503	138.328	12.44 (M)

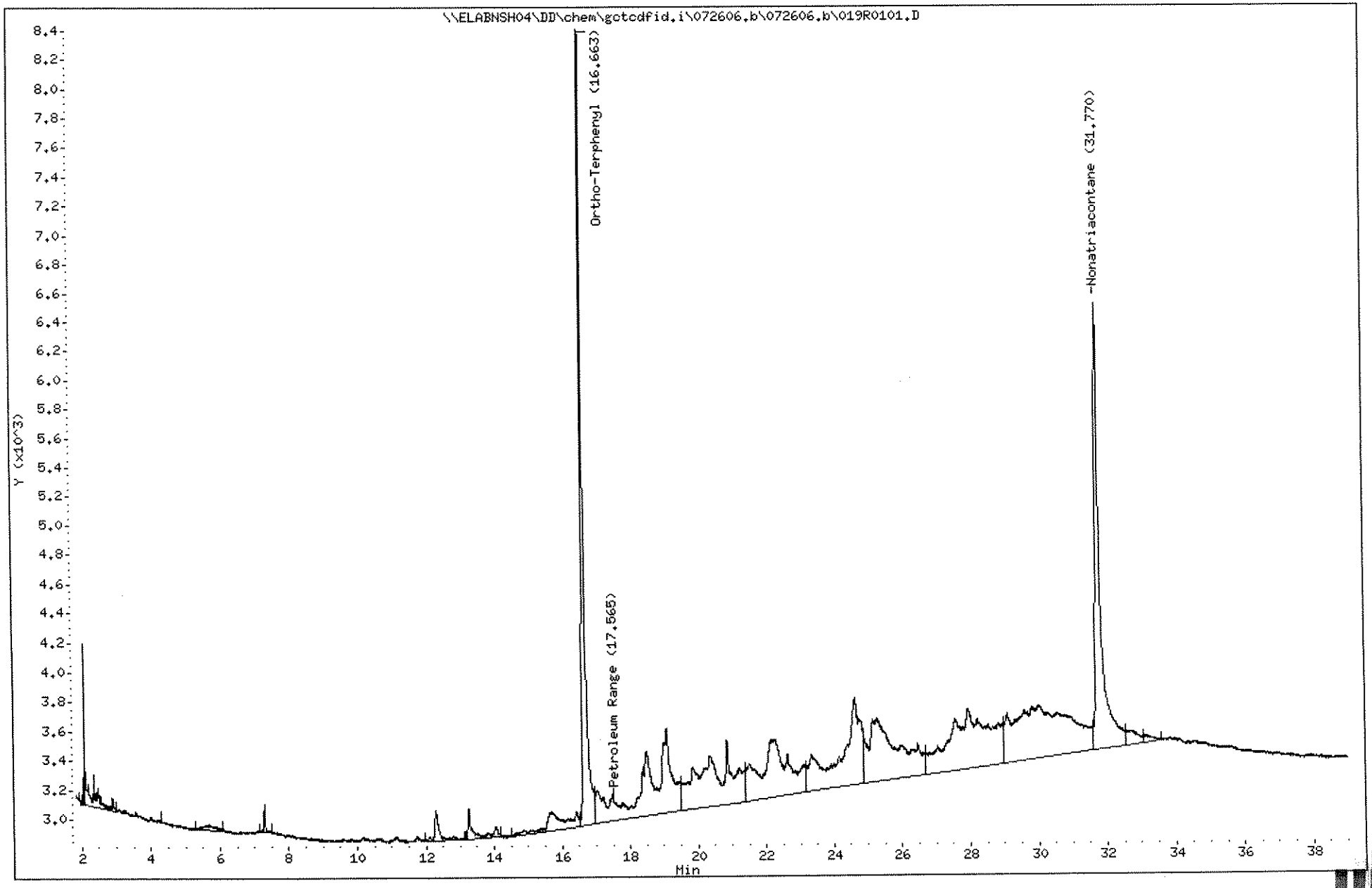
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\019R0101.D
Date : 27-JUL-2006 02:53
Client ID: 51CFM13S060725
Sample Info: 0607211-07
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM14S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-08

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 020R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 03:41

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.2	100	

Empirical Laboratories

Data File: 020R0101.D
Report Date: 27-Jul-2006 13:09

J.H. 7.28.06
Am072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\020R0101.D
Lab Smp Id: 0607211-08 Client Smp ID: 51CFM14S060725
Inj Date : 27-JUL-2006 03:41
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-08
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	93.700	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			945126	1224.86	104.6 (M)
$ 2 Ortho-Terphenyl	16.656	16.660	-0.004	31752	23.6472	2.019 (M)
$ 23 Nonatriacontane	31.746	31.796	-0.050	28801	122.573	10.46 (M)

QC Flag Legend

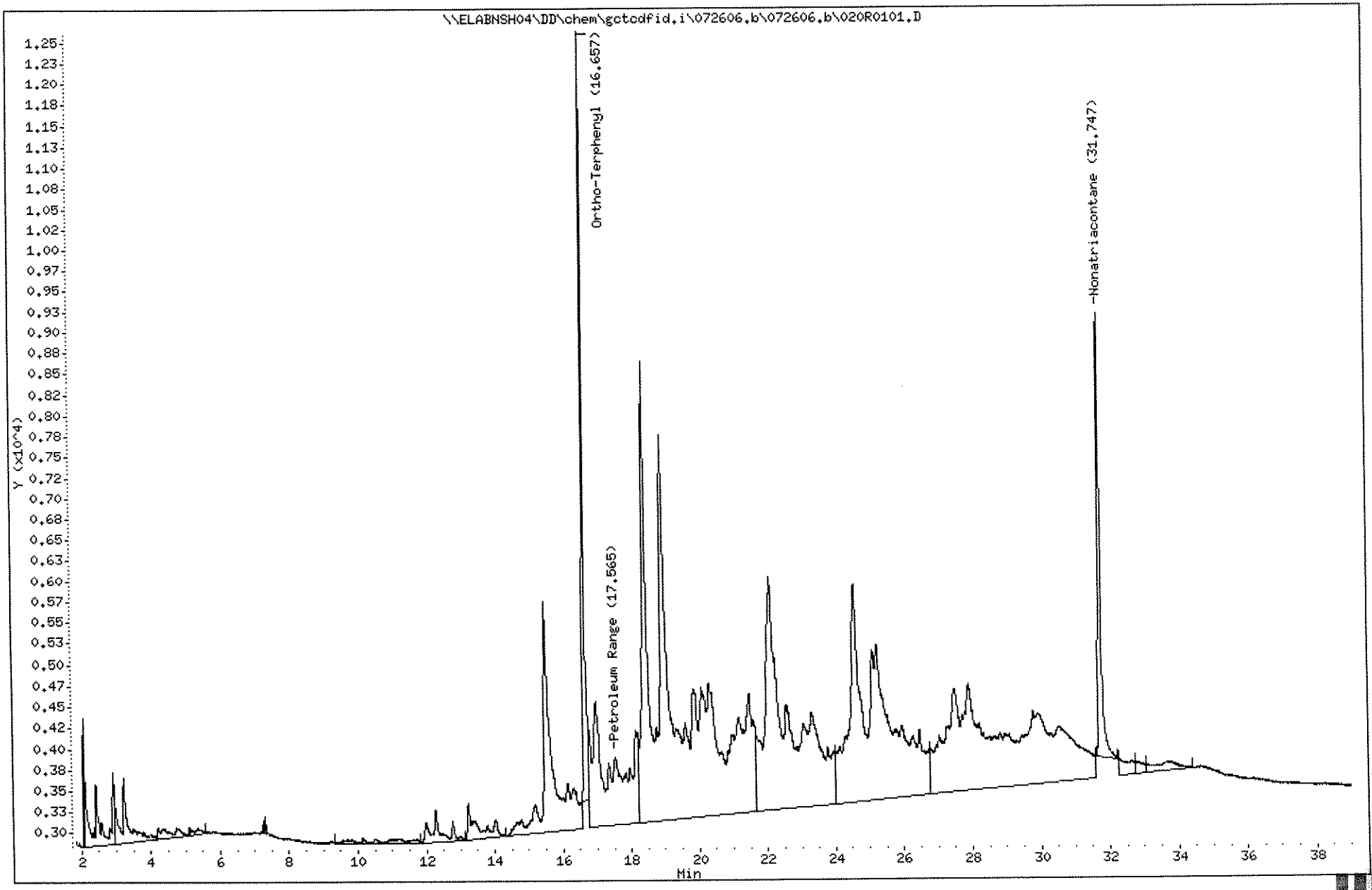
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\020R0101.D
Date : 27-JUL-2006 03:41
Client ID: 51CFM14S060725
Sample Info: 0607211-08
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000048



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.7	7.6	850	E

Data File: 021R0101.D
Report Date: 27-Jul-2006 13:09

J.H. 7-28-06
Am072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\021R0101.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 27-JUL-2006 04:28
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-09
Misc Info : CH2.F07211;25.1;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	89.100	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			7368556	9549.48	854.0 (M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	27560	20.5252	1.836 (M)
$ 23 Nonatriacontane	31.743	31.796	-0.053	26326	112.040	10.02 (M)

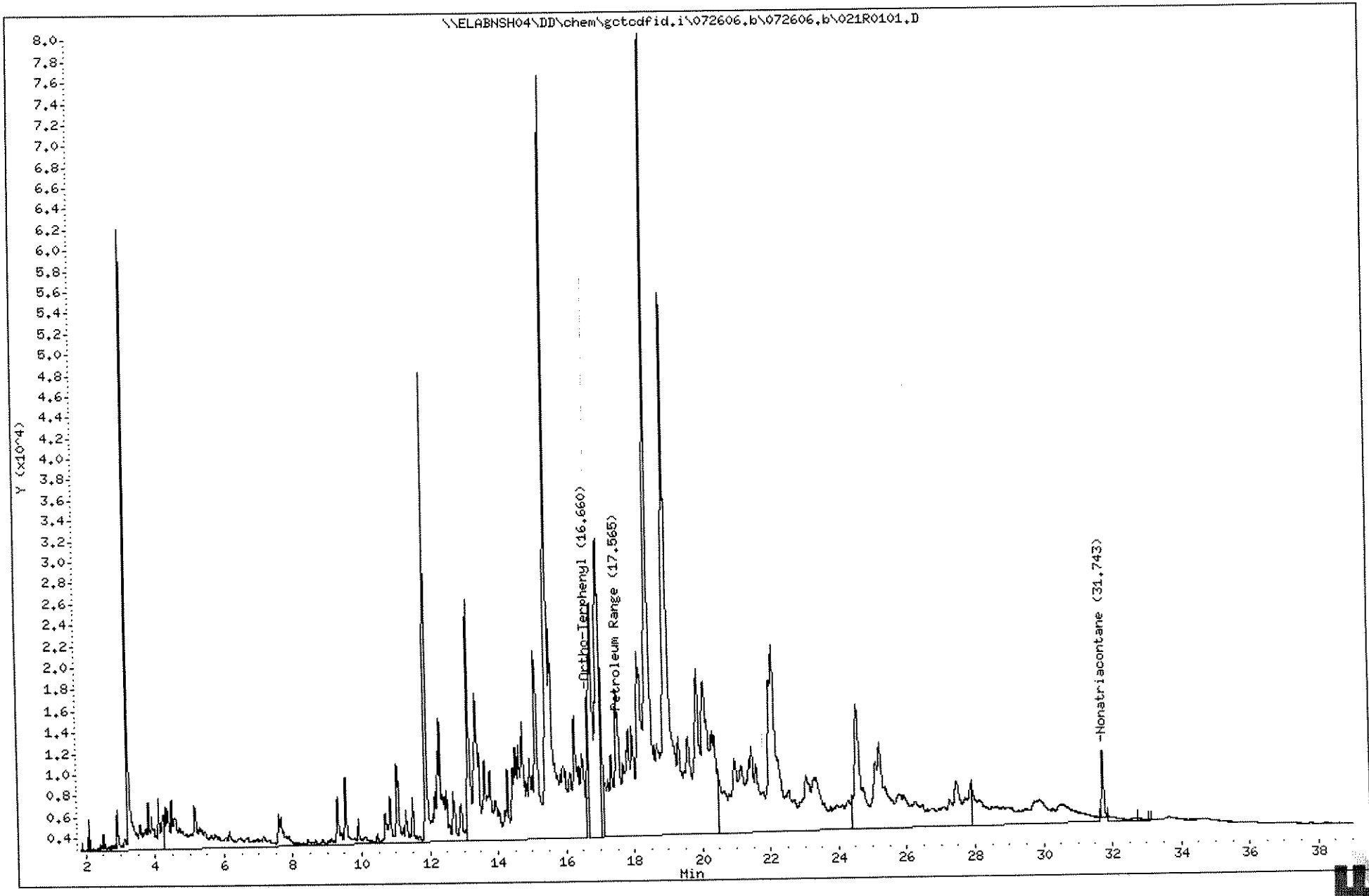
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\021R0101.D
Date : 27-JUL-2006 04:28
Client ID: 51CFM15S060725
Sample Info: 0607211-09
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	27	76	830	D

Empirical Laboratories

Data File: 035R0101.D
Report Date: 28-Jul-2006 09:20

J.H. 7.28.06
Amds 072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\035R0101.D
Lab Smp Id: 0607211-09dl Client Smp ID: 51CFM15S060725dl
Inj Date : 27-JUL-2006 15:24
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-09dl
Misc Info : CH2.F07211;25.1;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 35
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	89.100	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 1 Petroleum Range	2.069-33.060			714884	926.473	828.5(M)
$ 2 Ortho-Terphenyl	16.656	16.660	-0.004	2453	1.82686	1.634(M)
$ 23 Nonatriacontane	31.770	31.796	-0.026	1927	8.20105	7.334(M)

QC Flag Legend

M - Compound response manually integrated.

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\035R0101.D
Date : 27-JUL-2006 15:24
Client ID: 51CFM15S060725dl
Sample Info: 0607211-09dl
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

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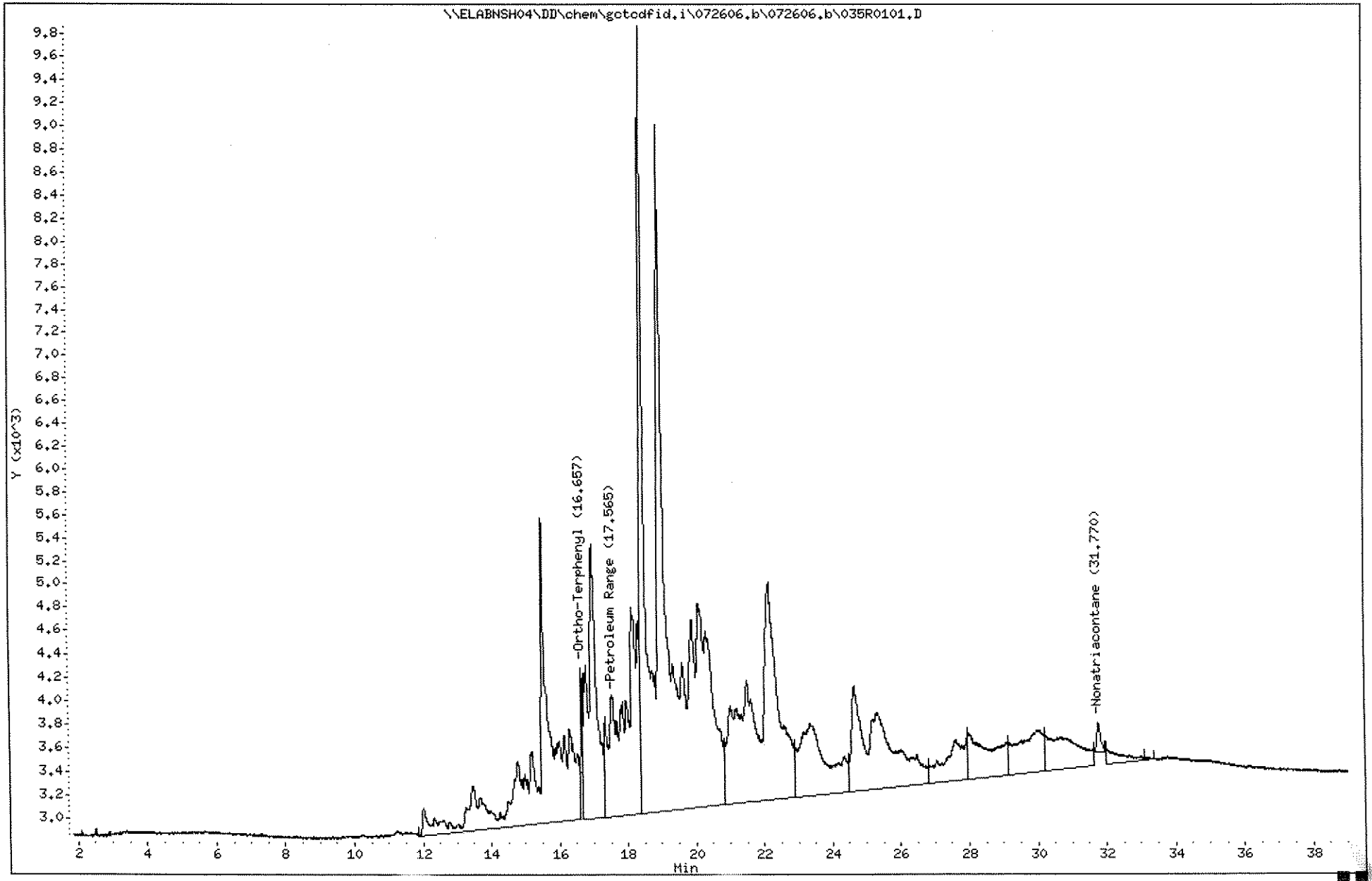

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 04:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	>C8-C10	0.18	4.5	19	
	>C10-C12	0.18	0.45	11	
	>C12-C16	0.36	0.89	54	
	>C16-C22	0.54	1.3	360	E
	>C22-C36	1.2	31	520	E

J.H. 7-28-06
Am 072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\021R0101.D
Lab Smp Id: 0607211-09 Client Smp ID: 51CFM15S060725
Inj Date : 27-JUL-2006 04:28
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-09
Misc Info : CH2.F07211;25.1;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:09 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	89.100	Percent Solids

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$	2 Ortho-Terphenyl	16.660	16.660	0.000	27560	20.5252	1.836 (M)
	27 >C8-C10	2.156-4.924			361986	216.216	19.34 (M)
S	28 >C10-C12	4.924-8.060			184352	125.257	11.20 (M)
S	29 >C12-C16	8.060-13.512			769015	603.298	53.95 (M)
S	30 >C16-C22	13.512-19.816			3606382	4051.01	362.3 (M)
S	31 >C22-C36	19.816-29.892			2386115	5859.93	524.0 (M)
$	23 Nonatriacontane	31.743	31.796	-0.053	26326	112.040	10.02 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\021R0101.D
Date : 27-JUL-2006 04:28
Client ID: 51CFM15S060725
Sample Info: 0607211-09
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

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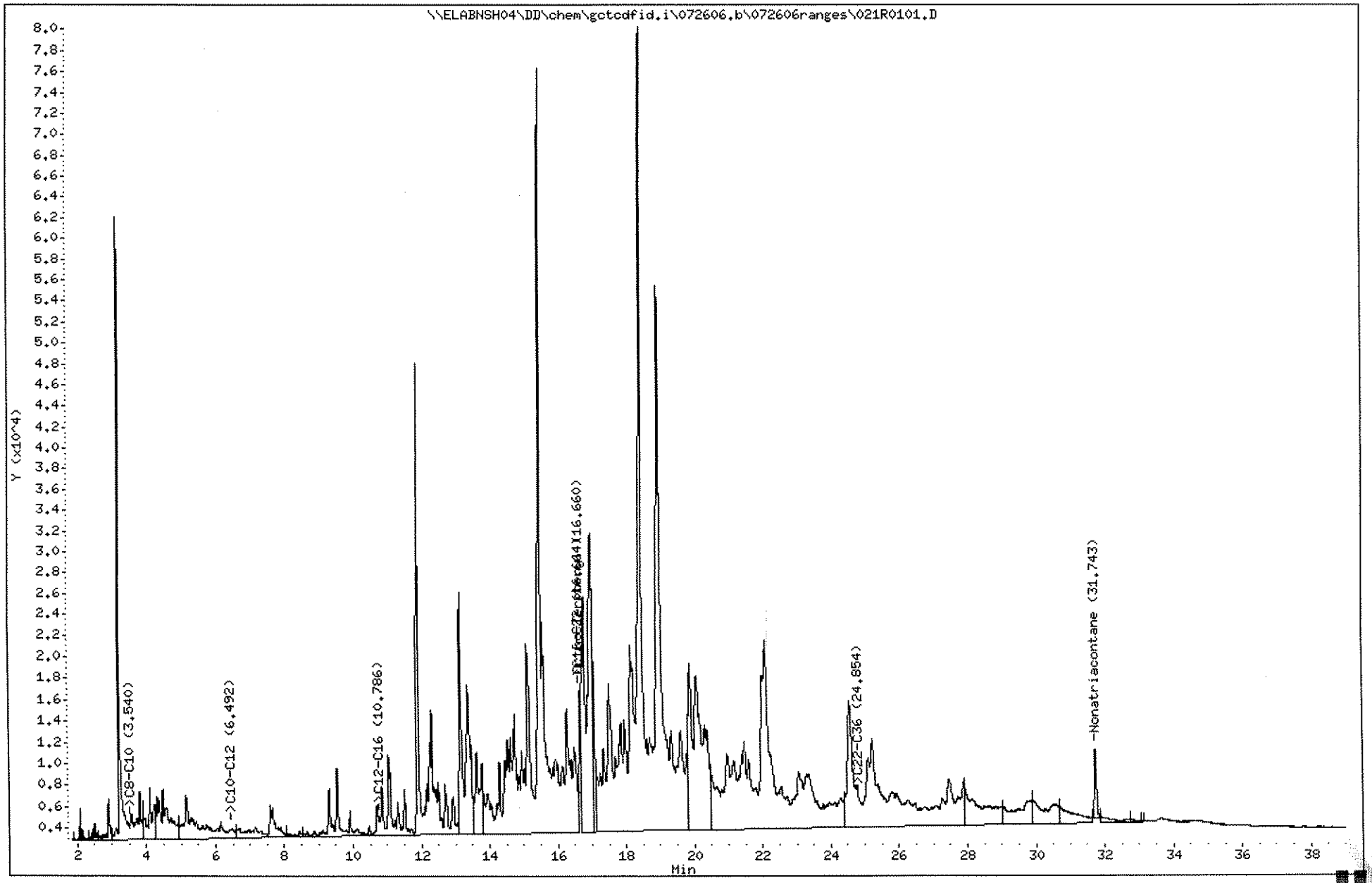

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM15S
060725DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-09DL

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 035R0101

% Moisture: 11 decanted: (Y/N) N Date Sampled: 07/25/06 17:05

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 15:24

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	>C8-C10	1.8	45		UD
	>C10-C12	1.8	4.5		UD
	>C12-C16	3.6	8.9	8.0	JD
	>C16-C22	5.4	13	360	D
	>C22-C36	12	310	680	D

JH. 7.28.06
Amls072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\035R0101.D
Lab Smp Id: 0607211-09dl Client Smp ID: 51CFM15S060725dl
Inj Date : 27-JUL-2006 15:24
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-09dl
Misc Info : CH2.F07211;25.1;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 28-Jul-2006 09:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 35
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	89.100	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 Ortho-Terphenyl	16.656	16.660	-0.004	2453	1.82686	1.634(M)
S 29 >C12-C16	8.060-13.512			11392	8.93710	7.992(M)
S 30 >C16-C22	13.512-19.816			362580	407.282	364.2(M)
S 31 >C22-C36	19.816-29.892			311736	765.575	684.6(M)
$ 23 Nonatriacontane	31.770	31.796	-0.026	1927	8.20105	7.334(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctodfid.i\072606.b\072606ranges\035R0101.D
Date : 27-JUL-2006 15:24
Client ID: 51CFM15S060725dl
Sample Info: 0607211-09dl
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctodfid.i
Operator: bfd
Column diameter: 0.32

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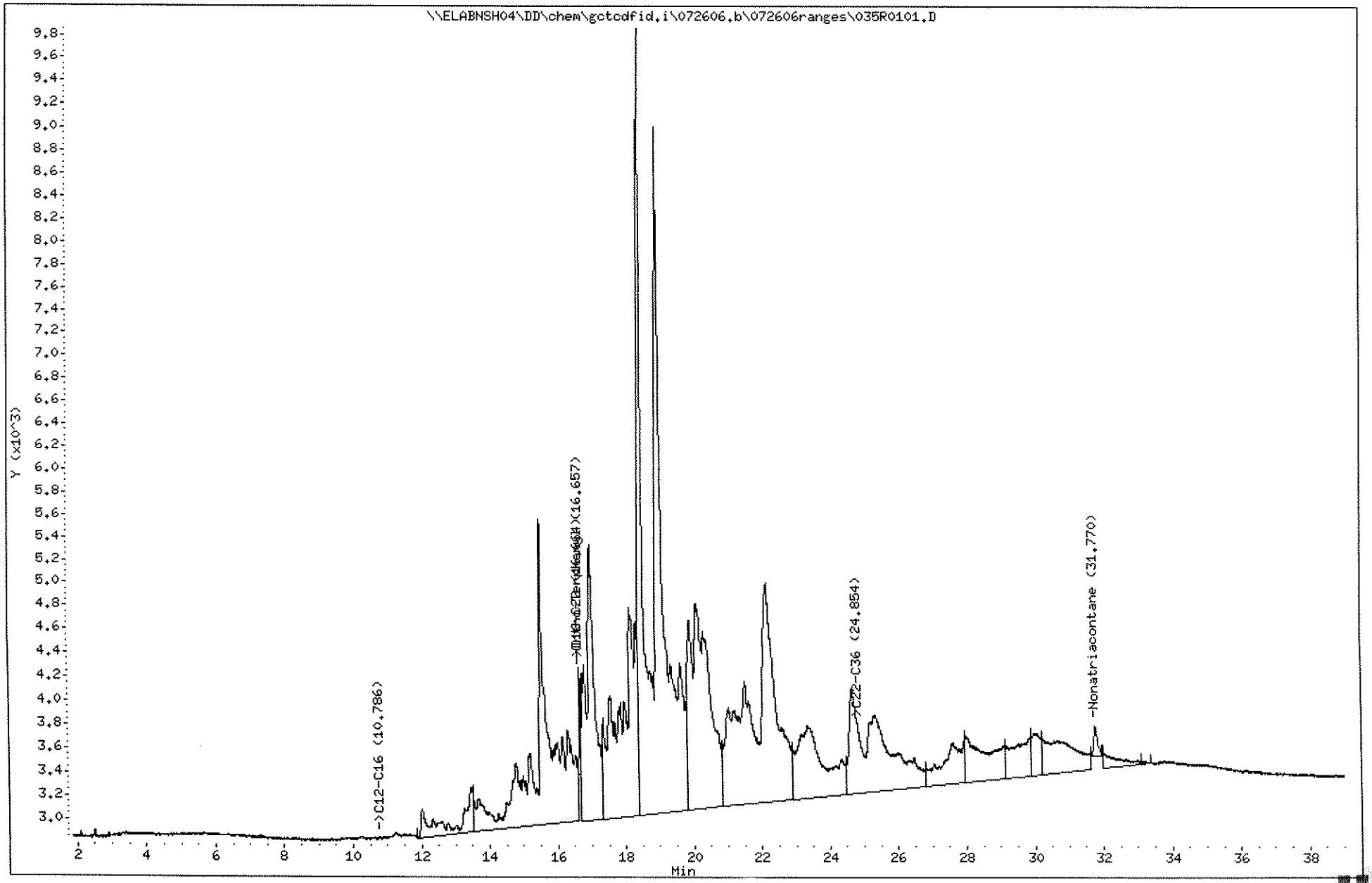

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM16S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-10

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 022R0101

% Moisture: 8 decanted: (Y/N) N Date Sampled: 07/25/06 17:15

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 05:15

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.3	27	

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JH. 7.28.06
Amb 072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\022R0101.D
Lab Smp Id: 0607211-10 Client Smp ID: 51CFM16S060725
Inj Date : 27-JUL-2006 05:15
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-10
Misc Info : CH2.F07211;25.1;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.100	Sample Amount
Vi	1.000	Injection Volume
Solids	92.200	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			243736	315.876	27.30 (M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	30809	22.9449	1.983 (M)
$ 23 Nonatriacontane	31.760	31.796	-0.036	39493	168.077	14.52 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\022R0101.D
Date : 27-JUL-2006 05:15
Client ID: 51CFM16S060725
Sample Info: 0607211-10
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

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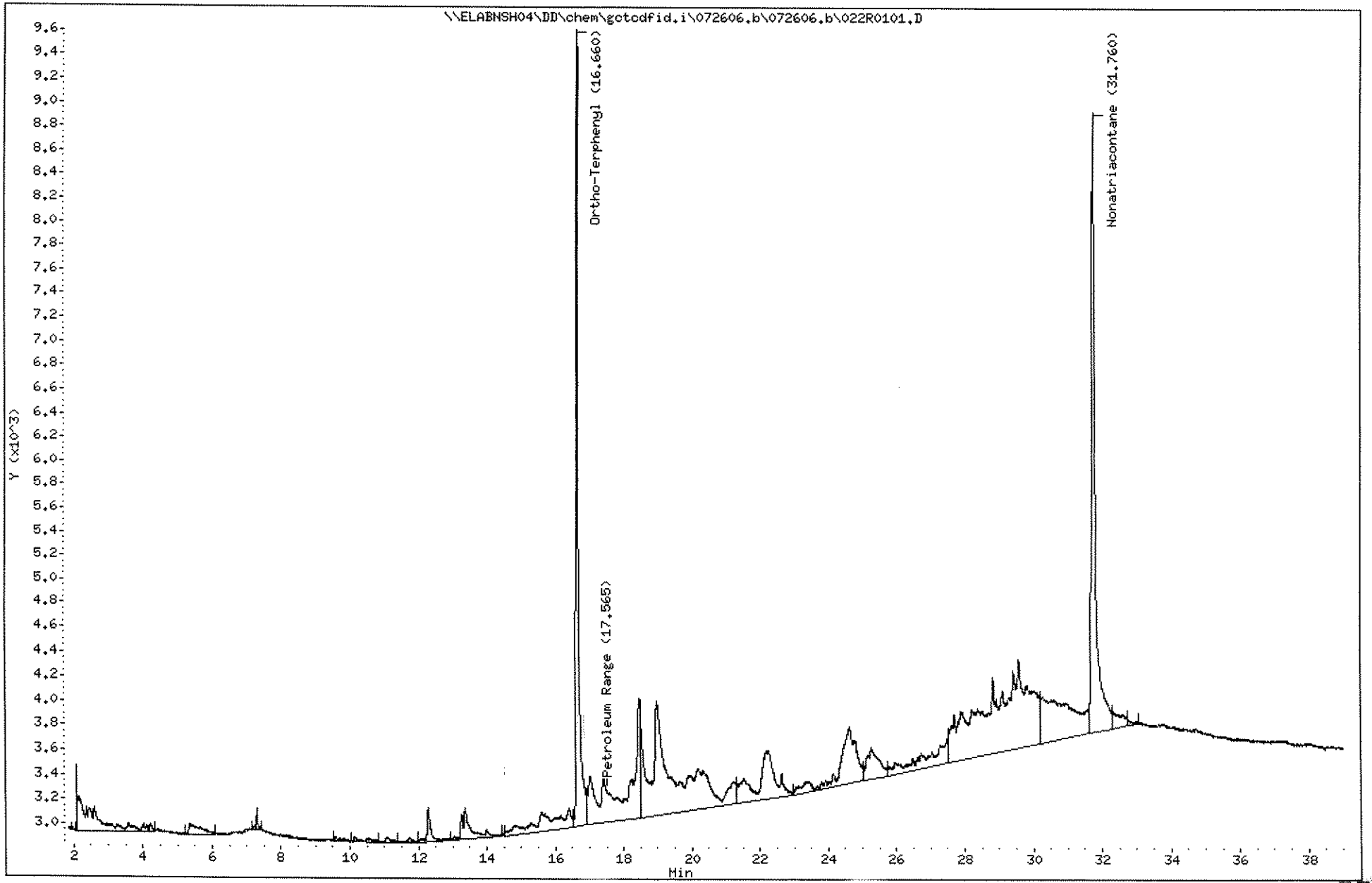

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM17S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-11

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 024R0101

% Moisture: 9 decanted: (Y/N) N Date Sampled: 07/25/06 17:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 06:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.6	7.5		U

FORM I PRO

J.H. 7-28-06
Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\024R0101.D
Lab Smp Id: 0607211-11 Client Smp ID: 51CFM17S060725
Inj Date : 27-JUL-2006 06:49
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-11
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	91.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
2 Ortho-Terphenyl	16.706	16.660	0.046	28533	21.2498	1.868
$ 23 Nonatriacontane	31.783	31.796	-0.013	29538	125.710	11.05

Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\024R0101.D
Date : 27-JUL-2006 06:49
Client ID: 51CFM17S060725
Sample Info: 0607211-11
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

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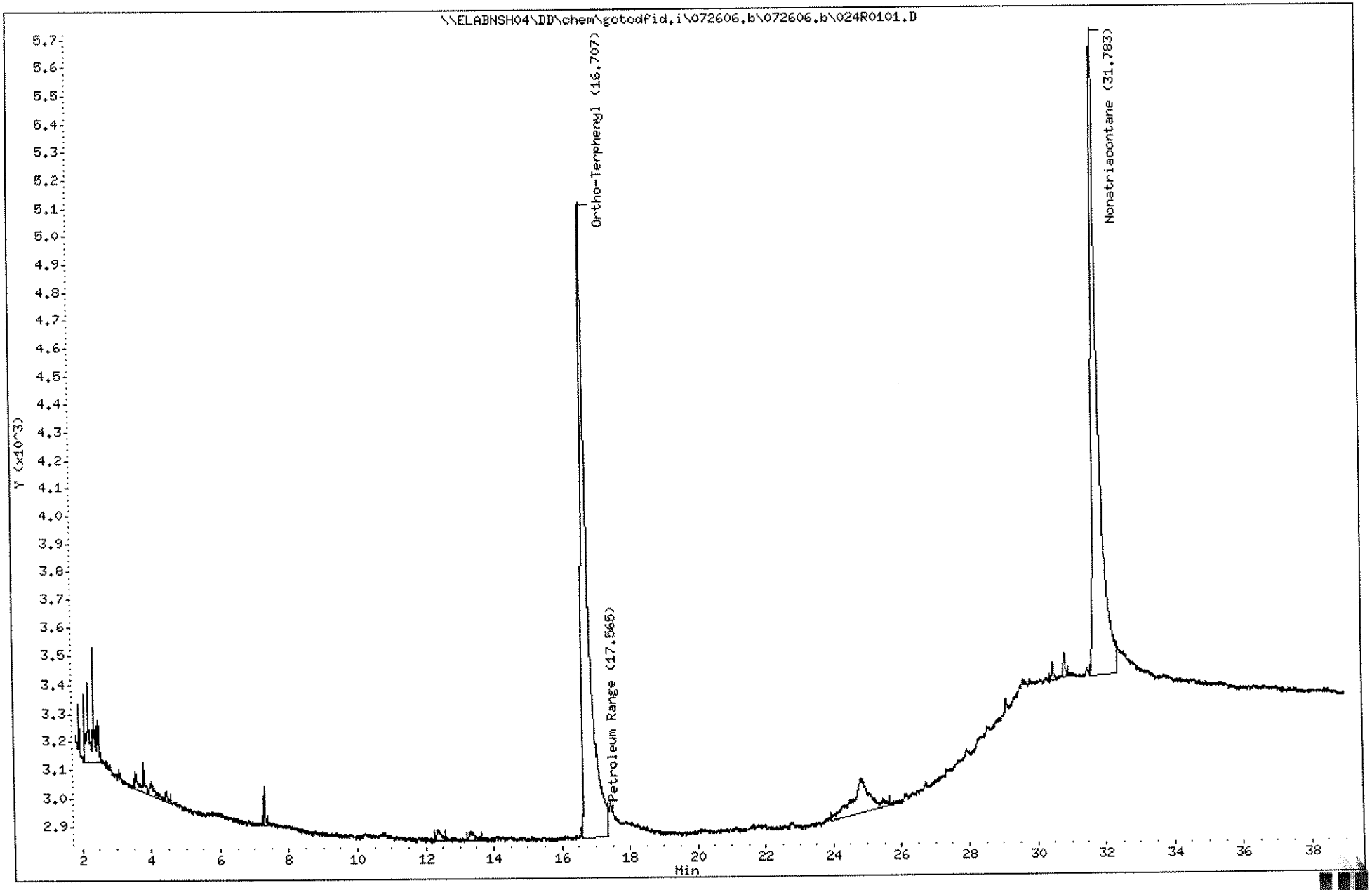


Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51DUP1S060725

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-12

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 036R0101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 07/25/06 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 16:10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.1	93	

J.H. 7-28-06

Anb072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\036R0101.D
Lab Smp Id: 0607211-12 Client Smp ID: 51DUP1S060725
Inj Date : 27-JUL-2006 16:10
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-12
Misc Info : CH2.F07211;25.4;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.400	Sample Amount
Vi	1.000	Injection Volume
Solids	94.500	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			864202	1119.99	93.32(M)
$ 2 Ortho-Terphenyl	16.663	16.660	0.003	33519	24.9631	2.080(M)
$ 23 Nonatriacontane	31.743	31.796	-0.053	26253	111.729	9.310(M)

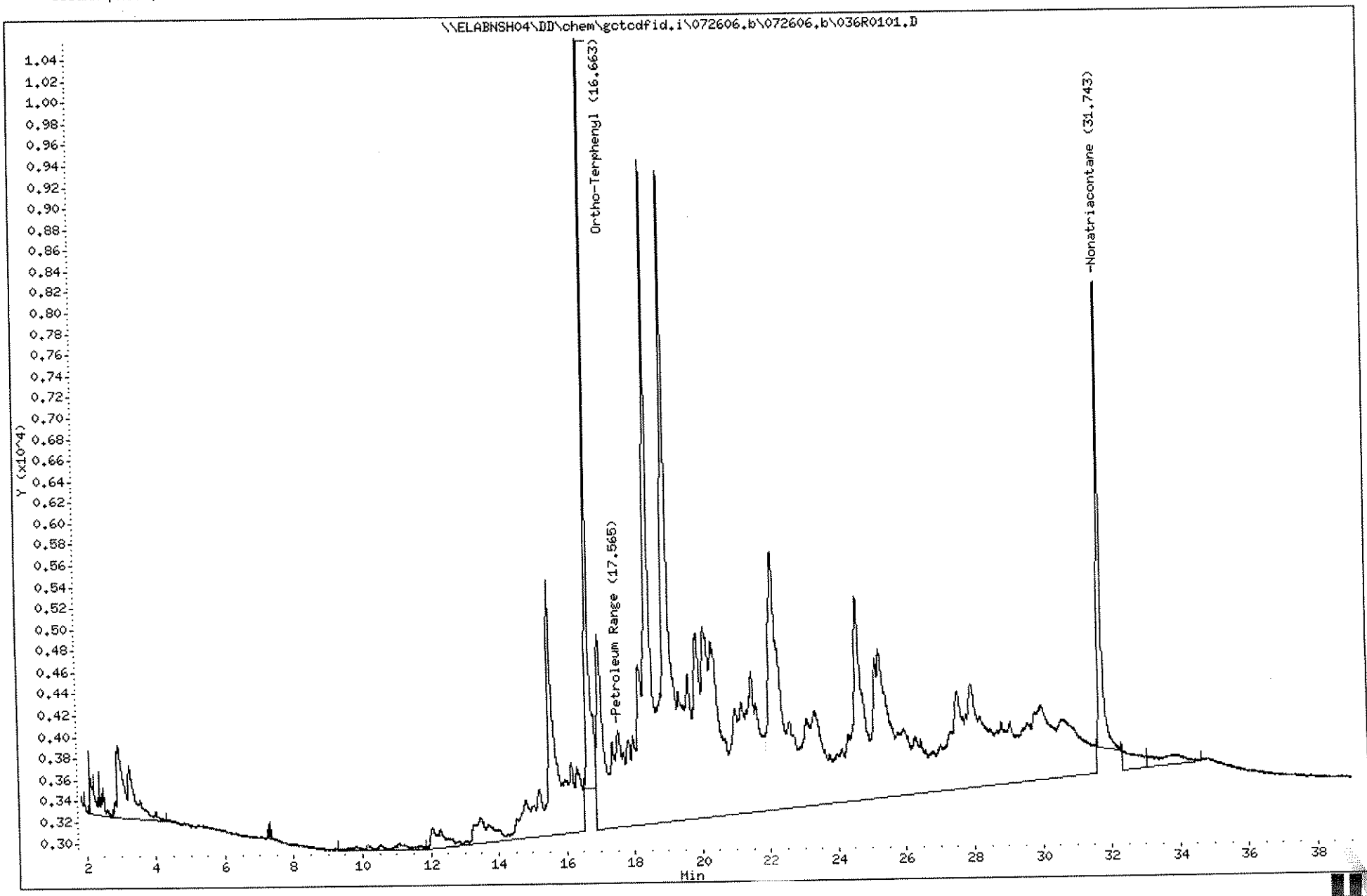
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\036R0101.D
Date : 27-JUL-2006 16:10
Client ID: 51DUP1S060725
Sample Info: 0607211-12
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



Empirical Laboratories

amb 072706
J.H. 7.27.06

Empirical Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2006 15:59
End Cal Date : 26-JUL-2006 21:25
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Cal Date : 27-Jul-2006 11:29 abarnett
Curve Type : Average

Calibration File Names:
Level 1: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\005R0101.D
Level 2: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\006R0101.D
Level 3: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\012R0101.D
Level 4: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\008R0101.D
Level 5: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\009R0101.D
Level 6: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\010R0101.D

	8500.000	5950.000	4250.000	2550.000	850.000	85.000			
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	
S 1 Petroleum Range	811	819	763	725	809	703	772	6.425	
S 27 >C8-C10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
S 28 >C10-C12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
S 29 >C12-C16	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
S 30 >C16-C22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
S 31 >C22-C36	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 2 Ortho-Terphenyl	1181	1196	1138	1233	1538	1772	1343	18.956	
$ 23 Nonatriacontane	275	241	223	178	260	233	235	14.435	

Amb 072706

J.H. 7.27.06

Empirical Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2006 15:59
End Cal Date : 26-JUL-2006 21:25
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPRO
Cal Date : 27-Jul-2006 11:30 abarnett
Curve Type : Average

Calibration File Names:
Level 1: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\005R0101.D
Level 2: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\006R0101.D
Level 3: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\012R0101.D
Level 4: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\008R0101.D
Level 5: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\009R0101.D
Level 6: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\010R0101.D

	8500.000	5950.000	4250.000	2550.000	850.000	85.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
S 1 Petroleum Range	+++++	+++++	755	+++++	+++++	+++++	755	0.000 <-
S 27 >C8-C10	✓ 1713	1881	1641	1631	1506	+++++	1674	8.209
S 28 >C10-C12	1602	✓ 1700	1490	1510	1369	✓ 1161	1472	12.822
S 29 >C12-C16	1322	1388	1247	✓ 1314	1308	1069	1275	8.637
S 30 >C16-C22	✗ 836	✗ 834	✓ 802	✗ 838	✗ 1066	✗ 966	890	11.603
S 31 >C22-C36	429	394	✗ 412	311	✓ 489	+++++	407	15.881
$ 2 Ortho-Terphenyl	1181	1196	1138	1233	1538	1772	1343	18.956
$ 23 Nonatriacontane	275	241	223	178	260	233	235	14.435

Empirical Laboratories

PRO INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Instrument ID: GCTCDFID Calibration Date: 07/26/06 Time: 2038

Lab File ID: 011R0101 Init. Calib. Date(s): 07/26/06 07/26/06

Init. Calib. Times: 1559 2125

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Petroleum Range	771.62	843.72	4000	4647		AVRG	16.2	20.0

ICV PRO

PRO INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Instrument ID: GCTCDFID Calibration Date: 07/26/06 Time: 2038

Lab File ID: 011R0101 Init. Calib. Date(s): 07/26/06 07/26/06

Init. Calib. Times: 1559 2125

COMPOUND	$\overline{RRF}$	RRF 4250	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
>C8-C10	1674.2	1447.2	200.0	216.1		AVRG	8.0	20.0
>C10-C12	1471.8	1294.9	200.0	219.9		AVRG	9.6	20.0
>C12-C16	1274.7	1149.9	400.0	451.0		AVRG	12.8	20.0
>C16-C22	890.24	1706.3	1200.0	1438		AVRG	19.8	20.0
>C22-C36	407.19	351.63	1400.0	1511		AVRG	7.9	20.0

ICV PRO

J.H. 7.28.06
Amb072706

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 26-JUL-2006 21:25
Lab File ID: 012R0101ccv.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	772	763	0.010	-1.1	25.0
$ 2 Ortho-Terphenyl	1343	1138	0.010	-15.3	25.0
$ 23 Nonatriacontane	235	223	0.010	-5.2	25.0

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Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 26-JUL-2006 21:25
Lab File ID: 012R0101ccv.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
$	2 Ortho-Terphenyl	1343	1138	0.010	-15.3	25.0
S	27 >C8-C10	1674	1792	0.010	7.1	25.0
S	28 >C10-C12	1472	1509	0.010	2.5	25.0
S	29 >C12-C16	1275	1247	0.010	-2.1	25.0
S	30 >C16-C22	890	808	0.010	-9.3	25.0
S	31 >C22-C36	407	412	0.010	1.2	25.0
$	23 Nonatriacontane	235	223	0.010	-5.2	25.0

Data File: 023R0101.D
Report Date: 27-Jul-2006 13:02

J.H. 7.28.06
CMS072706

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 06:02
Lab File ID: 023R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m

			MIN		MAX
COMPOUND	RRF	RF4250	RRF	%D	%D
$S 1 Petroleum Range	772	905	0.010	17.3	25.0
$ 2 Ortho-Terphenyl	1343	1222	0.010	-9.0	25.0
$ 23 Nonatriacontane	235	✗ 259	0.010	10.4	25.0

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J.H. 7.28.06
Anls 07280

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 06:02
Lab File ID: 023R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D	
$	2 Ortho-Terphenyl	1343	1222	0.010	-9.0	25.0	
S	27 >C8-C10	1674	1890	0.010	12.9	25.0	
S	28 >C10-C12	1472	1702	0.010	15.7	25.0	
S	29 >C12-C16	1275	1439	0.010	12.9	25.0	
S	30 >C16-C22	890	1170	0.010	31.4	25.0	<-
S	31 >C22-C36	407	483	0.010	18.7	25.0	
$	23 Nonatriacontane	235	259	0.010	10.4	25.0	

Data File: 026R0101.D
Report Date: 27-Jul-2006 13:02

J.H. 7-28-06
AMB 072706

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 08:22
Lab File ID: 026R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D	
$ 1 Petroleum Range	772	993	0.010	28.7	25.0	<-*
$ 2 Ortho-Terphenyl	1343	1385	0.010	3.1	25.0	
$ 23 Nonatriacontane	235	248	0.010	5.5	25.0	

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J.H. 7-28-06

Qmb 072806

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 12:17
Lab File ID: 031R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m

			MIN		MAX
COMPOUND	RRF	RF4250	RRF	%D	%D
$S 1 Petroleum Range	772	✓ 894	0.010	15.8	25.0
$ 2 Ortho-Terphenyl	1343	1306	0.010	-2.8	25.0
$ 23 Nonatriacontane	235	✗ 210	0.010	-10.5	25.0

AMLS072806
J.H. 7.28.06

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 12:17
Lab File ID: 031R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D	
$	2 Ortho-Terphenyl	1343	1306	0.010	-2.8	25.0	
S	27 >C8-C10	1674	1717	0.010	2.6	25.0	
S	28 >C10-C12	1472	1637	0.010	11.3	25.0	
S	29 >C12-C16	1275	1480	0.010	16.1	25.0	
S	30 >C16-C22	890	1220	0.010	37.1	25.0	<-
S	31 >C22-C36	407	487	0.010	19.7	25.0	
$	23 Nonatriacontane	235	210	0.010	-10.5	25.0	

AM072806
JH. 7.28.06

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 20:52
Lab File ID: 042R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	772	899	0.010	16.5	25.0
$ 2 Ortho-Terphenyl	1343	1222	0.010	-9.0	25.0
$ 23 Nonatriacontane	235	235	0.010	0.0	25.0

J.H. 7.28.06
QA/QC 072806

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gctcdfid.i Injection Date: 27-JUL-2006 20:52
Lab File ID: 042R0101.D Init. Cal. Date(s): 26-JUL-2006 26-JUL-2006
Analysis Type: SOIL Init. Cal. Times: 15:59 21:25
Lab Sample ID: FLPRO 4250ppm Quant Type: ESTD
Method: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D	
$ 2 Ortho-Terphenyl	1343	1222	0.010	-9.0	25.0	
S 27 >C8-C10	1674	1698	0.010	1.4	25.0	
S 28 >C10-C12	1472	1633	0.010	10.9	25.0	
S 29 >C12-C16	1275	1532	0.010	20.2	25.0	
S 30 >C16-C22	890	1205	0.010	35.4	25.0	<- H
S 31 >C22-C36	407	480	0.010	17.8	25.0	
$ 23 Nonatriacontane	235	235	0.010	0.0	25.0	

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column: ZB-5 ID: 0.32 (mm) Cont. Calib. Date(s): 07/26/06-07/27/06

Instrument ID: GCTCDFID

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

					SURROGATE RT FROM CONTINUING CALIBRATION S1 : 16.66 S2 : 31.80	
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	07/26/06	1242		
02		FLPRO 8500PP	07/26/06	1559	16.67	31.76
03		FLPRO 5950PP	07/26/06	1645	16.66	31.76
04	ZZZZZ	ZZZZZ	07/26/06	1732	16.65	31.75
05		FLPRO 2550PP	07/26/06	1818	16.66	31.85
06		FLPRO 850PPM	07/26/06	1905	16.67	31.84
07		FLPRO 85PPM	07/26/06	1951	16.69	31.87
08		FLPRO ICV 40	07/26/06	2038		
09		FLPRO 4250PP	07/26/06	2125	16.66	31.80
10		FLPRO 4250PP	07/26/06	2125	16.66	31.80
11	FS1BLK0726	FS1BLK0726	07/26/06	2212	16.68	31.83
12	FS1BLK0726LC	FS1BLK0726LC	07/26/06	2258	16.69	31.89
13	51CFM09S0607	0607211-03	07/26/06	2345	16.65	31.74
14	51CFM10S0607	0607211-04	07/27/06	0032	16.67	31.78
15	51CFM11S0607	0607211-05	07/27/06	0119	16.65	31.84
16	51CFM12S0607	0607211-06	07/27/06	0206	16.68	31.76
17	51CFM13S0607	0607211-07	07/27/06	0253	16.66	31.77
18	51CFM14S0607	0607211-08	07/27/06	0341	16.66	31.75
19	51CFM15S0607	0607211-09	07/27/06	0428	16.66	31.74
20	51CFM16S0607	0607211-10	07/27/06	0515	16.66	31.76
21		FLPRO 4250PP	07/27/06	0602	16.68	31.77
22	51CFM17S0607	0607211-11	07/27/06	0649	16.71	31.78
23	51DUP1S06072	0607211-12	07/27/06	0736	16.67	31.75
24		FLPRO 4250PP	07/27/06	0822	16.68	31.77
25	51CFM09S0607	0607211-03MS	07/27/06	0910	16.67	31.75
26	51CFM09S0607	0607211-03MS	07/27/06	0957	16.67	31.76
27	FW1BLK0726	FW1BLK0726	07/27/06	1044	16.70	31.83
28	FW1BLK0726LC	FW1BLK0726LC	07/27/06	1130	16.68	31.85
29		FLPRO 4250PP	07/27/06	1217	16.68	31.78
30	51EQB3W06072	0607211-01	07/27/06	1304	16.69	31.82
31	51EQB4W06072	0607211-02	07/27/06	1350	16.68	31.80
32	51CFM11S0607	0607211-05DL	07/27/06	1437	16.65	31.75

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = Nonatriacontane (+/- 0.28 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Column: ZB-5 ID: 0.32 (mm) Cont. Calib. Date(s): 07/27/06-07/28/06

Instrument ID: GCTCDFID

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 16.66 S2 : 31.80

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	51CFM15S0607	0607211-09DL	07/27/06	1524	16.66	31.77
02	51DUP1S06072	0607211-12	07/27/06	1610	16.66	31.74
03	ZZZZZ	ZZZZZ	07/27/06	1657	16.69	31.80
04	ZZZZZ	ZZZZZ	07/27/06	1744	16.69	31.85
05	ZZZZZ	ZZZZZ	07/27/06	1831	16.68	31.83
06	ZZZZZ	ZZZZZ	07/27/06	1918	16.69	31.82
07	ZZZZZ	ZZZZZ	07/27/06	2005	16.70	31.89
08		FLPRO 4250PP	07/27/06	2052	16.68	31.80
09	ZZZZZ	ZZZZZ	07/27/06	2138	16.70	31.90
10	ZZZZZ	ZZZZZ	07/27/06	2225	16.71	
11	ZZZZZ	ZZZZZ	07/27/06	2312	16.69	31.85
12	ZZZZZ	ZZZZZ	07/27/06	2359	16.71	31.84
13	ZZZZZ	ZZZZZ	07/28/06	0046	16.73	31.89
14	ZZZZZ	ZZZZZ	07/28/06	0133	16.73	31.88
15	ZZZZZ	ZZZZZ	07/28/06	0220	16.74	31.87
16	ZZZZZ	ZZZZZ	07/28/06	0307	16.69	31.83
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = Nonatriacontane (+/- 0.28 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PRO

J.H. 7.27.06

AMB072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\005R0101.D
Lab Smp Id: FLPRO 8500ppm
Inj Date : 26-JUL-2006 15:59
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 8500ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			6893892	8500.00	8934 (M)
$ 2 Ortho-Terphenyl	16.670	16.670	0.000	29519	25.0000	21.98 (M)
$ 23 Nonatriacontane	31.760	31.760	0.000	41301	150.000	175.8

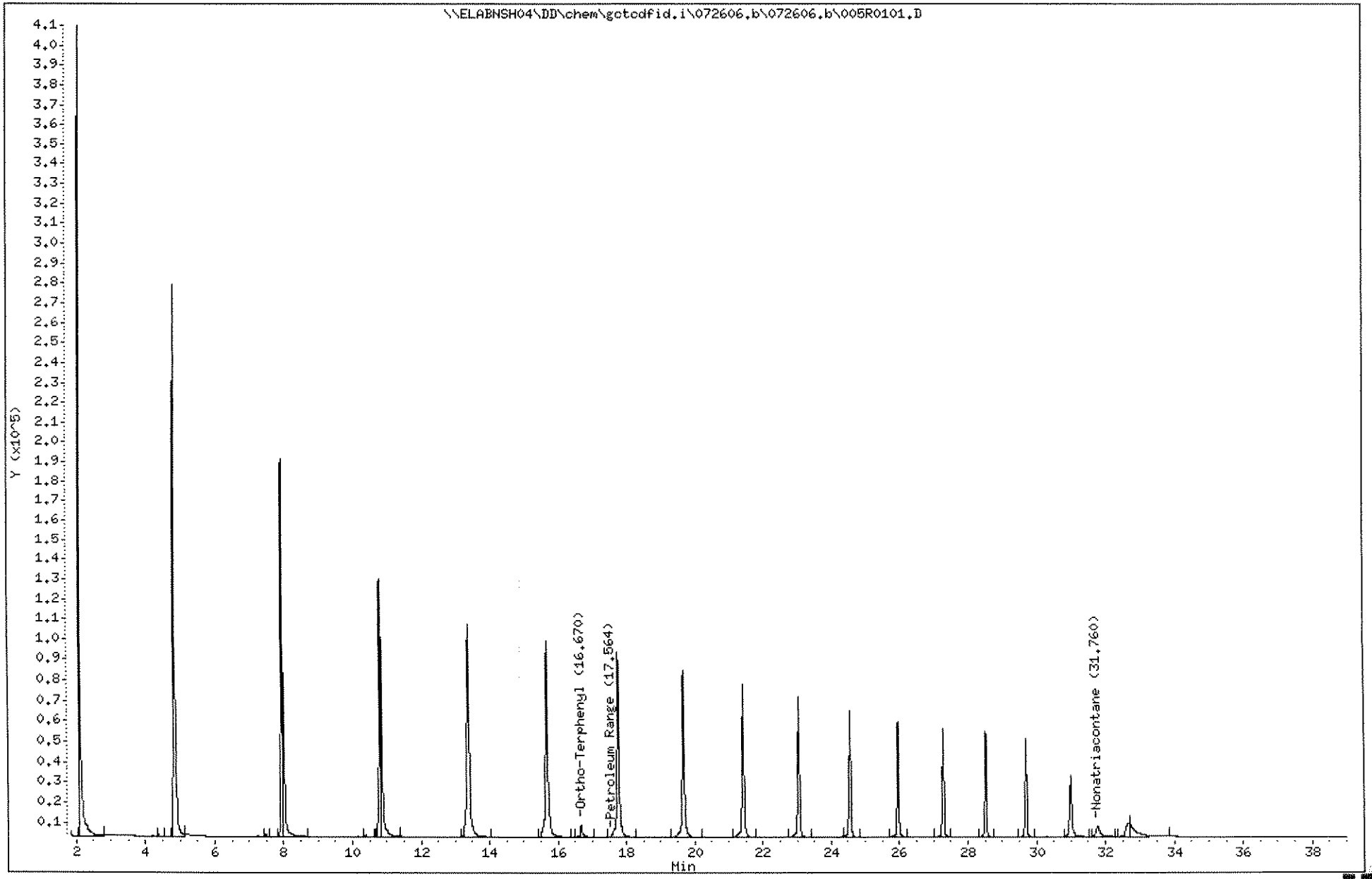
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\005R0101.D
Date : 26-JUL-2006 15:59
Client ID:
Sample Info: FLPRO 8500ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

000086



Empirical Laboratories

J.H. 7.27.06

AM072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\006R0101.D
Lab Smp Id: FLPRO 5950ppm
Inj Date : 26-JUL-2006 16:45
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 5950ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			4975095	5950.00	6318(M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	29902	25.0000	22.27(M)
$ 23 Nonatriacontane	31.763	31.763	0.000	36176	150.000	154.0

QC Flag Legend

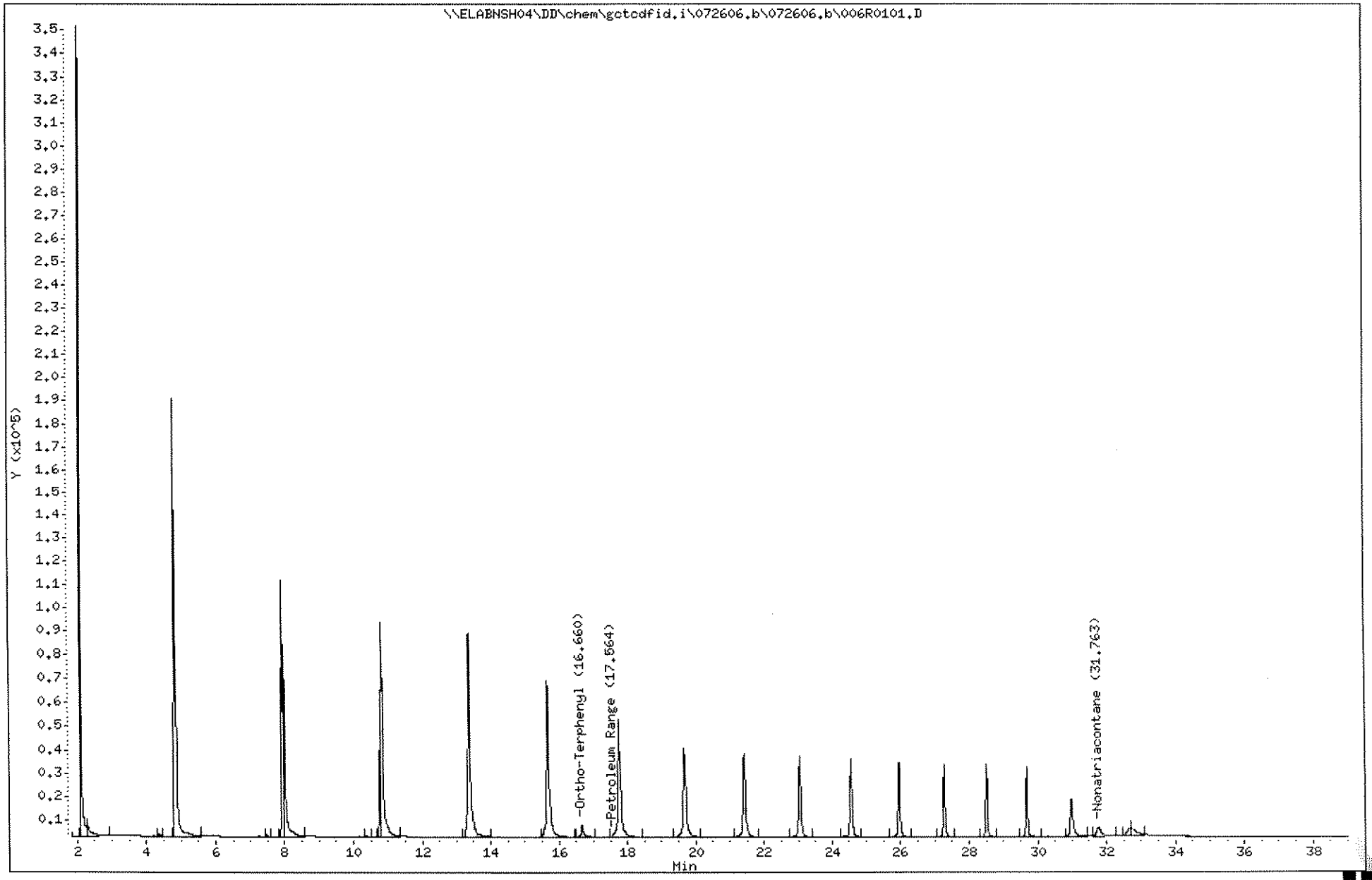
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\006R0101.D
Date : 26-JUL-2006 16:45
Client ID:
Sample Info: FLPRO 5950ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000088



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J.H. 7.27.06

AM072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\012R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 26-JUL-2006 21:25
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			3242665	4250.00	4202 (M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	28441	25.0000	21.18 (M)
$ 23 Nonatriacontane	31.796	31.796	0.000	33397	150.000	142.1 (M)

QC Flag Legend

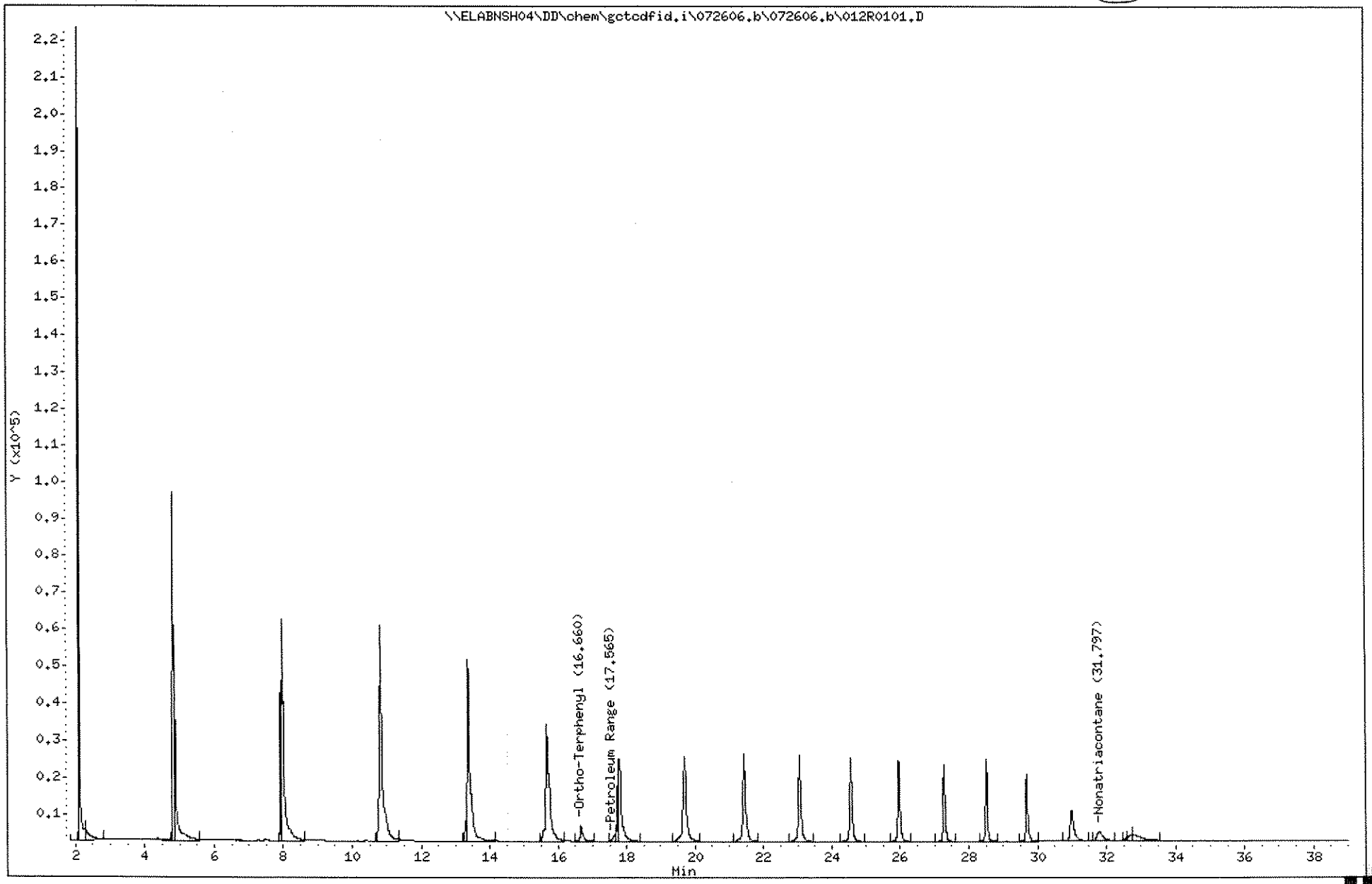
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\012R0101.D
Date : 26-JUL-2006 21:25
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000090



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Amb 072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\008R0101.D
Lab Smp Id: FLPRO 2550ppm
Inj Date : 26-JUL-2006 18:18
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 2550ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			1847517	2550.00	2394 (M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	30815	25.0000	22.95 (M)
$ 23 Nonatriacontane	31.853	31.853	0.000	26631	150.000	113.3 (M)

QC Flag Legend

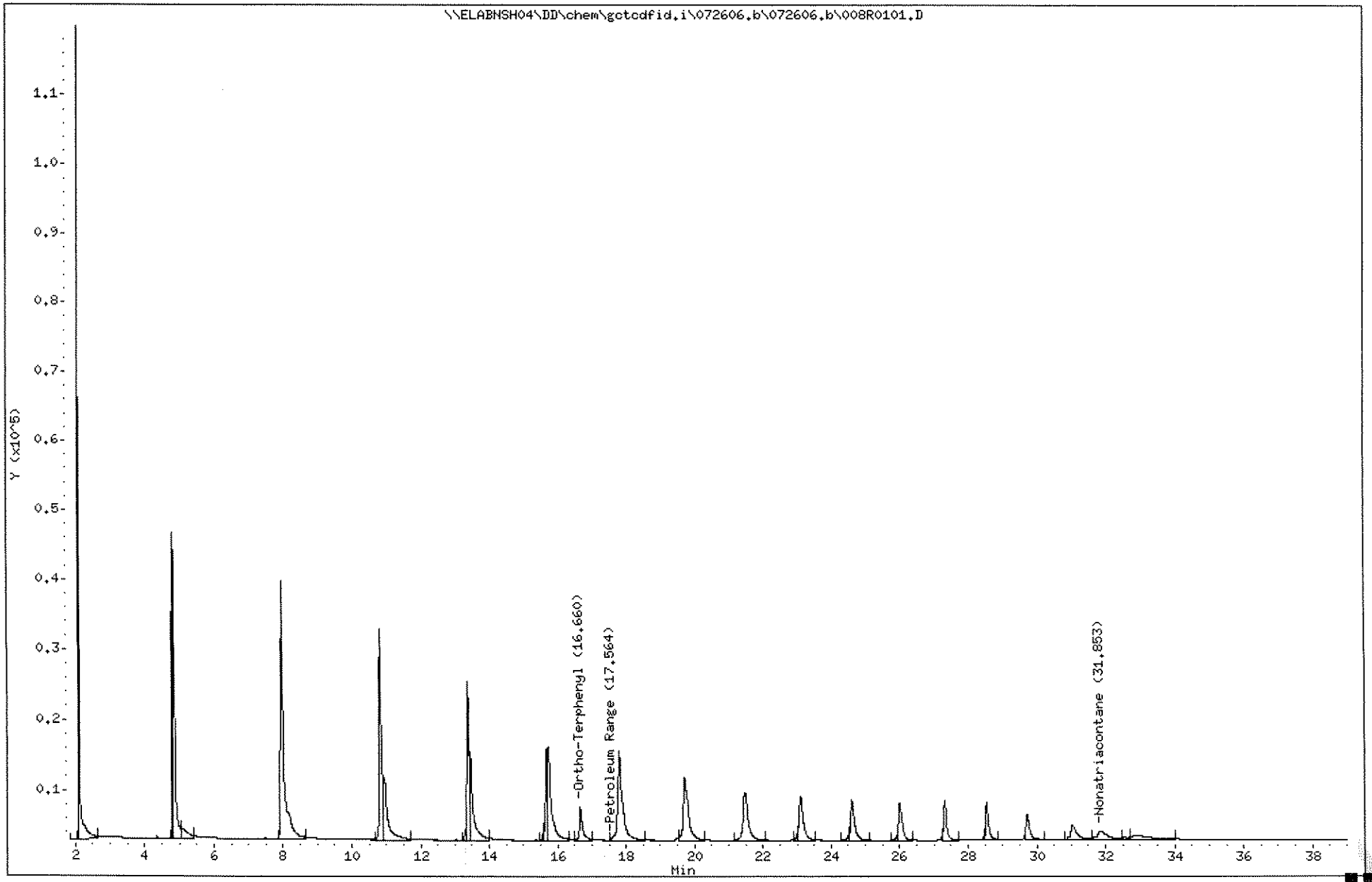
M - Compound response manually integrated.

000092

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\008R0101.D
Date : 26-JUL-2006 18:18
Client ID:
Sample Info: FLPRO 2550ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



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Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\009R0101.D
Lab Smp Id: FLPRO 850ppm
Inj Date : 26-JUL-2006 19:05
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 850ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			687793 ✗	850.000	891.4(M)
$ 2 Ortho-Terphenyl	16.666	16.666	0.000	✓ 38443	25.0000	28.63
$ 23 Nonatriacontane	31.840	31.840	0.000	39011	150.000	166.0(M)

QC Flag Legend

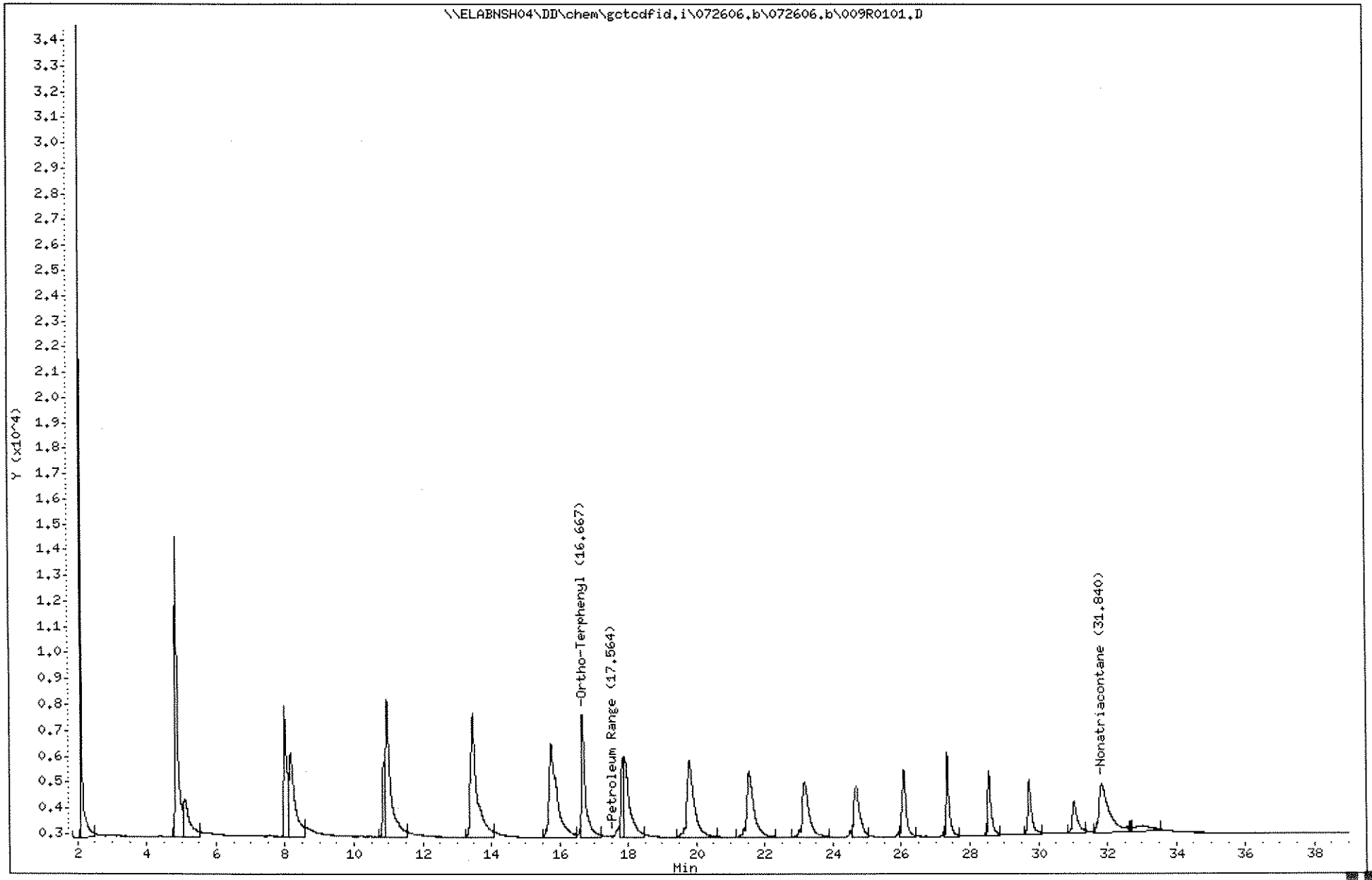
M - Compound response manually integrated.

000094

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\009R0101.D
Date : 26-JUL-2006 19:05
Client ID:
Sample Info: FLPRO 850ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\010R0101.D
Lab Smp Id: FLPRO 85ppm
Inj Date : 26-JUL-2006 19:51
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 85ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: prosurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			59726 X	85.0000	77.40(M)
$ 2 Ortho-Terphenyl	16.690	16.690	0.000	44291	25.0000	32.98(M)
$ 23 Nonatriacontane	31.870	31.870	0.000	34957	150.000	148.8(M)

QC Flag Legend

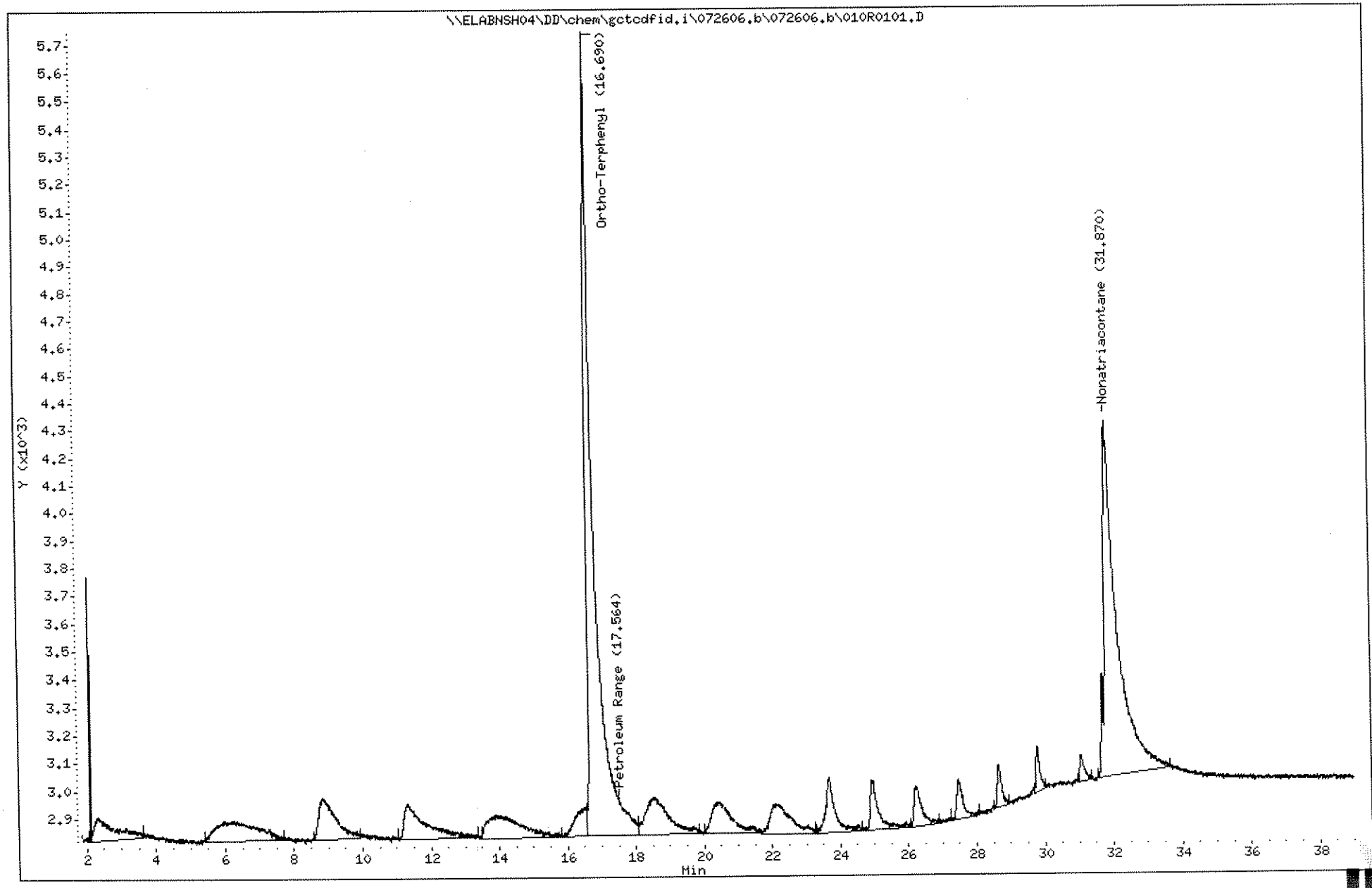
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\010R0101.D
Date : 26-JUL-2006 19:51
Client ID:
Sample Info: FLPRO 85ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000096



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Amb 072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\005R0101.D
Lab Smp Id: FLPRO 8500ppm
Inj Date : 26-JUL-2006 15:59
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 8500ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	16.670	16.670	0.000	✓29519	25.0000	21.98(M)
S 27 >C8-C10	2.156-4.924			✓856304	500.000	511.5(M)
S 28 >C10-C12	4.924-8.060			800912	500.000	544.2(M)
S 29 >C12-C16	8.060-13.512			1321710	1000.00	1037(M)
S 30 >C16-C22	13.512-19.816			1253490 ✗	1500.00	1408(M)
S 31 >C22-C36	19.816-29.892			1502974	3500.00	3691(M)
$ 23 Nonatriacontane	31.760	31.760	0.000	41301	150.000	175.8

QC Flag Legend

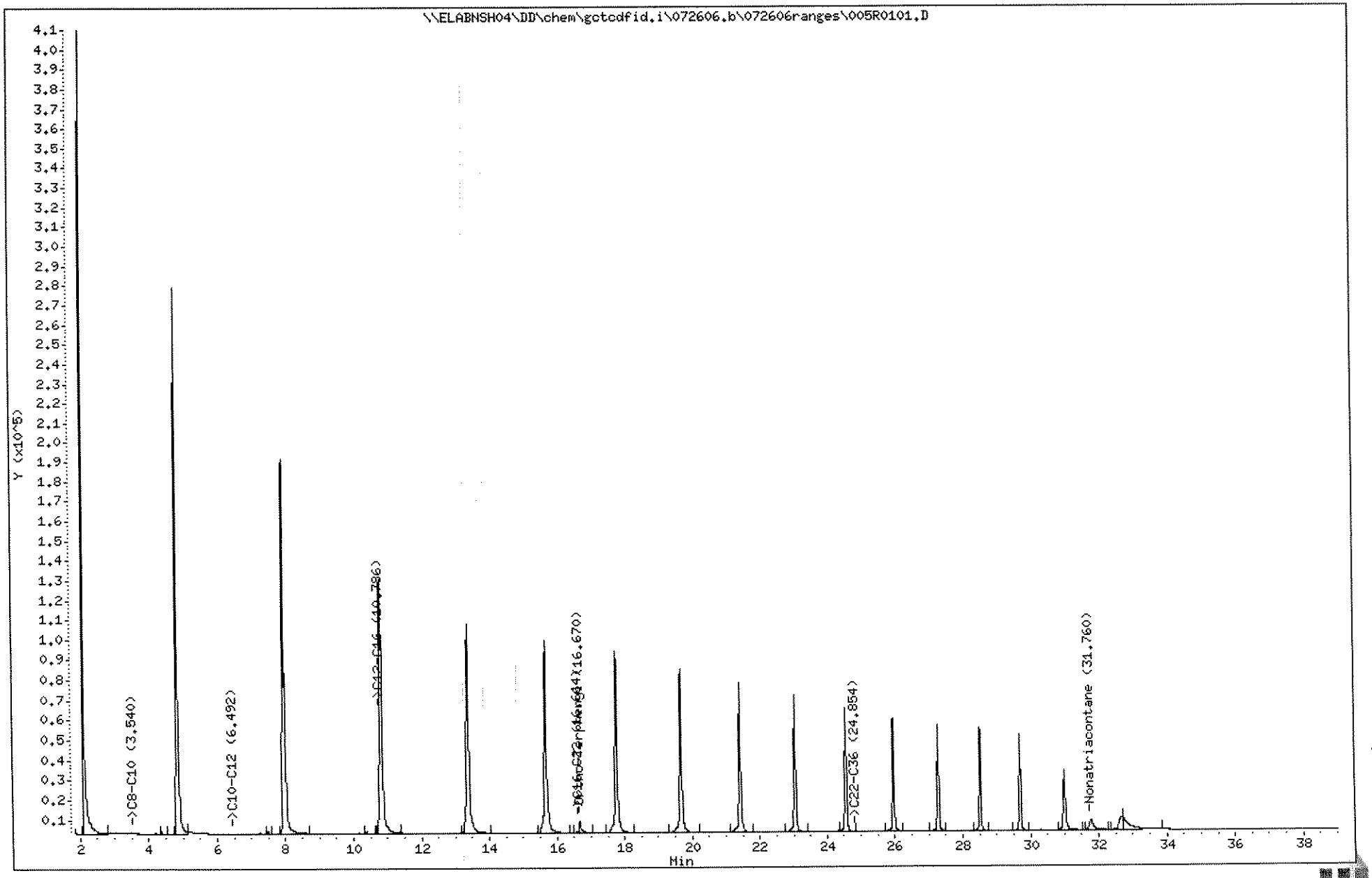
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\005R0101.D
Date : 26-JUL-2006 15:59
Client ID:
Sample Info: FLPRO 8500ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000098



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AMB072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\006R0101.D
Lab Smp Id: FLPRO 5950ppm
Inj Date : 26-JUL-2006 16:45
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 5950ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	29902	25.0000	22.27(M)
S 27 >C8-C10	2.156-4.924			658344	350.000	393.2(M)
S 28 >C10-C12	4.924-8.060			595051	350.000	404.3(M)
S 29 >C12-C16	8.060-13.512			971803	700.000	762.4(M)
S 30 >C16-C22	13.512-19.816			875643	1050.00	983.6(M)
S 31 >C22-C36	19.816-29.892			965536	2450.00	2371(M)
$ 23 Nonatriacontane	31.763	31.763	0.000	36176	150.000	154.0

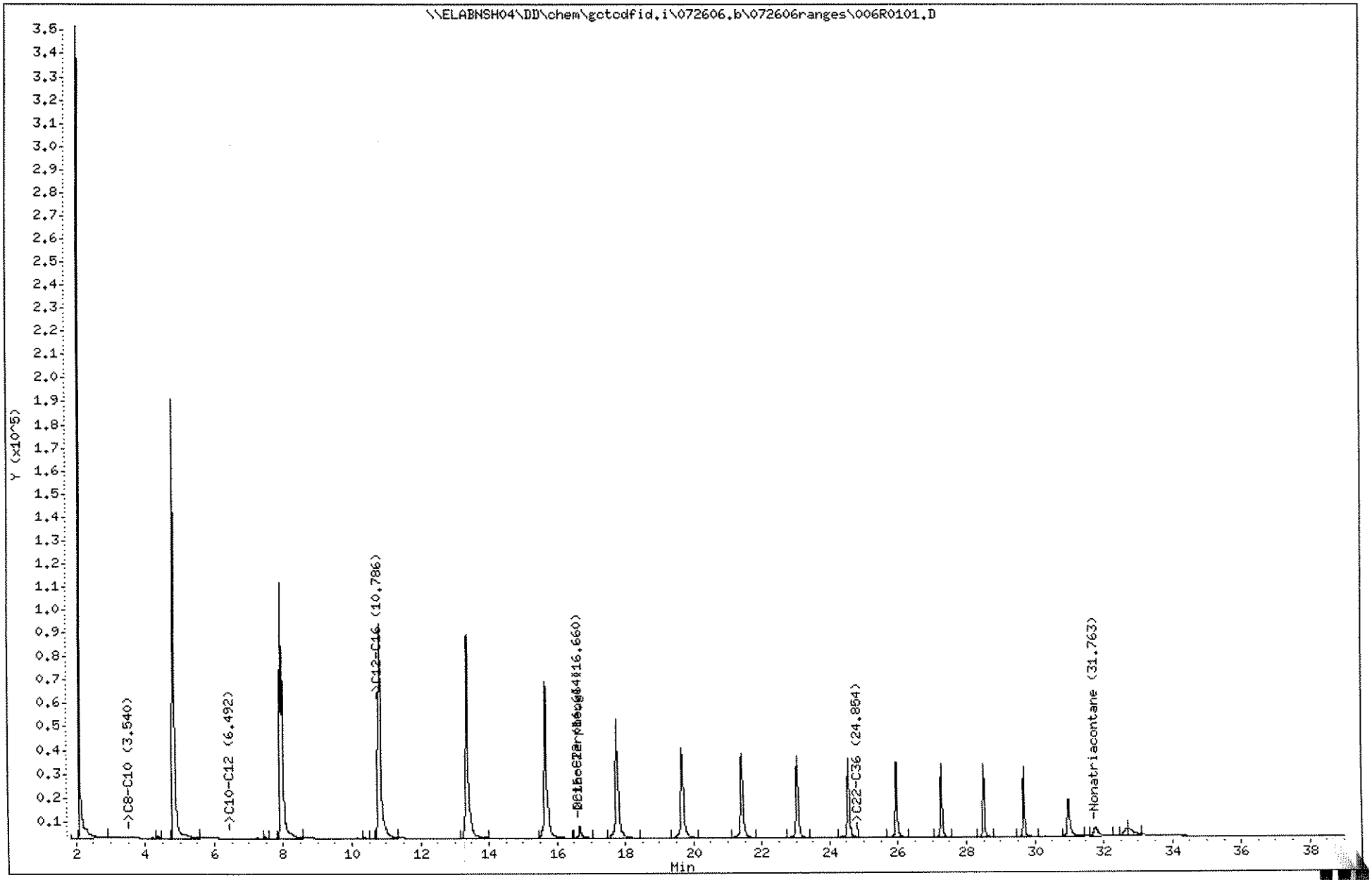
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\006R0101.D
Date : 26-JUL-2006 16:45
Client ID:
Sample Info: FLPRO 5950ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

000100



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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\012R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 26-JUL-2006 21:25
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	28441	25.0000	21.18(M)
S 27 >C8-C10	2.156-4.924			410206	250.000	245.0(M)
S 28 >C10-C12	4.924-8.060			372402	250.000	253.0(M)
S 29 >C12-C16	8.060-13.512			623728	500.000	489.3(M)
S 30 >C16-C22	13.512-19.816			601317	750.000	675.4(M)
S 31 >C22-C36	19.816-29.892			721015	1750.00	1771(M)
$ 23 Nonatriacontane	31.796	31.796	0.000	33397	150.000	142.1(M)

QC Flag Legend

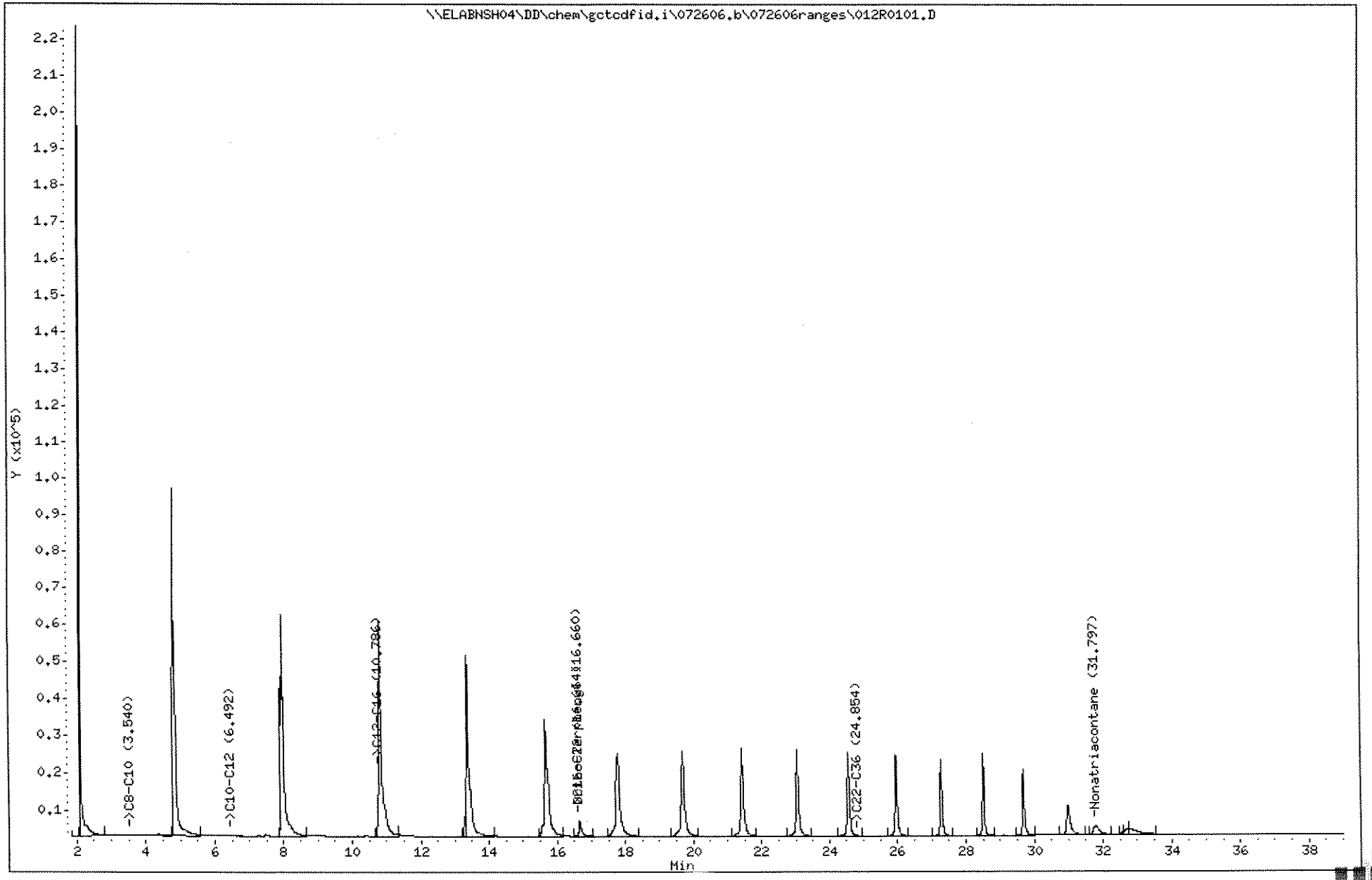
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\012R0101.D
Date : 26-JUL-2006 21:25
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000102



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Amb 072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\008R0101.D
Lab Smp Id: FLPRO 2550ppm
Inj Date : 26-JUL-2006 18:18
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 2550ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	30815	25.0000	22.95 (M)
S 27 >C8-C10	2.156-4.924			244589	150.000	146.1 (M)
S 28 >C10-C12	4.924-8.060			226449	150.000	153.8 (M)
S 29 >C12-C16	8.060-13.512			394056	300.000	309.1 (M)
S 30 >C16-C22	13.512-19.816			377215	450.000	423.7 (M)
S 31 >C22-C36	19.816-29.892			326486	1050.00	801.8 (M)
$ 23 Nonatriacontane	31.853	31.853	0.000	26631	150.000	113.3 (M)

QC Flag Legend

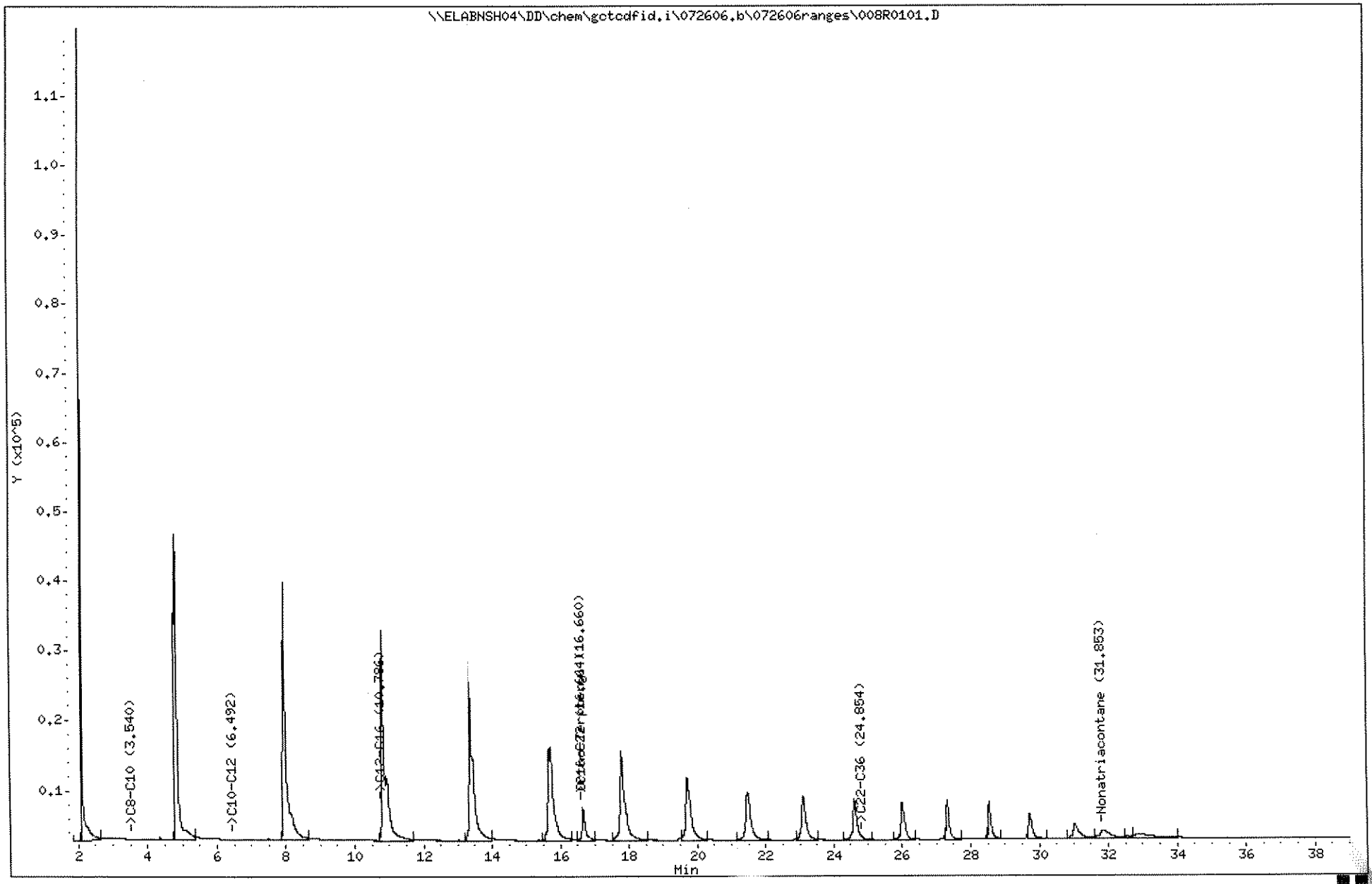
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\008R0101.D
Date : 26-JUL-2006 18:18
Client ID:
Sample Info: FLPRO 2550ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000104



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Amb 072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\009R0101.D
Lab Smp Id: FLPRO 850ppm
Inj Date : 26-JUL-2006 19:05
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 850ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 2 Ortho-Terphenyl	16.666	16.666	0.000	38443	25.0000	28.63
S 27 >C8-C10	2.156-4.924			75297	50.0000	44.98(M)
S 28 >C10-C12	4.924-8.060			68426	50.0000	46.49(M)
S 29 >C12-C16	8.060-13.512			130774	100.000	102.6(M)
S 30 >C16-C22	13.512-19.816			159946 ✗	150.000	179.7(M)
S 31 >C22-C36	19.816-29.892			✓ 171323	350.000	420.7(M)
$ 23 Nonatriacontane	31.840	31.840	0.000	39011	150.000	166.0(M)

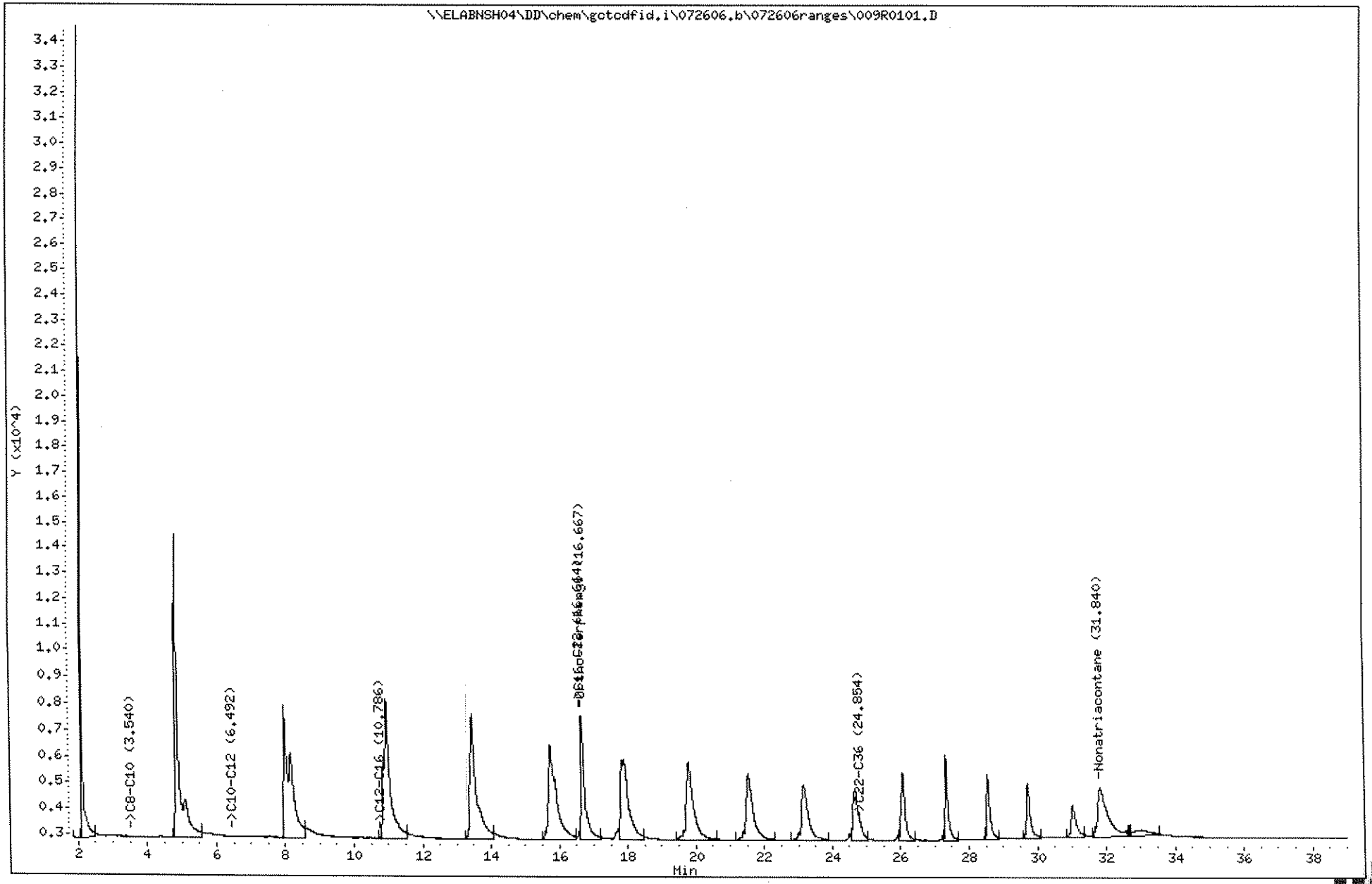
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\009R0101.D
Date : 26-JUL-2006 19:05
Client ID:
Sample Info: FLPRO 850ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

000106



Empirical Laboratories

JH. 7.27.06

Ams072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\010R0101.D
Lab Smp Id: FLPRO 85ppm
Inj Date : 26-JUL-2006 19:51
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 85ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	
$ 2 Ortho-Terphenyl	16.690	16.690	0.000	44291	25.0000	32.98 (M)	
S 27 >C8-C10	2.156-4.924			3364	5.00000	2.009 (M)	not used
S 28 >C10-C12	4.924-8.060			5805	5.00000	3.944 (M)	
S 29 >C12-C16	8.060-13.512			10694	10.0000	8.390 (M)	
S 30 >C16-C22	13.512-19.816			14483	15.0000	16.27 (M)	
S 31 >C22-C36	19.816-29.892			23285	35.0000	57.18 (M)	not used
$ 23 Nonatriacontane	31.870	31.870	0.000	34957	150.000	148.8 (M)	

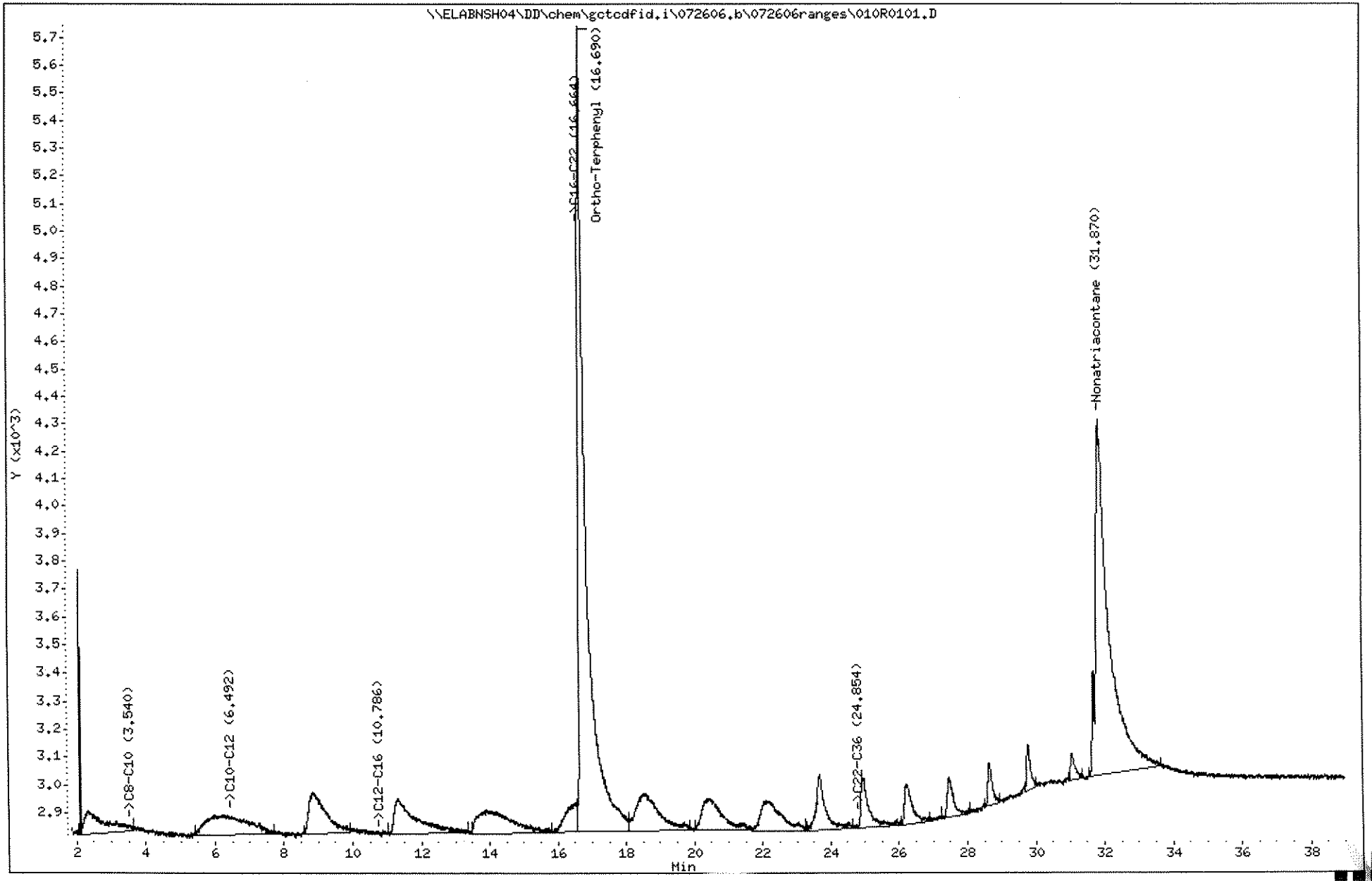
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\010R0101.D
Date : 26-JUL-2006 19:51
Client ID:
Sample Info: FLPRO 85ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

000108



Empirical Laboratories

J.H. 7.27.06

Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\011R0101.D
Lab Smp Id: FLPRO ICV 4000
Inj Date : 26-JUL-2006 20:38
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO ICV 4000
Misc Info : ;;;;;;range.sub
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 11:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: range.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			3585808	4647.12	371.8 (M)

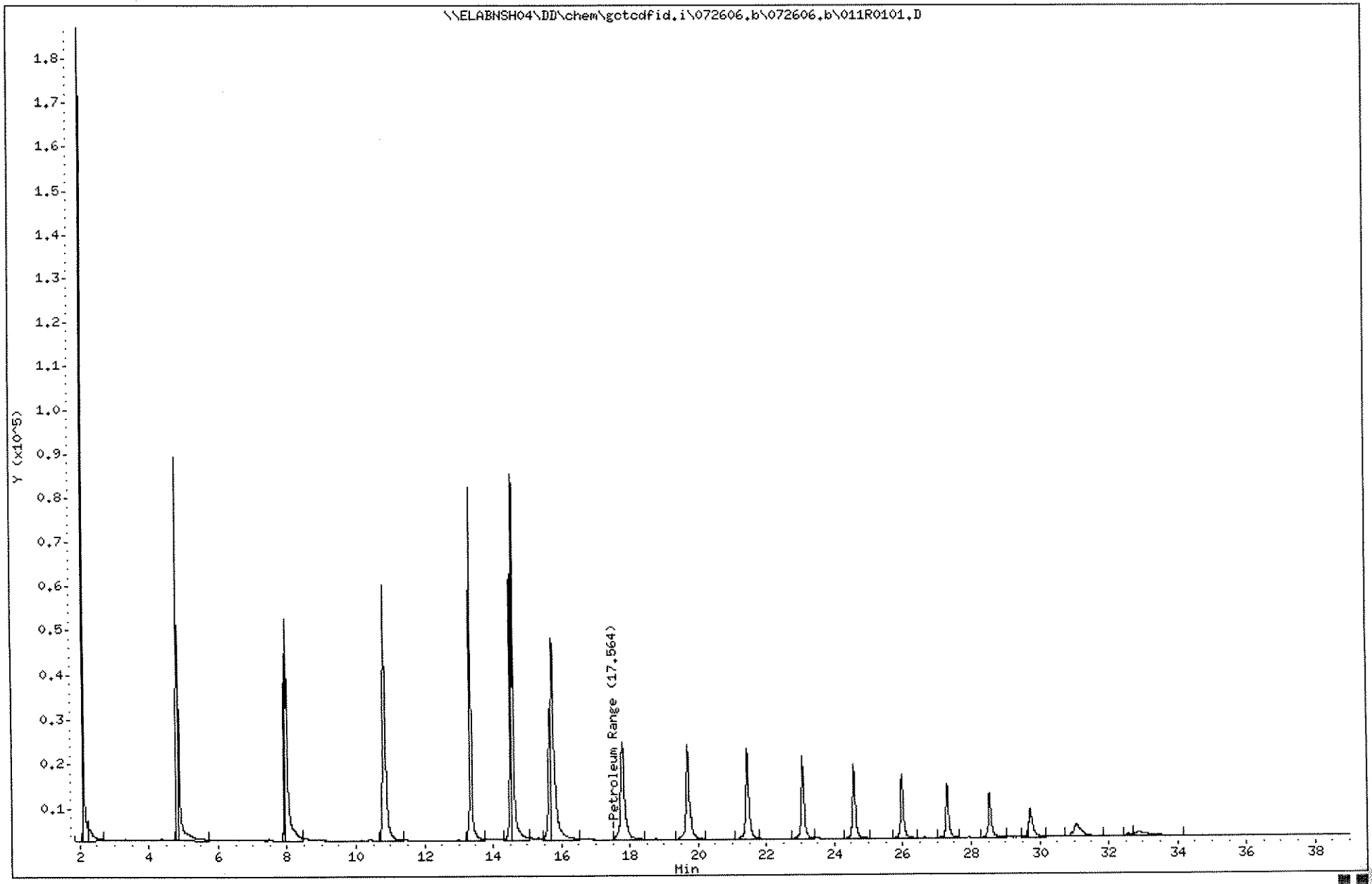
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\011R0101.D
Date : 26-JUL-2006 20:38
Client ID:
Sample Info: FLPRO ICV 4000
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i
Operator: bfd
Column diameter: 0.32

000110



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J.H. 7.27.06

Amb072706

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\011R0101.D
Lab Smp Id: FLPRO ICV 4000
Inj Date : 26-JUL-2006 20:38
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO ICV 4000
Misc Info : ;;;;;;range.sub
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 11:30 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 15:59 Cal File: 005R0101.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flranges.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 27 >C8-C10	2.156-4.924			361792	216.100 ✓	17.29(M) ✓
S 28 >C10-C12	4.924-8.060			323717	219.947	17.60(M)
S 29 >C12-C16	8.060-13.512			574953	451.055 ✗	36.08(M) ✗
S 30 >C16-C22	13.512-19.816			1279758	1437.54	115.0(M)
S 31 >C22-C36	19.816-29.892			615353	1511.21	120.9(M)

QC Flag Legend

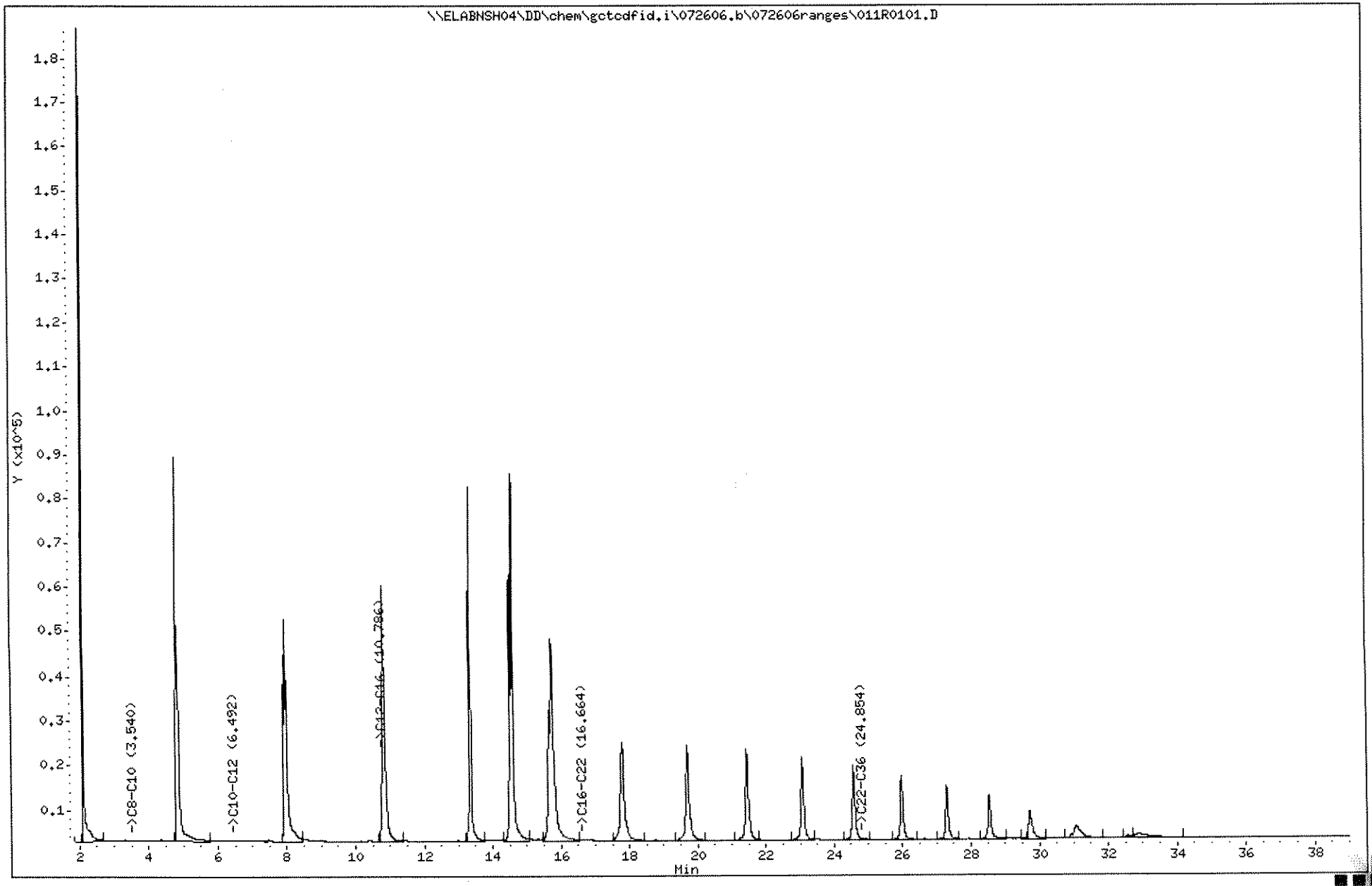
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\011R0101.D
Date : 26-JUL-2006 20:38
Client ID:
Sample Info: FLPRO ICV 4000
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000112



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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\012R0101ccv.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 26-JUL-2006 21:25
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			3242665	4250.00	4202 (M)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	28441	25.0000	21.18 (M)
$ 23 Nonatriacontane	31.796	31.796	0.000	33397	150.000	142.1 (M)

QC Flag Legend

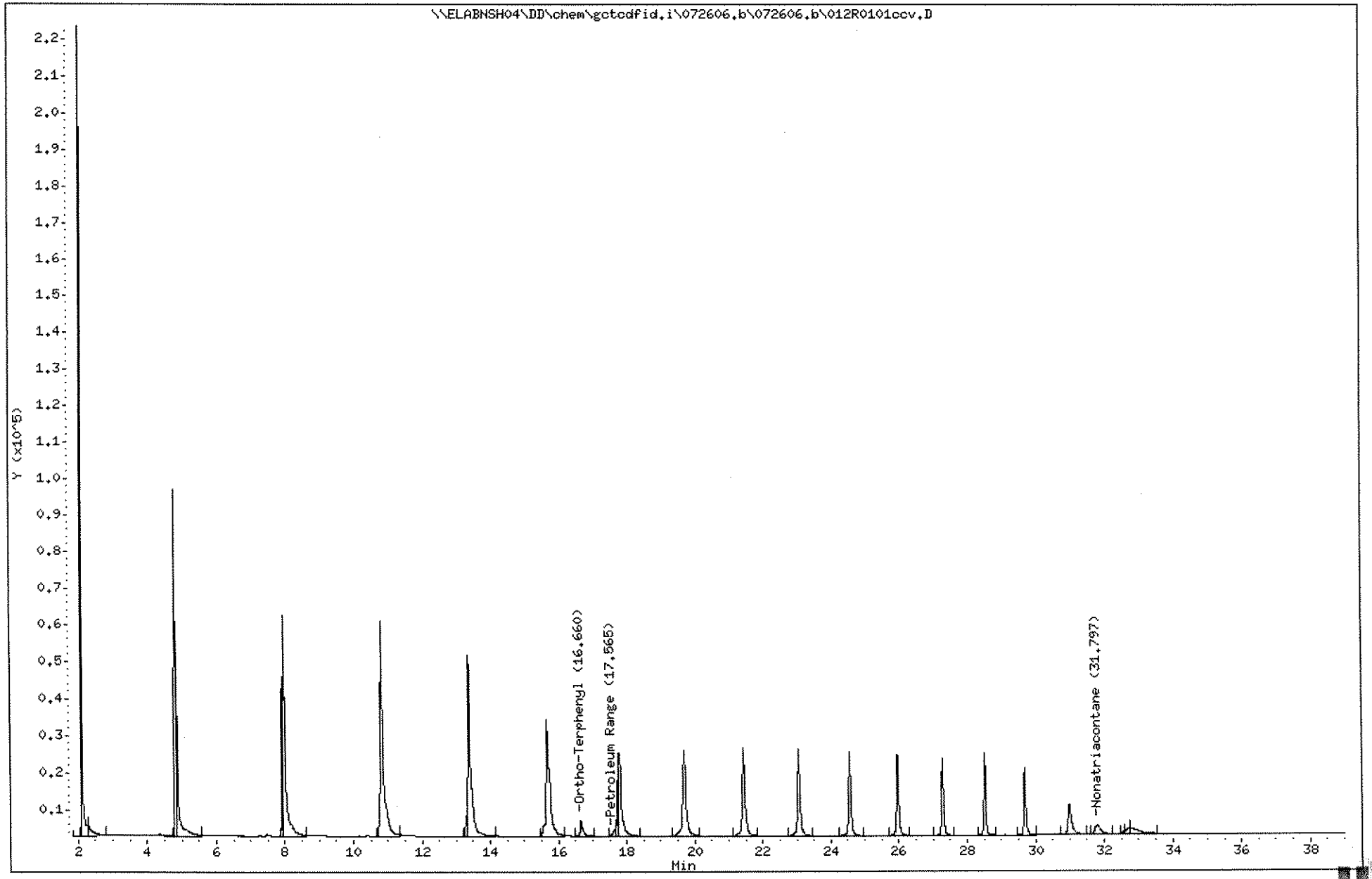
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\012R0101ccv.D
Date : 26-JUL-2006 21:25
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000114



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J.H. 7.28.06

AMLS072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\012R0101ccv
Lab Smp Id: FLPRO 4250ppm
Inj Date : 26-JUL-2006 21:25
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:00 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
$ 2 Ortho-Terphenyl	16.660	16.660	0.000	28441	25.0000	21.18(M)
S 27 >C8-C10	2.156-4.924			448086	250.000	267.6(M)
S 28 >C10-C12	4.924-8.060			377257	250.000	256.3(M)
S 29 >C12-C16	8.060-13.512			623728	500.000	489.3(M)
S 30 >C16-C22	13.512-19.816			605781	750.000	680.5(M)
S 31 >C22-C36	19.816-29.892			721015	1750.00	1771(M)
$ 23 Nonatriacontane	31.796	31.796	0.000	33397	150.000	142.1(M)

QC Flag Legend

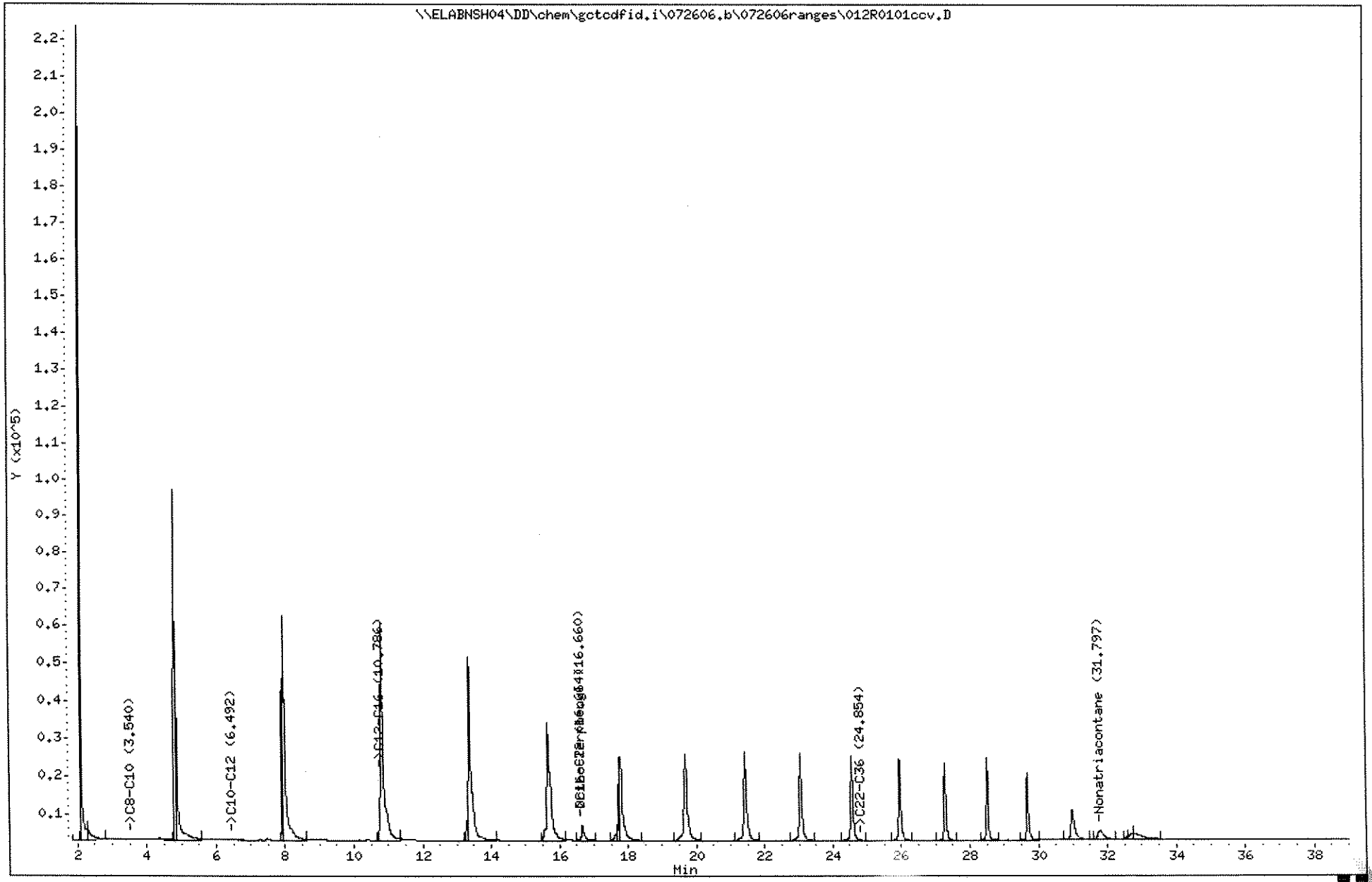
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\012R0101ccv.D
Date : 26-JUL-2006 21:25
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000116



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J.H. 7-28-06

Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\023R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 06:02
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			3847455	4250.00	4986 (M)
$ 2 Ortho-Terphenyl	16.676	16.660	0.016	30557	25.0000	22.76
$ 23 Nonatriacontane	31.766	31.796	-0.030	38923	150.000	165.6

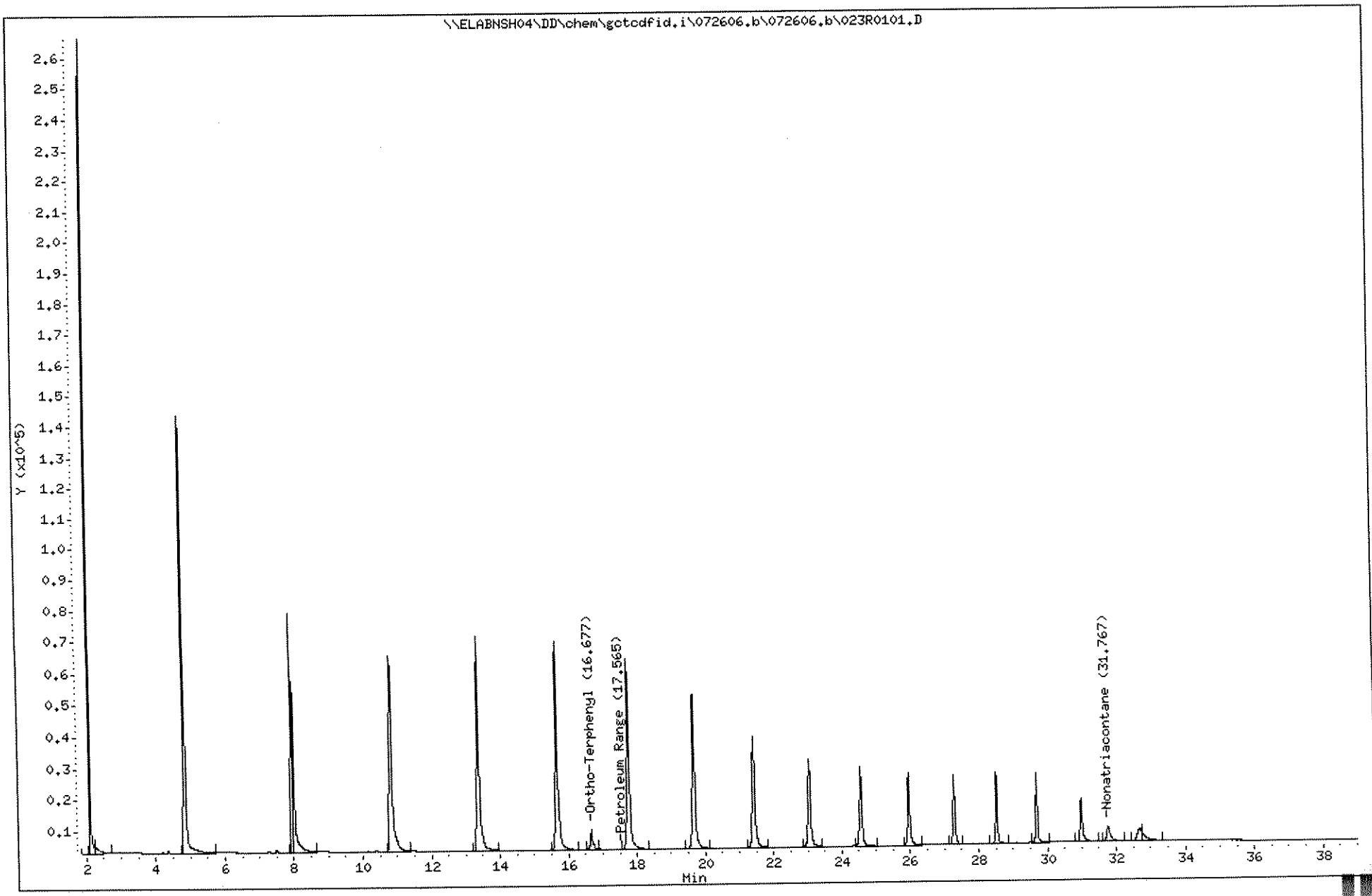
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\023R0101.D
Date : 27-JUL-2006 06:02
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32



Amls072806
J.H. 7.28.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\023R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 06:02
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:09 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
$	2 Ortho-Terphenyl	16.676	16.660	0.016	30557	25.0000	22.76
S	27 >C8-C10	2.156-4.924			472547	250.000	282.2(M)
S	28 >C10-C12	4.924-8.060			425533	250.000	289.1(M)
S	29 >C12-C16	8.060-13.512			719702	500.000	564.6(M)
S	30 >C16-C22	13.512-19.816			877596	750.000	985.8(M)
S	31 >C22-C36	19.816-29.892			845957	1750.00	2078(M)
$	23 Nonatriacontane	31.766	31.796	-0.030	38923	150.000	165.6

QC Flag Legend

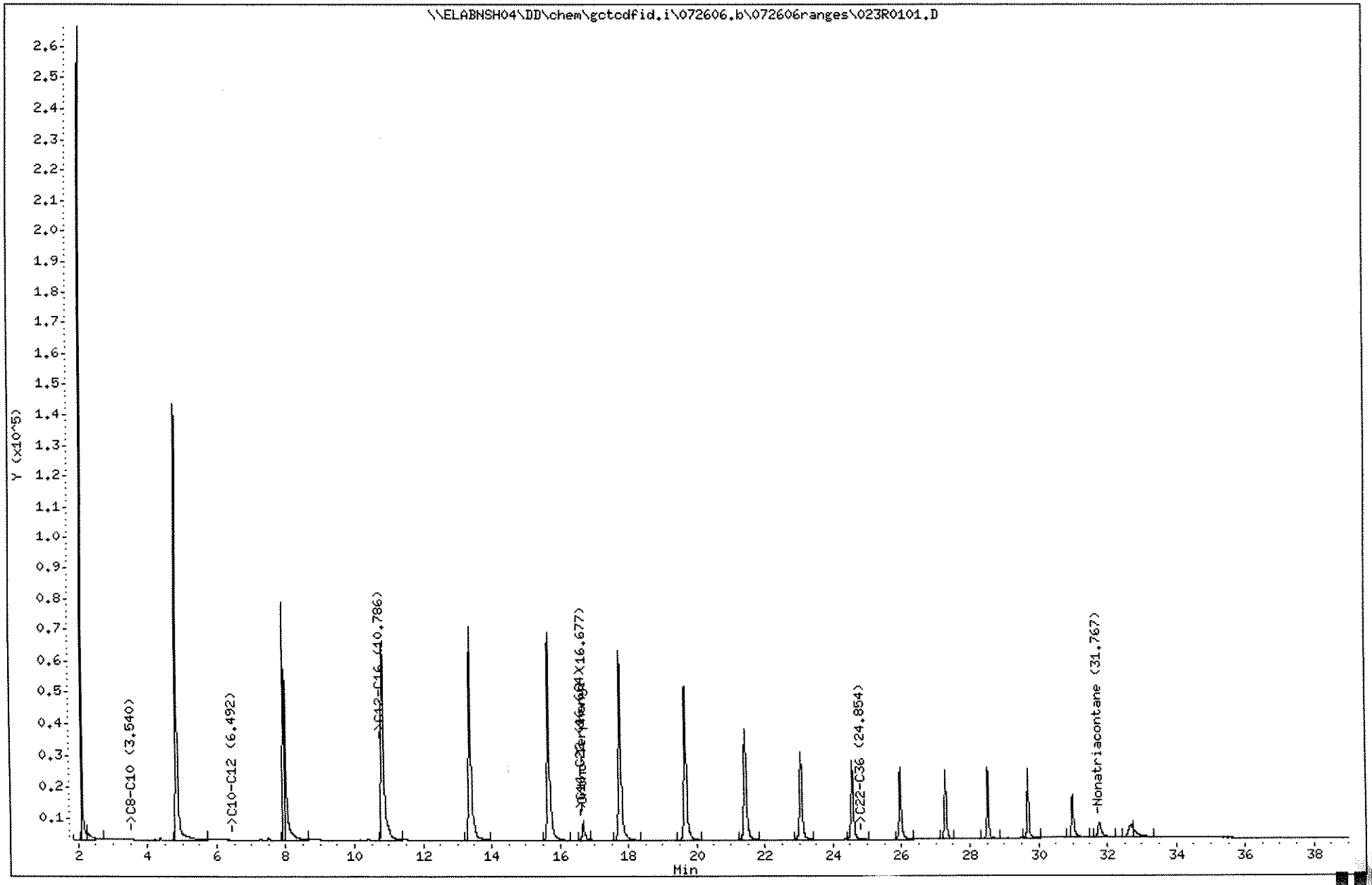
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\023R0101.D
Date : 27-JUL-2006 06:02
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000120



Empirical Laboratories

Data File: 026R0101.D
Report Date: 27-Jul-2006 13:02

Am 072706
J.H. 7.28.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\026R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 08:22 Inst ID: gctcdfid.i
Operator : bfd
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			4219651 ✓	4250.00	5468
$ 2 Ortho-Terphenyl	16.680	16.660	0.020	34622 ✗	25.0000	25.78
$ 23 Nonatriacontane	31.770	31.796	-0.026	37176	150.000	158.2

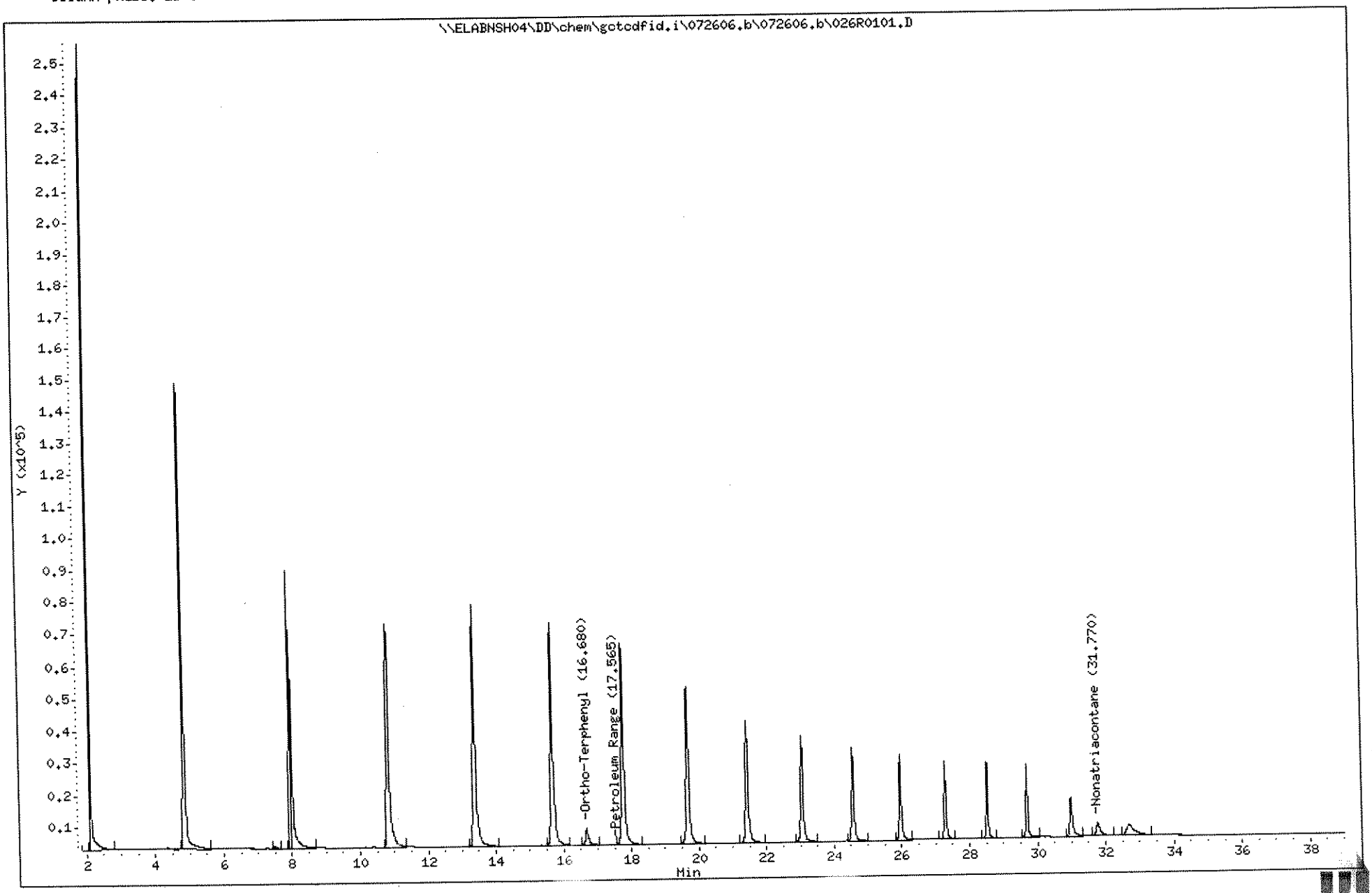
Empirical Laboratories

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\026R0101.D
Date : 27-JUL-2006 08:22
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000122



Empirical Laboratories

J.H. 7-28-06

Amb072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\031R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 12:17
Operator : bfd
Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:20 abarnett
Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25
Cal File: 012R0101.D
Als bottle: 31
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	2.069-33.060			3798874	4250.00	4923 (M)
$ 2 Ortho-Terphenyl	16.680	16.660	0.020	32638	25.0000	24.31
$ 23 Nonatriacontane	31.783	31.796	-0.013	31528	150.000	134.2

QC Flag Legend

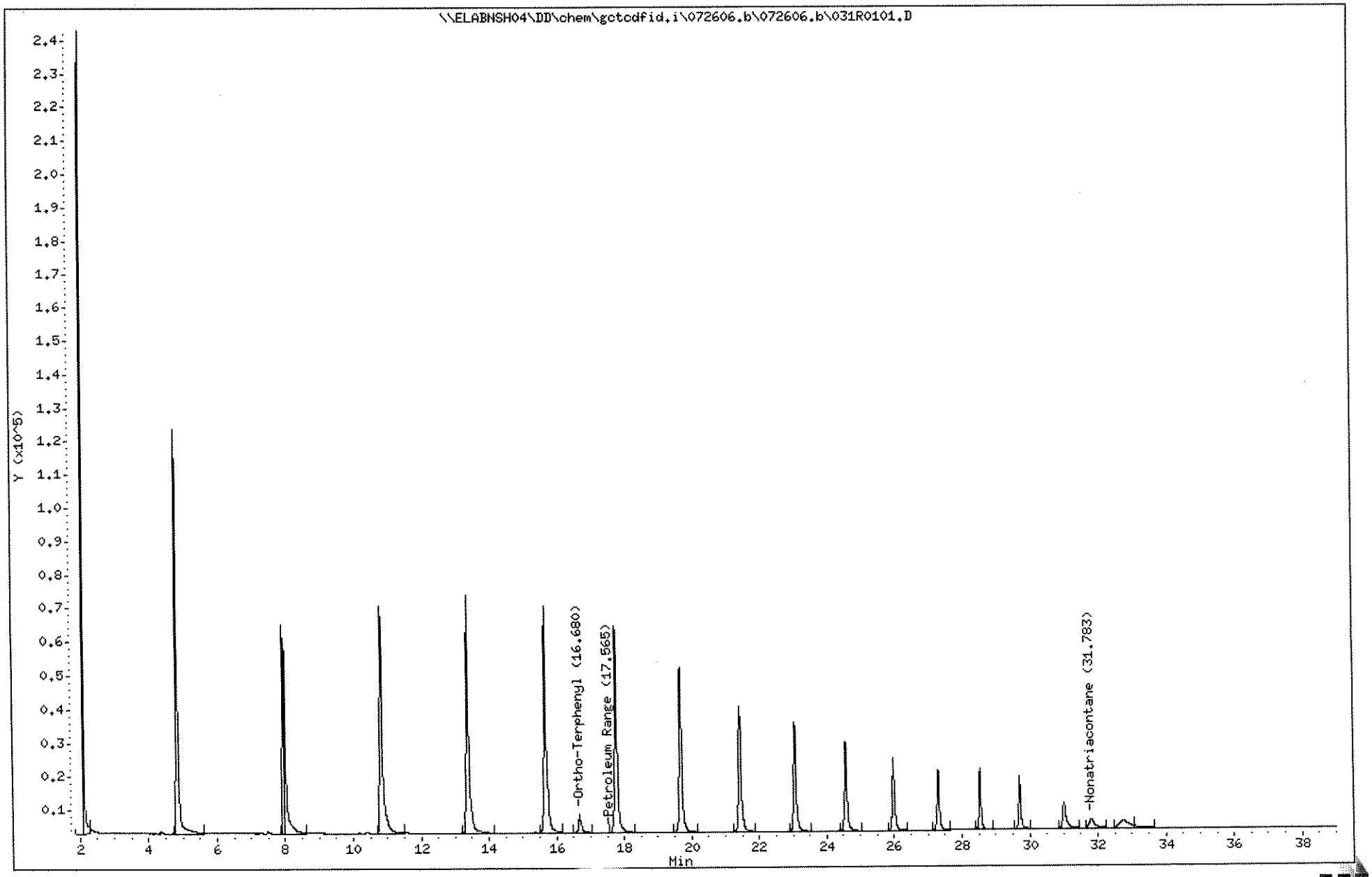
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\031R0101.D
Date : 27-JUL-2006 12:17
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000124



Empirical Laboratories

Amb072806
J.H. 7.28.06

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\031R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 12:17
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 28-Jul-2006 09:29 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	ON-COL (mg/L)
	2 Ortho-Terphenyl	16.680	16.660	0.020	32638	25.0000	24.31
S	27 >C8-C10	2.156-4.924			429246	250.000	256.4
S	28 >C10-C12	4.924-8.060			409343	250.000	278.1
S	29 >C12-C16	8.060-13.512			740081	500.000	580.6
S	30 >C16-C22	13.512-19.816			915188	750.000	1028
S	31 >C22-C36	19.816-29.892			853015	1750.00	2095 (M)
$	23 Nonatriacontane	31.783	31.796	-0.013	31528	150.000	134.2

QC Flag Legend

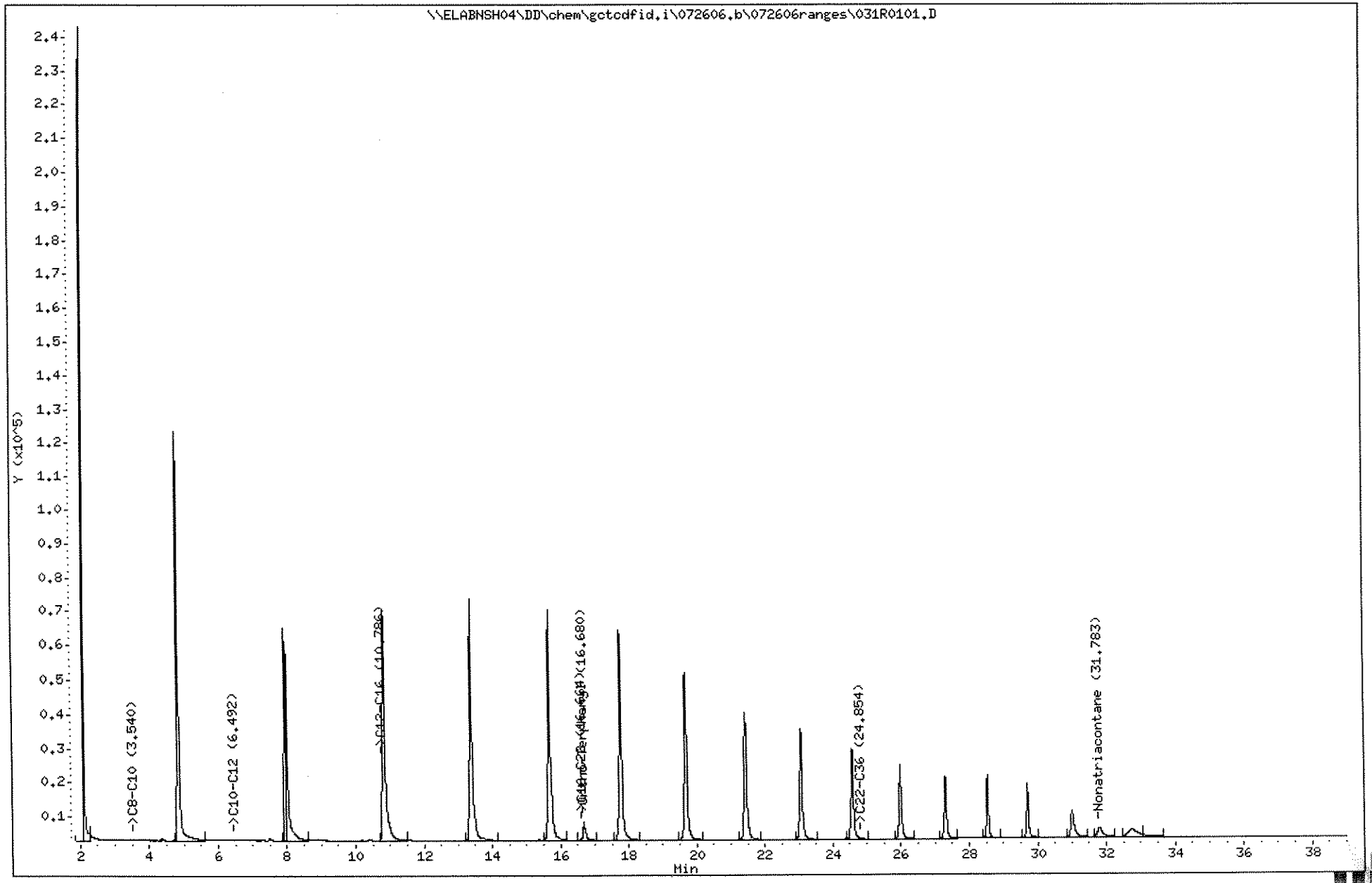
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\031R0101.D
Date : 27-JUL-2006 12:17
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000126



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J.H. 7.28.06

Amb 072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\042R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 20:52
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 28-Jul-2006 09:28 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
S 1 Petroleum Range	2.069-33.060			3821849	4250.00	4953 (M)
$ 2 Ortho-Terphenyl	16.683	16.660	0.023	30545	25.0000	22.75
$ 23 Nonatriacontane	31.800	31.796	0.004	35253	150.000	150.0

QC Flag Legend

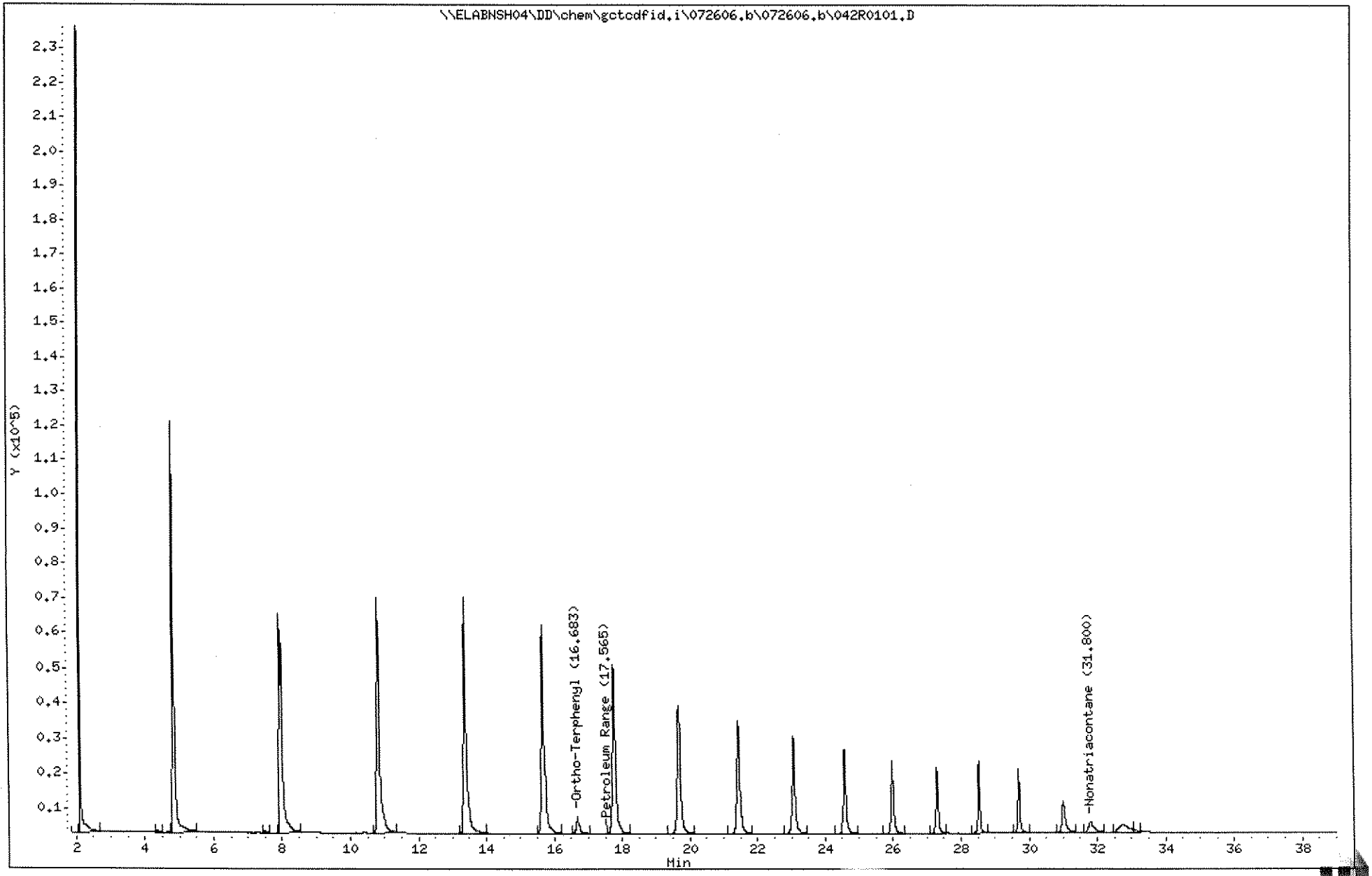
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\042R0101.D
Date : 27-JUL-2006 20:52
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000128



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J.H. 7.28.06

Amb072806

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\042R0101.D
Lab Smp Id: FLPRO 4250ppm
Inj Date : 27-JUL-2006 20:52
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FLPRO 4250ppm
Misc Info : ;;;;;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 28-Jul-2006 09:32 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

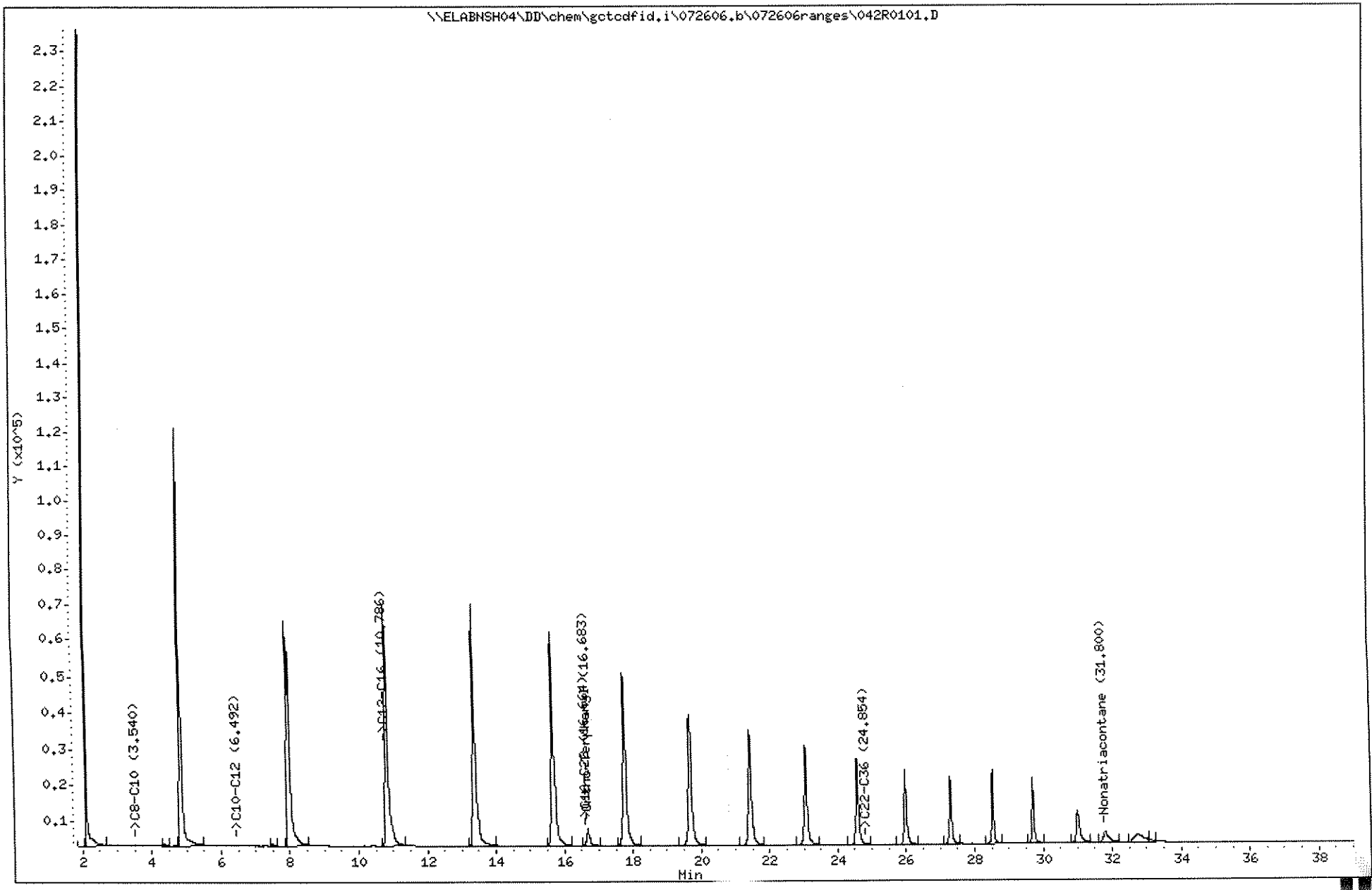
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$	2 Ortho-Terphenyl	16.683	16.660	0.023	30545	25.0000	22.75
S	27 >C8-C10	2.156-4.924			424429	250.000	253.5
S	28 >C10-C12	4.924-8.060			408155	250.000	277.3
S	29 >C12-C16	8.060-13.512			766169	500.000	601.1
S	30 >C16-C22	13.512-19.816			903759	750.000	1015
S	31 >C22-C36	19.816-29.892			839261	1750.00	2061
$	23 Nonatriacontane	31.800	31.796	0.004	35253	150.000	150.0

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\042R0101.D
Date : 27-JUL-2006 20:52
Client ID:
Sample Info: FLPRO 4250ppm
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000130



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0726

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 029R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 10:44

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17		U

Empirical Laboratories

Data File: 029R0101.D
Report Date: 27-Jul-2006 13:37

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J.H. 7.28.06

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\029R0101.D
Lab Smp Id: FW1BLK0726 Client Smp ID: FW1BLK0726
Inj Date : 27-JUL-2006 10:44
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FW1BLK0726
Misc Info : CH2.F07211;1000;2;072606FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 Ortho-Terphenyl	16.700	16.660	0.040	30027	22.3625	0.04472(M)
$ 23 Nonatriacontane	31.826	31.796	0.030	19197	81.6998	0.1634

QC Flag Legend

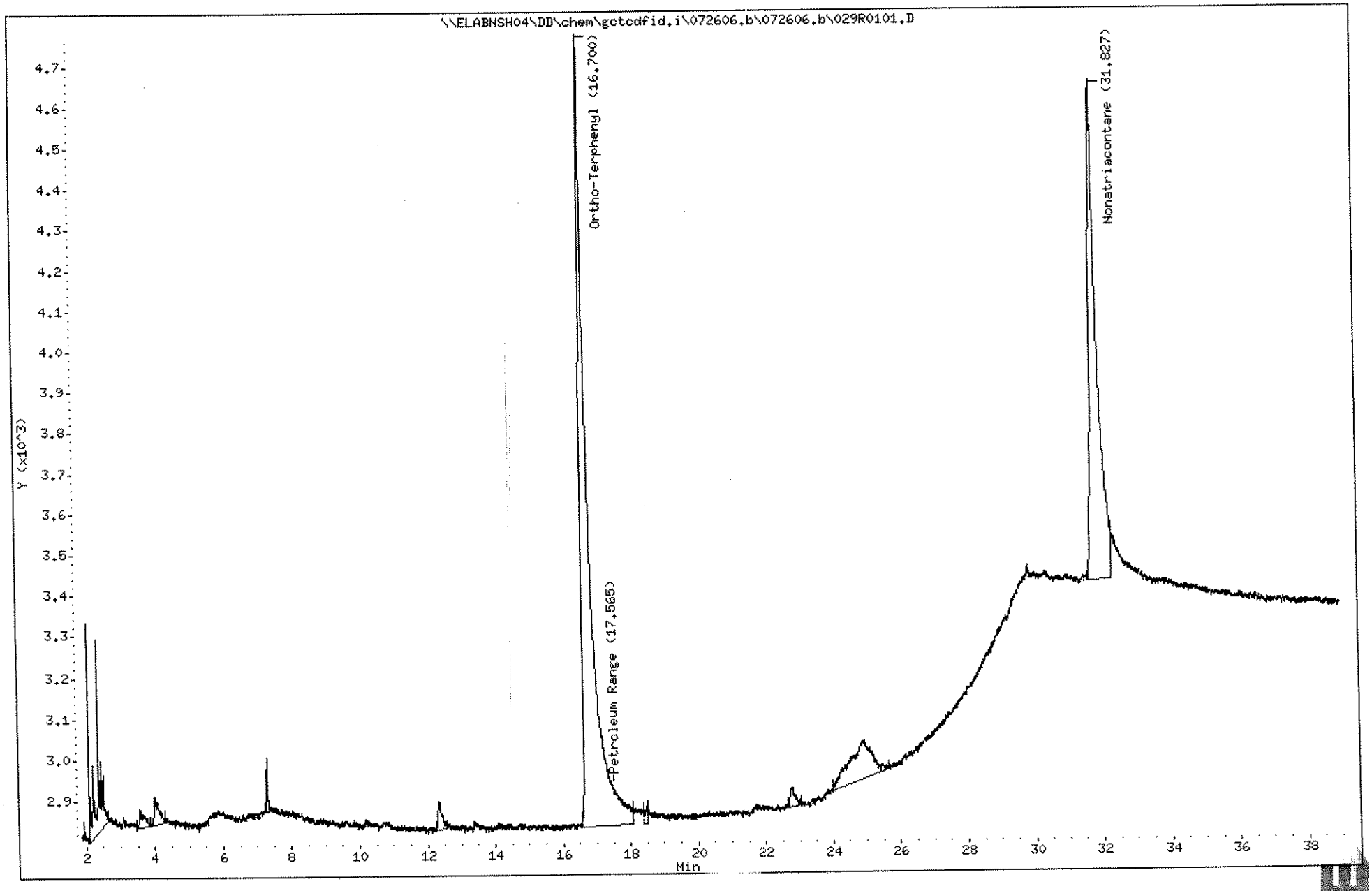
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\029R0101.D
Date : 27-JUL-2006 10:44
Client ID: FW1BLK0726
Sample Info: FW1BLK0726
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000133



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 013R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	5.3	J

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J.H. 7.28.06

Amb 072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\013R0101.D
Lab Smp Id: FS1BLK0726 Client Smp ID: FS1BLK0726
Inj Date : 26-JUL-2006 22:12
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FS1BLK0726
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			51553	66.8115	5.345 (M)
$ 2 Ortho-Terphenyl	16.680	16.660	0.020	41391	30.8258	2.466 (M)
$ 23 Nonatriacontane	31.833	31.796	0.037	43193	183.823	14.70 (M)

QC Flag Legend

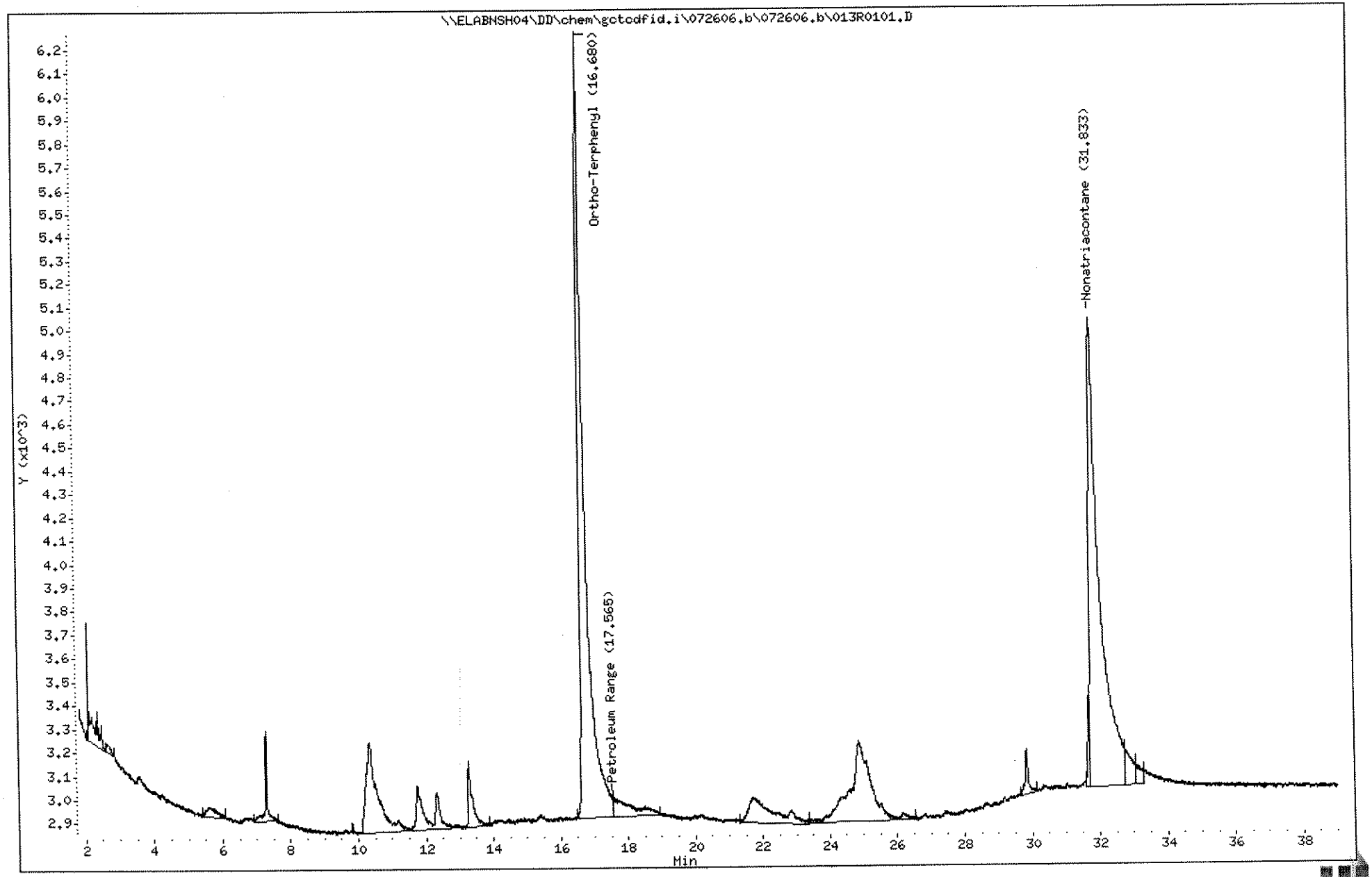
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\013R0101.D
Date : 26-JUL-2006 22:12
Client ID: FS1BLK0726
Sample Info: FS1BLK0726
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000136



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 013R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	---------->C8-C10	0.16	4.0		U
	---------->C10-C12	0.16	0.40		U
	---------->C12-C16	0.32	0.80	0.99	
	---------->C16-C22	0.48	1.2		U
	---------->C22-C36	1.1	28	4.3	J

J.H. 7-28-06
Amls 072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\013R0101.D
Lab Smp Id: FS1BLK0726 Client Smp ID: FS1BLK0726
Inj Date : 26-JUL-2006 22:12
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FS1BLK0726
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:09 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/Kg)
$ 2 Ortho-Terphenyl	16.680	16.660	0.020	41391	30.8258	2.466(M)
S 29 >C12-C16	8.060-13.512			15823	12.4133	0.9931(M)
S 31 >C22-C36	19.816-29.892			22101	54.2766	4.342(M)
$ 23 Nonatriacontane	31.833	31.796	0.037	43193	183.823	14.70(M)

QC Flag Legend

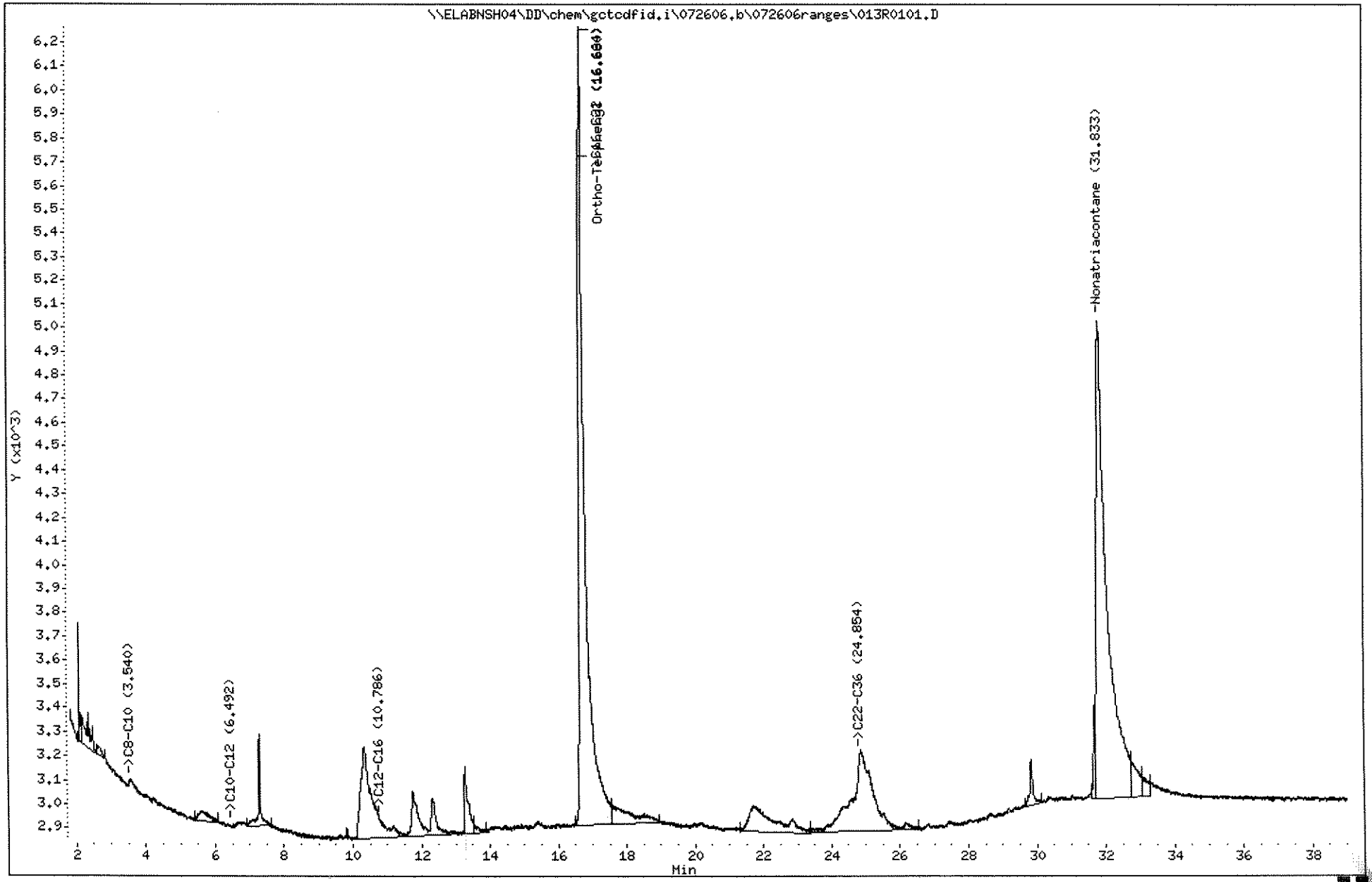
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\013R0101.D
Date : 26-JUL-2006 22:12
Client ID: FS1BLK0726
Sample Info: FS1BLK0726
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000139



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0726LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0726LCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 030R0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 11:30

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.060	0.17	3.9	

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\030R0101.D
Lab Smp Id: FW1BLK0726LCS Client Smp ID: FW1BLK0726LCS
Inj Date : 27-JUL-2006 11:30
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FW1BLK0726LCS
Misc Info : CH2.F07211;1000;2;072606FW1;mg/L;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	1000.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	2.069-33.060			1520221	1970.17	3.940(RM)
$ 2 Ortho-Terphenyl	16.683	16.660	0.023	34442	25.6505	0.05130(M)
$ 23 Nonatriacontane	31.846	31.796	0.050	24683	105.047	0.2101(M)

QC Flag Legend

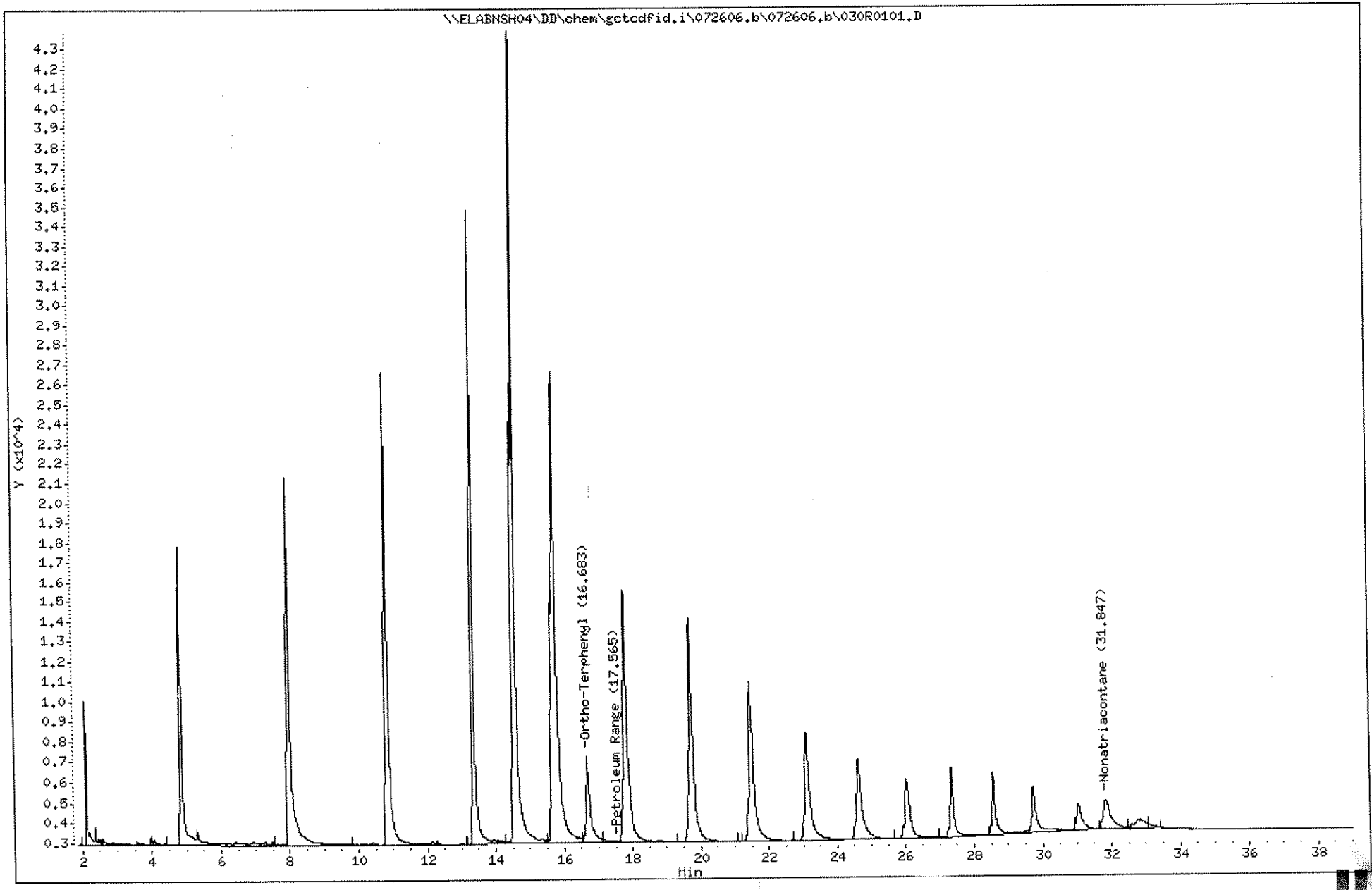
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\030R0101.D
Date : 27-JUL-2006 11:30
Client ID: FW1BLK0726LCS
Sample Info: FW1BLK0726LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000142



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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726LCS

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:58

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.4	6.8	140	

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Data File: 014R0101.D
Report Date: 27-Jul-2006 13:09

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Amb072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\014R0101.D
Lab Smp Id: FS1BLK0726LCS Client Smp ID: FS1BLK0726LCS
Inj Date : 26-JUL-2006 22:58
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FS1BLK0726LCS
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/Kg)
S 1 Petroleum Range	2.069-33.060			1308889	1696.29	135.7(M)
$ 2 Ortho-Terphenyl	16.693	16.660	0.033	34084	25.3839	2.031(M)
$ 23 Nonatriacontane	31.893	31.796	0.097	26497	112.768	9.021(M)

QC Flag Legend

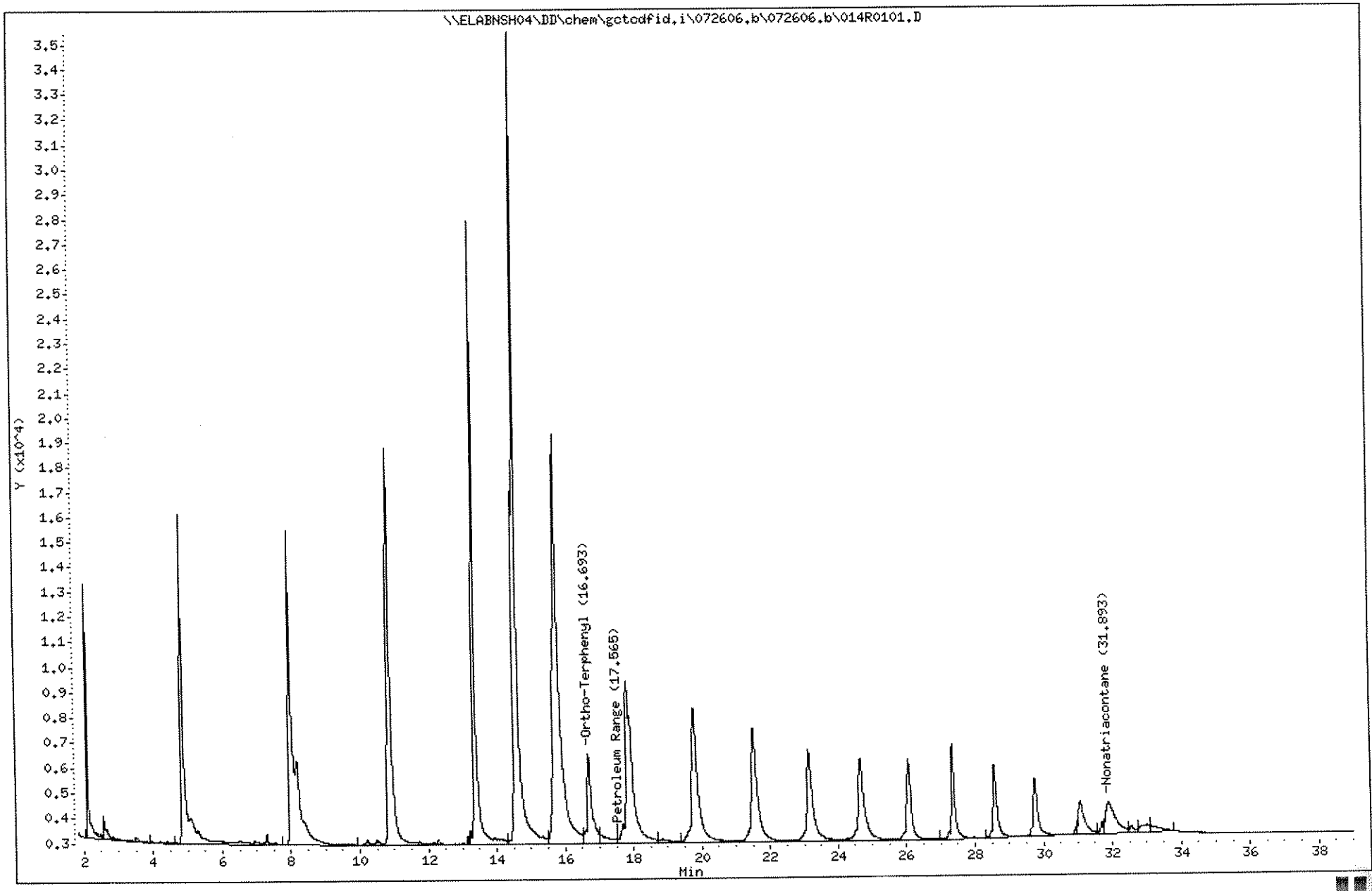
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\014R0101.D
Date : 26-JUL-2006 22:58
Client ID: FS1BLK0726LCS
Sample Info: FS1BLK0726LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000145



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0726LCS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0726LCS

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 014R0101

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/26/06 22:58

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	>C8-C10	0.16	4.0	3.4	J
	>C10-C12	0.16	0.40	5.9	
	>C12-C16	0.32	0.80	14	
	>C16-C22	0.48	1.2	50	
	>C22-C36	1.1	28	48	

J.H. 7.28.06

Anl 072806

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\014R0101.D
Lab Smp Id: FS1BLK0726LCS Client Smp ID: FS1BLK0726LCS
Inj Date : 26-JUL-2006 22:58
Operator : bfd Inst ID: gctcdfid.i
Smp Info : FS1BLK0726LCS
Misc Info : CH2.F07211;25.0;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\FLPROR.m
Meth Date : 27-Jul-2006 14:09 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flrangessurr.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.000	Sample Amount
Vi	1.000	Injection Volume
Solids	100.000	Percent Solids

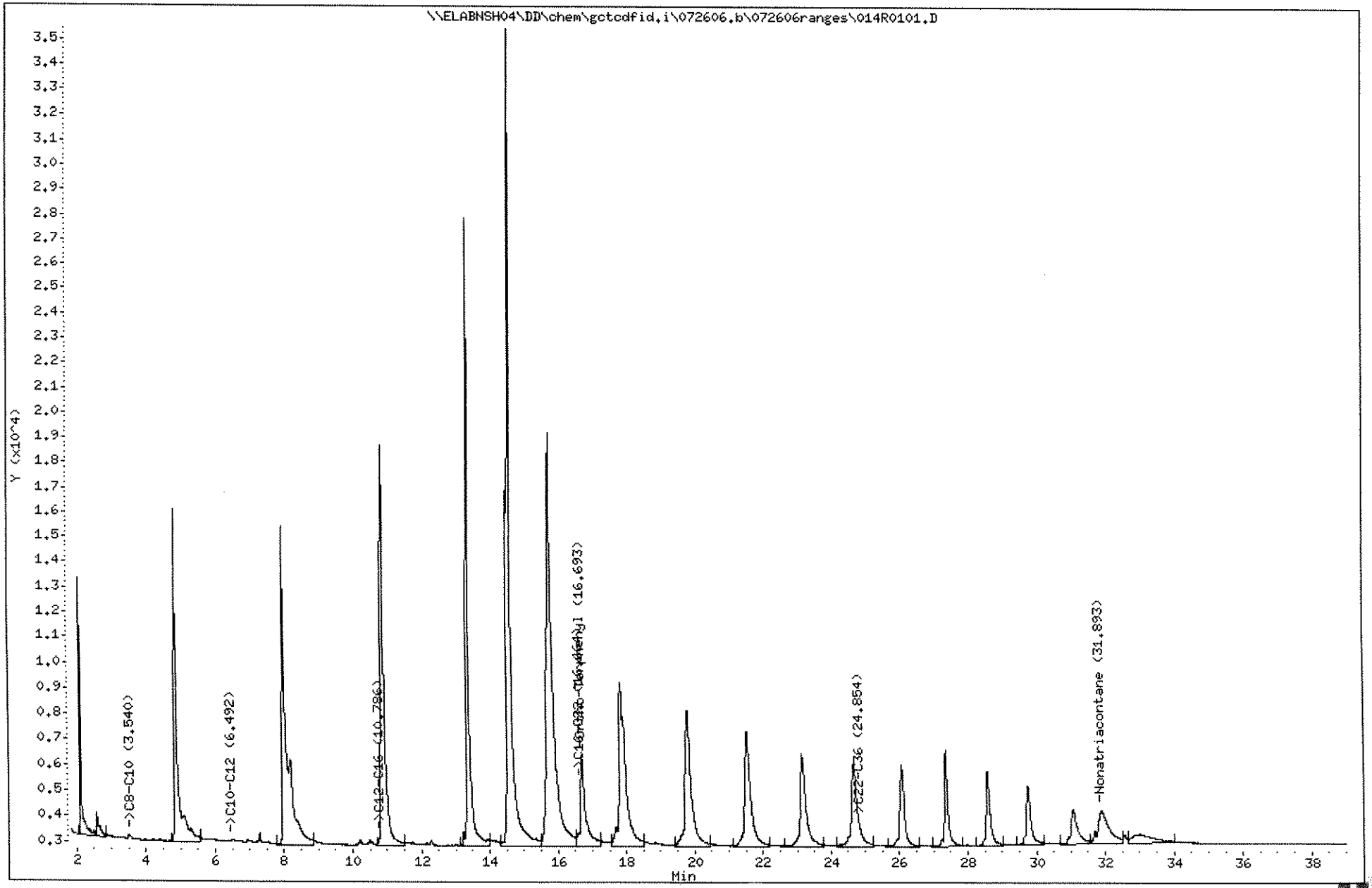
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
$	2 Ortho-Terphenyl	16.693	16.660	0.033	37828	28.1722	2.254
	27 >C8-C10	2.156-4.924			71664	42.8052	3.424
	28 >C10-C12	4.924-8.060			109363	74.3060	5.944
S	29 >C12-C16	8.060-13.512			222241	174.350	13.95
S	30 >C16-C22	13.512-19.816			557852	626.629	50.13
S	31 >C22-C36	19.816-29.892			246809	606.125	48.49
$	23 Nonatriacontane	31.893	31.796	0.097	30021	127.765	10.22

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606ranges\014R0101.D
Date : 26-JUL-2006 22:58
Client ID: FS1BLK0726LCS
Sample Info: FS1BLK0726LCS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000148



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S
060725MS

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03MS

Sample wt/vol: 25.5 (g/mL) G Lab File ID: 027R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 09:10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	300	

FORM I PRO

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J.H. 7.28.06

CMS 072706

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Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\027R0101.D
Lab Smp Id: 0607211-03MS Client Smp ID: 51CFM09S060725MS
Inj Date : 27-JUL-2006 09:10
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-03MS
Misc Info : CH2.F07211;25.5;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 27 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.500	Sample Amount
Vi	1.000	Injection Volume
Solids	95.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			2833496	3672.14	303.2(RM)
$ 2 Ortho-Terphenyl	16.666	16.660	0.006	31570	23.5116	1.941(M)
$ 23 Nonatriacontane	31.753	31.796	-0.043	28059	119.415	9.859(M)

QC Flag Legend

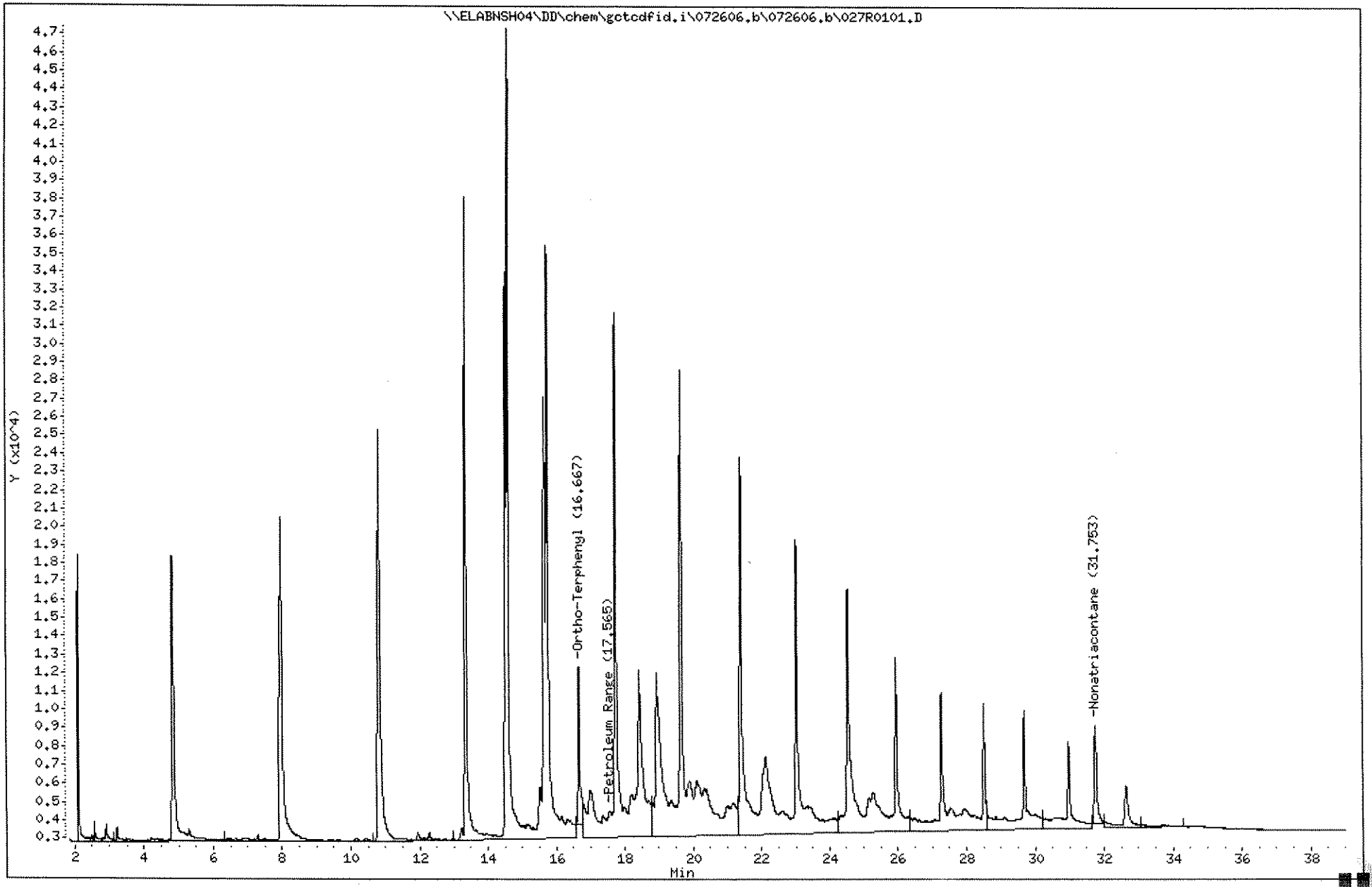
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\027R0101.D
Date : 27-JUL-2006 09:10
Client ID: 51CFM09S060725MS
Sample Info: 0607211-03MS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000151



Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51CFM09S
060725MSD

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.F07211

Matrix: (soil/water) SOIL Lab Sample ID: 0607211-03MSD

Sample wt/vol: 25.5 (g/mL) G Lab File ID: 028R0101

% Moisture: 5 decanted: (Y/N) N Date Sampled: 07/25/06 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:07/26/06

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/27/06 09:57

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	2.5	7.0	270	

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J.H. 7.28.06
Amb072704

Empirical Laboratories, LLC

Data file : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\028R0101.D
Lab Smp Id: 0607211-03MSD Client Smp ID: 51CFM09S060725MSD
Inj Date : 27-JUL-2006 09:57
Operator : bfd Inst ID: gctcdfid.i
Smp Info : 0607211-03MSD
Misc Info : CH2.F07211;25.5;2;072606FS1;mg/Kg;;
Comment :
Method : \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\FLPROR.m
Meth Date : 27-Jul-2006 13:02 abarnett Quant Type: ESTD
Cal Date : 26-JUL-2006 21:25 Cal File: 012R0101.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: NSH-ABARNETT1

Concentration Formula: Amt * DF * Uf*Vt*1/(Amt*Vi*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	2.000	Final Volume
Amt	25.500	Sample Amount
Vi	1.000	Injection Volume
Solids	95.000	Percent Solids

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kg)
S 1 Petroleum Range	2.069-33.060			2518255	3263.60	269.4 (RM)
$ 2 Ortho-Terphenyl	16.673	16.660	0.013	35914	26.7468	2.208 (M)
$ 23 Nonatriacontane	31.760	31.796	-0.036	24349	103.626	8.555 (M)

QC Flag Legend

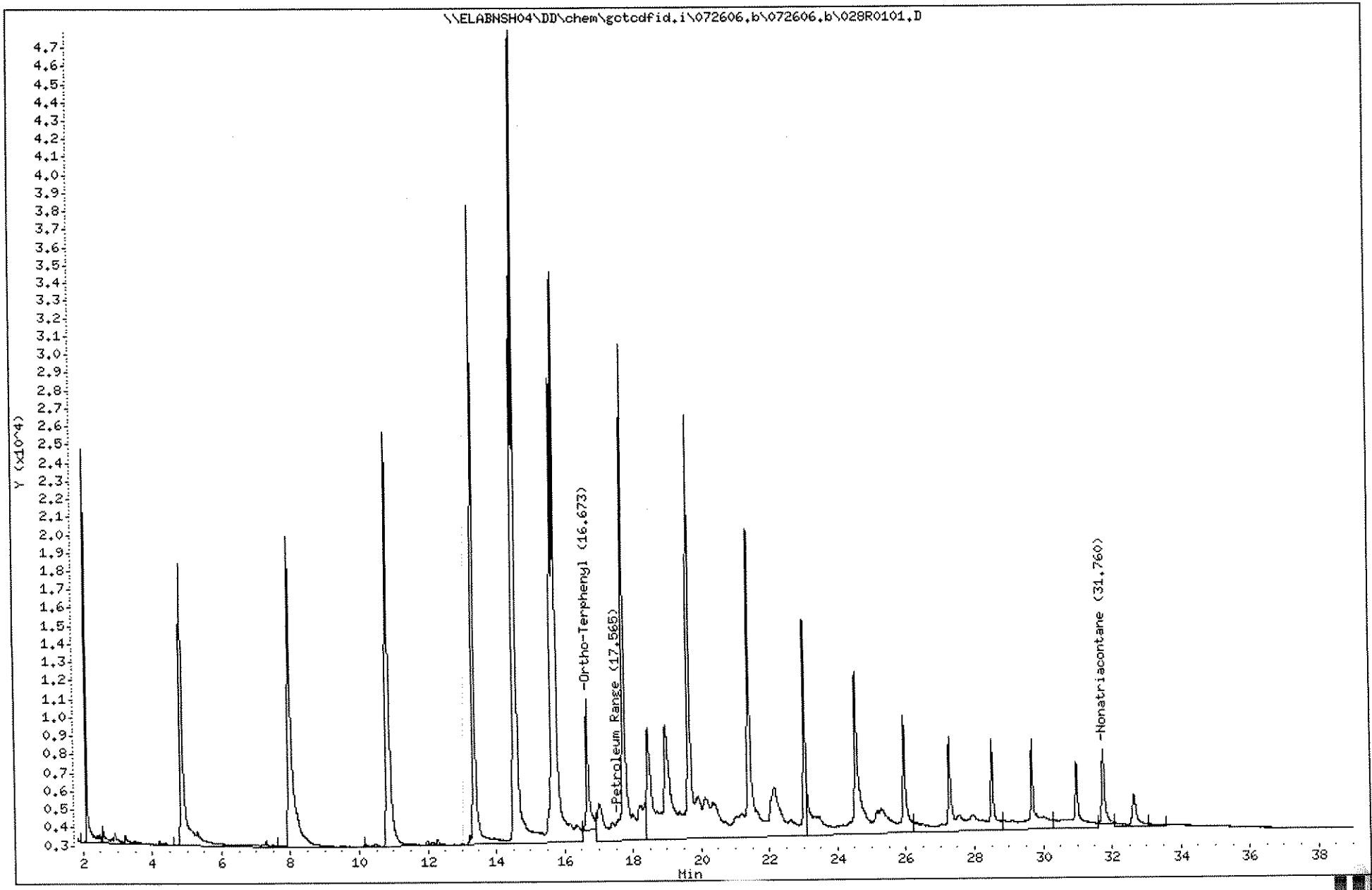
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\gctcdfid.i\072606.b\072606.b\028R0101.D
Date : 27-JUL-2006 09:57
Client ID: 51CFM09S060725MSD
Sample Info: 0607211-03MSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: gctcdfid.i

Operator: bfd
Column diameter: 0.32

000154



Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7158-1-4	PCB	10:05 am 7/25/06	TJM	11:20 am 7/25/06	TJM	Clean-up/Analysis
7166-1-4 7167-2,4	BNA			7-25-1100	ug	
7107-2-5; 7111-2,3 7114-2,4,5; 7138-2,3,5 7140-1-5,7,8	Pest/PCB	1:40 pm / 7-25-06	J.H.	4:55 PM / 7-25-06	J.H.	ANALYZE
7107-2-5; 7111-2,3 7114-2,4,5; 7138-2,3,5 7140-1-5,7,8	HERB.	1:40 PM / 7-25-06	J.H.	↓	J.H.	ANALYZE
6382-05 6404-01	Pest/PCB	1:55 PM / 7-25-06	J.H.	↓	J.H.	RE-ANALYZE
7188-2,3	Pest			7-26-06 930	ug	
7193-2,3 7195-2,3	DRO			7-26-06 1000	ug	
7152-6,7	Explosive	10:15 7/26/06	BTA	14:30 7/26/06 BTA	BTA	Dilute & Analyze
7188-2,3	Pest.	1:45 PM / 7-26-06	J.H.	15:30 7/26/06	BTA	ANALYZE
7211-1,2 7211-3-12	FPRO Straight to GC			7-26-06 230	ug	
7211-03-12; 7195 02,03 7211-01,02; 7193-02,03	PAH Straight to GCMS			7/26/06 2:30	ML	
7195-02,03 7193-02,03	PAH			7/27/06 2:55	M	
7211-1-12	F.PRO	14:30 7/26/06	BTA	15:30 7/26/06 BTA	BTA	Analyzed
7216-02,07	PAH			10:35 07/27/07	MA	
7216-02,07	DRO			10:35 07/27/07	MA	
7109-2-9	F.PRO	12:30 7/27/06	BTA	13:45 07/27/06	BTA	Re Analyze
7211-1-12	PAH			2:30 7/27/06	M	
7211-3,5,9,8,12	PAH			8:20 7/28/06	M	diluting
7220-1-23	BNA			7-28-06 1630	ug	
7237-01-04	Pest/PCB	INSERTED: 7-28-06 @ 3:30 PM J.H. Straight to GC		12:00 7/28/06	MA	ANALYZE
7237-1-4 7220-15-23	BNA	12:30 7/28/06 M	M	7:30 7/31/06	M	Analyze
7212-01-04 7213-4; 7225-01-05	EXP			1255 7/26/06	MA	

Empirical

ELAB

Fraction: EPH / PRO / DRO Matrix: Water / Soil Logbook # EX050 Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments
1	[redacted]	63504-02	06236060Fw1	MH	6	1000	2ml	2ml 9477	MH	NA	NA	—	100ml		WS	061380		45020505	R1006				060941 10:30
2	[redacted]	7622-01	07100GFW1	MH	6	1000	2ml	2ml 9477	MH	NA	NA	—				[redacted] 061380							8:00
3	↓	-02	↓	↓	↓	1000	↓	↓	↓	NA	NA	—			↓	↓							
4	[redacted]	7164-02	07176060Fw1	MH	6	970	2ml	2ml 9477	MH	NA	NA	B525			WS	060860			R1006				060941 053235 10:45
5		-03				960				NA	NA	—											
6		-04				960				NA	NA	TV35											
7		-05				1000				NA	NA	—											
8		-06				1000				NA	NA	-9-											
9		-07				920				NA	NA	R000											
10		-08				1000				NA	NA	D220											
11	↓	-09	↓	↓	↓	1000	↓	2ml 9400	↓	NA	NA	—			↓	↓		↓	↓				↓
12	[redacted]	7211-01	07206060Fw1	MH	6	960	2ml	2ml 9477	MH	NA	NA	D220			WS	062123		[redacted]	[redacted]	used Regular			053235 No backup
13	↓	-02	↓	↓	↓	1000	↓	↓	↓	NA	NA	TAP			↓	↓		↓	↓	MeCl2			10:35
14										NA	NA												
15										NA	NA												
16										NA	NA												
17										NA	NA												
18										NA	NA												
19										NA	NA												
20										NA	NA												
	m.Blank	63504-02	SAS	SAS		1000	2ml	SAS	SAS		mH	—			WS	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	LCS	↓	SAS	SAS		1000	↓	SAS	SAS	1ml 9450	↓	—				SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	m.Blank	2-3	SAS	SAS		1000	2ml	SAS	SAS		mH	÷			WS	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	LCS	↓	SAS	SAS		1000	↓	SAS	SAS	1ml 9450	↓	380			↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	m.Blank	4-11	SAS	SAS		1000	2ml	SAS	SAS		mH	GC			WS	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	LCS	↓	SAS	SAS		1000		SAS	SAS	1ml 9450		—				SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	MS	7164-03	SAS	SAS	6	940		SAS	SAS			—				SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	MSD	↓	SAS	SAS	↓	960	↓	SAS	SAS	↓	↓	—			↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	m.Blank	12-13	SAS	SAS		1000	2ml	SAS	SAS		mH	Jim			WS	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
	LCS	↓	SAS	SAS		1000	↓	SAS	SAS	1ml 9450	↓	SAP			↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS	

Note: All volumes are in milliliters and weights are in grams.

Empirical Laboratories

ELAB

Fraction: EPH / PRO / DRO Matrix: Water / Soil Logbook # EX051 Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
1	Ch2	7211-03	07260848	US		25.6	2ml	2ml 5440		NA	NA	NAP			US	061380	OS2	053235	R1006					1
2		04				25.4		1ml 5441	US	NA	NA	DRG												2
3		05	11:15			26.2				NA	NA	—												3
4		06				25.2				NA	NA	—												4
5		07				25.3				NA	NA	B9												5
6		08				25.0				NA	NA	SOD												6
7		09				25.1				NA	NA	RCL3												7
8		10				25.1				NA	NA	-6-												8
9		11				26.0				NA	NA	—												9
10		12				25.4				NA	NA	÷												10
11										NA	NA													11
12										NA	NA													12
13										NA	NA													13
14										NA	NA													14
15										NA	NA													15
16										NA	NA													16
17										NA	NA													17
18										NA	NA													18
19										NA	NA													19
20										NA	NA													20
	MBlank	1-10	SAS	SAS		—	2ml	SAS	SAS			DIE			US	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCS	"	SAS	SAS		—		SAS	SAS	1ml 5150	US	DAP				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MS	7211-3	SAS	SAS		25.5		SAS	SAS			EAP				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MSD	"	SAS	SAS		25.5		SAS	SAS			BAP				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

from log 10

000157

Note: All volumes are in milliliters and weights are in grams.

GCICPFLD/FLEX/072606/FLPRO

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NAME SeqFileMacro
DELSEQUENCE
VERSION 3
SETPARAMS "bfd", "", 0, 0, 1
SETDATAPATH "072606"
SETMETHODPATH
SETPRESEQ ""
SETPOSTSEQ ""
SETCOMMENT
SETNAMEMODE 1
SETSIG1FLEX "SIG1", "0001"
SETSIG2FLEX "SIG2", "0001"
SETSEQLINE 1,1,"",-1,-1,-1,-1
SETSEQLINE 2,1,"FLPROR",2,50,1,-1
DELSAMPLE 1,100
SETSAMPLE 1,"MeCl2",,,
SETSAMPLE 2,"FLPRO 85ppm",,,
SETINFO 2
SETINFO 2,";;;;;;\"
SETSAMPLE 3,"FLPRO 4250ppm",,,
SETINFO 3
SETINFO 3,";;;;;;\"
SETSAMPLE 4,"FS1BLK0726",,,
SETINFO 4
SETINFO 4,"CH2.F07211;25.0;2;072606FS1;mg/Kg;;\"
SETSAMPLE 5,"FLPRO 8500ppm",,,
SETINFO 5
SETINFO 5,";;;;;;\"
SETSAMPLE 6,"FLPRO 5950ppm",,,
SETINFO 6
SETINFO 6,";;;;;;\"
SETSAMPLE 7,"FLPRO 4250ppm",,,
SETINFO 7
SETINFO 7,";;;;;;\"
SETSAMPLE 8,"FLPRO 2550ppm",,,
SETINFO 8
SETINFO 8,";;;;;;\"
SETSAMPLE 9,"FLPRO 850ppm",,,
SETINFO 9
SETINFO 9,";;;;;;\"
SETSAMPLE 10,"FLPRO 85ppm",,,
SETINFO 10
SETINFO 10,";;;;;;\"
SETSAMPLE 11,"FLPRO ICV 4000",,,
SETINFO 11
SETINFO 11,";;;;;;range.sub\"
SETSAMPLE 12,"FLPRO 4250ppm",,,
SETINFO 12
SETINFO 12,";;;;;;\"
SETSAMPLE 13,"FS1BLK0726",,,
SETINFO 13
SETINFO 13,"CH2.F07211;25.0;2;072606FS1;mg/Kg;;\"
SETSAMPLE 14,"FS1BLK0726LCS",,,
SETINFO 14
SETINFO 14,"CH2.F07211;25.0;2;072606FS1;mg/Kg;;\"
SETSAMPLE 15,"0607211-03",,,
SETINFO 15
```

ID# 5633A

ID# 5633B

ID# 5633F

E

D

C

B

A

ID# 5634

ID# 5633D

7211-03 X1

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Amy Barnett 072806

GUCPRO / FLDR/UT2606/FLPRO

```
SETINFO 15,"CH2.F07211;25.6;2;072606FS1;mg/Kg;;\"
SETSAMPLE 16,"0607211-04",,,
SETINFO 16
SETINFO 16,"CH2.F07211;25.4;2;072606FS1;mg/Kg;;\"
SETSAMPLE 17,"0607211-05",,,
SETINFO 17
SETINFO 17,"CH2.F07211;25.2;2;072606FS1;mg/Kg;;\"
SETSAMPLE 18,"0607211-06",,,
SETINFO 18
SETINFO 18,"CH2.F07211;25.2;2;072606FS1;mg/Kg;;\"
SETSAMPLE 19,"0607211-07",,,
SETINFO 19
SETINFO 19,"CH2.F07211;25.3;2;072606FS1;mg/Kg;;\"
SETSAMPLE 20,"0607211-08",,,
SETINFO 20
SETINFO 20,"CH2.F07211;25.0;2;072606FS1;mg/Kg;;\"
SETSAMPLE 21,"0607211-09",,,
SETINFO 21
SETINFO 21,"CH2.F07211;25.1;2;072606FS1;mg/Kg;;\"
SETSAMPLE 22,"0607211-10",,,
SETINFO 22
SETINFO 22,"CH2.F07211;25.1;2;072606FS1;mg/Kg;;\"
SETSAMPLE 23,"FLPRO 4250ppm",,,
SETINFO 23
SETINFO 23,";;;;;;\"
SETSAMPLE 24,"0607211-11",,,
SETINFO 24
SETINFO 24,"CH2.F07211;25.0;2;072606FS1;mg/Kg;;\"
SETSAMPLE 25,"0607211-12",,,
SETINFO 25
SETINFO 25,"CH2.F07211;25.4;2;072606FS1;mg/Kg;;\"
SETSAMPLE 26,"FLPRO 4250ppm",,,
SETINFO 26
SETINFO 26,";;;;;;\"
SETSAMPLE 27,"0607211-03;MS",,,
SETINFO 27
SETINFO 27,"CH2.F07211;25.5;2;072606FS1;mg/Kg;;\"
SETSAMPLE 28,"0607211-03;MSD",,,
SETINFO 28
SETINFO 28,"CH2.F07211;25.5;2;072606FS1;mg/Kg;;\"
SETSAMPLE 29,"FW1BLK0726",,,
SETINFO 29
SETINFO 29,"CH2.F07211;1000;2;072606FW1;mg/L;;\"
SETSAMPLE 30,"FW1BLK0726LCS",,,
SETINFO 30
SETINFO 30,"CH2.F07211;1000;2;072606FW1;mg/L;;\"
SETSAMPLE 31,"FLPRO 4250ppm",,,
SETINFO 31
SETINFO 31,";;;;;;\"
SETSAMPLE 32,"0607211-01",,,
SETINFO 32
SETINFO 32,"CH2.F07211;980;2;072606FW1;mg/L;;\"
SETSAMPLE 33,"0607211-02",,,
SETINFO 33
SETINFO 33,"CH2.F07211;1000;2;072606FW1;mg/L;;\"
SETSAMPLE 34,"0607211-05;x5",,,
SETINFO 34
```

x1

x1

x1

7211-01,02

x1

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Amy Barnett
072806

GLTCDEID/FIDR/072606/FLPRO

```
SETINFO 34,"CH2.F07211;25.2;2;072606FS1;mg/Kg;;\"
SETSAMPLE 34,"0607211-09;x10",,,
SETINFO 35
SETINFO 35,"CH2.F07211;25.1;2;072606FS1;mg/Kg;;\"
SETSAMPLE 36,"0607211-12",,,
SETINFO 36
SETINFO 36,"CH2.F07211;25.4;2;072606FS1;mg/Kg;;\"
SETSAMPLE 37,"FW1BLK0717",,,
SETINFO 37
SETINFO 37,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 38,"FW1BLK0717LCS",,,
SETINFO 38
SETINFO 38,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 39,"0607109-02",,,
SETINFO 39
SETINFO 39,"R037011;970;2;071706FW1;mg/L;;\"
SETSAMPLE 40,"0607109-03",,,
SETINFO 40
SETINFO 40,"R037011;960;2;071706FW1;mg/L;;\"
SETSAMPLE 41,"0607109-03;MS",,,
SETINFO 41
SETINFO 41,"R037011;940;2;071706FW1;mg/L;;\"
SETSAMPLE 42,"FLPRO 4250ppm",,,
SETINFO 42
SETINFO 42,";;;;;;\"
SETSAMPLE 43,"0607109-03;MSD",,,
SETINFO 43
SETINFO 43,"R037011;980;2;071706FW1;mg/L;;\"
SETSAMPLE 44,"0607109-04",,,
SETINFO 44
SETINFO 44,"R037011;960;2;071706FW1;mg/L;;\"
SETSAMPLE 45,"0607109-05",,,
SETINFO 45
SETINFO 45,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 46,"0607109-06",,,
SETINFO 46
SETINFO 46,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 47,"0607109-07",,,
SETINFO 47
SETINFO 47,"R037011;920;2;071706FW1;mg/L;;\"
SETSAMPLE 48,"0607109-08",,,
SETINFO 48
SETINFO 48,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 49,"0607109-09",,,
SETINFO 49
SETINFO 49,"R037011;1000;2;071706FW1;mg/L;;\"
SETSAMPLE 50,"FLPRO 4250ppm",,,
SETINFO 50
SETINFO 50,";;;;;;\"
RETURN
```

x1

7109-02709

x1

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Amy Barnett
072806

Empirical Laboratories

Empirical Laboratories

%SOLIDS

Client(s): ch2mhill

Empirical Laboratories

Date on: 7/26/06
Time on: 11:23

Analyst: bt
Method #: 2540
Method Type: Gravimetric

Date off: 7/27/06
Time off: 7:40

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	7211-3		ch2mhill	1.2455	5.8097	6.7669	95.0			
2	Sample	7211-4		ch2mhill	1.2324	5.6389	6.4434	92.4			
3	Sample	7211-5		ch2mhill	1.2439	5.4046	6.3570	94.6			
4	Sample	7211-6		ch2mhill	1.2344	6.2955	7.1165	93.4			
5	Sample	7211-7		ch2mhill	1.2455	5.9135	6.4426	87.9			
6	Sample	7211-8		ch2mhill	1.2382	5.7199	6.5997	93.7			
7	Sample	7211-9		ch2mhill	1.2368	5.5015	6.1410	89.1			
8	Sample	7211-10		ch2mhill	1.2372	5.7026	6.4968	92.2			
9	Sample	7211-11		ch2mhill	1.2412	5.7732	6.4933	91.0			
10	Sample	7211-12		ch2mhill	1.2412	5.6467	6.5758	94.5			
11	Sample										
12	Sample										
13	Sample										
14	Sample										
15	Sample										
16	Sample										
17	Sample										
18	Sample										
19	Sample										
20	Sample										
21	Duplicate	7211-12		ch2mhill	1.2424	5.6780	6.5768	93.9	0.6	+/-20%	

072606.xls

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: 0607023-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702301T

Level: (low/med) LOW Date Sampled: 07/06/06 15:20

% Moisture: not dec. _____ Date Analyzed: 07/11/06 12:25

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
71-43-2	Benzene	0.010	0.50	<0.010	U
78-93-3	2-Butanone	0.10	200	<0.10	U
56-23-5	Carbon tetrachloride	0.010	0.50	<0.010	U
108-90-7	Chlorobenzene	0.010	100	<0.010	U
67-66-3	Chloroform	0.010	6.0	<0.010	U
106-46-7	1,4-Dichlorobenzene	0.010	7.5	<0.010	U
107-06-2	1,2-Dichloroethane	0.010	0.50	<0.010	U
75-35-4	1,1-Dichloroethene	0.010	0.70	<0.010	U
127-18-4	Tetrachloroethene	0.010	0.70	<0.010	U
79-01-6	Trichloroethene	0.010	0.50	<0.010	U
75-01-4	Vinyl chloride	0.020	0.20	<0.020	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: 0607023-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702302

Level: (low/med) LOW Date Sampled: 07/06/06 :

% Moisture: not dec. _____ Date Analyzed: 07/10/06 22:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
78-93-3	2-Butanone	0.94	10		U
56-23-5	Carbon tetrachloride	0.26	1.0		U
108-90-7	Chlorobenzene	0.31	1.0		U
67-66-3	Chloroform	0.21	1.0		U
106-46-7	1,4-Dichlorobenzene	0.35	1.0		U
107-06-2	1,2-Dichloroethane	0.20	1.0		U
75-35-4	1,1-Dichloroethene	0.25	1.0		U
127-18-4	Tetrachloroethene	0.30	1.0		U
79-01-6	Trichloroethene	0.27	1.0		U
75-01-4	Vinyl chloride	0.36	2.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 0702301

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 07/13/06 11:05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
121-14-2	2,4-Dinitrotoluene	0.050	0.13	<0.050	U
118-74-1	Hexachlorobenzene	0.050	0.13	<0.050	U
87-68-3	Hexachlorobutadiene	0.050	0.50	<0.050	U
67-72-1	Hexachloroethane	0.050	3.0	<0.050	U
106-44-5	4-Methylphenol	0.050	200	<0.050	U
95-48-7	2-Methylphenol	0.050	200	<0.050	U
98-95-3	Nitrobenzene	0.050	2.0	<0.050	U
87-86-5	Pentachlorophenol	0.20	100	<0.20	U
110-86-1	Pyridine	0.20	5.0	<0.20	U
95-95-4	2,4,5-Trichlorophenol	0.050	400	<0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	2.0	<0.050	U

FORM 1
PESTA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 054F5401

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/13/06 13:55

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
12789-03-6	Chlordane	0.00050	0.030	<0.00050	U
72-20-8	Endrin	0.00010	0.020	<0.00010	U
58-89-9	Gamma-BHC	0.00010	0.40	<0.00010	U
76-44-8	Heptachlor	0.00010	0.0080	<0.00010	U
1024-57-3	Heptachlor Epoxide	0.00010	0.0080	<0.00010	U
72-43-5	Methoxychlor	0.00010	10	<0.00010	UJ-C
8001-35-2	Toxaphene	0.010	0.50	<0.010	U

C-1

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 026F0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/12/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/14/06 14:58

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
94-75-7	2,4-D	0.0050	10	<0.0050	U J-C
93-72-1	2,4,5-TP (Silvex)	0.0010	1.0	<0.0010	U J-C

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) SOIL Lab Sample ID: 0607023-01

Sample wt/vol: 15.4 (g/mL) G Lab File ID: 014F1401

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:07/11/06

Concentrated Extract Volume: 5.0(mL) Date Analyzed: 07/12/06 22:00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
12674-11-2	PCB-1016	4.2	17		U
11104-28-2	PCB-1221	4.2	17		U
11141-16-5	PCB-1232	4.2	17		U
53469-21-9	PCB-1242	4.2	17		U
12672-29-6	PCB-1248	4.2	17		U
11097-69-1	PCB-1254	4.2	17		U
11096-82-5	PCB-1260	4.2	17		U

USEPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

51WC1S060706

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Matrix (soil/water): WATER Lab Sample ID: 0607023-01

Level (low/med): LOW Date Received: 7/8/06

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	30.0	U		P
7440-39-3	Barium	50.0	U		P
7440-43-9	Cadmium	10.0	U		P
7440-47-3	Chromium	20.0	U		P
7439-92-1	Lead	15.0	U		P
7439-97-6	Mercury	0.80	U		AV
7782-49-2	Selenium	30.0	U		P
7440-22-4	Silver	10.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: Initial pH = 9.6 Final pH = 6.4
BLD 7/14/06

Empirical Laboratories

Empirical Laboratories

CLIENT: CH2M Hill , Inc.
DATE RECEIVED: 07/08/06
DATE REPORTED: 07/14/06

EMPIRICAL LABORATORIES SAMPLE NUMBER					0607023-01
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE					51WC1S060706 7/6/06 3:20:00 PM
ANALYTES	REGULATORY LIMITS	REPORTING LIMITS	USEPA METHOD	UNITS	CONC
% Solids	NA	1.0	2540**	%	96
Ignitability	<140	NA	1010	°F	>158
pH- Laboratory (1)	<2/>12.5	NA	9045B	Units	9.6 @ 17.6°C

See attached page for definition of terms and qualifiers.

EMPIRICAL LABORATORIES

Betty DeVille for

D. Rick Davis
Vice President

Empirical Laboratories

CH2M Hill Constructors, Inc.
[illegible]meter Center Place, Suite 700
[illegible], GA 30346-1278
Phone (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 90 777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (Calendar days)	ANALYSES REQUIRED (Include) BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C, TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a, Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	10 51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J, 10, 11 - UNPRES	Grab		
03	11 51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
03	12 51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11	13 51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7023-01	14 51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M, 11 - UNPRES	Composite		
7022-12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J - HCl PH<2			
7023-02	TB-2-060706	↓	W	↓				2			↓			

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

Jeff Marks
CH2M HILL Constructors, Inc.

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	BGO

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

3.0

00005

ANALYTICAL REPORT

MAIN DATA PACKAGE - ORGANIC

CH2M Hill, Inc.

WO #0607023

Empirical Laboratories, LLC

Marcia K. McGinnity
Senior Project Manager

July 21, 2006

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WO #0607023

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ORGANIC CASE NARRATIVE
CH2M Hill, Inc.
Work Order: 0607023

Volatile TCLP Samples

Method: The samples were analyzed by USEPA SW-846 Methods 1311/5030B/8260B or 5030B/8260B (zero headspace extraction followed by 5ml purge and trap followed by capillary column GC/MS or purge and trap followed by capillary column GC/MS) for soils or trip blanks upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Calibration Criteria: All method calibration criteria were met.
- BFB Tuning: All method tuning criteria were met.
- Blank Results: No target analytes were detected in the method blank or trip blank.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- LCS Results: All recoveries were within limits.
- MS Results: All recoveries were within limits.
- Dilutions: All TCLP samples were analyzed using 0.5mL of the TCLP extract while meeting the TCLP regulatory limits.

Semi-Volatile TCLP Samples

Method: The samples were analyzed by USEPA SW-846 Methods 1311/3510C/8270C (TCLP leaching followed by separatory funnel extraction then capillary column GC/MS) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The semi-volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exception:

- Calibration Criteria: All method calibration criteria were met.
- DFTPP Tuning: All method tuning criteria were met.
- Blank Results: No target analytes were detected in the method blank.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- Internal Standard Area Counts: All internal standard area counts were within limits.
- LCS Results: All recoveries were within limits.
- MS Results: All recoveries were within limits.
- Dilutions: All TCLP samples were extracted using 100mL of the TCLP extract while meeting the TCLP regulatory limits.

Pesticide TCLP Samples

Method: The samples were analyzed by USEPA SW-846 Methods 1311/3510C/8081A (TCLP leaching then separatory funnel extraction followed by capillary column GC/ECD) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Performance Evaluation Mix: All method criteria were met.
- Initial Calibration Criteria: All method criteria were met. The multi-component analytes toxaphene and chlordane are calibrated using a single point. No further calibration was required, as they were not detected in the samples.
- Continuing Calibration Criteria: All method criteria were met for the target analytes with the exception of methoxychlor which exceeded the limit of 20% on the high side at 33.3% in the ending calibration verification for the RTX-CLP column. It was not detected in the associated samples. The surrogate DCB exceeded the limit on the high side in the ending calibration verifications at 24.3%/20.5%. Surrogate recoveries were evaluated and determined not to have been biased into control by the exceedences.
- Blank Results: No target analytes were detected in the blank.
- Surrogate Recoveries: All surrogate recoveries were within limits.
- LCS Results: All recoveries were within limits.
- MS Results: Not applicable.
- Dilutions: All TCLP samples were extracted using 100mL of the TCLP extract while meeting the TCLP regulatory limits.

Herbicide TCLP Samples

Method: The samples were analyzed by USEPA SW-846 Methods 1311/8151 (TCLP leaching then separatory funnel extraction followed by esterification and capillary column GC/ECD) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Note: RTX-CLP column results are the only results reported as no target analytes were detected in the sample on this column.
- Initial Calibration Criteria: All method criteria were met.
- Continuing Calibration Criteria: Some issues were noted with the continuing calibration verification standards (CCVs). DCAA exceeded on the high side in the beginning and middle CCV at 42% and 52.5% on the high side – recoveries were evaluated and determined not to have been biased into control. Analytes 2,4-D and 2,4,5-TP (Silvex) exceeded limits on the high side in the beginning/middle/ending CCVs at 81.1%/104.4%/(16.9%) and 53.8%/78.1%/41.4%, respectively. No target analytes were detected in the associated sample and spike recoveries were evaluated as not having been

biased into control by the exceedences.

- Blank Results: No target analytes were detected in the blank.
- Surrogate Recoveries: All recoveries were within limits
- LCS Results: All recoveries were within limits.
- MS Results: Not applicable.
- Dilutions: All TCLP samples were extracted using 100mL of the TCLP extract while meeting the TCLP regulatory limits.

PCB Soil Samples

Method: The samples were analyzed by USEPA SW-846 Methods 3541/8082 (automated soxhlet extraction followed by capillary column GC/ECD) for soils upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Initial Calibration Criteria: All method criteria were met.
- Continuing Calibration Criteria: All method criteria were met.
- Blank Results: No target analytes were detected in the blank.
- Surrogate Recoveries: All recoveries were within limits
- LCS Results: All recoveries were within limits.
- MS Results: Not applicable.
- Dilutions: All samples were analyzed without dilution.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. ELAB defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

P: The associated numerical value is an estimated quantity. The relative percent difference between the two GC/HPLC column concentrations is greater than 40. The higher of the two values is reported for GC unless matrix interference is apparent. The primary column results are reported for HPLC unless matrix interference is apparent.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

Empirical Laboratories

CH2M Hill Constructors, Inc.
[redacted]meter Center Place, Suite 700
[redacted]GA 30346-1278
[redacted]770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 346570-001 (2 of 2)

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C; TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A; TCLP Herbicides by 1311/8151A; PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J, 10, 11 – UNPRES	Grab		
03 11	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1		↓	Grab		
03 12	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
11 13	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7023-01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M, 1K-UNPRES	Composite		
											↓			
7022-12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCl PRES			
7023-02	TB-2-060706	↓	W	↓				2			↓			

COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

Jeff Marks
CH2M HILL Constructors, Inc.

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	Printed Name and Signature: FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature: GARY FORSYTHE	7-8-06	BGO

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

00005

3.0

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607023 COC ID(s): 346570-001

Client CH2M H.11 Project NAVSTA Mayport

Sample Custodian Andy Barto Today's Date 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number Fx
Cooler Opened: Date 7-8

Chain of custody seals intact?	(Yes)	No
Chain of custody provided?	(Yes)	No
Sample labels present?	(Yes)	No
Bottle labels correspond w/COC	(Yes)	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 7-7

Type of coolant used ICE

Coolant condition: Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 3.0

Condition of Bottles in Shipment: Broken Leaking (Intact) Missing

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: 0607023-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702301T

Level: (low/med) LOW Date Sampled: 07/06/06 15:20

% Moisture: not dec. _____ Date Analyzed: 07/11/06 12:25

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
71-43-2	Benzene	0.010	0.50	<0.010	U
78-93-3	2-Butanone	0.10	200	<0.10	U
56-23-5	Carbon tetrachloride	0.010	0.50	<0.010	U
108-90-7	Chlorobenzene	0.010	100	<0.010	U
67-66-3	Chloroform	0.010	6.0	<0.010	U
106-46-7	1,4-Dichlorobenzene	0.010	7.5	<0.010	U
107-06-2	1,2-Dichloroethane	0.010	0.50	<0.010	U
75-35-4	1,1-Dichloroethene	0.010	0.70	<0.010	U
127-18-4	Tetrachloroethene	0.010	0.70	<0.010	U
79-01-6	Trichloroethene	0.010	0.50	<0.010	U
75-01-4	Vinyl chloride	0.020	0.20	<0.020	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: 0607023-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0702302

Level: (low/med) LOW Date Sampled: 07/06/06 :

% Moisture: not dec. _____ Date Analyzed: 07/10/06 22:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
78-93-3	2-Butanone	0.94	10		U
56-23-5	Carbon tetrachloride	0.26	1.0		U
108-90-7	Chlorobenzene	0.31	1.0		U
67-66-3	Chloroform	0.21	1.0		U
106-46-7	1,4-Dichlorobenzene	0.35	1.0		U
107-06-2	1,2-Dichloroethane	0.20	1.0		U
75-35-4	1,1-Dichloroethene	0.25	1.0		U
127-18-4	Tetrachloroethene	0.30	1.0		U
79-01-6	Trichloroethene	0.27	1.0		U
75-01-4	Vinyl chloride	0.36	2.0		U

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V5BLK0710LCS	97	91	96	100	0
02	V5BLK0710	113	116	102	87	0
03	TB-2-060706	112	116	108	93	0
04	V4BLK0711LCS	110	107	99	102	0
05	V4BLK0711	102	95	99	101	0
06	51WC1S060706	109	100	101	103	0
07	51WC1S060706	107	109	98	104	0
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	EL QC LIMITS	SPIKE CONC (mg/L)
SMC1 (DFM) = Dibromofluoromethane	(85-120)	30
SMC2 (DCE) = 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL) = Toluene-d8	(85-115)	30
SMC4 (BFB) = Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix Spike - Client Sample No.: 51WC1S060706 Lab Sample ID: 0607023-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC. LIMITS REC.
Benzene	0.5000	0.0000	0.4978	100	75-125
2-Butanone	1.000	0.0000	1.024	102	65-145
Carbon tetrachloride	0.5000	0.0000	0.6337	127	75-135
Chlorobenzene	0.5000	0.0000	0.5732	115	75-120
Chloroform	0.5000	0.0000	0.5676	114	75-125
1,4-Dichlorobenzene	0.5000	0.0000	0.4263	85	70-125
1,2-Dichloroethane	0.5000	0.0000	0.6308	126	70-135
1,1-Dichloroethene	0.5000	0.0000	0.5151	103	70-125
Tetrachloroethene	0.5000	0.0000	0.5397	108	70-125
Trichloroethene	0.5000	0.0000	0.5529	110	80-125
Vinyl chloride	0.5000	0.0000	0.4223	84	65-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix Spike - Client Sample No.: V4BLK0711

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Benzene	0.05000	0.0000	0.05032	101	75-125
2-Butanone	0.1000	0.0000	0.1093	109	65-145
Carbon tetrachloride	0.05000	0.0000	0.05909	118	75-135
Chlorobenzene	0.05000	0.0000	0.05579	112	75-120
Chloroform	0.05000	0.0000	0.05406	108	75-125
1,4-Dichlorobenzene	0.05000	0.0000	0.05390	108	70-125
1,2-Dichloroethane	0.05000	0.0000	0.05778	116	70-135
1,1-Dichloroethene	0.05000	0.0000	0.05116	102	70-125
Tetrachloroethene	0.05000	0.0000	0.05186	104	70-125
Trichloroethene	0.05000	0.0000	0.05241	105	80-125
Vinyl chloride	0.05000	0.0000	0.03732	75	65-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix Spike - Client Sample No.: V5BLK0710

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50.00	0.0000	55.14	110	75-125
2-Butanone	100.0	0.0000	85.50	86	65-145
Carbon tetrachloride	50.00	0.0000	47.68	95	75-135
Chlorobenzene	50.00	0.0000	44.93	90	75-120
Chloroform	50.00	0.0000	47.95	96	75-125
1,4-Dichlorobenzene	50.00	0.0000	44.62	89	70-125
1,2-Dichloroethane	50.00	0.0000	49.35	99	70-135
1,1-Dichloroethene	50.00	0.0000	54.59	109	70-125
Tetrachloroethene	50.00	0.0000	53.64	107	70-125
Trichloroethene	50.00	0.0000	54.86	110	80-125
Vinyl chloride	50.00	0.0000	51.13	102	65-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V4BLK0711

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID: V4BLK01 Lab Sample ID: V4BLK0711

Date Analyzed: 07/11/06 Time Analyzed: 1023

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V4BLK0711LCS	V4BLK0711LCS	V4LCS01	0853
02	51WC1S060706	0607023-01	0702301T	1225
03	51WC1S060706	0607023-01	702301TM	1256
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4BLK0711

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: V4BLK0711

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V4BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/11/06 10:23

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
71-43-2	Benzene	0.0010	0.50	<0.0010	U
78-93-3	2-Butanone	0.010	200	<0.010	U
56-23-5	Carbon tetrachloride	0.0010	0.50	<0.0010	U
108-90-7	Chlorobenzene	0.0010	100	<0.0010	U
67-66-3	Chloroform	0.0010	6.0	<0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	7.5	<0.0010	U
107-06-2	1,2-Dichloroethane	0.0010	0.50	<0.0010	U
75-35-4	1,1-Dichloroethene	0.0010	0.70	<0.0010	U
127-18-4	Tetrachloroethene	0.0010	0.70	<0.0010	U
79-01-6	Trichloroethene	0.0010	0.50	<0.0010	U
75-01-4	Vinyl chloride	0.0020	0.20	<0.0020	U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID: V5BLK01 Lab Sample ID: V5BLK0710

Date Analyzed: 07/10/06 Time Analyzed: 1936

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	1644
02	TB-2-060706	0607023-02	0702302	2200
03				
04				
05				
06				
07				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0710

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Matrix: (soil/water) WATER Lab Sample ID: V5BLK0710

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V5BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 07/10/06 19:36

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.29	1.0		U
78-93-3	2-Butanone	0.94	10		U
56-23-5	Carbon tetrachloride	0.26	1.0		U
108-90-7	Chlorobenzene	0.31	1.0		U
67-66-3	Chloroform	0.21	1.0		U
106-46-7	1,4-Dichlorobenzene	0.35	1.0		U
107-06-2	1,2-Dichloroethane	0.20	1.0		U
75-35-4	1,1-Dichloroethene	0.25	1.0		U
127-18-4	Tetrachloroethene	0.30	1.0		U
79-01-6	Trichloroethene	0.27	1.0		U
75-01-4	Vinyl chloride	0.36	2.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID: V4BFB01 BFB Injection Date: 05/21/06

Instrument ID: VOA4 BFB Injection Time: 1129

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	44.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.9
175	5.0 - 9.0% of mass 174	4.8 (5.2)1
176	95.0 - 101.0% of mass 174	89.8 (96.6)1
177	5.0 - 9.0% of mass 176	4.9 (5.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD200PPB	V4STD200PPB	V4STD08	05/21/06	1228
02	V4STD100PPB	V4STD100PPB	V4STD07	05/21/06	1258
03	V4STD50PPB	V4STD50PPB	V4STD06	05/21/06	1328
04	V4STD20PPB	V4STD20PPB	V4STD05	05/21/06	1427
05	V4STD10PPB	V4STD10PPB	V4STD04	05/21/06	1457
06	V4STD2.0PPB	V4STD2.0PPB	V4STD03	05/21/06	1527
07	V4STD1.0PPB	V4STD1.0PPB	V4STD02	05/21/06	1556
08	V4STD0.5PPB	V4STD0.5PPB	V4STD01	05/21/06	1626
09					
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21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID: V4BFB01 BFB Injection Date: 07/11/06

Instrument ID: VOA4 BFB Injection Time: 0743

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.7
175	5.0 - 9.0% of mass 174	5.8 (6.6)1
176	95.0 - 101.0% of mass 174	83.8 (95.6)1
177	5.0 - 9.0% of mass 176	4.9 (5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD50PPB	V4STD50PPB	V4CCV01	07/11/06	0822
02	V4BLK0711LCS	V4BLK0711LCS	V4LCS01	07/11/06	0853
03	V4BLK0711	V4BLK0711	V4BLK01	07/11/06	1023
04	51WC1S060706	0607023-01	0702301T	07/11/06	1225
05	51WC1S060706	0607023-01	702301TM	07/11/06	1256
06					
07					
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09					
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21					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID: V5BFB01 BFB Injection Date: 07/10/06

Instrument ID: VOA5 BFB Injection Time: 1427

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.4
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	4.4 (7.0)1
176	95.0 - 101.0% of mass 174	61.4 (97.6)1
177	5.0 - 9.0% of mass 176	4.4 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V5STD200PPB	V5STD200PPB	V5STD08	07/10/06	1517
02	V5STD100PPB	V5STD100PPB	V5STD07	07/10/06	1546
03	V5STD50PPB	V5STD50PPB	V5STD06	07/10/06	1615
04	V5BLK0710LCS	V5BLK0710LCS	V5LCS01	07/10/06	1644
05	V5STD20PPB	V5STD20PPB	V5STD05	07/10/06	1713
06	V5STD10PPB	V5STD10PPB	V5STD04	07/10/06	1741
07	V5STD2.0PPB	V5STD2.0PPB	V5STD03	07/10/06	1810
08	V5STD1.0PPB	V5STD1.0PPB	V5STD02	07/10/06	1839
09	V5STD0.5PPB	V5STD0.5PPB	V5STD01	07/10/06	1908
10	V5BLK0710	V5BLK0710	V5BLK01	07/10/06	1936
11	TB-2-060706	0607023-02	0702302	07/10/06	2200
12					
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID (Standard): V4CCV01 Date Analyzed: 07/11/06

Instrument ID: VOA4 Time Analyzed: 0822

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	816264		13.52		345219		16.75		327423		18.56	
	UPPER LIMIT	1632528		14.02		690438		17.25		654846		19.06	
	LOWER LIMIT	408132		13.02		172610		16.25		163712		18.06	
	CLIENT SAMPLE NO.												
01	V4BLK0711LCS	810357		13.53		355709		16.75		342347		18.55	
02	V4BLK0711	799127		13.52		328786		16.75		301850		18.56	
03	51WC1S060706	725218		13.52		301154		16.74		286350		18.55	
04	51WC1S060706	731768		13.52		312731		16.75		304115		18.55	
05													
06													
07													
08													
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22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Lab File ID (Standard): V5STD06 Date Analyzed: 07/10/06

Instrument ID: VOA5 Time Analyzed: 1615

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	552383	13.10	326019	16.44	271188	18.26
	UPPER LIMIT	1104766	13.60	652038	16.94	542376	18.76
	LOWER LIMIT	276192	12.60	163010	15.94	135594	17.76
	CLIENT SAMPLE NO.						
01	V5BLK0710LCS	552759	13.09	325052	16.44	262739	18.25
02	V5BLK0710	424178	13.11	241125	16.45	184555	18.27
03	TB-2-060706	416034	13.11	229173	16.45	182257	18.26
04							
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20							
21							
22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF0.5: V4STD01 RF1: V4STD02 RF2: V4STD03
RF10: V4STD04 RF20: V4STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetone		0.150	0.077	0.067	0.056
Acrolein		0.003	0.006	0.006	0.004
Acrylonitrile	0.047	0.044	0.047	0.058	0.063
Benzene	0.771	0.694	0.714	0.715	0.718
Bromobenzene	0.621	0.621	0.661	0.652	0.672
Bromochloromethane	0.129	0.116	0.128	0.136	0.127
Bromodichloromethane	0.239	0.282	0.267	0.297	0.313
Bromoform	0.330	0.372	0.332	0.471	0.430
Bromomethane	0.181	0.323	0.254	0.207	0.196
2-Butanone		0.045	0.046	0.070	0.073
n-Butylbenzene	1.476	1.532	1.485	1.396	1.388
sec-Butylbenzene	2.752	2.280	2.017	2.180	2.173
tert-Butylbenzene	1.411	1.584	1.594	1.559	1.480
Carbon disulfide	0.630	0.510	0.517	0.567	0.559
Carbon tetrachloride	0.332	0.340	0.269	0.320	0.323
Chlorobenzene	1.412	1.319	1.444	1.497	1.470
Chloroethane	0.153	0.127	0.124	0.139	0.129
2-Chloroethyl vinyl ether	0.095	0.099	0.077	0.114	0.115
Chloroform	0.418	0.420	0.403	0.422	0.405
Chloromethane	0.210	0.279	0.252	0.252	0.234
2-Chlorotoluene	1.769	1.744	1.686	1.920	1.732
4-Chlorotoluene	2.624	2.271	2.321	2.242	2.217
Cyclohexane	0.284	0.224	0.262	0.270	0.264
Dibromochloromethane	0.455	0.557	0.528	0.614	0.617
1,2-Dibromo-3-chloropropane	0.063	0.079	0.073	0.105	0.114
1,2-Dibromoethane	0.590	0.436	0.543	0.582	0.550
Dibromomethane	0.196	0.139	0.146	0.164	0.162
1,2-Dichlorobenzene	1.047	0.963	1.107	1.088	1.041
1,3-Dichlorobenzene	1.126	1.278	1.118	1.240	1.318
1,4-Dichlorobenzene	1.368	1.292	1.467	1.509	1.256
Dichlorodifluoromethane	0.240	0.254	0.216	0.253	0.235
1,1-Dichloroethane	0.339	0.343	0.381	0.389	0.377
1,2-Dichloroethane	0.314	0.323	0.303	0.354	0.343
1,1-Dichloroethene	0.205	0.207	0.191	0.193	0.185
cis-1,2-Dichloroethene	0.331	0.202	0.224	0.207	0.233
1,2-Dichloroethene(total)	0.297	0.212	0.237	0.214	0.225
trans-1,2-Dichloroethene	0.262	0.222	0.250	0.221	0.217

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF0.5: V4STD01 RF1: V4STD02 RF2: V4STD03
RF10: V4STD04 RF20: V4STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
1,2-Dichloropropane	0.116	0.165	0.166	0.196	0.199
1,3-Dichloropropane	0.631	0.772	0.663	0.801	0.713
2,2-Dichloropropane	0.327	0.332	0.369	0.326	0.329
1,1-Dichloropropene	0.256	0.297	0.280	0.289	0.277
cis-1,3-Dichloropropene	0.269	0.304	0.300	0.348	0.344
trans-1,3-Dichloropropene	0.660	0.721	0.708	0.834	0.772
Ethylbenzene	2.224	2.209	2.246	2.397	2.248
Ethyl methacrylate	0.242	0.294	0.363	0.500	0.529
Hexachlorobutadiene	0.318	0.324	0.263	0.251	0.245
2-Hexanone		0.108	0.157	0.245	0.264
Iodomethane	0.284	0.355	0.369	0.364	0.365
Isopropylbenzene	2.306	2.149	2.099	2.294	2.188
p-Isopropyltoluene	2.194	1.871	1.808	1.740	1.784
Methyl acetate	0.097	0.125	0.092	0.128	0.122
Methyl cyclohexane	0.267	0.227	0.209	0.250	0.239
Methylene chloride	0.343	0.281	0.226	0.230	0.215
Methyl methacrylate	0.140	0.111	0.124	0.153	0.160
MTBE	0.461	0.495	0.480	0.521	0.545
4-Methyl-2-pentanone	0.092	0.091	0.106	0.142	0.167
Naphthalene	1.320	1.131	1.116	1.086	1.089
n-Propylbenzene	2.639	2.477	2.641	2.762	2.618
Styrene	1.396	1.361	1.512	1.615	1.582
1,1,1,2-Tetrachloroethane	0.438	0.499	0.538	0.576	0.558
1,1,2,2-Tetrachloroethane	0.509	0.413	0.408	0.555	0.528
Tetrachloroethene	0.615	0.614	0.599	0.642	0.602
Tetrahydrofuran		0.041	0.030	0.044	0.041
Toluene	1.324	1.188	1.157	1.297	1.199
1,2,3-Trichlorobenzene	0.774	0.661	0.648	0.605	0.598
1,2,4-Trichlorobenzene	1.023	0.652	0.657	0.668	0.674
1,1,1-Trichloroethane	0.394	0.340	0.316	0.362	0.352
1,1,2-Trichloroethane	0.359	0.282	0.305	0.377	0.357
Trichloroethene	0.240	0.248	0.240	0.242	0.231
Trichlorofluoromethane	0.337	0.387	0.349	0.357	0.353
Trichlorotrifluoroethane	0.226	0.158	0.184	0.209	0.193
1,2,3-Trichloropropane		0.202	0.182	0.191	0.170
1,2,4-Trimethylbenzene	2.157	1.647	1.764	1.968	1.885
1,3,5-Trimethylbenzene	2.076	1.768	1.803	1.907	1.902

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF0.5: V4STD01 RF1: V4STD02 RF2: V4STD03
RF10: V4STD04 RF20: V4STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Vinyl acetate	0.230	0.312	0.308	0.406	0.442
Vinyl chloride	0.275	0.247	0.215	0.239	0.223
Xylene(total)	1.931	1.891	1.785	2.007	1.809
Dibromofluoromethane	0.331	0.333	0.343	0.323	0.326
1,2-Dichloroethane-d4	0.068	0.068	0.068	0.067	0.066
Toluene-d8	2.290	2.288	2.303	2.234	2.215
Bromofluorobenzene	0.990	1.046	1.016	1.042	0.991

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF50: V4STD06 RF100: V4STD07 RF200: V4STD08

COMPOUND	RF50	RF100	RF200
Acetone	0.060	0.058	0.063
Acrolein	0.004	0.002	
Acrylonitrile	0.061	0.061	0.060
Benzene	0.691	0.668	0.632
Bromobenzene	0.654	0.637	0.623
Bromochloromethane	0.127	0.125	0.122
Bromodichloromethane	0.296	0.284	0.286
Bromoform	0.444	0.435	0.388
Bromomethane	0.193	0.192	0.181
2-Butanone	0.076	0.078	0.081
n-Butylbenzene	1.450	1.419	1.432
sec-Butylbenzene	2.230	2.159	2.087
tert-Butylbenzene	1.546	1.483	1.438
Carbon disulfide	0.551	0.543	0.522
Carbon tetrachloride	0.307	0.304	0.303
Chlorobenzene	1.416	1.329	1.121
Chloroethane	0.127	0.123	0.120
2-Chloroethyl vinyl ether	0.115	0.115	0.116
Chloroform	0.389	0.380	0.373
Chloromethane	0.223	0.227	0.219
2-Chlorotoluene	1.769	1.702	1.551
4-Chlorotoluene	1.893	1.794	1.846
Cyclohexane	0.262	0.261	0.250
Dibromochloromethane	0.597	0.568	0.506
1,2-Dibromo-3-chloropropane	0.125	0.117	0.122
1,2-Dibromoethane	0.541	0.518	0.456
Dibromomethane	0.158	0.153	0.152
1,2-Dichlorobenzene	1.050	1.014	0.969
1,3-Dichlorobenzene	1.145	1.129	1.057
1,4-Dichlorobenzene	1.237	1.130	1.090
Dichlorodifluoromethane	0.238	0.237	0.236
1,1-Dichloroethane	0.360	0.364	0.349
1,2-Dichloroethane	0.324	0.321	0.322
1,1-Dichloroethene	0.193	0.183	0.179
cis-1,2-Dichloroethene	0.234	0.223	0.216
1,2-Dichloroethene(total)	0.226	0.218	0.211
trans-1,2-Dichloroethene	0.218	0.214	0.206

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF50: V4STD06 RF100: V4STD07 RF200: V4STD08

COMPOUND	RF50	RF100	RF200
1,2-Dichloropropane	0.186	0.181	0.176
1,3-Dichloropropane	0.728	0.679	0.582
2,2-Dichloropropane	0.334	0.335	0.328
1,1-Dichloropropene	0.275	0.266	0.264
cis-1,3-Dichloropropene	0.343	0.331	0.324
trans-1,3-Dichloropropene	0.819	0.774	0.665
Ethylbenzene	2.297	2.114	1.742
Ethyl methacrylate	0.564	0.541	0.488
Hexachlorobutadiene	0.262	0.249	0.252
2-Hexanone	0.281	0.268	0.251
Iodomethane	0.368	0.352	0.321
Isopropylbenzene	2.207	2.021	1.685
p-Isopropyltoluene	1.782	1.733	1.681
Methyl acetate	0.127	0.126	0.130
Methyl cyclohexane	0.252	0.244	0.237
Methylene chloride	0.210	0.208	0.198
Methyl methacrylate	0.156	0.164	0.167
MTBE	0.525	0.525	0.525
4-Methyl-2-pentanone	0.166	0.163	0.165
Naphthalene	1.141	1.143	1.248
n-Propylbenzene	2.691	2.550	2.426
Styrene	1.598	1.472	1.223
1,1,1,2-Tetrachloroethane	0.538	0.507	0.435
1,1,2,2-Tetrachloroethane	0.530	0.496	0.497
Tetrachloroethene	0.609	0.560	0.484
Tetrahydrofuran	0.040	0.041	0.040
Toluene	1.217	1.135	0.954
1,2,3-Trichlorobenzene	0.626	0.611	0.639
1,2,4-Trichlorobenzene	0.709	0.692	0.727
1,1,1-Trichloroethane	0.346	0.337	0.332
1,1,2-Trichloroethane	0.355	0.332	0.287
Trichloroethene	0.227	0.215	0.213
Trichlorofluoromethane	0.340	0.334	0.330
Trichlorotrifluoroethane	0.204	0.198	0.198
1,2,3-Trichloropropane	0.173	0.165	0.150
1,2,4-Trimethylbenzene	1.933	1.853	1.789
1,3,5-Trimethylbenzene	1.940	1.814	1.748

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

LAB FILE ID: RF50: V4STD06 RF100: V4STD07 RF200: V4STD08

COMPOUND	RF50	RF100	RF200
Vinyl acetate	0.429	0.431	0.437
Vinyl chloride	0.233	0.216	0.204
Xylene(total)	1.846	1.668	1.380
Dibromofluoromethane	0.321	0.319	0.322
1,2-Dichloroethane-d4	0.066	0.067	0.068
Toluene-d8	2.312	2.196	1.942
Bromofluorobenzene	1.000	0.962	0.840

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	4.9e-002	6.2e-002		0.998
Acrolein	2ORDR	0.00000000	66.3106389	7703.96389	0.991
Acrylonitrile	AVRG		5.512e-002		14.0
Benzene	AVRG		0.70040958		5.8
Bromobenzene	AVRG		0.64271467		3.1
Bromochloromethane	AVRG		0.12636300		4.6
Bromodichloromethane	AVRG		0.28298868		7.9
Bromoform	AVRG		0.40032012		13.1
Bromomethane	LINR	0.00000000	0.18385408		0.999
2-Butanone	LINR	0.00000000	7.98e-002		0.999
n-Butylbenzene	AVRG		1.44723990		3.4
sec-Butylbenzene	AVRG		2.23489806		10.0
tert-Butylbenzene	AVRG		1.51197524		4.5
Carbon disulfide	AVRG		0.54994772		6.9
Carbon tetrachloride	AVRG		0.31215711		7.1
Chlorobenzene	AVRG		1.37600280		8.8
Chloroethane	AVRG		0.13049006		8.3
2-Chloroethyl vinyl ether	AVRG		0.10588071		13.4
Chloroform	AVRG		0.40127720		4.6
Chloromethane	AVRG		0.23714331		9.4
2-Chlorotoluene	AVRG		1.73424127		5.9
4-Chlorotoluene	AVRG		2.15088390		13.2
Cyclohexane	AVRG		0.25966388		6.7
Dibromochloromethane	AVRG		0.55529591		10.2
1,2-Dibromo-3-chloropropane	LINR	0.00000000	0.12098992		0.999
1,2-Dibromoethane	AVRG		0.52712873		10.4
Dibromomethane	AVRG		0.15888039		10.7
1,2-Dichlorobenzene	AVRG		1.03488920		5.0
1,3-Dichlorobenzene	AVRG		1.17641249		7.7
1,4-Dichlorobenzene	AVRG		1.29369974		11.5
Dichlorodifluoromethane	AVRG		0.23874942		4.9
1,1-Dichloroethane	AVRG		0.36276064		5.1
1,2-Dichloroethane	AVRG		0.32562294		4.9
1,1-Dichloroethene	AVRG		0.19211487		5.2
cis-1,2-Dichloroethene	LINR	0.00000000	0.21797756		0.999
1,2-Dichloroethene(total)	AVRG		0.23006691		12.4
trans-1,2-Dichloroethene	AVRG		0.22637569		8.6

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloropropane	AVRG		0.17319587		15.0
1,3-Dichloropropane	AVRG		0.69620789		10.4
2,2-Dichloropropane	AVRG		0.33514956		4.2
1,1-Dichloropropene	AVRG		0.27560209		4.8
cis-1,3-Dichloropropene	AVRG		0.32052181		8.6
trans-1,3-Dichloropropene	AVRG		0.74397672		8.9
Ethylbenzene	AVRG		2.18479838		9.0
Ethyl methacrylate	LINR	0.00000000	0.50290119		0.996
Hexachlorobutadiene	AVRG		0.27068772		11.7
2-Hexanone	LINR	0.00000000	0.25601546		0.998
Iodomethane	AVRG		0.34717905		8.6
Isopropylbenzene	AVRG		2.11871011		9.4
p-Isopropyltoluene	AVRG		1.82419886		8.8
Methyl acetate	AVRG		0.11851879		12.6
Methyl cyclohexane	AVRG		0.24071227		7.3
Methylene chloride	LINR	-4.62e-002	0.19863256		0.999
Methyl methacrylate	AVRG		0.14701593		13.7
MTBE	AVRG		0.50967594		5.6
4-Methyl-2-pentanone	LINR	0.00000000	0.16477526		1.000
Naphthalene	AVRG		1.15944821		7.1
n-Propylbenzene	AVRG		2.60041327		4.3
Styrene	AVRG		1.46997158		9.2
1,1,1,2-Tetrachloroethane	AVRG		0.51135053		10.2
1,1,2,2-Tetrachloroethane	AVRG		0.49210146		10.9
Tetrachloroethene	AVRG		0.59077404		8.3
Tetrahydrofuran	AVRG		3.952e-002		11.3
Toluene	AVRG		1.18390355		9.6
1,2,3-Trichlorobenzene	AVRG		0.64542664		8.8
1,2,4-Trichlorobenzene	LINR	0.00000000	0.71956905		0.999
1,1,1-Trichloroethane	AVRG		0.34742294		6.7
1,1,2-Trichloroethane	AVRG		0.33193062		10.9
Trichloroethene	AVRG		0.23222490		5.6
Trichlorofluoromethane	AVRG		0.34843362		5.3
Trichlorotrifluoroethane	AVRG		0.19618081		10.1
1,2,3-Trichloropropane	AVRG		0.17595719		9.8
1,2,4-Trimethylbenzene	AVRG		1.87448453		8.2
1,3,5-Trimethylbenzene	AVRG		1.86971169		5.8

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date(s): 05/21/06 05/21/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1228 1626

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Vinyl acetate	LINR	0.00000000	0.43540864		1.000
Vinyl chloride	AVRG		0.23151105		9.8
Xylene(total)	AVRG		1.78967977		10.8
Dibromofluoromethane	AVRG		0.32734194		2.4
1,2-Dichloroethane-d4	AVRG		6.738e-002		1.1
Toluene-d8	AVRG		2.22266941		5.4
Bromofluorobenzene	AVRG		0.98591921		6.6

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetone		0.520	0.396	0.232	0.227
Acrolein	0.088	0.063	0.074	0.068	0.066
Acrylonitrile	0.150	0.167	0.158	0.153	0.133
Benzene	0.672	0.668	0.782	1.074	0.991
Bromobenzene	0.469	0.455	0.504	0.636	0.677
Bromochloromethane	0.199	0.147	0.190	0.171	0.156
Bromodichloromethane	0.793	0.643	0.638	0.646	0.636
Bromoform	0.566	0.588	0.503	0.638	0.578
Bromomethane	0.453	0.338	0.292	0.274	0.251
2-Butanone		0.143	0.131	0.114	0.119
n-Butylbenzene	1.304	1.105	1.272	1.841	2.109
sec-Butylbenzene	1.089	1.253	1.356	2.356	2.544
tert-Butylbenzene	0.735	0.746	0.772	1.404	1.572
Carbon disulfide	1.527	1.460	1.234	1.129	1.022
Carbon tetrachloride	0.754	0.797	0.706	0.734	0.644
Chlorobenzene	1.625	1.520	1.539	1.576	1.391
Chloroethane	0.404	0.359	0.344	0.234	0.200
2-Chloroethyl vinyl ether		0.044	0.034	0.074	0.114
Chloroform		0.964	0.894	0.850	0.753
Chloromethane	0.541	0.455	0.518	0.386	0.340
2-Chlorotoluene	1.308	1.260	1.406	2.250	2.258
4-Chlorotoluene	1.138	1.191	1.508	2.228	2.341
Cyclohexane	0.207	0.150	0.153	0.282	0.340
Dibromochloromethane	0.878	0.772	0.923	0.935	0.888
1,2-Dibromo-3-chloropropane	0.109	0.102	0.113	0.125	0.134
1,2-Dibromoethane	0.432	0.487	0.540	0.605	0.601
Dibromomethane	0.309	0.272	0.272	0.280	0.259
1,2-Dichlorobenzene	0.976	0.973	0.978	1.200	1.275
1,3-Dichlorobenzene	1.146	1.130	1.143	1.303	1.350
1,4-Dichlorobenzene	1.787	1.938	1.822	1.734	1.675
Dichlorodifluoromethane	0.404	0.350	0.359	0.327	0.277
1,1-Dichloroethane	1.199	1.139	0.931	0.852	0.753
1,2-Dichloroethane	0.878	0.790	0.714	0.764	0.717
1,1-Dichloroethene	0.489	0.354	0.342	0.302	0.270
cis-1,2-Dichloroethene		0.160	0.150	0.175	0.189
1,2-Dichloroethene(total)	0.291	0.319	0.286	0.273	0.250
trans-1,2-Dichloroethene	0.475	0.477	0.422	0.370	0.312

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
1,2-Dichloropropane	0.272	0.269	0.266	0.311	0.303
1,3-Dichloropropane	0.871	0.897	0.961	1.049	0.999
2,2-Dichloropropane	0.569	0.534	0.497	0.526	0.510
1,1-Dichloropropene	0.204	0.226	0.205	0.273	0.305
cis-1,3-Dichloropropene	0.268	0.248	0.237	0.410	0.443
trans-1,3-Dichloropropene	0.406	0.446	0.454	0.778	0.866
Ethylbenzene		1.306	1.327	2.129	2.304
Ethyl methacrylate	0.280	0.233	0.276	0.500	0.612
Hexachlorobutadiene		0.483	0.343	0.354	0.363
2-Hexanone	0.254	0.294	0.355	0.448	0.488
Iodomethane	0.351	0.423	0.416	0.502	0.498
Isopropylbenzene	0.920	0.904	1.013	1.949	2.096
p-Isopropyltoluene	2.155	1.880	1.933	2.121	2.120
Methyl acetate	0.857	0.710	0.602	0.437	0.352
Methyl cyclohexane	0.132	0.132	0.111	0.275	0.304
Methylene chloride		1.038	0.789	0.500	0.401
Methyl methacrylate	0.319	0.247	0.160	0.289	0.287
MTBE		0.801	0.728	0.729	0.702
4-Methyl-2-pentanone	0.134	0.177	0.166	0.302	0.350
Naphthalene	0.987	0.802	0.842	1.327	1.566
n-Propylbenzene	1.460	1.522	1.648	2.863	3.251
Styrene	0.492	0.406	0.586	1.032	1.191
1,1,1,2-Tetrachloroethane	0.774	0.758	0.732	0.718	0.633
1,1,2,2-Tetrachloroethane	0.914	0.813	0.890	0.919	0.893
Tetrachloroethene	0.345	0.448	0.511	0.509	0.481
Tetrahydrofuran				0.039	0.040
Toluene	1.047	1.206	1.017	1.253	1.166
1,2,3-Trichlorobenzene	0.652	0.590	0.562	0.657	0.667
1,2,4-Trichlorobenzene	0.670	0.611	0.585	0.662	0.751
1,1,1-Trichloroethane	0.728	0.702	0.725	0.717	0.690
1,1,2-Trichloroethane	0.440	0.417	0.468	0.512	0.467
Trichloroethene	0.234	0.243	0.222	0.277	0.304
Trichlorofluoromethane	0.977	0.954	0.846	0.784	0.687
Trichlorotrifluoroethane	0.363	0.544	0.442	0.395	0.340
1,2,3-Trichloropropane	0.210	0.258	0.177	0.254	0.245
1,2,4-Trimethylbenzene	1.012	0.769	0.988	2.117	2.352
1,3,5-Trimethylbenzene	0.775	0.879	1.144	2.034	2.314

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF0.5: V5STD01 RF1: V5STD02 RF2: V5STD03
RF10: V5STD04 RF20: V5STD05

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Vinyl acetate		0.721	0.771	0.796	0.771
Vinyl chloride	0.606	0.444	0.422	0.390	0.348
Xylene(total)	0.689	0.823	1.029	2.206	2.296
Dibromofluoromethane	0.506	0.541	0.509	0.488	0.464
1,2-Dichloroethane-d4	0.075	0.081	0.075	0.071	0.060
Toluene-d8	1.794	1.874	1.920	1.894	1.757
Bromofluorobenzene	0.816	0.926	1.010	1.084	1.034

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
Acetone	0.234	0.230	0.237
Acrolein	0.066	0.058	0.058
Acrylonitrile	0.143	0.127	0.124
Benzene	1.094	1.068	0.982
Bromobenzene	0.770	0.726	0.676
Bromochloromethane	0.176	0.167	0.160
Bromodichloromethane	0.630	0.592	0.538
Bromoform	0.552	0.515	0.444
Bromomethane	0.259	0.248	0.244
2-Butanone	0.190	0.218	0.247
n-Butylbenzene	2.206	2.171	
sec-Butylbenzene	2.645	2.666	2.429
tert-Butylbenzene	1.616	1.755	1.598
Carbon disulfide	0.965	0.923	0.849
Carbon tetrachloride	0.653	0.608	0.570
Chlorobenzene	1.326	1.216	
Chloroethane	0.202	0.182	0.168
2-Chloroethyl vinyl ether	0.173	0.186	0.187
Chloroform	0.782	0.750	0.680
Chloromethane	0.295	0.276	0.269
2-Chlorotoluene	2.296	2.185	2.026
4-Chlorotoluene	2.752	2.341	2.279
Cyclohexane	0.445	0.447	0.466
Dibromochloromethane	0.836	0.752	0.603
1,2-Dibromo-3-chloropropane	0.155	0.160	
1,2-Dibromoethane	0.622	0.598	0.473
Dibromomethane	0.280	0.281	0.264
1,2-Dichlorobenzene	1.258	1.258	1.179
1,3-Dichlorobenzene	1.462	1.313	1.222
1,4-Dichlorobenzene	1.702	1.434	1.377
Dichlorodifluoromethane	0.292	0.281	0.287
1,1-Dichloroethane	0.745	0.743	0.657
1,2-Dichloroethane	0.749	0.712	0.670
1,1-Dichloroethene	0.270	0.249	0.238
cis-1,2-Dichloroethene	0.263	0.277	0.261
1,2-Dichloroethene(total)	0.296	0.285	0.271
trans-1,2-Dichloroethene	0.330	0.293	0.281

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
1,2-Dichloropropane	0.342	0.332	0.303
1,3-Dichloropropane	0.946	0.854	0.720
2,2-Dichloropropane	0.598	0.567	0.569
1,1-Dichloropropene	0.460	0.452	0.454
cis-1,3-Dichloropropene	0.584	0.579	0.556
trans-1,3-Dichloropropene	1.035	0.974	
Ethylbenzene	2.537	2.175	1.676
Ethyl methacrylate	0.704	0.731	
Hexachlorobutadiene	0.371	0.360	0.321
2-Hexanone	0.600	0.560	
Iodomethane	0.546	0.521	0.461
Isopropylbenzene	2.180	2.074	
p-Isopropyltoluene	2.365	2.298	2.011
Methyl acetate	0.344	0.315	0.311
Methyl cyclohexane	0.349	0.339	0.374
Methylene chloride	0.387	0.359	0.314
Methyl methacrylate	0.338	0.309	0.318
MTBE	0.814	0.805	0.894
4-Methyl-2-pentanone	0.435	0.430	0.444
Naphthalene	1.812	1.868	1.793
n-Propylbenzene	3.538	3.280	2.955
Styrene	1.363	1.288	
1,1,1,2-Tetrachloroethane	0.631	0.560	
1,1,2,2-Tetrachloroethane	0.877	0.847	0.809
Tetrachloroethene	0.497	0.484	0.392
Tetrahydrofuran	0.060	0.079	0.089
Toluene	1.145	1.099	0.831
1,2,3-Trichlorobenzene	0.760	0.735	0.692
1,2,4-Trichlorobenzene	0.814	0.822	0.734
1,1,1-Trichloroethane	0.700	0.649	0.616
1,1,2-Trichloroethane	0.463	0.416	0.332
Trichloroethene	0.337	0.339	0.309
Trichlorofluoromethane	0.680	0.619	0.600
Trichlorotrifluoroethane	0.349	0.318	0.327
1,2,3-Trichloropropane	0.227	0.200	
1,2,4-Trimethylbenzene	2.504	2.389	2.167
1,3,5-Trimethylbenzene	2.334	2.304	2.118

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

LAB FILE ID: RF50: V5STD06 RF100: V5STD07 RF200: V5STD08

COMPOUND	RF50	RF100	RF200
Vinyl acetate	0.971	0.998	0.991
Vinyl chloride	0.328	0.292	0.254
Xylene(total)	2.151	1.938	
Dibromofluoromethane	0.463	0.440	0.450
1,2-Dichloroethane-d4	0.067	0.060	0.064
Toluene-d8	1.620	1.500	1.322
Bromofluorobenzene	0.902	0.871	0.729

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	-4.61e-003	0.23566186		1.000
Acrolein	AVRG		6.747e-002		14.3
Acrylonitrile	AVRG		0.14433164		10.6
Benzene	LINR	0.00000000	1.00544683		0.998
Bromobenzene	LINR	0.00000000	0.69123933		0.998
Bromochloromethane	AVRG		0.17069138		10.2
Bromodichloromethane	AVRG		0.63946801		11.2
Bromoform	AVRG		0.54805516		10.9
Bromomethane	LINR	0.00000000	0.24563921		1.000
2-Butanone	LINR	0.41915149	0.24957070		0.995
n-Butylbenzene	LINR	0.00000000	2.17365685		0.999
sec-Butylbenzene	LINR	0.00000000	2.48882522		0.998
tert-Butylbenzene	LINR	0.00000000	1.63049513		0.998
Carbon disulfide	LINR	0.00000000	0.87255271		0.997
Carbon tetrachloride	AVRG		0.68334127		11.3
Chlorobenzene	AVRG		1.45632780		10.2
Chloroethane	LINR	0.00000000	0.17355739		0.995
2-Chloroethyl vinyl ether	LINR	0.00000000	0.18561862		0.996
Chloroform	AVRG		0.81050004		12.0
Chloromethane	LINR	0.00000000	0.27313268		0.998
2-Chlorotoluene	LINR	0.00000000	2.07384278		0.998
4-Chlorotoluene	LINR	0.00000000	2.31801688		0.997
Cyclohexane	LINR	0.00000000	0.46081591		0.998
Dibromochloromethane	AVRG		0.82317985		13.5
1,2-Dibromo-3-chloropropane	LINR	0.00000000	0.15838897		0.998
1,2-Dibromoethane	AVRG		0.54485204		13.3
Dibromomethane	AVRG		0.27704554		5.5
1,2-Dichlorobenzene	AVRG		1.13721308		12.1
1,3-Dichlorobenzene	AVRG		1.25864447		9.4
1,4-Dichlorobenzene	AVRG		1.68385324		11.3
Dichlorodifluoromethane	AVRG		0.32206546		14.2
1,1-Dichloroethane	LINR	0.00000000	0.68088753		0.995
1,2-Dichloroethane	AVRG		0.74924918		8.5
1,1-Dichloroethene	LINR	0.00000000	0.24266118		0.998
cis-1,2-Dichloroethene	LINR	0.00000000	0.26384703		0.998
1,2-Dichloroethene(total)	AVRG		0.28397098		7.1
trans-1,2-Dichloroethene	LINR	0.00000000	0.28687735		0.997

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloropropane	AVRG		0.29982630		9.6
1,3-Dichloropropane	AVRG		0.91205672		11.1
2,2-Dichloropropane	AVRG		0.54636477		6.3
1,1-Dichloropropene	LINR	0.00000000	0.45299022		0.998
cis-1,3-Dichloropropene	LINR	0.00000000	0.56087937		0.999
trans-1,3-Dichloropropene	LINR	0.00000000	0.98254831		0.998
Ethylbenzene	2ORDR	0.00000000	0.27033278	2.877e-002	0.998
Ethyl methacrylate	LINR	0.00000000	0.72152261		0.997
Hexachlorobutadiene	LINR	0.00000000	0.33236598		0.995
2-Hexanone	LINR	0.00000000	0.56568021		0.997
Iodomethane	AVRG		0.46455836		13.9
Isopropylbenzene	LINR	0.00000000	2.09505514		0.999
p-Isopropyltoluene	AVRG		2.11035596		7.9
Methyl acetate	LINR	0.00000000	0.31405978		0.998
Methyl cyclohexane	LINR	0.00000000	0.36587481		0.997
Methylene chloride	LINR	-0.2023059	0.31423700		0.995
Methyl methacrylate	LINR	0.00000000	0.31761976		0.999
MTBE	AVRG		0.78196996		8.5
4-Methyl-2-pentanone	LINR	0.00000000	0.44057598		0.999
Naphthalene	LINR	0.00000000	1.80625017		0.999
n-Propylbenzene	LINR	0.00000000	3.05522089		0.995
Styrene	LINR	0.00000000	1.29870171		0.998
1,1,1,2-Tetrachloroethane	AVRG		0.68668633		11.6
1,1,2,2-Tetrachloroethane	AVRG		0.87034796		4.9
Tetrachloroethene	AVRG		0.45850502		13.1
Tetrahydrofuran	LINR	0.40350416	9.355e-002		0.996
Toluene	AVRG		1.09550634		12.1
1,2,3-Trichlorobenzene	AVRG		0.66442070		10.0
1,2,4-Trichlorobenzene	AVRG		0.70609259		12.5
1,1,1-Trichloroethane	AVRG		0.69094618		5.7
1,1,2-Trichloroethane	AVRG		0.43963304		12.1
Trichloroethene	LINR	0.00000000	0.31609803		0.997
Trichlorofluoromethane	LINR	0.00000000	0.60939400		0.998
Trichlorotrifluoroethane	LINR	0.00000000	0.32693794		0.999
1,2,3-Trichloropropane	AVRG		0.22431191		13.4
1,2,4-Trimethylbenzene	LINR	0.00000000	2.23132065		0.996
1,3,5-Trimethylbenzene	LINR	0.00000000	2.16805570		0.998

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA5 Calibration Date(s): 07/10/06 07/10/06

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1517 1908

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Vinyl acetate	AVRG		0.85999328		14.1
Vinyl chloride	2ORDR	0.00000000	2.66848375	0.75638950	1.000
Xylene(total)	LINR	0.00000000	1.99695582		0.996
Dibromofluoromethane	AVRG		0.48247679		7.1
1,2-Dichloroethane-d4	AVRG		6.92e-002		11.1
Toluene-d8	AVRG		1.71043862		12.4
Bromofluorobenzene	AVRG		0.92135792		12.9

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date: 07/11/06 Time: 0822

Lab File ID: V4CCV01 Init. Calib. Date(s): 05/21/06 05/21/06

Heated Purge: (Y/N) N Init. Calib. Times: 1228 1626

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.076	0.091	100.0	147.7		LINR	47.7	
Acrolein	0.004	0.016	250.0	4221		2ORDR	999.9	
Acrylonitrile	0.055	0.057	250.0	260.4		AVRG	4.2	
Benzene	0.700	0.669	50.00	47.75		AVRG	-4.5	
Bromobenzene	0.643	0.652	50.00	50.74		AVRG	1.5	
Bromochloromethane	0.126	0.132	50.00	52.28		AVRG	4.6	
Bromodichloromethane	0.283	0.323	50.00	57.01		AVRG	14.0	
Bromoform	0.400	0.441	50.00	55.06	0.100	AVRG	10.1	
Bromomethane	0.216	0.179	50.00	48.58		LINR	-2.8	
2-Butanone	0.067	0.087	100.0	108.7		LINR	8.7	
n-Butylbenzene	1.447	1.330	50.00	45.94		AVRG	-8.1	
sec-Butylbenzene	2.235	2.148	50.00	48.04		AVRG	-3.9	
tert-Butylbenzene	1.512	1.498	50.00	49.55		AVRG	-0.9	
Carbon disulfide	0.550	0.502	50.00	45.67		AVRG	-8.7	
Carbon tetrachloride	0.312	0.360	50.00	57.72		AVRG	15.4	
Chlorobenzene	1.376	1.488	50.00	54.09	0.300	AVRG	8.2	
Chloroethane	0.130	0.118	50.00	45.23		AVRG	-9.5	
2-Chloroethyl vinyl ether	0.106	0.116	100.0	109.4		AVRG	9.4	
Chloroform	0.401	0.418	50.00	52.02		AVRG	4.0	20.0
Chloromethane	0.237	0.169	50.00	35.71	0.100	AVRG	-28.6	
2-Chlorotoluene	1.734	1.702	50.00	49.06		AVRG	-1.9	
4-Chlorotoluene	2.151	2.243	50.00	52.13		AVRG	4.3	
Cyclohexane	0.260	0.270	50.00	51.92		AVRG	3.8	
Dibromochloromethane	0.555	0.614	50.00	55.26		AVRG	10.5	
1,2-Dibromo-3-chloropropane	0.100	0.102	50.00	42.00		LINR	-16.0	
1,2-Dibromoethane	0.527	0.561	50.00	53.20		AVRG	6.4	
Dibromomethane	0.159	0.168	50.00	52.93		AVRG	5.8	
1,2-Dichlorobenzene	1.035	1.016	50.00	49.08		AVRG	-1.8	
1,3-Dichlorobenzene	1.176	1.237	50.00	52.59		AVRG	5.2	
1,4-Dichlorobenzene	1.294	1.128	50.00	43.60		AVRG	-12.8	
Dichlorodifluoromethane	0.239	0.150	50.00	31.41		AVRG	-37.2	
1,1-Dichloroethane	0.363	0.379	50.00	52.20	0.100	AVRG	4.4	
1,2-Dichloroethane	0.326	0.361	50.00	55.41		AVRG	10.8	
1,1-Dichloroethene	0.192	0.183	50.00	47.66		AVRG	-4.7	20.0
cis-1,2-Dichloroethene	0.234	0.232	50.00	53.25		LINR	6.5	
1,2-Dichloroethene(total)	0.230	0.226	100.0	98.36		AVRG	-1.6	
trans-1,2-Dichloroethene	0.226	0.220	50.00	48.68		AVRG	-2.6	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date: 07/11/06 Time: 0822

Lab File ID: V4CCV01 Init. Calib. Date(s): 05/21/06 05/21/06

Heated Purge: (Y/N) N Init. Calib. Times: 1228 1626

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloropropane	0.173	0.182	50.00	52.44		AVRG	4.9	20.0
1,3-Dichloropropane	0.696	0.717	50.00	51.48		AVRG	3.0	
2,2-Dichloropropane	0.335	0.376	50.00	56.07		AVRG	12.1	
1,1-Dichloropropene	0.276	0.277	50.00	50.25		AVRG	0.5	
cis-1,3-Dichloropropene	0.320	0.344	50.00	53.73		AVRG	7.4	
trans-1,3-Dichloropropene	0.744	0.792	50.00	53.23		AVRG	6.4	
Ethylbenzene	2.185	2.241	50.00	51.29		AVRG	2.6	20.0
Ethyl methacrylate	0.440	0.452	50.00	45.00		LINR	-10.0	
Hexachlorobutadiene	0.270	0.229	50.00	42.33		AVRG	-15.3	
2-Hexanone	0.225	0.236	100.0	92.20		LINR	-7.8	
Iodomethane	0.347	0.328	50.00	47.29		AVRG	-5.4	
Isopropylbenzene	2.119	2.214	50.00	52.25		AVRG	4.5	
p-Isopropyltoluene	1.824	1.763	50.00	48.33		AVRG	-3.3	
Methyl acetate	0.118	0.126	50.00	53.22		AVRG	6.4	
Methyl cyclohexane	0.241	0.246	50.00	51.02		AVRG	2.0	
Methylene chloride	0.239	0.216	50.00	52.87		LINR	5.7	
Methyl methacrylate	0.147	0.154	50.00	52.47		AVRG	4.9	
MTBE	0.510	0.527	50.00	51.70		AVRG	3.4	
4-Methyl-2-pentanone	0.136	0.156	100.0	94.83		LINR	-5.2	
Naphthalene	1.159	1.066	50.00	45.99		AVRG	-8.0	
n-Propylbenzene	2.600	2.573	50.00	49.48		AVRG	-1.0	
Styrene	1.470	1.574	50.00	53.54		AVRG	7.1	
1,1,1,2-Tetrachloroethane	0.511	0.546	50.00	53.44		AVRG	6.9	
1,1,2,2-Tetrachloroethane	0.492	0.497	50.00	50.49	0.300	AVRG	1.0	
Tetrachloroethene	0.591	0.601	50.00	50.90		AVRG	1.8	
Tetrahydrofuran	0.040	0.037	50.00	47.20		AVRG	-5.6	
Toluene	1.184	1.166	50.00	49.24		AVRG	-1.5	20.0
1,2,3-Trichlorobenzene	0.645	0.573	50.00	44.38		AVRG	-11.2	
1,2,4-Trichlorobenzene	0.725	0.674	50.00	46.85		LINR	-6.3	
1,1,1-Trichloroethane	0.347	0.378	50.00	54.43		AVRG	8.8	
1,1,2-Trichloroethane	0.332	0.338	50.00	50.93		AVRG	1.9	
Trichloroethene	0.232	0.232	50.00	49.98		AVRG	-0.0	
Trichlorofluoromethane	0.348	0.370	50.00	53.06		AVRG	6.1	
Trichlorotrifluoroethane	0.196	0.221	50.00	56.24		AVRG	12.5	
1,2,3-Trichloropropane	0.176	0.176	50.00	50.12		AVRG	0.2	
1,2,4-Trimethylbenzene	1.874	1.909	50.00	50.92		AVRG	1.8	
1,3,5-Trimethylbenzene	1.870	1.901	50.00	50.83		AVRG	1.6	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.V07023

Instrument ID: VOA4 Calibration Date: 07/11/06 Time: 0822

Lab File ID: V4CCV01 Init. Calib. Date(s): 05/21/06 05/21/06

Heated Purge: (Y/N) N Init. Calib. Times: 1228 1626

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Vinyl acetate	0.374	0.419	100.0	96.17		LINR	-3.8	
Vinyl chloride	0.232	0.198	50.00	42.72		AVRG	-14.6	20.0
Xylene(total)	1.790	1.777	150.0	146.4		AVRG	-0.7	
Dibromofluoromethane	0.327	0.351	30.00	32.13		AVRG	7.1	
1,2-Dichloroethane-d4	0.067	0.065	30.00	28.99		AVRG	-3.4	
Toluene-d8	2.222	2.242	30.00	30.26		AVRG	0.9	
Bromofluorobenzene	0.986	1.034	30.00	31.46		AVRG	4.9	

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\071106V4\
Pre-Seq Cmd:
Post-Seq Cmd:

6458

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1	Type: Sample	V4blank;;;;;
	Vial: 100	;3;;;;gm-all.sub;#4928
	Meth: VWATER4.M	Barcode:
	Data: PBLK01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
2	Type: Sample	V4BFB 50NG;;;;
	Vial: 50	;3;BFB;;;all.sub;#4946
	Meth: V4BFB.M	Barcode:
	Data: V4BFB01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
3	Type: DailyCal	V4STD50ppb;;;;;
	Vial: 1	;2;;;;gm-all.sub;#4928,#4941
	Meth: VWATER4.M	Barcode:
	Data: V4CCV01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
4	Type: Spike	V4BLK0711LCS;;;;;50PPB
	Vial: 2	;3;LCS;;;gm-all.sub;#4928,4942
	Meth: VWATER4.M	Barcode:
	Data: V4LCS01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
5	Type: Sample	V4app9 ccv;;;;;
	Vial: 3	;;;;;ap9hex.sub;#4928,#4945
	Meth: VWATER4.M	Barcode:
	Data: V4AP9CCV.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
6	Type: Sample	V4blank;;;;;
	Vial: 100	;3;;;;gm-all.sub;#4928
	Meth: VWATER4.M	Barcode:
	Data: BLANK01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method
7	Type: Sample	V4BLK0711;;;;;
	Vial: 100	;3;;;;gm-all.sub;#4928
	Meth: VWATER4.M	Barcode:
	Data: V4BLK01.D	Samp Amt: 0 Multiplr: 1
	Area% Report :per Method	Lib. Search Rep :per Method
	Quant Report :per Method	Post-Quant Macro:per Method
	CR Database :per Method	CR Spreadsheet :per Method

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    Vial: 4                 ;;;;;
    Meth: VWATER4.M         Barcode:
    Data: V4TCLPBL.D        Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Sample        0606468-05;;;;;
    Vial: 5             isp.v06468;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0646805.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Sample        0606468-09;;;;;
    Vial: 6             isp.v06468;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0646809.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Sample        0607023-01;;;;;10x-5ml
    Vial: 7             ch2.v07023;0;;;;tclp.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702301T.D    Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Sample        0607023-01;;;;;10x-5ml (MS)
    Vial: 8             ch2.v07023;3;MS;;;tclp.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 702301TM.D    Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Sample        V4blank;;;;;
    Vial: 100           ;3;;;;gm-all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: BLANK02.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Sample        V4blank;;;;;
    Vial: 100           ;3;;;;gm-all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: BLANK03.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Sample        0607024-21;;;;;tb
    Vial: 9             hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702421.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Sample        0606466-06;;;;;
    Vial: 10            bbl.v06466;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0646606.D     Samp Amt: 0          Multiplr: 1

Sequence:071106V4.S  Last Modified:Tue Jul 11 14:11:10 2006  Page: 2
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CR Database :p

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17 Type: Sample — 0607026-02;;;;;
Vial: 11 — bbl.v07026;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702602.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

18 Type: Sample — 0607024-01;;;;;
Vial: 12 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702401.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

19 Type: Sample — 0607024-02;;;;;
Vial: 13 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702402.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

20 Type: Sample — 0607024-03;;;;;
Vial: 14 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702403.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

21 Type: Sample — 0607024-04;;;;;
Vial: 15 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702404.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

22 Type: Sample — 0607024-05;;;;;
Vial: 16 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702405.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

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23 Type: Sample — 0607024-06;;;;;
Vial: 17 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702406.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

---

24 Type: Sample — 0607024-08;;;;;
Vial: 18 — hop.v07024;0;;;;all.sub;#4928
Meth: VWATER4.M — Barcode:
Data: 0702408.D — Samp Amt: 0 — Multiplr: 1
Area% Report :per Method — Lib. Search Rep :per Method
Quant Report :per Method — Post-Quant Macro:per Method
CR Database :per Method — CR Spreadsheet :per Method

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25 Type: Sample — 0606466-06;;;;;MS

```
   Data: 0646606M.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
26 Type: Sample      0606466-06;;;;;MSD
   Vial: 20          bbl.v06466;3;MSD;;;all.sub;#4928
   Meth: VWATER4.M   Barcode:
   Data: 0646606S.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
27 Type: Sample      V4BFBE 50NG;;;;
   Vial: 50          ;3;BFB;;;all.sub;#4946
   Meth: V4BFB.M     Barcode:
   Data: V4BFB01E.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
28 Type: Sample      V4STDE50ppb;;;;;
   Vial: 21          ;;;;;gm-all.sub;#4928,#4941
   Meth: VWATER4.M   Barcode:
   Data: V4CCV01E.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
29 Type: Spike       V4BLK0711ELCS;;;;;50PPB
   Vial: 22          ;3;LCS;;;gm-all.sub;#4928,4942
   Meth: VWATER4.M   Barcode:
   Data: V4LCS01E.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
30 Type: Sample      V4app9 ccve;;;;;
   Vial: 23          ;;;;;ap9hex.sub;#4928,#4945
   Meth: VWATER4.M   Barcode:
   Data: V4AP9CCE.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
31 Type: Sample      V4blank;;;;;
   Vial: 24          ;3;;;;gm-all.sub;#4928
   Meth: VWATER4.M   Barcode:
   Data: BLANK01E.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
32 Type: Sample      V4BLK0711E;;;;;
   Vial: 100         ;3;;;;gm-all.sub;#4928
   Meth: VWATER4.M   Barcode:
   Data: V4BLK01E.D  Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
   CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
33 Type: Sample      0607024-07;;;;;
   Vial: 25          hop.v07024;0;;;;all.sub;#4928
   Meth: VWATER4.M   Barcode:
   Data: 0702407.D   Samp Amt: 0          Multiplr: 1
   Area% Report     :per Method       Lib. Search Rep :per Method
   Quant Report     :per Method       Post-Quant Macro:per Method
```

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```
34  Type: Sample        hop.v07024;0;;;;all.sub;#4928
    Vial: 26            Barcode:
    Meth: VWATER4.M     Samp Amt: 0          Multiplr: 1
    Data: 0702409.D   :per Method        Lib. Search Rep :per Method
    Area% Report      :per Method        Post-Quant Macro:per Method
    Quant Report      :per Method        CR Spreadsheet  :per Method
    CR Database
-------------------------------------------------------------------------
35  Type: Sample        0607024-10;;;;;
    Vial: 27            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702410.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
36  Type: Sample        0607024-11;;;;;
    Vial: 28            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702411.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
37  Type: Sample        0607024-12;;;;;
    Vial: 29            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702412.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
38  Type: Sample        0607024-13;;;;;
    Vial: 30            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702413.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
39  Type: Sample        0607024-14;;;;;
    Vial: 31            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702414.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
40  Type: Sample        0607024-15;;;;;
    Vial: 32            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702415.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
41  Type: Sample        0607024-16;;;;;
    Vial: 33            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:
    Data: 0702416.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
42  Type: Sample        0607024-17;;;;;
    Vial: 34            hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M     Barcode:

Sequence:071106V4.S  Last Modified:Tue Jul 11 14:11:10 2006  Page: 5
```

```
    CR Database      :per Method       CR Spreadsheet   :per Method
-------------------------------------------------------------------------------
43  Type: Sample       0607024-18;;;;;
    Vial: 35           hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M    Barcode:
    Data: 0702418.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
44  Type: Sample       0607024-19;;;;;
    Vial: 36           hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M    Barcode:
    Data: 0702419.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
45  Type: Sample       0607024-20;;;;;
    Vial: 37           hop.v07024;0;;;;all.sub;#4928
    Meth: VWATER4.M    Barcode:
    Data: 0702420.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
46  Type: Sample       0607024-07;;;;;MS
    Vial: 38           hop.v07024;3;MS;;;all.sub;#4928
    Meth: VWATER4.M    Barcode:
    Data: 0702407M.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
47  Type: Sample       0607024-07;;;;;MSD
    Vial: 39           hop.v07024;3;MSD;;;all.sub;#4928
    Meth: VWATER4.M    Barcode:
    Data: 0702407S.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
```

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Operator: ADM
Data Path: D:\HPCHEM\1\DATA\071006V5\
Pre-Seq Cmd:
Post-Seq Cmd:

695

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: Blank	blank;;;;;	
	Vial: 100	;3;BLANK;;;gm-all.sub;#4928	
	Meth: VWATER5.M	Barcode:	
	Data: PREBLK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
2	Type: BFB	V5BFB 50NG;;;;;	
	Vial: 50	;3;BFB;;;all.sub;#4916	
	Meth: V5BFB.M	Barcode:	
	Data: V5BFB01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
3	Type: Calibration	V5STD200PPB;;;;;	
	Vial: 1	;1;;;8;gm-all.sub;#4928,4941	
	Meth: VWATER5.M	Barcode:	
	Data: V5STD08A.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
4	Type: Calibration	V5STD200PPB;;;;;	
	Vial: 2	;1;;;8;gm-all.sub;#4928,4941	
	Meth: VWATER5.M	Barcode:	
	Data: V5STD08.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
5	Type: Calibration	V5STD100PPB;;;;;	
	Vial: 3	;1;;;7;gm-all.sub;#4928,4941	
	Meth: VWATER5.M	Barcode:	
	Data: V5STD07.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
6	Type: Calibration	V5STD50PPB;;;;;	
	Vial: 4	;1;;;6;gm-all.sub;#4928,4941	
	Meth: VWATER5.M	Barcode:	
	Data: V5STD06.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method
7	Type: Spike	V5BLK0710LCS;;;;; 50PPB	
	Vial: 5	;3;LCS;;;gm-all.sub;#4928,4942	
	Meth: VWATER5.M	Barcode:	
	Data: V5LCS01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:per Method	Lib. Search Rep :per Method
	Quant Report	:per Method	Post-Quant Macro:per Method
	CR Database	:per Method	CR Spreadsheet :per Method

```
    Vial: 6             ;1;;;5;gm-all.sub;#4928,4941
    Meth: VWATER5.M     Barcode:
    Data: V5STD05.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V5STD10PPB;;;;;
    Vial: 7             ;1;;;4;gm-all.sub;#4928,4941
    Meth: VWATER5.M     Barcode:
    Data: V5STD04.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Calibration V5STD2.0PPB;;;;;
    Vial: 8             ;1;;;3;gm-all.sub;#4928,4941
    Meth: VWATER5.M     Barcode:
    Data: V5STD03.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V5STD1.0PPB;;;;;
    Vial: 9             ;1;;;2;gm-all.sub;#4928,4941
    Meth: VWATER5.M     Barcode:
    Data: V5STD02.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V5STD0.5PPB;;;;;
    Vial: 10            ;1;;;1;gm-all.sub;#4928,4941
    Meth: VWATER5.M     Barcode:
    Data: V5STD01.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank         V5BLK0710;;;;;
    Vial: 100           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: V5BLK01.D     Samp Amt: 0           Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Blank         V5BLK0710;;;;;
    Vial: 100           ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: V5BLK02.D     Samp Amt: 0           Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Sample        0607022-12;;;;;tb
    Vial: 11            ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0702212.D     Samp Amt: 0           Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Sample        0607022-01;;;;;eb
    Vial: 12            ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0702201.D     Samp Amt: 0           Multiplr: 1
```

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    Quant Report    :per Method       CR Spreadsheet  :per Method
    CR Database     :per Method
-------------------------------------------------------------------
17  Type: Sample        0607022-02;;;;;eb
    Vial: 13            ch2.v07022;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0702202.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
18  Type: Sample        0607023-02;;;;;eb
    Vial: 14            ch2.v07023;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0702302.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
19  Type: Sample        0607017-02;;;;;tb
    Vial: 15            nas.v07017;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701702.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
20  Type: Sample        0607017-01;;;;;
    Vial: 16            nas.v07017;0;;;;gm-all.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701701.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
21  Type: Sample        0607019-09;;;;;tb
    Vial: 17            ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701909.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
22  Type: Sample        0607019-04;;;;;
    Vial: 18            ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701904.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
23  Type: Sample        0607019-05;;;;;
    Vial: 19            ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701905.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
24  Type: Sample        0607019-06;;;;;
    Vial: 20            ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M     Barcode:
    Data: 0701906.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
25  Type: Sample        0607019-07;;;;;
```

```
    Meth: ------                                  Multiplr: 1
    Data: 0701907.D   Samp Amt: 0          Lib. Search Rep :per Method
    Area% Report     :per Method           Post-Quant Macro:per Method
    Quant Report     :per Method           CR Spreadsheet  :per Method
    CR Database      :per Method
-------------------------------------------------------------------------
26  Type: Sample      0607019-08;;;;;
    Vial: 22          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701908.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
27  Type: Sample      0607019-02;;;;;2x-25ml
    Vial: 23          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701902D.D  Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
28  Type: Sample      0607019-03;;;;;2x-25ml
    Vial: 24          ear.v07019;0;;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701903D.D  Samp Amt: 0          Multiplr: 2
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
29  Type: Sample      0607019-08;;;;;MS
    Vial: 25          ear.v07019;3;MS;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701908M.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
30  Type: Sample      0607019-08;;;;;MSD
    Vial: 26          ear.v07019;3;MSD;;;etrobafb624.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: 0701908S.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
31  Type: Blank       blank;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#4928
    Meth: VWATER5.M   Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method           Lib. Search Rep :per Method
    Quant Report     :per Method           Post-Quant Macro:per Method
    CR Database      :per Method           CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

PHC25 6098

Empirical Laboratories
ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6399-1, 6411-1-3, 6419-1-3	7:30 7/7/6 M		TCLP	VOA
6409-1-4, 6416-2,3 6466-1-3, 5-7	"			VOA
7007-1,2 7012-1, 6424-1-3	"			"
7018-1-3	10:15am 7/7/06 TJM	10:35am 7/7/06 TJM	analysis	GRO
6423-01 7001-01-02	Cam for 4TV	1:30 7/7/6 M	TCLP	VOA
6424-03 7022-1, 2, 12	9:55 7/10/6 M			VOA
7023-02 7019-2-9	"			"
6468-1-13-14	12:45 7/10/6 M			VOA
6468-5,9	10:20 7/11/6 M			VOA
7023-01	Cam for Metr.	10:30 7/11/6 M	TCLP	VOA
7025-02, 7019-9 7024-1-21	12:05 7/11/6 M			VOA
6466-06 7026-02	1:50 7/11/6 M			VOA
7015-01	8:45 7/12/6 M			VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 0702301

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 07/13/06 11:05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
121-14-2	2,4-Dinitrotoluene	0.050	0.13	<0.050	U
118-74-1	Hexachlorobenzene	0.050	0.13	<0.050	U
87-68-3	Hexachlorobutadiene	0.050	0.50	<0.050	U
67-72-1	Hexachloroethane	0.050	3.0	<0.050	U
106-44-5	4-Methylphenol	0.050	200	<0.050	U
95-48-7	2-Methylphenol	0.050	200	<0.050	U
98-95-3	Nitrobenzene	0.050	2.0	<0.050	U
87-86-5	Pentachlorophenol	0.20	100	<0.20	U
110-86-1	Pyridine	0.20	5.0	<0.20	U
95-95-4	2,4,5-Trichlorophenol	0.050	400	<0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	2.0	<0.050	U

FORM 2
TCLP SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SBLK0711B1	48	38	91	80	96	101			0
02	SBLK0711B1LC	46	32	84	75	91	97			0
03	51WC1S060706	45	34	86	77	95	102			0
04	51WC1S060706	47	34	87	79	95	105			0
05										
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	EL QC LIMITS	SPIKE CONC (MG/L)
S1 (2FP) = 2-Fluorophenol	(20-110)	0.10
S2 (PHL) = Phenol-d6	(15-110)	0.10
S3 (NBZ) = Nitrobenzene-d5	(35-110)	0.050
S4 (FBP) = 2-Fluorobiphenyl	(30-110)	0.050
S5 (TBP) = 2,4,6-Tribromophenol	(45-115)	0.10
S6 (TPH) = Terphenyl-d14	(55-115)	0.050

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
TCLP SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Matrix Spike - Client Sample No.: SBLK0711B1

COMPOUND	SPIKE ADDED (MG/L)	SAMPLE CONCENTRATION (MG/L)	LCS CONCENTRATION (MG/L)	LCS % REC #	QC. LIMITS REC.
2,4-Dinitrotoluene	0.05000	0.0000	0.05198	104	65-110
Hexachlorobenzene	0.05000	0.0000	0.04816	96	65-110
Hexachlorobutadiene	0.05000	0.0000	0.02744	55	15-110
Hexachloroethane	0.05000	0.0000	0.02681	54	15-110
4-Methylphenol	0.05000	0.0000	0.03529	70	40-110
2-Methylphenol	0.05000	0.0000	0.03454	69	40-110
Nitrobenzene	0.05000	0.0000	0.04113	82	40-110
Pentachlorophenol	0.05000	0.0000	0.04518	90	50-145
Pyridine	0.05000	0.0000	0.02232	45	10-110
2,4,5-Trichlorophenol	0.05000	0.0000	0.04402	88	60-105
2,4,6-Trichlorophenol	0.05000	0.0000	0.04292	86	55-105

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM 3
TCLP SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Matrix Spike - Client Sample No.: 51WC1S060706 Lab Sample ID: 0607023-01

COMPOUND	SPIKE ADDED (MG/L)	SAMPLE CONCENTRATION (MG/L)	MS CONCENTRATION (MG/L)	MS % REC #	QC. LIMITS REC.
2,4-Dinitrotoluene	0.5000	0.0000	0.5427	108	65-110
Hexachlorobenzene	0.5000	0.0000	0.4676	94	65-110
Hexachlorobutadiene	0.5000	0.0000	0.3164	63	15-110
Hexachloroethane	0.5000	0.0000	0.2986	60	15-110
4-Methylphenol	0.5000	0.0000	0.3823	76	40-110
2-Methylphenol	0.5000	0.0000	0.3796	76	40-110
Nitrobenzene	0.5000	0.0000	0.4198	84	40-110
Pentachlorophenol	0.5000	0.0000	0.4422	88	50-145
Pyridine	0.5000	0.0000	0.2172	43	10-110
2,4,5-Trichlorophenol	0.5000	0.0000	0.4643	93	60-105
2,4,6-Trichlorophenol	0.5000	0.0000	0.4551	91	55-105

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0711B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Lab File ID: SBLK0711 Lab Sample ID: SBLK0711B1

Instrument ID: BNA1 Date Extracted: 07/11/06

Matrix: (soil/water) TCLP Date Analyzed: 07/13/06

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 0919

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0711B1LC	SBLK0711B1LCS	SLCS0711	07/13/06
02	51WC1S060706	0607023-01	0702301	07/13/06
03	51WC1S060706	0607023-01	0702301M	07/13/06
04				
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0711B1

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Matrix: (soil/water) TCLP Lab Sample ID: SBLK0711B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLK0711

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 07/13/06 09:19

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
121-14-2	2,4-Dinitrotoluene	0.0050	0.13	<0.0050	U
118-74-1	Hexachlorobenzene	0.0050	0.13	<0.0050	U
87-68-3	Hexachlorobutadiene	0.0050	0.50	<0.0050	U
67-72-1	Hexachloroethane	0.0050	3.0	<0.0050	U
106-44-5	4-Methylphenol	0.0050	200	<0.0050	U
95-48-7	2-Methylphenol	0.0050	200	<0.0050	U
98-95-3	Nitrobenzene	0.0050	2.0	<0.0050	U
87-86-5	Pentachlorophenol	0.020	100	<0.020	U
110-86-1	Pyridine	0.020	5.0	<0.020	U
95-95-4	2,4,5-Trichlorophenol	0.0050	400	<0.0050	U
88-06-2	2,4,6-Trichlorophenol	0.0050	2.0	<0.0050	U

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Lab File ID: DF0419B1 DFTPP Injection Date: 04/19/06

Instrument ID: BNA1 DFTPP Injection Time: 1530

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.79
441	Present, but less than mass 443	10.3
442	Greater than 40.0% of mass 198	65.3
443	17.0 - 23.0% of mass 442	11.3 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CAL001PPM	CAL001PPM	CAL001	04/19/06	1552
02	CAL002PPM	CAL002PPM	CAL002	04/19/06	1628
03	CAL005PPM	CAL005PPM	CAL005	04/19/06	1704
04	CAL010PPM	CAL010PPM	CAL010	04/19/06	1741
05	CAL020PPM	CAL020PPM	CAL020	04/19/06	1817
06	CAL030PPM	CAL030PPM	CAL030	04/19/06	1853
07	CAL040PPM	CAL040PPM	CAL040	04/19/06	1929
08	CAL050PPM	CAL050PPM	CAL050	04/19/06	2005
09	CAL060PPM	CAL060PPM	CAL060	04/19/06	2041
10	CAL070PPM	CAL070PPM	CAL070	04/19/06	2117
11	CAL080PPM	CAL080PPM	CAL080	04/19/06	2153
12	CAL090PPM	CAL090PPM	CAL090	04/19/06	2228
13	CAL100PPM	CAL100PPM	CAL100	04/19/06	2304
14	ICV050PPM	ICV050PPM	ICV050	04/19/06	2340
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Lab File ID: DF0713B1 DFTPP Injection Date: 07/13/06

Instrument ID: BNA1 DFTPP Injection Time: 0748

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	79.8
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	44.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.0% of mass 198	2.72
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	64.1
443	17.0 - 23.0% of mass 442	14.2 (22.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	07/13/06	0808
02	SBLK0711B1	SBLK0711B1	SBLK0711	07/13/06	0919
03	SBLK0711B1LC	SBLK0711B1LCS	SLCS0711	07/13/06	0954
04	51WC1S060706	0607023-01	0702301	07/13/06	1105
05	51WC1S060706	0607023-01	0702301M	07/13/06	1141
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Lab File ID (Standard): CCV050 Date Analyzed: 07/13/06

Instrument ID: BNA1 Time Analyzed: 0808

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	475280		4.21		1538537		5.20		754607		7.58	
	UPPER LIMIT	950560		4.71		3077074		5.70		1509214		8.08	
	LOWER LIMIT	237640		3.71		769269		4.70		377304		7.08	
	CLIENT SAMPLE NO.												
01	SBLK0711B1	490989		4.20		1631458		5.19		776102		7.58	
02	SBLK0711B1LC	462855		4.21		1525054		5.20		776759		7.58	
03	51WC1S060706	482051		4.20		1581019		5.20		764168		7.57	
04	51WC1S060706	445083		4.21		1504695		5.20		746826		7.58	
05													
06													
07													
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Lab File ID (Standard): CCV050 Date Analyzed: 07/13/06

Instrument ID: BNA1 Time Analyzed: 0808

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	939672		10.85		623172		18.25		631511		22.07	
	UPPER LIMIT	1879344		11.35		1246344		18.75		1263022		22.57	
	LOWER LIMIT	469836		10.35		311586		17.75		315756		21.57	
	CLIENT SAMPLE NO.												
01	SBLK0711B1	962505		10.84		674131		18.22		613619		22.05	
02	SBLK0711B1LC	1022061		10.85		767420		18.25		776154		22.07	
03	51WC1S060706	908556		10.84		597842		18.23		553704		22.05	
04	51WC1S060706	1012564		10.85		692491		18.24		657772		22.06	
05													
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF1: CAL001 RF2: APPC002 RF5: APPC005
RF10: APPC010 RF20: APPC020

COMPOUND	RF1	RF2	RF5	RF10	RF20
2,4-Dinitrotoluene			0.262	0.334	0.384
Hexachlorobenzene	0.308	0.319	0.315	0.309	0.302
Hexachlorobutadiene	0.180	0.192	0.170	0.181	0.180
Hexachloroethane	0.656	0.658	0.622	0.670	0.676
4-Methylphenol	1.298	1.251	1.242	1.289	1.258
2-Methylphenol	1.207	1.296	1.240	1.263	1.318
Nitrobenzene	0.385	0.447	0.452	0.466	0.483
Pentachlorophenol				0.148	0.169
Pyridine	1.807	1.774	1.572	1.809	2.070
2,4,5-Trichlorophenol	0.354	0.338	0.373	0.375	0.414
2,4,6-Trichlorophenol	0.347	0.327	0.364	0.370	0.403
2-Fluorophenol	1.451	1.498	1.441	1.460	1.547
Phenol-d6	1.851	1.851	1.814	1.867	1.859
Nitrobenzene-d5	0.376	0.396	0.412	0.440	0.474
2-Fluorobiphenyl	1.394	1.388	1.399	1.321	1.365
2,4,6-Tribromophenol	0.124	0.130	0.131	0.139	0.158
Terphenyl-d14	0.985	0.980	1.003	1.001	1.081

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF30: APPC030 RF40: APPC050 RF50: APPC050
RF60: CALB060 RF70: APPC070

COMPOUND	RF30	RF40	RF50	RF60	RF70
2,4-Dinitrotoluene	0.417	0.412	0.411	0.427	0.408
Hexachlorobenzene	0.307	0.297	0.283	0.283	0.305
Hexachlorobutadiene	0.170	0.176	0.155	0.166	0.162
Hexachloroethane	0.653	0.637	0.606	0.625	0.629
4-Methylphenol	1.206	1.198	1.113	1.125	1.067
2-Methylphenol	1.248	1.246	1.182	1.210	1.172
Nitrobenzene	0.470	0.475	0.402	0.452	0.434
Pentachlorophenol	0.192	0.194	0.189	0.190	0.199
Pyridine	1.739	1.670	1.769	1.818	1.830
2,4,5-Trichlorophenol	0.409	0.410	0.395	0.400	0.388
2,4,6-Trichlorophenol	0.384	0.395	0.375	0.395	0.376
2-Fluorophenol	1.450	1.359	1.307	1.340	1.385
Phenol-d6	1.712	1.617	1.509	1.606	1.569
Nitrobenzene-d5	0.458	0.474	0.417	0.456	0.443
2-Fluorobiphenyl	1.282	1.292	1.225	1.202	1.211
2,4,6-Tribromophenol	0.162	0.156	0.156	0.153	0.159
Terphenyl-d14	1.005	1.010	1.049	0.974	1.072

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

LAB FILE ID: RF80: CALB080 RF90: CALB090 RF100: APPC100

COMPOUND	RF80	RF90	RF100
2,4-Dinitrotoluene	0.421	0.410	0.438
Hexachlorobenzene	0.294	0.296	0.277
Hexachlorobutadiene	0.159	0.160	0.149
Hexachloroethane	0.597	0.598	0.566
4-Methylphenol	1.036	1.021	0.976
2-Methylphenol	1.196	1.200	1.185
Nitrobenzene	0.428	0.431	0.422
Pentachlorophenol	0.208	0.199	0.212
Pyridine	1.802	1.815	1.720
2,4,5-Trichlorophenol	0.402	0.396	0.397
2,4,6-Trichlorophenol	0.383	0.381	0.378
2-Fluorophenol	1.315	1.268	1.191
Phenol-d6	1.478	1.436	1.360
Nitrobenzene-d5	0.449	0.439	0.443
2-Fluorobiphenyl	1.194	1.159	1.116
2,4,6-Tribromophenol	0.155	0.148	0.146
Terphenyl-d14	1.020	1.027	0.923

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date(s): 02/01/06 04/19/06

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1544 2304

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
2,4-Dinitrotoluene	AVRG	0.39308454	13.1
Hexachlorobenzene	AVRG	0.29967275	4.3
Hexachlorobutadiene	AVRG	0.16912938	7.2
Hexachloroethane	AVRG	0.63023315	5.1
4-Methylphenol	AVRG	1.16010566	9.5
2-Methylphenol	AVRG	1.22788328	3.7
Nitrobenzene	AVRG	0.44209490	6.5
Pentachlorophenol	AVRG	0.19002080	9.8
Pyridine	AVRG	1.78426903	6.3
2,4,5-Trichlorophenol	AVRG	0.38870385	5.9
2,4,6-Trichlorophenol	AVRG	0.37521598	5.4
2-Fluorophenol	AVRG	1.38552559	7.3
Phenol-d6	AVRG	1.65620540	10.9
Nitrobenzene-d5	AVRG	0.43665056	6.7
2-Fluorobiphenyl	AVRG	1.27292566	7.5
2,4,6-Tribromophenol	AVRG	0.14756821	8.4
Terphenyl-d14	AVRG	1.01005240	4.2

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date: 04/19/06 Time: 2340

Lab File ID: ICV050 Init. Calib. Date(s): 02/01/06 04/19/06

Init. Calib. Times: 1544 2304

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
2,4-Dinitrotoluene	0.393	0.411	50.00	52.25		AVRG	4.5	25.0	
Hexachlorobenzene	0.300	0.286	50.00	47.65		AVRG	-4.7	25.0	
Hexachlorobutadiene	0.169	0.173	50.00	51.09		AVRG	2.2	25.0	
Hexachloroethane	0.630	0.612	50.00	48.55		AVRG	-2.9	25.0	
4-Methylphenol	1.160	1.200	50.00	51.70		AVRG	3.4	25.0	
2-Methylphenol	1.228	1.175	50.00	47.85		AVRG	-4.3	25.0	
Nitrobenzene	0.442	0.439	50.00	49.69		AVRG	-0.6	25.0	
Pentachlorophenol	0.190	0.192	50.00	50.49		AVRG	1.0	25.0	
Pyridine	1.784	1.825	50.00	51.15		AVRG	2.3	25.0	
2,4,5-Trichlorophenol	0.388	0.405	50.00	52.13		AVRG	4.2	25.0	
2,4,6-Trichlorophenol	0.375	0.386	50.00	51.42		AVRG	2.8	25.0	
2-Fluorophenol	1.386	0.738	100.0	53.29		AVRG	-46.7	25.0	<
Phenol-d6	1.656	0.893	100.0	53.90		AVRG	-46.1	25.0	<
Nitrobenzene-d5	0.437	0.454	50.00	51.93		AVRG	3.8	25.0	
2-Fluorobiphenyl	1.273	1.226	50.00	48.17		AVRG	-3.6	25.0	
2,4,6-Tribromophenol	0.147	0.080	100.0	54.56		AVRG	-45.4	25.0	<
Terphenyl-d14	1.010	0.932	50.00	46.15		AVRG	-7.7	25.0	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.B07023

Instrument ID: BNA1 Calibration Date: 07/13/06 Time: 0808

Lab File ID: CCV050 Init. Calib. Date(s): 02/01/06 06/14/06

Init. Calib. Times: 1544 0032

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2,4-Dinitrotoluene	0.393	0.400	50.00	50.86		AVRG	1.7	20.0
Hexachlorobenzene	0.300	0.310	50.00	51.72		AVRG	3.4	20.0
Hexachlorobutadiene	0.169	0.172	50.00	50.91		AVRG	1.8	20.0
Hexachloroethane	0.630	0.647	50.00	51.30		AVRG	2.6	20.0
4-Methylphenol	1.160	1.154	50.00	49.73		AVRG	-0.5	20.0
2-Methylphenol	1.228	1.260	50.00	51.31		AVRG	2.6	20.0
Nitrobenzene	0.442	0.468	50.00	52.99		AVRG	6.0	20.0
Pentachlorophenol	0.190	0.186	50.00	48.85		AVRG	-2.3	20.0
Pyridine	1.784	1.566	50.00	43.89		AVRG	-12.2	20.0
2,4,5-Trichlorophenol	0.388	0.384	50.00	49.39		AVRG	-1.2	20.0
2,4,6-Trichlorophenol	0.375	0.379	50.00	50.54		AVRG	1.1	20.0
2-Fluorophenol	1.386	1.402	100.0	101.2		AVRG	1.2	
Phenol-d6	1.656	1.553	100.0	93.79		AVRG	-6.2	
Nitrobenzene-d5	0.437	0.500	50.00	57.28		AVRG	14.6	
2-Fluorobiphenyl	1.273	1.229	50.00	48.28		AVRG	-3.4	
2,4,6-Tribromophenol	0.147	0.165	100.0	112.0		AVRG	12.0	
Terphenyl-d14	1.010	1.096	50.00	54.26		AVRG	8.5	

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC

LABORATORY SAMPLE CUSTODY FORM

WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7007, 7011, 7012, 7021, 7013, 7019, 7020	1130 7/10/06	1335 7/10/06		[illegible]
7011-01 6346-01	8:30 7/10/06			TKN
7009-01	↓ ↓ ↓			CN
6218-08 7016-01,02 7019-01,08	9:03 7/10/06	11:45 7/10/06	used all of 6218-08	Phenol
6384-02	10:10 7/10/06 B70	16:26 7/10/06 B70		ClO4
6468.05-013	12:13 7/10/06	1558 7/10/06		alk
7019, 7024	1340 7/10/06	7/11/06 back to 1430 [illegible]		COD
7008-01 7009-01	7:40 7/11/06	all		Explosives
6468	800 7/11/06	1418 7/11/06		Alk
7017-01	8:50 7/11/06	all		Pest
7024-01-20	09:10 7/11/06 B70	10:35 7/11/06 B70		Anions
6408; 6426; 6466; 6424; 6468; 7002; 7005; 7007; 7012; 7017; 7025	10:51 7-11-06	11:41 7-11-06		Metals
7015-01 7025-01	10:55 7/11/06	all		BNA
7021-01,04,06	13:25 7/11/06	16:00 7/11/06		T-PO4
7028, 7029	1446 7/11/06	[illegible]		BOD
7026-01-7041 7026-01700	645 7/12/06	all		PCB
7017, 7024	740 7/12/06			TDS
7007-01; 7010-02,04; 7021-02,06; 7025-02	8:20 7/12/05			O&G/TPH
6421; 7008; 7009	08:23 7-12-06	10:12 7-12-06		Metals
6468-01-13	8:30 7/12/06	16:00 7/12/06		VFA

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Volume(ml)	Final Volume(ml)	Surrogate Added	Surr Initials	Spike Added	Spk Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor Methylene Chloride	Notes/Comments	#
1	[redacted]	6394-01	071606Blw2	mH		1000-1050	1ml	5ml SV 3Jul8C	mH	NA	NA	—			WS	062123	ii.100	1
2	↓	-02	↓	↓		1000-1050	↓	↓	↓	NA	NA	—			↓	↓	↓	2
3	[redacted]	7001-01				1000-1050				NA	NA	—						3
4	↓	-02				1000-1050				NA	NA	B20						4
5	[redacted]	6411-01				1000-1050				NA	NA	B11						5
6	↓	-02				1000-1050				NA	NA	—						6
7	↓	-03				1000-1000				NA	NA	—						7
8	[redacted]	6419-01				1000-1000				NA	NA	B24						8
9	↓	-02				1000-1000				NA	NA	—						9
10	↓	-03				1000-1000				NA	NA	—						10
11	[redacted]	6423-01				1000-1000				NA	NA						Sealed in 1st Shake	11
12	[redacted]	7007-01			6	1000-1000				NA	NA	—						12
13	↓	-02			↓	1000-1000				NA	NA	B12						13
14	[redacted]	7017-01				960				NA	NA	—						14
15	CHrmHill	7023-01	071606Blw1	mH		1000-1000	1ml	1ml SV 05Jul8C	mH	NA	NA	300					11.95	15
16	[redacted]	7015-01			6	960				NA	NA	TV35						16
17	[redacted]	7025-01	↓	↓	↓	960	↓	↓	↓	NA	NA	—						17
18										NA	NA							18
19										NA	NA							19
20										NA	NA							20
								SAS	SAS							SAS		
	F.Blank #1	1,2,5-11	071606Blw2	mH		1000-1000	1ml	SAS	SAS		mH	B15			WS	SAS		
	F.Blank #2	3,4				1000-1000		SAS	SAS			—				SAS		
	M.Blank	1-14				1000		SAS	SAS			—				SAS		
	LCS	1-14				1000		SAS	SAS	.5ml SV 3Jul4 .5ml SV 3Jul7		—				SAS		
	LCSDup	1-14				1000		SAS	SAS	↓		BZ1				SAS		
	Spk	6411-01				1000-1000		SAS	SAS			—				SAS		
	Dup	7001-02	↓	↓		1000-1000	↓	SAS	SAS		↓	B6			↓	SAS		
								SAS	SAS							SAS		
	F.Blank	7023-01	071606Blw1	mH		1000-1000	1ml	SAS	SAS		mH	—				SAS		
	M.Blank	15-17				1000		SAS	SAS			—				SAS		
	LCS	↓				1000		SAS	SAS	5ml SV 3Jul7		—				SAS		
	Spk	7023-01	↓	↓		1000-1000	↓	SAS	SAS	5ml SV 3Jul4	↓	DIE				SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		

Empirical Laboratories

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7022-06, 07	F. PRO	13:25 7/11/06	BTD	13:50 7/11/06	BTD	Analysis
7008-01, 7009-01	EXP	13:25 7/11/06	BTD	↓	↓	↓
7011-1-3 7001-1,2 7019-1-3 7017-1 7023-1 7023-1	Pest/PCB			200 7-11-06	ug	
7023-1 7014-1-3 7015-1 7025-1	BNA			220 7-11-06	WA	
7217.04, 6236.01 7382.1-5, 6404.01	PEST/PCB	3:30 PM/7.11.06	J.H.	5:15 PM/7.11.06	J.H.	ANALYZE
7411.1-3, 6419.1-3 7011.1,2, 7017.01 7023.01	↓	↓	J.H.	↓	J.H.	↓
7022.02	F. PRO	09:20 7/12/06	BTD	9:25 7/12/06	BTD	Analyze
7006-1-4	PCB			7-12-06 1000	ug	
6423-01 7026-1-3 7006-01-04	PCB	10:28 7/12/06	BTD	15:30 7/12/06	BTD	Analyze
7011-01,02 7023-01	↓	↓	↓	↓	↓	↓
7022-01-11 7	F. PRO	12:15 7/12/06	BTD	↓	↓	ReAnalyze
7411-1-3 7419-1-3 7001-1,2 7023-1	Herb's			7-13-06 1100	ug	
6382-1-4 7042-1 7411-1,2	PCB			7-13-06 1:10	ug	
7023.01, 6382.1-5, 7404.1,2, 6162.1-4 6195.1-4	HERB.	3:05 PM/7.13.06	J.H.	4:10 PM/7.13.06	J.H.	ANALYZE
7015-01 7023-01 7025-01 7411-1-03 6419-1-03 6423-01 7399-01-02 7001-01-02	BNA	8:05 7/13/06	[illegible]	8:30 7/14/06	[illegible]	Analyzed
7017-01-02 7014-01-03 6405.02	↓	↓	↓	↓	↓	↓
7014-01-03; 6384-02 MDL's Soil & Water	F. PRO	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
6423.01 7026-01	PCB	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
7039, 40, 41, 42	↓	↓	↓	↓		↓
7037-1-54	Exp			7-14-06 830	ug	
7036-01	EXP			11:15 7/14/061	WA	
7388-01-07, 09-11 7022-01,02	BNA			11:20 7/14/06	WA	

Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

4/20/06
5279

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0419B1	DFTPPBN1	DF0419B1;;;;;SV3529
4	Sample	2	CAL001	IXBN1	CAL001PPM;;;;;SV3350-1
5	Sample	3	CAL002	IXBN1	CAL002PPM;;;;;SV3350-2
6	Sample	4	CAL005	IXBN1	CAL005PPM;;;;;SV3350-3
7	Sample	5	CAL010	IXBN1	CAL010PPM;;;;;SV3350-4
8	Sample	6	CAL020	IXBN1	CAL020PPM;;;;;SV3350-5
9	Sample	7	CAL030	IXBN1	CAL030PPM;;;;;SV3350-6
10	Sample	8	CAL040	IXBN1	CAL040PPM;;;;;SV3350-7
11	Sample	9	CAL050	IXBN1	CAL050PPM;;;;;SV3350-8
12	Sample	10	CAL060	IXBN1	CAL060PPM;;;;;SV3350-9
13	Sample	11	CAL070	IXBN1	CAL070PPM;;;;;SV3350-10
14	Sample	12	CAL080	IXBN1	CAL080PPM;;;;;SV3350-11
15	Sample	13	CAL090	IXBN1	CAL090PPM;;;;;SV3350-12
16	Sample	14	CAL100	IXBN1	CAL100PPM;;;;;SV3350-13
17	Sample	15	ICV050	IXBN1	ICV050PPM;;;;;SV3355
18	Sample	16	ICV050EX	IXBN1	ICV050PPMex;;;;;SV3356

Operator: ADM
Data Path: C:\HPCHEM\1\DATA\041906B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: Sample	;;;;;ppbna .sub;	
	Vial: 99	Barcode: 041906B1.b	
	Meth: IXBN1.M	Samp Amt: 0	Multiplr: 1
	Data: PRIMER.D		
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
2	Type: Sample	;;;;;ppbna .sub;	
	Vial: 100	Barcode: 041906B1.b	
	Meth: DFTPPBN1.M	Samp Amt: 0	Multiplr: 1
	Data: BLANK01.D		
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
3	Type: Sample	DF0419B1;;;;;SV3529	
	Vial: 1	;;;;;ppbna.sub;	
	Meth: DFTPPBN1.M	Barcode: 041906B1.b	
	Data: DF0419B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	CAL001PPM;;;;;SV3350-1	
	Vial: 2	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL001.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	CAL002PPM;;;;;SV3350-2	
	Vial: 3	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL002.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	CAL005PPM;;;;;SV3350-3	
	Vial: 4	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL005.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	CAL010PPM;;;;;SV3350-4	
	Vial: 5	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: CAL010.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	CAL020PPM;;;;;SV3350-5	
	Vial: 6	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	

ence: 041906B1.S Last Modified: Wed Apr 19 15:18:21 2006 Page: 1

Quant Report :Default CR Spreadsheet :Default
CR Database :Default

---

9 Type: Sample CAL030PPM;;;;;SV3350-6
Vial: 7 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL030.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample CAL040PPM;;;;;SV3350-7
Vial: 8 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL040.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample CAL050PPM;;;;;SV3350-8
Vial: 9 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL050.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample CAL060PPM;;;;;SV3350-9
Vial: 10 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL060.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample CAL070PPM;;;;;SV3350-10
Vial: 11 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL070.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample CAL080PPM;;;;;SV3350-11
Vial: 12 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL080.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample CAL090PPM;;;;;SV3350-12
Vial: 13 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL090.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample CAL100PPM;;;;;SV3350-13
Vial: 14 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: CAL100.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample ICV050PPM;;;;;SV3355
Vial: 15 ;;;;;ppbna1.sub;3549
Meth: IXBN1.M Barcode: 041906B1.b
Data: ICV050.D Samp Amt: 0 Multiplr: 1

18	Type: Sample	ICV050PPMex;;;;;SV3356	
	Vial: 16	;;;;;ppbna1.sub;3549	
	Meth: IXBN1.M	Barcode: 041906B1.b	
	Data: ICV050EX.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default

Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071306B1\
Pre-Seq Cmd:
Post-Seq Cmd:

7/14/06
SS

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	99	PRIMER	IXBN1	
2	Sample	100	BLANK01	DFTPPBN1	
3	Sample	1	DF0713B1	DFTPPBN1	DF0713B1;;;;;SV3529
4	Sample	2	CCV050	IXBN1	CCV050PPM;;;;;SV3626
5	QC	3	FBLK0711	IXBN1	FBLK0711B1;100;1000;1;UG/L;11-JUL-200
6	QC	4	SBLK0711	IXBN1	SBLK0711B1;1000;1000;1;UG/L;11-JUL-20
7	QC	5	SLCS0711	IXBN1	SBLK0711B1;1000;1000;1;UG/L;11-JUL-20
8	Sample	6	0701501	IXBN1	0607015-01;960;1000;1;UG/L;11-JUL-200
9	Sample	7	0702301	IXBN1	0607023-01;100;1000;1;UG/L;11-JUL-200
10	QC	8	0702301M	IXBN1	0607023-01;100;1000;1;UG/L;11-JUL-200
11	Sample	9	0702501	IXBN1	0607025-01;960;1000;1;UG/L;11-JUL-200
12	QC	10	F1BL0710	IXBN1	F1BLK0710B2;100;1000;1;UG/L;10-JUL-20
13	QC	11	F2BL0710	IXBN1	F2BLK0710B2;100;1000;1;UG/L;10-JUL-20
14	QC	12	SBLK0710	IXBN1	SBLK0710B2;1000;1000;1;UG/L;10-JUL-20
15	QC	13	SLCS0710	IXBN1	SBLK0710B2LCS;1000;1000;1;UG/L;10-JUL
16	QC	14	SLCD0710	IXBN1	SBLK0710B2LCSD;1000;1000;1;UG/L;10-JU
17	Sample	15	0641101	IXBN1	0606411-01;100;1000;1;UG/L;10-JUL-200
18	QC	16	0641101M	IXBN1	0606411-01;100;1000;1;UG/L;10-JUL-200
19	Sample	17	0641102	IXBN1	0606411-02;100;1000;1;UG/L;10-JUL-200
20	Sample	18	0641103	IXBN1	0606411-03;100;1000;1;UG/L;10-JUL-200
21	Sample	19	0641901	IXBN1	0606419-01;100;1000;1;UG/L;10-JUL-200
22	Sample	20	0641902	IXBN1	0606419-02;100;1000;1;UG/L;10-JUL-200
23	Sample	21	0641903	IXBN1	0606419-03;100;1000;1;UG/L;10-JUL-200
24	Sample	1	DF0713B2	DFTPPBN1	DF0713B2;;;;;SV3529
25	Sample	2	CCV050E	IXBN1	CCV050PPM;;;;;SV3626
26	Sample	22	0642301	IXBN1	0606423-01;100;1000;1;UG/L;10-JUL-200
27	Sample	23	0639901	IXBN1	0606399-01;100;1000;1;UG/L;10-JUL-200
28	Sample	24	0639902	IXBN1	0606399-02;100;1000;1;UG/L;10-JUL-200
29	Sample	25	0700101	IXBN1	0607001-01;100;1000;1;UG/L;10-JUL-200
30	Sample	26	0700102	IXBN1	0607001-02;100;1000;1;UG/L;10-JUL-200
31	QC	27	0700102D	IXBN1	0607001-02;100;1000;1;UG/L;10-JUL-200
32	Sample	28	0701701	IXBN1	0607017-01;960;1000;1;UG/L;10-JUL-200
33	Sample	29	0700701	IXBN1	0607017-01;100;1000;1;UG/L;10-JUL-200
34	Sample	30	0700702	IXBN1	0607017-02;100;1000;1;UG/L;10-JUL-200
35	QC	31	BLK0711	IXSOX1	SBLK0711BS1;15;1000;1;UG/L;11-JUL-200
36	QC	32	LCS0711	IXSOX1	SBLK0711BS1LCS;15;1000;1;UG/L;11-JUL-
37	Sample	33	0701401	IXSOX1	0607014-01;15.4;1000;1;UG/L;11-JUL-20
38	Sample	34	0701402	IXSOX1	0607014-02;15.6;1000;1;UG/L;11-JUL-20
39	Sample	35	0701403	IXSOX1	0607014-03;15.3;1000;1;UG/L;11-JUL-20
40	QC	36	SBLK0706	IXSOX1	SBLK0706BS1;15;1000;1;UG/L;06-JUL-200
41	QC	37	SLCS0706	IXSOX1	SBLK0706BS1LCS;15;1000;1;UG/L;06-JUL-
42	Sample	38	0640502	IXSOX1	0606405-02;15.1;1000;1;UG/L;06-JUL-20

Comment: SW846-8270C/625
Operator: SDB
Data Path: C:\HPCHEM\1\DATA\071306B1\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample Vial: 99 Meth: IXBN1.M Data: PRIMER.D Area% Report :Default Quant Report :Default CR Database :Default	;;;;;ppbna .sub; Barcode: 071306B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2 Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK01.D Area% Report :Default Quant Report :Default CR Database :Default	;;;;;ppbna .sub; Barcode: 071306B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3 Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0713B1.D Area% Report :Default Quant Report :Default CR Database :Default	DF0713B1;;;;;SV3529 ;;;;;ppbna.sub; Barcode: 071306B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4 Type: Sample Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;SV3626 ;;;;;ppbna.sub;3623 Barcode: 071306B1.b Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5 Type: QC Vial: 3 Meth: IXBN1.M Data: FBLK0711.D Area% Report :Default Quant Report :Default CR Database :Default	FBLK0711B1;100;1000;1;UG/L;11-JUL-2006 ;BLANK;;;071106B1;tclp.sub;3623 Barcode: 071306B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6 Type: QC Vial: 4 Meth: IXBN1.M Data: SBLK0711.D Area% Report :Default Quant Report :Default CR Database :Default	SBLK0711B1;1000;1000;1;UG/L;11-JUL-2006 ;BLANK;;;071106B1;ppbna.sub;3623 Barcode: 071306B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7 Type: QC Vial: 5 Meth: IXBN1.M Data: SLCS0711.D Area% Report :Default Quant Report :Default CR Database :Default	SBLK0711B1;1000;1000;1;UG/L;11-JUL-2006 ;BLANK;;;071106B1;ppbna.sub;3623 Barcode: 071306B1.b LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8 Type: Sample Vial: 6 Meth: IXBN1.M	0607015-01;960;1000;1;UG/L;11-JUL-2006 ch2.b07015;;;;071106B1;ppbna.sub;3623 Barcode: 071306B1.b

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
9   Type: Sample      0607023-01;100;1000;1;UG/L;11-JUL-2006
    Vial: 7           ch2.b07023;;;;071106B1;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0702301.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: QC          0607023-01;100;1000;1;UG/L;11-JUL-2006
    Vial: 8           ch2.b07023;MS;;;071106B1;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0702301M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: Sample      0607025-01;960;1000;1;UG/L;11-JUL-2006
    Vial: 9           isp.b07025;;;;071106B1;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0702501.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12  Type: QC          F1BLK0710B2;100;1000;1;UG/L;10-JUL-2006
    Vial: 10          ;BLANK;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: F1BL0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13  Type: QC          F2BLK0710B2;100;1000;1;UG/L;10-JUL-2006
    Vial: 11          ;BLANK;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: F2BL0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14  Type: QC          SBLK0710B2;1000;1000;1;UG/L;10-JUL-2006
    Vial: 12          ;BLANK;;;071006B1;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: SBLK0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15  Type: QC          SBLK0710B2LCS;1000;1000;1;UG/L;10-JUL-2006
    Vial: 13          ;LCS;;;071006B2;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: SLCS0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16  Type: QC          SBLK0710B2LCSD;1000;1000;1;UG/L;10-JUL-2006
    Vial: 14          ;LCSD;;;071006B2;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: SLCD0710.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17  Type: Sample      0606411-01;100;1000;1;UG/L;10-JUL-2006
    Vial: 15          aaa.b06411;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641101.D   Samp Amt: 0          Multiplr: 1
```

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    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: QC          0606411-01;100;1000;1;UG/L;10-JUL-2006
    Vial: 16          aaa.b06411;MS;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641101M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0606411-02;100;1000;1;UG/L;10-JUL-2006
    Vial: 17          aaa.b06411;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641102.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0606411-03;100;1000;1;UG/L;10-JUL-2006
    Vial: 18          aaa.b06411;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641103.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      0606419-01;100;1000;1;UG/L;10-JUL-2006
    Vial: 19          aaa.b06419;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641901.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample      0606419-02;100;1000;1;UG/L;10-JUL-2006
    Vial: 20          aaa.b06419;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641902.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample      0606419-03;100;1000;1;UG/L;10-JUL-2006
    Vial: 21          aaa.b06419;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306B1.b
    Data: 0641903.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      DF0713B2;;;;;SV3529
    Vial: 1           ;;;;;ppbna.sub;
    Meth: DFTPPBN1.M  Barcode: 071306eB1.b
    Data: DF0713B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      CCV050PPM;;;;;SV3626
    Vial: 2           ;;;;;ppbna.sub;3623
    Meth: IXBN1.M     Barcode: 071306eB1.b
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      0606423-01;100;1000;1;UG/L;10-JUL-2006
    Vial: 22          sha.b06423;;;;071006B2;tclp.sub;3623
    Meth: IXBN1.M     Barcode: 071306eB1.b
    Data: 0642301.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

CR Database :Default CR Spreadsheet :Default

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27 Type: Sample 0606399-01;100;1000;1;UG/L;10-JUL-2006
Vial: 23 nis.b06399;;;;071006B2;ppbna.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0639901.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

28 Type: Sample 0606399-02;100;1000;1;UG/L;10-JUL-2006
Vial: 24 nis.b06399;;;;071006B2;ppbna.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0639902.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

29 Type: Sample 0607001-01;100;1000;1;UG/L;10-JUL-2006
Vial: 25 aaa.b07001;;;;071006B2;tclp.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0700101.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

30 Type: Sample 0607001-02;100;1000;1;UG/L;10-JUL-2006
Vial: 26 aaa.b07001;;;;071006B2;tclp.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0700102.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

31 Type: QC 0607001-02;100;1000;1;UG/L;10-JUL-2006
Vial: 27 aaa.b07001;DUP;;;071006B2;tclp.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0700102D.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

32 Type: Sample 0607017-01;960;1000;1;UG/L;10-JUL-2006
Vial: 28 nas.b07017;;;;071006B2;tclp.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0701701.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

33 Type: Sample 0607017-01;100;1000;1;UG/L;10-JUL-2006
Vial: 29 ark.b07007;;;;071006B2;acarrwk.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0700701.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

34 Type: Sample 0607017-02;100;1000;1;UG/L;10-JUL-2006
Vial: 30 ark.b07007;;;;071006B2;acarrwk.sub;3623
Meth: IXBN1.M Barcode: 071306eB1.b
Data: 0700702.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

35 Type: QC SBLK0711BS1;15;1000;1;UG/L;11-JUL-2006
Vial: 31 ;BLANK;;;071106BS1;ppbna.sub;3623
Meth: IXSOX1.M Barcode: 071306eB1.b
Data: BLK0711.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default

```
36  Type: QC              SBLK0711BS1LCS;15;1000;1;UG/L;11-JUL-2006
    Vial: 32              ;LCS;;;071106BS1;ppbna.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: LCS0711.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
37  Type: Sample          0607014-01;15.4;1000;1;UG/L;11-JUL-2006
    Vial: 33              sha.b07014;;;;071106BS1;it-tcl.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: 0701401.D       Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
38  Type: Sample          0607014-02;15.6;1000;1;UG/L;11-JUL-2006
    Vial: 34              sha.b07014;;;;071106BS1;it-tcl.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: 0701402.D       Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
39  Type: Sample          0607014-03;15.3;1000;1;UG/L;11-JUL-2006
    Vial: 35              sha.b07014;;;;071106BS1;it-tcl.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: 0701403.D       Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
40  Type: QC              SBLK0706BS1;15;1000;1;UG/L;06-JUL-2006
    Vial: 36              ;BLANK;;;070606BS1;ppbna.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: SBLK0706.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
41  Type: QC              SBLK0706BS1LCS;15;1000;1;UG/L;06-JUL-2006
    Vial: 37              ;LCS;;;070606BS1;ppbna.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: SLCS0706.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
42  Type: Sample          0606405-02;15.1;1000;1;UG/L;06-JUL-2006
    Vial: 38              sai.b06405;;;;070606BS1;ppbna.sub;3623
    Meth: IXSOX1.M        Barcode: 071306eB1.b
    Data: 0640502.D       Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
43
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FORM 1
PESTA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 054F5401

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/13/06 13:55

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
12789-03-6	Chlordane	0.00050	0.030	<0.00050	U
72-20-8	Endrin	0.00010	0.020	<0.00010	U
58-89-9	Gamma-BHC	0.00010	0.40	<0.00010	U
76-44-8	Heptachlor	0.00010	0.0080	<0.00010	U
1024-57-3	Heptachlor Epoxide	0.00010	0.0080	<0.00010	U
72-43-5	Methoxychlor	0.00010	10	<0.00010	U
8001-35-2	Toxaphene	0.010	0.50	<0.010	U

FORM 2
TCLP PESTICIDE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Column(1): RTX-CLP ID: 0.32 (mm) Column(2): RTX-CLPII ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PW1BLK0711	35	36	26	27			0
02	PW1BLK0711LC	43	43	39	36			0
03	PW1BLK0711LC	41	42	33	32			0
04	51WC1S060706	42	42	44	42			0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= TCMX	(25-120)	0.0050
S2	= DCB	(25-130)	0.0050

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
TCLP PESTICIDE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Matrix Spike - Client Sample No.: PW1BLK0711

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Endrin	0.001000	0.0000	0.0005414	54	45-140
Gamma-BHC	0.001000	0.0000	0.0005130	51	30-150
Heptachlor	0.001000	0.0000	0.0004510	45	30-115
Heptachlor Epoxide	0.001000	0.0000	0.0005207	52	45-140
Methoxychlor	0.001000	0.0000	0.0005475	55	40-140

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Endrin	0.001000	0.0005167	52	5	30	45-140
Gamma-BHC	0.001000	0.0004902	49	4	30	30-150
Heptachlor	0.001000	0.0004270	43	5	30	30-115
Heptachlor Epoxide	0.001000	0.0004944	49	5	30	45-140
Methoxychlor	0.001000	0.0005045	50	8	30	40-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PW1BLK0711

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Lab Sample ID: PW1BLK0711 Lab File ID: 035F3501

Matrix (soil/water) TCLP Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 07/11/06

Date Analyzed (1): 07/13/06 Date Analyzed (2): 07/13/06

Time Analyzed (1): 0502 Time Analyzed (2): 0502

Instrument ID (1): ECD3 Instrument ID (2): ECD3

Column (1): RTX-CLP ID: 0.32(mm) Column (2): RTX-CLPII ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PW1BLK0711LC	PW1BLK0711LCS	07/13/06	07/13/06
02	PW1BLK0711LC	PW1BLK0711LCSD	07/13/06	07/13/06
03	51WC1S060706	0607023-01	07/13/06	07/13/06
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PESTA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PW1BLK0711

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) TCLP Lab Sample ID: PW1BLK0711

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 035F3501

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/11/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/13/06 05:02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
12789-03-6	Chlordane	0.00050	0.030	<0.00050	U
72-20-8	Endrin	0.00010	0.020	<0.00010	U
58-89-9	Gamma-BHC	0.00010	0.40	<0.00010	U
76-44-8	Heptachlor	0.00010	0.0080	<0.00010	U
1024-57-3	Heptachlor Epoxide	0.00010	0.0080	<0.00010	U
72-43-5	Methoxychlor	0.00010	10	<0.00010	U
8001-35-2	Toxaphene	0.010	0.50	<0.010	U

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RF200: 005F0501 RF100: 006F0601 RF50: 007F0701
RF25: 008F0801 RF10: 009F0901

COMPOUND	RF200	RF100	RF50	RF25	RF10
Aldrin	5905.160	6226.470	5871.180	6781.880	5684.500
Alpha-BHC	×7858.520	×8434.050	×7733.920	×8369.040	×7451.000
Alpha-Chlordane	5112.490	5393.370	5205.480	6345.240	5310.700
Beta-BHC	2980.160	3225.940	3042.820	3473.640	3258.600
4,4'-DDD	3445.940	3480.910	3029.460	3634.160	2536.200
4,4'-DDE	4214.570	4442.940	4107.380	4868.280	3755.000
4,4'-DDT	3622.810	3844.140	3563.440	4290.520	3119.800
Delta-BHC	6539.215	7016.650	6361.200	6925.640	5956.100
Dieldrin	5205.630	5479.990	5251.860	6248.480	5104.200
Endosulfan I	5291.765	5591.330	5384.800	6623.920	5468.700
Endosulfan II	4372.680	4617.490	4481.760	5328.920	4365.200
Endosulfan Sulfate	3696.395	4061.650	3994.440	4887.320	4063.600
Endrin	4404.900	4620.020	4434.300	5144.600	4280.700
Endrin Aldehyde	3338.160	3667.850	3594.060	4438.520	3566.600
Endrin Ketone	4226.655	4818.160	4816.560	6070.720	4930.000
Gamma-BHC	7074.520	7628.000	6973.020	7651.640	6757.900
Gamma-Chlordane	5273.925	5539.180	5267.720	6392.720	5330.500
Heptachlor	6515.590	7008.240	6531.160	7560.320	6603.000
Heptachlor Epoxide	5459.620	5789.910	5561.740	6665.160	5649.000
Methoxychlor	1407.355	1663.120	1586.160	2122.640	1509.700
TCMX	5244.905	5697.540	5283.340	5757.400	5397.000
DCB	2013.010	2499.210	2677.980	3982.440	3062.400

J.H. 7.14.06
BTD. 7.17.06

FORM VI PESTA

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RF5: 010F1001 RF1: 011F1101

COMPOUND	RF5	RF1
Aldrin	6479.600	6760.000
Alpha-BHC	8080.600	8406.000
Alpha-Chlordane	6500.800	6830.000
Beta-BHC	3564.600	3964.000
4,4'-DDD	3426.200	2490.000
4,4'-DDE	4674.600	4532.000
4,4'-DDT	4137.400	3613.000
Delta-BHC	6451.200	6692.000
Dieldrin	6200.800	6226.000
Endosulfan I	6622.400	6664.000
Endosulfan II	5547.400	5290.000
Endosulfan Sulfate	5226.200	5164.000
Endrin	5469.800	5234.000
Endrin Aldehyde	4585.800	4180.000
Endrin Ketone	6479.600	6436.000
Gamma-BHC	7193.600	7741.000
Gamma-Chlordane	6504.000	7323.000
Heptachlor	7546.200	8144.000
Heptachlor Epoxide	6733.800	7214.000
Methoxychlor	2078.000	1919.000
TCMX	5882.000	6346.000
DCB	4560.400	4676.000

FORM VI PESTA

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1500 1748

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Aldrin	AVRG		6244.11286		7.1
Alpha-BHC	AVRG		8047.59000		4.7
Alpha-Chlordane	AVRG		5814.01143		12.3
Beta-BHC	AVRG		3358.53714		10.1
4,4'-DDD	AVRG		3148.98143		15.0
4,4'-DDE	AVRG		4370.68143		8.6
4,4'-DDT	AVRG		3741.58714		10.4
Delta-BHC	AVRG		6563.14357		5.5
Dieldrin	AVRG		5673.85143		9.3
Endosulfan I	AVRG		5949.55929		10.9
Endosulfan II	AVRG		4857.63571		10.5
Endosulfan Sulfate	AVRG		4441.94357		14.2
Endrin	AVRG		4798.33143		9.9
Endrin Aldehyde	AVRG		3910.14143		12.4
Endrin Ketone	AVRG		5396.81357		16.8
Gamma-BHC	AVRG		7288.52571		5.3
Gamma-Chlordane	AVRG		5947.29214		13.5
Heptachlor	AVRG		7129.78714		8.9
Heptachlor Epoxide	AVRG		6153.31857		11.4
Methoxychlor	AVRG		1755.13929		16.2
TCMX	AVRG		5658.31214		6.9
DCB	2ORDR	0.00000000	2.502e-004	6.122e-010	0.998

FORM VI PESTA

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RT1: 005F0501 RT2: 006F0601 RT3: 007F0701
RT4: 008F0801 RT5: 009F0901

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	11.550	11.540	11.540	11.537	11.540
Alpha-BHC	9.230	9.220	9.220	9.216	9.220
Alpha-Chlordane	13.220	13.210	13.210	13.207	13.210
Beta-BHC	10.150	10.130	10.130	10.131	10.130
4,4'-DDD	14.440	14.440	14.430	14.432	14.430
4,4'-DDE	13.360	13.350	13.350	13.344	13.350
4,4'-DDT	14.940	14.930	14.930	14.929	14.930
Delta-BHC	10.520	10.510	10.510	10.504	10.510
Dieldrin	13.920	13.910	13.910	13.906	13.910
Endosulfan I	13.480	13.470	13.470	13.467	13.470
Endosulfan II	14.750	14.740	14.740	14.737	14.740
Endosulfan Sulfate	16.280	16.270	16.270	16.267	16.270
Endrin	14.340	14.330	14.330	14.331	14.330
Endrin Aldehyde	15.500	15.490	15.490	15.491	15.490
Endrin Ketone	16.770	16.770	16.770	16.764	16.770
Gamma-BHC	9.950	9.930	9.930	9.929	9.930
Gamma-Chlordane	12.970	12.960	12.960	12.957	12.960
Heptachlor	10.950	10.930	10.930	10.929	10.930
Heptachlor Epoxide	12.740	12.730	12.730	12.727	12.730
Methoxychlor	15.780	15.770	15.770	15.769	15.770
TCMX	7.880	7.860	7.860	7.859	7.860
DCB	18.470	18.460	18.460	18.457	18.460

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RT6: 010F1001 RT7: 011F1101

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	11.540	11.540	11.541	11.507	11.567
Alpha-BHC	9.220	9.220	9.221	9.186	9.246
Alpha-Chlordane	13.210	13.210	13.211	13.177	13.237
Beta-BHC	10.130	10.130	10.133	10.101	10.161
4,4'-DDD	14.440	14.430	14.435	14.402	14.462
4,4'-DDE	13.350	13.340	13.349	13.314	13.374
4,4'-DDT	14.930	14.930	14.931	14.899	14.959
Delta-BHC	10.510	10.510	10.511	10.474	10.534
Dieldrin	13.910	13.910	13.911	13.876	13.936
Endosulfan I	13.470	13.470	13.471	13.437	13.497
Endosulfan II	14.740	14.740	14.741	14.707	14.767
Endosulfan Sulfate	16.270	16.270	16.271	16.237	16.297
Endrin	14.330	14.330	14.332	14.301	14.361
Endrin Aldehyde	15.500	15.490	15.493	15.461	15.521
Endrin Ketone	16.770	16.760	16.768	16.734	16.794
Gamma-BHC	9.930	9.930	9.933	9.899	9.959
Gamma-Chlordane	12.960	12.960	12.961	12.927	12.987
Heptachlor	10.930	10.930	10.933	10.899	10.959
Heptachlor Epoxide	12.730	12.730	12.731	12.697	12.757
Methoxychlor	15.770	15.770	15.771	15.739	15.799
TCMX	7.860	7.860	7.863	7.829	7.889
DCB	18.460	18.460	18.461	18.427	18.487

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): ~~07/06/06~~ O.H. 7.14.06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): ~~1342~~ 1912

RF5: 013F1301

COMPOUND		RF5	CURVE	COEFFICENT A1	%RSD OR R^2
Chlordane		x 919.400	AVRG	919.400000	0.0
	(2)	6 258.800	AVRG	258.800000	0.0
	(3)	725.200	AVRG	725.200000	0.0
	(4)	453.200	AVRG	453.200000	0.0
	(5)	582.600	AVRG	582.600000	0.0

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): ~~07/06/06~~ S.H. 7.14.06 07/12/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): ~~1342~~ 1912

RF5: 014F1401

COMPOUND	RF5	CURVE	COEFFICENT A1	%RSD OR R^2
Toxaphene	236.500	AVRG	236.500000	0.0
(2)	47.260	AVRG	47.2600000	0.0
(3)	67.280	AVRG	67.2800000	0.0
(4)	98.990	AVRG	98.9900000	0.0
(5)	192.860	AVRG	192.860000	0.0
(6)	109.300	AVRG	109.300000	0.0
(7)	146.040	AVRG	146.040000	0.0
(8)	130.380	AVRG	130.380000	0.0
(9)	140.650	AVRG	140.650000	0.0
(10)	87.260	AVRG	87.2600000	0.0

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RF200: 005R0501 RF100: 006R0601 RF50: 007R0701
RF25: 008R0801 RF10: 009R0901

COMPOUND	RF200	RF100	RF50	RF25	RF10
Aldrin	7081.615	7633.050	7321.320	8078.360	6569.300
Alpha-BHC	10352.345	10991.250	10404.540	10718.920	8981.200
Alpha-Chlordane	5811.520	6260.330	6255.860	7380.680	6125.300
Beta-BHC	3954.440	4295.180	4257.040	4581.720	4238.800
4,4'-DDD	4158.360	4590.430	4536.800	5365.640	4184.300
4,4'-DDE	5455.870	5875.380	5757.740	6700.280	5183.200
4,4'-DDT	4197.945	4630.920	4640.160	5765.680	4335.400
Delta-BHC	8789.515	9508.710	9015.160	9397.760	7813.600
Dieldrin	6025.215	6436.390	6374.820	7462.160	5970.600
Endosulfan I	5578.600	5983.430	5938.560	6981.560	5717.400
Endosulfan II	4932.540	5289.230	5316.180	6296.080	5143.700
Endosulfan Sulfate	4115.895	4558.430	4611.260	5669.800	4616.300
Endrin	5376.330	5757.090	5747.700	6777.640	5499.200
Endrin Aldehyde	3777.285	4184.170	4286.560	5261.000	4264.600
Endrin Ketone	4604.805	5282.950	5377.800	6753.800	5417.200
Gamma-BHC	9132.445	9868.010	9470.640	9813.440	8379.900
Gamma-Chlordane	6064.305	6510.930	6429.060	7496.240	6129.400
Heptachlor	7989.545	8704.870	8398.440	9210.480	7805.600
Heptachlor Epoxide	6400.295	6923.410	6813.640	7935.840	6525.400
Methoxychlor	1775.165	2213.220	2318.860	3111.720	2546.500
TCMX	7022.055	7471.230	7203.740	7660.480	7128.900
DCB	1854.605	2338.300	2644.860	3941.720	3189.300

J.H. 7.14.06
BTD 7-17-06

FORM VI PESTA

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RF5: 010R1001 RF1: 011R1101

COMPOUND	RF5	RF1
Aldrin	7610.600	8883.000
Alpha-BHC	9477.600	10899.000
Alpha-Chlordane	7529.800	9138.000
Beta-BHC	4748.200	5711.000
4,4'-DDD	5261.800	5700.000
4,4'-DDE	6358.000	7065.000
4,4'-DDT	5499.000	5563.000
Delta-BHC	8612.600	10048.000
Dieldrin	7305.400	8267.000
Endosulfan I	6968.800	8169.000
Endosulfan II	6409.600	7333.000
Endosulfan Sulfate	5947.400	6813.000
Endrin	6839.400	7828.000
Endrin Aldehyde	5394.000	6003.000
Endrin Ketone	7201.000	8415.000
Gamma-BHC	8929.800	10630.000
Gamma-Chlordane	7440.200	8689.000
Heptachlor	9070.600	10801.000
Heptachlor Epoxide	7833.000	9175.000
Methoxychlor	3507.400	3757.000
TCMX	7763.600	9182.000
DCB	4803.200	5648.000

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): 1500 1748

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Aldrin	AVRG		7596.74929		9.7
Alpha-BHC	AVRG		10260.6936		7.4
Alpha-Chlordane	AVRG		6928.78429		16.9
Beta-BHC	AVRG		4540.91143		12.7
4,4'-DDD	AVRG		4828.19000		12.6
4,4'-DDE	AVRG		6056.49571		11.2
4,4'-DDT	AVRG		4947.44357		13.0
Delta-BHC	AVRG		9026.47786		8.0
Dieldrin	AVRG		6834.51214		12.6
Endosulfan I	AVRG		6476.76429		14.5
Endosulfan II	AVRG		5817.19000		15.1
Endosulfan Sulfate	AVRG		5190.29786		18.7
Endrin	AVRG		6260.76571		14.5
Endrin Aldehyde	AVRG		4738.65929		17.1
Endrin Ketone	2ORDR	0.00000000	1.561e-004	6.611e-011	0.999
Gamma-BHC	AVRG		9460.60500		7.7
Gamma-Chlordane	AVRG		6965.59071		13.7
Heptachlor	AVRG		8854.36214		11.3
Heptachlor Epoxide	AVRG		7372.36929		13.5
Methoxychlor	2ORDR	0.00000000	3.044e-004	7.238e-010	0.998
TCMX	AVRG		7633.14357		9.6
DCB	2ORDR	0.00000000	2.338e-004	8.253e-010	0.998

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RT1: 005R0501 RT2: 006R0601 RT3: 007R0701
RT4: 008R0801 RT5: 009R0901

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	11.110	11.110	11.110	11.106	11.110
Alpha-BHC	8.810	8.810	8.810	8.806	8.810
Alpha-Chlordane	12.840	12.830	12.830	12.827	12.830
Beta-BHC	9.790	9.780	9.780	9.781	9.780
4,4'-DDD	14.190	14.190	14.190	14.184	14.190
4,4'-DDE	13.160	13.160	13.160	13.154	13.160
4,4'-DDT	14.740	14.740	14.740	14.734	14.740
Delta-BHC	10.380	10.370	10.370	10.372	10.370
Dieldrin	13.430	13.420	13.420	13.421	13.420
Endosulfan I	12.930	12.930	12.930	12.924	12.930
Endosulfan II	14.350	14.340	14.340	14.342	14.340
Endosulfan Sulfate	15.440	15.440	15.440	15.434	15.440
Endrin	13.970	13.960	13.960	13.962	13.960
Endrin Aldehyde	14.950	14.950	14.950	14.942	14.950
Endrin Ketone	16.360	16.360	16.360	16.356	16.360
Gamma-BHC	9.590	9.580	9.580	9.581	9.580
Gamma-Chlordane	12.570	12.560	12.560	12.557	12.560
Heptachlor	10.480	10.480	10.480	10.476	10.480
Heptachlor Epoxide	12.220	12.210	12.210	12.209	12.210
Methoxychlor	15.950	15.940	15.940	15.939	15.940
TCMX	7.350	7.350	7.350	7.352	7.350
DCB	18.500	18.490	18.490	18.492	18.490

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): 07/12/06 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): 1500 1748

LAB FILE ID: RT6: 010R1001 RT7: 011R1101

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	11.110	11.110	11.109	11.076	11.136
Alpha-BHC	8.810	8.800	8.808	8.776	8.836
Alpha-Chlordane	12.830	12.830	12.831	12.797	12.857
Beta-BHC	9.780	9.780	9.781	9.751	9.811
4,4'-DDD	14.190	14.180	14.188	14.154	14.214
4,4'-DDE	13.160	13.150	13.158	13.124	13.184
4,4'-DDT	14.740	14.730	14.738	14.704	14.764
Delta-BHC	10.370	10.370	10.372	10.342	10.402
Dieldrin	13.420	13.420	13.422	13.391	13.451
Endosulfan I	12.930	12.920	12.928	12.894	12.954
Endosulfan II	14.340	14.340	14.342	14.312	14.372
Endosulfan Sulfate	15.440	15.430	15.438	15.404	15.464
Endrin	13.960	13.960	13.962	13.932	13.992
Endrin Aldehyde	14.950	14.940	14.947	14.912	14.972
Endrin Ketone	16.360	16.360	16.359	16.326	16.386
Gamma-BHC	9.580	9.580	9.582	9.551	9.611
Gamma-Chlordane	12.560	12.560	12.561	12.527	12.587
Heptachlor	10.480	10.480	10.479	10.446	10.506
Heptachlor Epoxide	12.210	12.210	12.211	12.179	12.239
Methoxychlor	15.940	15.940	15.941	15.909	15.969
TCMX	7.350	7.350	7.350	7.320	7.380
DCB	18.490	18.490	18.492	18.461	18.521

FORM VI PESTA

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): ~~07/06/06~~ 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): ~~1342~~ 7.14.06 1912

RF5: 013R1301

COMPOUND	RF5	CURVE	COEFFICENT A1	%RSD OR R^2
Chlordane	966.400	AVRG	966.400000	0.0
(2)	853.600	AVRG	853.600000	0.0
(3)	550.200	AVRG	550.200000	0.0
(4)	806.000	AVRG	806.000000	0.0
(5)	806.000	AVRG	806.000000	0.0

FORM 6
PESTA ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA52039

Instrument ID: ECD3 Calibration Date(s): ~~07/06/06~~ 07/12/06

Column: RTX-CLPII ID: 0.32 (mm) Calibration Time(s): ~~1342~~ 1912

RF5: 014R1401

COMPOUND	RF5	CURVE	COEFFICENT A1	%RSD OR R^2
Toxaphene	263.660	AVRG	263.660000	0.0
(2)	50.960	AVRG	50.9600000	0.0
(3)	63.080	AVRG	63.0800000	0.0
(4)	92.260	AVRG	92.2600000	0.0
(5)	188.700	AVRG	188.700000	0.0
(6)	154.860	AVRG	154.860000	0.0
(7)	136.550	AVRG	136.550000	0.0
(8)	280.120	AVRG	280.120000	0.0
(9)	98.170	AVRG	98.1700000	0.0
(10)	142.510	AVRG	142.510000	0.0

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMPIRICAL LABS, LLC Contract: CLZMulti

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7023

GC Column: RTX-CLP ID: 0.32 (mm) Init. Calib. Date(s): 7.12.06 _____

EPA Sample No. (PIBLK): — Date Analyzed: —

Lab Sample ID (PIBLK): — Time Analyzed: —

EPA Sample No. (PEM): — Date Analyzed: 7.12.06

Lab Sample ID (PEM): — Time Analyzed: 13:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC						
beta-BHC						
gamma-BHC (Lindane)						
Endrin						
4,4'-DDT						
Methoxychlor						

4,4'-DDT % breakdown (1): 0

Endrin % breakdown (1): 6.4

Combined % breakdown (1): NA

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMPIRICAL LABS, LLC Contract: CH2MHill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7023

GC Column: RTX-CLPII ID: 0.32 (mm) Init. Calib. Date(s): 7.12.06 _____

EPA Sample No.(PIBLK): _____ Date Analyzed: _____

Lab Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No.(PEM): _____ Date Analyzed: 7.12.06

Lab Sample ID (PEM): _____ Time Analyzed: 13:20

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC						
beta-BHC						
gamma-BHC (Lindane)						
Endrin						
4,4'-DDT						
Methoxychlor						

4,4'-DDT % breakdown (1): 0

Endrin % breakdown (1): 0

Combined % breakdown (1): NA

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Instrument ID: ECD3 Calibration Date: 07/13/06 Time: 0405

Lab File ID: 033F3301 Init. Calib. Date(s): 07/12/06 07/12/06

Init. Calib. Times: 1500 1748

COMPOUND	$\overline{RRF}$	RRF25	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aldrin	6244.1	5814.2	25.00	23.28		AVRG	-6.9	15.0
Alpha-BHC	8047.6	7610.5	25.00	23.64		AVRG	-5.4	15.0
Alpha-Chlordane	5814.0	5535.4	25.00	23.80		AVRG	-4.8	15.0
Beta-BHC	3358.5	3218.2	25.00	23.96		AVRG	-4.2	15.0
4,4'-DDD	3149.0	3578.0	25.00	28.40		AVRG	13.6	15.0
4,4'-DDE	4370.7	4942.4	25.00	28.27		AVRG	13.1	15.0
4,4'-DDT	3741.6	3942.2	25.00	26.34		AVRG	5.4	15.0
Delta-BHC	6563.1	6620.4	25.00	25.22		AVRG	0.9	15.0
Dieldrin	5673.9	5397.7	25.00	23.78		AVRG	-4.9	15.0
Endosulfan I	5949.6	5438.2	25.00	22.85		AVRG	-8.6	15.0
Endosulfan II	4857.6	4683.7	25.00	24.10		AVRG	-3.6	15.0
Endosulfan Sulfate	4441.9	4292.2	25.00	24.16		AVRG	-3.4	15.0
Endrin	4798.3	4721.1	25.00	24.60		AVRG	-1.6	15.0
Endrin Aldehyde	3910.1	3652.1	25.00	23.35		AVRG	-6.6	15.0
Endrin Ketone	5396.8	5218.7	25.00	24.18		AVRG	-3.3	15.0
Gamma-BHC	7288.5	6831.9	25.00	23.43		AVRG	-6.3	15.0
Gamma-Chlordane	5947.3	5818.7	25.00	24.46		AVRG	-2.2	15.0
Heptachlor	7129.8	6803.0	25.00	23.85		AVRG	-4.6	15.0
Heptachlor Epoxide	6153.3	5705.0	25.00	23.18		AVRG	-7.3	15.0
Methoxychlor	1755.1	1987.9	25.00	28.32		AVRG	13.3	15.0
TCMX	5658.3	5471.9	25.00	24.18		AVRG	-3.3	15.0
DCB	3353.1	3170.8	25.00	23.68		2ORDR	-5.3	15.0

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Instrument ID: ECD3 Calibration Date: 07/13/06 Time: 1423

Lab File ID: 055F5501 Init. Calib. Date(s): 07/12/06 07/12/06

Init. Calib. Times: 1500 1748

COMPOUND	$\overline{RRF}$	RRF25	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Aldrin	6244.1	6575.5	25.00	26.33		AVRG	5.3	15.0	
Alpha-BHC	8047.6	8278.0	25.00	25.72		AVRG	2.9	15.0	
Alpha-Chlordane	5814.0	6256.0	25.00	26.90		AVRG	7.6	15.0	
Beta-BHC	3358.5	3479.4	25.00	25.90		AVRG	3.6	15.0	
4,4'-DDD	3149.0	3900.4	25.00	30.96		AVRG	23.9	15.0	
4,4'-DDE	4370.7	5410.5	25.00	30.95		AVRG	23.8	15.0	
4,4'-DDT	3741.6	4654.2	25.00	31.10		AVRG	24.4	15.0	
Delta-BHC	6563.1	7312.6	25.00	27.85		AVRG	11.4	15.0	
Dieldrin	5673.9	6148.7	25.00	27.09		AVRG	8.4	15.0	
Endosulfan I	5949.6	6358.2	25.00	26.72		AVRG	6.9	15.0	
Endosulfan II	4857.6	5375.0	25.00	27.66		AVRG	10.6	15.0	
Endosulfan Sulfate	4441.9	4916.8	25.00	27.67		AVRG	10.7	15.0	
Endrin	4798.3	5414.7	25.00	28.21		AVRG	12.8	15.0	
Endrin Aldehyde	3910.1	4214.5	25.00	26.95		AVRG	7.8	15.0	
Endrin Ketone	5396.8	5945.9	25.00	27.54		AVRG	10.2	15.0	
Gamma-BHC	7288.5	7451.9	25.00	25.56		AVRG	2.2	15.0	
Gamma-Chlordane	5947.3	6561.1	25.00	27.58		AVRG	10.3	15.0	
Heptachlor	7129.8	7644.7	25.00	26.80		AVRG	7.2	15.0	
Heptachlor Epoxide	6153.3	6423.9	25.00	26.10		AVRG	4.4	15.0	
Methoxychlor	1755.1	2339.8	25.00	33.33		AVRG	33.3	15.0	<
TCMX	5658.3	5967.8	25.00	26.37		AVRG	5.5	15.0	
DCB	3353.1	3992.6	25.00	31.07		2ORDR	24.3	15.0	<

FORM VII PESTA

Empirical Laboratories

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Instrument ID: ECD3 Calibration Date: 07/13/06 Time: 0405

Lab File ID: 033R3301 Init. Calib. Date(s): 07/12/06 07/12/06

Init. Calib. Times: 1500 1748

COMPOUND	$\overline{RRF}$	RRF25	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aldrin	7596.8	7177.3	25.00	23.62		AVRG	-5.5	15.0
Alpha-BHC	10261	9930.8	25.00	24.20		AVRG	-3.2	15.0
Alpha-Chlordane	6928.8	6386.2	25.00	23.04		AVRG	-7.8	15.0
Beta-BHC	4540.9	4341.6	25.00	23.90		AVRG	-4.4	15.0
4,4'-DDD	4828.2	4790.0	25.00	24.80		AVRG	-0.8	15.0
4,4'-DDE	6056.5	5903.4	25.00	24.37		AVRG	-2.5	15.0
4,4'-DDT	4947.4	4885.4	25.00	24.69		AVRG	-1.2	15.0
Delta-BHC	9026.5	8742.5	25.00	24.21		AVRG	-3.1	15.0
Dieldrin	6834.5	6411.6	25.00	23.45		AVRG	-6.2	15.0
Endosulfan I	6476.8	5929.3	25.00	22.89		AVRG	-8.4	15.0
Endosulfan II	5817.2	5401.9	25.00	23.22		AVRG	-7.1	15.0
Endosulfan Sulfate	5190.3	4815.4	25.00	23.19		AVRG	-7.2	15.0
Endrin	6260.8	5806.2	25.00	23.18		AVRG	-7.3	15.0
Endrin Aldehyde	4738.7	4222.3	25.00	22.28		AVRG	-10.9	15.0
Endrin Ketone	6150.4	5698.6	25.00	23.58		2ORDR	-5.7	15.0
Gamma-BHC	9460.6	9041.1	25.00	23.89		AVRG	-4.4	15.0
Gamma-Chlordane	6965.6	6553.5	25.00	23.52		AVRG	-5.9	15.0
Heptachlor	8854.4	8663.4	25.00	24.46		AVRG	-2.2	15.0
Heptachlor Epoxide	7372.4	6904.7	25.00	23.41		AVRG	-6.3	15.0
Methoxychlor	2747.1	2736.4	25.00	24.21		2ORDR	-3.2	15.0
TCMX	7633.1	7229.0	25.00	23.68		AVRG	-5.3	15.0
DCB	3488.6	3049.6	25.00	22.62		2ORDR	-9.5	15.0

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Instrument ID: ECD3 Calibration Date: 07/13/06 Time: 1423

Lab File ID: 055R5501 Init. Calib. Date(s): 07/12/06 07/12/06

Init. Calib. Times: 1500 1748

COMPOUND	$\overline{RRF}$	RRF25	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Aldrin	7596.8	8072.9	25.00	26.57		AVRG	6.3	15.0	
Alpha-BHC	10261	10932	25.00	26.64		AVRG	6.5	15.0	
Alpha-Chlordane	6928.8	7173.8	25.00	25.88		AVRG	3.5	15.0	
Beta-BHC	4540.9	4716.8	25.00	25.97		AVRG	3.9	15.0	
4,4'-DDD	4828.2	5430.0	25.00	28.12		AVRG	12.5	15.0	
4,4'-DDE	6056.5	6678.9	25.00	27.57		AVRG	10.3	15.0	
4,4'-DDT	4947.4	5703.1	25.00	28.82		AVRG	15.3	15.0	
Delta-BHC	9026.5	9649.1	25.00	26.72		AVRG	6.9	15.0	
Dieldrin	6834.5	7260.0	25.00	26.56		AVRG	6.2	15.0	
Endosulfan I	6476.8	6685.4	25.00	25.80		AVRG	3.2	15.0	
Endosulfan II	5817.2	6084.0	25.00	26.15		AVRG	4.6	15.0	
Endosulfan Sulfate	5190.3	5474.6	25.00	26.37		AVRG	5.5	15.0	
Endrin	6260.8	6601.0	25.00	26.36		AVRG	5.4	15.0	
Endrin Aldehyde	4738.7	4797.4	25.00	25.31		AVRG	1.2	15.0	
Endrin Ketone	6150.4	6542.0	25.00	27.30		2ORDR	9.2	15.0	
Gamma-BHC	9460.6	9942.4	25.00	26.27		AVRG	5.1	15.0	
Gamma-Chlordane	6965.6	7313.1	25.00	26.25		AVRG	5.0	15.0	
Heptachlor	8854.4	9671.0	25.00	27.30		AVRG	9.2	15.0	
Heptachlor Epoxide	7372.4	7734.1	25.00	26.23		AVRG	4.9	15.0	
Methoxychlor	2747.1	3168.8	25.00	28.66		2ORDR	14.6	15.0	
TCMX	7633.1	7749.0	25.00	25.38		AVRG	1.5	15.0	
DCB	3488.6	3849.1	25.00	30.14		2ORDR	20.5	15.0	<

FORM VII PESTA

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Column: RTX-CLP ID: 0.32 (mm) Cont. Calib. Date(s): 07/12/06-07/13/06

Instrument ID: ECD3

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 7.86 S2 : 18.46

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		P.E.M. #5253	07/12/06	1320		
02	ZZZZZ	ZZZZZ	07/12/06	1348	7.86	18.46
03		1660 500 #55	07/12/06	1416		
04		AB/SUR 200#5	07/12/06	1500	7.88	18.47
05		AB/SUR 100#5	07/12/06	1528	7.86	18.46
06		AB/SUR 50 #5	07/12/06	1556	7.86	18.46
07		AB/SUR 25 #5	07/12/06	1624	7.86	18.46
08		AB/SUR 10 #5	07/12/06	1652	7.86	18.46
09		AB/SUR 5 #52	07/12/06	1720	7.86	18.46
10		AB/SUR 1 #54	07/12/06	1748	7.86	18.46
11		AB ICV #5214	07/12/06	1816		
12		CHLOR. 5PPB#	07/12/06	1844		
13		TOX. 100PPB#	07/12/06	1912		
14		AB/SUR 25 #5	07/12/06	1940	7.86	18.46
15		1660 500 #55	07/12/06	2008		
16	ZZZZZ	ZZZZZ	07/12/06	2037	7.86	18.46
17	ZZZZZ	ZZZZZ	07/12/06	2105	7.86	18.46
18	ZZZZZ	ZZZZZ	07/12/06	2133	7.86	18.46
19	ZZZZZ	ZZZZZ	07/12/06	2201	7.86	18.46
20	ZZZZZ	ZZZZZ	07/12/06	2229	7.86	18.46
21	ZZZZZ	ZZZZZ	07/12/06	2257	7.86	18.46
22	ZZZZZ	ZZZZZ	07/12/06	2325	7.86	18.46
23	ZZZZZ	ZZZZZ	07/12/06	2353	7.86	18.46
24	ZZZZZ	ZZZZZ	07/13/06	0021	7.86	18.46
25	ZZZZZ	ZZZZZ	07/13/06	0049	7.86	18.46
26	ZZZZZ	ZZZZZ	07/13/06	0117	7.86	18.46
27	ZZZZZ	ZZZZZ	07/13/06	0145	7.86	18.46
28	ZZZZZ	ZZZZZ	07/13/06	0213	7.86	18.45
29	ZZZZZ	ZZZZZ	07/13/06	0241	7.86	18.45
30	ZZZZZ	ZZZZZ	07/13/06	0309		
31	ZZZZZ	ZZZZZ	07/13/06	0337	7.86	18.46
32		AB/SUR 25 #5	07/13/06	0405	7.86	18.46

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Column: RTX-CLP ID: 0.32 (mm) Cont. Calib. Date(s): 07/13/06

Instrument ID: ECD3

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 7.86 S2 : 18.46

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660 500 #55	07/13/06	0433		
02	PW1BLK0711	PW1BLK0711	07/13/06	0502	7.86	18.46
03	ZZZZZ	ZZZZZ	07/13/06	0530	7.86	18.46
04	ZZZZZ	ZZZZZ	07/13/06	0558	7.86	18.46
05	ZZZZZ	ZZZZZ	07/13/06	0626	7.86	18.46
06	PW1BLK0711LC	PW1BLK0711LC	07/13/06	0654	7.86	18.46
07	PW1BLK0711LC	PW1BLK0711LC	07/13/06	0722	7.86	18.46
08	ZZZZZ	ZZZZZ	07/13/06	0750	7.87	18.46
09	ZZZZZ	ZZZZZ	07/13/06	0818	7.87	18.46
10	ZZZZZ	ZZZZZ	07/13/06	0846	7.87	18.46
11	ZZZZZ	ZZZZZ	07/13/06	0914	7.87	18.46
12	ZZZZZ	ZZZZZ	07/13/06	0942	7.86	18.46
13	ZZZZZ	ZZZZZ	07/13/06	1010	7.86	18.45
14	ZZZZZ	ZZZZZ	07/13/06	1039	7.86	18.46
15	ZZZZZ	ZZZZZ	07/13/06	1107	7.86	18.46
16	ZZZZZ	ZZZZZ	07/13/06	1135	7.86	18.46
17	ZZZZZ	ZZZZZ	07/13/06	1203	7.86	18.46
18	ZZZZZ	ZZZZZ	07/13/06	1231	7.86	18.46
19	ZZZZZ	ZZZZZ	07/13/06	1259	7.86	18.46
20	ZZZZZ	ZZZZZ	07/13/06	1327	7.86	18.46
21	51WC1S060706	0607023-01	07/13/06	1355	7.86	18.46
22		AB/SUR 25 #5	07/13/06	1423	7.86	18.46
23		1660 500 #55	07/13/06	1451		
24	ZZZZZ	ZZZZZ	07/13/06	1519	7.86	18.46
25	ZZZZZ	ZZZZZ	07/13/06	1547	7.86	18.45
26		AB/SUR 25 #5	07/13/06	1615	7.86	18.46
27		1660 500 #55	07/13/06	1643		
28						
29						
30						
31						
32						

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTA

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Column: RTX-CLPII ID: 0.32 (mm) Cont. Calib. Date(s): 07/12/06-07/13/06

Instrument ID: ECD3

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

		SURROGATE RT FROM CONTINUING CALIBRATION S1 : 7.35 S2 : 18.49				
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		P.E.M. #5253	07/12/06	1320		
02	ZZZZZ	ZZZZZ	07/12/06	1348	7.35	18.49
03		1660 500 #55	07/12/06	1416		
04		AB/SUR 200#5	07/12/06	1500	7.35	18.50
05		AB/SUR 100#5	07/12/06	1528	7.35	18.49
06		AB/SUR 50 #5	07/12/06	1556	7.35	18.49
07		AB/SUR 25 #5	07/12/06	1624	7.35	18.49
08		AB/SUR 10 #5	07/12/06	1652	7.35	18.49
09		AB/SUR 5 #52	07/12/06	1720	7.35	18.49
10		AB/SUR 1 #54	07/12/06	1748	7.35	18.49
11		AB ICV #5214	07/12/06	1816		
12		CHLOR. 5PPB#	07/12/06	1844		
13		TOX. 100PPB#	07/12/06	1912		
14		AB/SUR 25 #5	07/12/06	1940	7.35	18.49
15		1660 500 #55	07/12/06	2008		
16	ZZZZZ	ZZZZZ	07/12/06	2037	7.35	18.49
17	ZZZZZ	ZZZZZ	07/12/06	2105	7.35	18.49
18	ZZZZZ	ZZZZZ	07/12/06	2133	7.35	18.49
19	ZZZZZ	ZZZZZ	07/12/06	2201	7.35	18.49
20	ZZZZZ	ZZZZZ	07/12/06	2229	7.35	18.49
21	ZZZZZ	ZZZZZ	07/12/06	2257	7.35	18.49
22	ZZZZZ	ZZZZZ	07/12/06	2325	7.35	18.49
23	ZZZZZ	ZZZZZ	07/12/06	2353	7.35	18.49
24	ZZZZZ	ZZZZZ	07/13/06	0021	7.35	18.49
25	ZZZZZ	ZZZZZ	07/13/06	0049	7.35	18.49
26	ZZZZZ	ZZZZZ	07/13/06	0117	7.35	18.49
27	ZZZZZ	ZZZZZ	07/13/06	0145	7.35	18.49
28	ZZZZZ	ZZZZZ	07/13/06	0213	7.35	18.49
29	ZZZZZ	ZZZZZ	07/13/06	0241	7.35	18.49
30	ZZZZZ	ZZZZZ	07/13/06	0309		
31	ZZZZZ	ZZZZZ	07/13/06	0337	7.35	18.49
32		AB/SUR 25 #5	07/13/06	0405	7.35	18.49

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.PP07023

Column: RTX-CLPII ID: 0.32 (mm) Cont. Calib. Date(s): 07/13/06

Instrument ID: ECD3

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 7.35 S2 : 18.49

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
01		1660 500 #55	07/13/06	0433				
02	PW1BLK0711	PW1BLK0711	07/13/06	0502	7.35		18.49	
03	ZZZZZ	ZZZZZ	07/13/06	0530	7.35		18.49	
04	ZZZZZ	ZZZZZ	07/13/06	0558	7.35		18.49	
05	ZZZZZ	ZZZZZ	07/13/06	0626	7.35		18.49	
06	PW1BLK0711LC	PW1BLK0711LC	07/13/06	0654	7.35		18.49	
07	PW1BLK0711LC	PW1BLK0711LC	07/13/06	0722	7.35		18.49	
08	ZZZZZ	ZZZZZ	07/13/06	0750	7.36		18.49	
09	ZZZZZ	ZZZZZ	07/13/06	0818	7.36		18.49	
10	ZZZZZ	ZZZZZ	07/13/06	0846	7.36		18.49	
11	ZZZZZ	ZZZZZ	07/13/06	0914	7.36		18.49	
12	ZZZZZ	ZZZZZ	07/13/06	0942	7.35		18.49	
13	ZZZZZ	ZZZZZ	07/13/06	1010	7.35		18.49	
14	ZZZZZ	ZZZZZ	07/13/06	1039	7.35		18.49	
15	ZZZZZ	ZZZZZ	07/13/06	1107	7.35		18.49	
16	ZZZZZ	ZZZZZ	07/13/06	1135	7.35		18.49	
17	ZZZZZ	ZZZZZ	07/13/06	1203	7.35		18.49	
18	ZZZZZ	ZZZZZ	07/13/06	1231	7.35		18.49	
19	ZZZZZ	ZZZZZ	07/13/06	1259	7.35		18.49	
20	ZZZZZ	ZZZZZ	07/13/06	1327	7.35		18.49	
21	51WC1S060706	0607023-01	07/13/06	1355	7.35		18.49	
22		AB/SUR 25 #5	07/13/06	1423	7.35		18.49	
23		1660 500 #55	07/13/06	1451				
24	ZZZZZ	ZZZZZ	07/13/06	1519	7.35		18.49	
25	ZZZZZ	ZZZZZ	07/13/06	1547	7.35		18.49	
26		AB/SUR 25 #5	07/13/06	1615	7.35		18.49	
27		1660 500 #55	07/13/06	1643				
28								
29								
30								
31								
32								

QC LIMITS
S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTA

Empirical Laboratories

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 64231 6405-2 6404-1,2	9:10 7-6-06 LG	11:20 7/10/06 LW		Herb Rest BNA PCB
6405-02	9:50 7-6-6 M			VOA
6423 6422	1013 7/6/06 B	AM 1640 7/6/06 B		1.5
7001-01 B →02	1157 RCW 7/6/06	1702 RCW 7/6/06		TCLP
7001.01→02A 6423.01	1351 RCW 7/6/06			ZHE
6399.01→02	1431 RCW 7/6/06			SPLP
6405-02	7:00 7/7/6 M	11:30 7/7/6 M		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:15 7/7/6 M	weight mL	VOA
7014-03B	1:35 7/7/6 M			VOA
7022 01-711	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06 DB	15:32 7/10/06 DB		CN
7023.01 A,B	9:11 7/10/06 RCW	1450 7/10/06 RCW	taken from extractns	PH, TCLP, ZHE/NON
7014 DD	9:46 7/10/06 B	LW Metals		DD
7022-3-11	10:05 7/10/6 M		weight mL	VOA
7014-1-3	1230 7-10-06 LG	1245 7-10-06 LG		FPRO
6399	1435 7/10/06 B	AM 1456 7/10/06 B		1.5
7014-01-703	6:30 7/11/06 AM	7:16 7/11/06 MK		BNA
7023-01	↓	↓		PCB
6226-01 6227-01-05 6236-1-07 6296-1,2	8:00 7/11/6 DB	15:45 7/11/6 DB		Cr+6

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7022-06, 07	F. PRO	13:25 7/11/06	BTD	13:50 7/11/06	BTD	Analysis
7008-01, 7009-01	EXP	13:25 7/11/06	BTD	↓	↓	↓
6411-1-3 7001-1,2 6419-1-3 7017-1 7023-1 7023-1	Pest/PCB			200 7-11-06	ug	
7023-1 7014-1-3 7015-1 7025-1	BNA			220 7-11-06	LLA	
6217.04; 6236.01 6382.1-5; 6404.01	PEST/PCB	3:30 PM/7.11.06	J.H.	5:15 PM/7.11.06	J.H.	ANALYZE
6411.1-3; 6419.1-3 7001.1,2; 7017.01 7023.01	↓	↓	J.H.	↓	J.H.	↓
7022.02	F. PRO	09:20 7/12/06	BTD	9:25 7/12/06	BTD	Analyze
7006-1-4	PCB			7-12-06 1000	ug	
6423-01 7026-1-3 7006-01-04	PCB	10:28 7/12/06	BTD	15:30 7/12/06	BTD	Analyze
7011-01,02 7023-01	↓	↓	↓	↓	↓	↓
7022-01-11 7.	F. PRO	12:15 7/12/06	BTD	↓	↓	ReAnalyze
6411-1-3 6419-1-3 7001-1,2 7023-1	Herbs			7-13-06 1100	ug	
7032-1-4 7042-1 7040-1-4 7041-1,2	PCB			7-13-06 1:10	ug	
7023.01; 6382.1-5; 6404.1,2; 6162.1-4 6195.1-4	HERB.	3:05 PM/7.13.06	J.H.	4:10 PM/7.13.06	J.H.	ANALYZE
7015-01 7023-01 7025-01 6411-1-03 6419-1-03 6423-01 6399-01-02 7001-01-02	BNA	8:05 7/13/06	[illegible]	8:30 7/14/06	[illegible]	Analysis
7007-01-02 7014-01-03 6445-02	↓	↓	↓	↓	↓	↓
7014-01-03; 6384-02 MDL's SOIL & Water	F. PRO	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
6423.01 7026-01	PCB	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
7039, 40, 41, 42	↓	↓	↓	↓		↓
7037-1-54	Exp			7-14-06 830	ug	
7036-01	EXP			11:15 7/14/06	MLA	
7038-01-07, 09-11 7032-01,02	BNA			11:20 7/14/06	LLA	

Empirical Laboratories, LLC

Fraction: Pesticide/PCB Matrix: Water Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Volume(ml)	Final Volume(ml)	Surr Added	Surr. Initials	Spike Added	Spike Initials	Turbo Vap	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Notes/Comments
1	[redacted]	6167-07	070506PW3	MH	6	980	2ml	.2ml 5578	MH	NA	NA		WS	062123	061923	
2		-06				946				NA	NA					
3		-09				875				NA	NA					
4	[redacted]	7011-01	071006PW	MH	8	1070	5ml	.5ml 5578	MH	NA	NA	WS	A9	062123	061923	NO Back up
5		-02			9	1050				NA	NA		—			has emulsion
6	[redacted]	6111-01	071106PW	MH		100-1000	10ml	1ml 5578	MH	NA	NA	A8	WS	062123	061923	
7		-02				100-1000				NA	NA					
8		-03				100-1000				NA	NA					
9	[redacted]	6119-01				100-1000				NA	NA					
10		-02				100-1000				NA	NA					
11		-03				100-1000				NA	NA					
12	[redacted]	7001-01				100-1000				NA	NA					
13		-02				100-1000				NA	NA					
14	[redacted]	7017-01			6	920				NA	NA					TC:
15	[redacted]	7623-01				100-1000				NA	NA					1045
16										NA	NA					
17										NA	NA					
18										NA	NA					
19										NA	NA					
20										NA	NA					
	M.Blank	1-3	070506PW3	MH		1000	2ml	SAS	SAS		mH	—	WS	SAS	SAS	
	LCS					1000		SAS	SAS	.2ml 5526				SAS	SAS	
								SAS	SAS					SAS	SAS	
	m. Blank	4-5	071006PW1	MH		1000	5ml	SAS	SAS		MH	—	WS	SAS	SAS	
	LCS					1000		SAS	SAS	.5ml 5600		—		SAS	SAS	
								SAS	SAS					SAS	SAS	
	F.Blank1	6-11	071106PW	MH		100-1000	10ml	SAS	SAS		MH	—	WS	SAS	SAS	
	F.Blank 2	12-13				100-1000		SAS	SAS			—		SAS	SAS	
	M.Blank	6-1115				1000		SAS	SAS			—		SAS	SAS	
	LCS					1000		SAS	SAS	1ml 5622		—		SAS	SAS	
	LCS Dup					1000		SAS	SAS			—		SAS	SAS	
	Spk A/B	6111-01				100-1000		SAS	SAS			—		SAS	SAS	
	~~Spk A/B~~	~~6111-01~~						SAS	SAS			—		SAS	SAS	
	Spk T/C	6111-01				100-1000		SAS	SAS	1ml 5506 1ml 5570		YOT		SAS	SAS	
	~~Spk~~							SAS	SAS			-		SAS	SAS	
	Dup	7001-02				100-1000		SAS	SAS			—		SAS	SAS	
	F.Blank 3	7023-01				100-1000		SAS	SAS			—		SAS	SAS	
								SAS	SAS					SAS	SAS	
								SAS	SAS					SAS	SAS	

* = Note: Method 608 clients require one (1) full list sample spike every ten (10) samples.

7.14.06

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest. Primer				
2	Vial 2	P.E.M. #5253				
3	Vial 3	AB/Sur 25 #5575				
4	Vial 4	1660 500 #5508				
5	Vial 5	AB/Sur 200#5213A				
6	Vial 6	AB/Sur 100#5213B				
7	Vial 7	AB/Sur 50 #5213C				
8	Vial 8	AB/Sur 25 #5213D				
9	Vial 9	AB/Sur 10 #5213E				
10	Vial 10	AB/Sur 5 #5213F				
11	Vial 11	AB/Sur 1 #5492				
12	Vial 12	AB ICV #5214				
13	Vial 13	Chlor. 5ppb#5505				
14	Vial 14	Tox. 100ppb#5424				
15	Vial 15	AB/Sur 25 #5575				
16	Vial 16	1660 500 #5508				
17	Vial 17	PS1BLK0629 6298.1,2 ; 6299.1-4; 6217.1-5; 6236.1-5			Cu	x 1
18	Vial 18	PS1BLK0629LCS				
19	Vial 19	PS1BLK0629LCSD				
20	Vial 20	PS1BLK0629LCSpcb				
21	Vial 21	PS1BLK0629LCSDpcb				
22	Vial 22	PS1BLK0707 6382.1-5; 6423.01				x 1
23	Vial 23	PS1BLK0707LCS				
24	Vial 24	PS1BLK0707LCSPCB				
25	Vial 25	0606382-01				
26	Vial 26	0606382-02				
27	Vial 27	0606382-03				
28	Vial 28	0606382-04				
29	Vial 29	0606382-05				
30	Vial 30	0606382-05;5x				
31	Vial 31	0606382-05;200x				
32	Vial 32	0606404-01				x 10
33	Vial 33	AB/Sur 25 #5575				
34	Vial 34	1660 500 #5508				
35	Vial 35	PW1BLK0711 6411.1-3; 6419.1-3; 7001.1,2 ; 7017.01 ; 7023.01				x 1
36	Vial 36	Fluid Blank #1				
37	Vial 37	Fluid Blank #2				
38	Vial 38	Fluid Blank #3				
39	Vial 39	PW1BLK0711LCS				
40	Vial 40	PW1BLK0711LCSD				
41	Vial 41	0606411-01				x 1
42	Vial 42	0606411-01;MS				
43	Vial 43	0606411-01;MSt				
44	Vial 44	0606411-01;MSc				x 10
45	Vial 45	0606411-02				x 1
46	Vial 46	0606411-03				
47	Vial 47	0606419-01				
48	Vial 48	0606419-02				
49	Vial 49	0606419-03				
50	Vial 50	0607001-01				
51	Vial 51	0607001-02				
52	Vial 52	0607001-02;DUP				
53	Vial 53	0607017-~~04~~ 01				
54	Vial 54	0607023-01 Amb 071806				
55	Vial 55	AB/Sur 25 #5575				
56	Vial 56	1660 500 #5508				
57	Vial 57	0606217-01				x 1 Cu
58	Vial 58	0606236-01				x 1 Cu
59	Vial 59	AB/Sur 25 #5575				

equence: C:\HPCHEM\1\SEQUENCE\071206.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1660 500 #5508				

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

7.14.06

Empirical Laboratories

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Matrix: (soil/water) TCLP Lab Sample ID: 0607023-01

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 026F0101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/12/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/14/06 14:58

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
94-75-7	2,4-D	0.0050	10	<0.0050	U
93-72-1	2,4,5-TP (Silvex)	0.0010	1.0	<0.0010	U

FORM 2
TCLP HERB SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Column(1): RTX-CLP ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	HW1BLK0712	45						0
02	HW1BLK0712LC	53						0
03	HW1BLK0712LC	54						0
04	51WC1S060706	28						0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= DCAA	(20-140)	0.010

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
TCLP HERB LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Matrix Spike - Client Sample No.: HW1BLK0712

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
2,4-D	0.02000	0.0000	0.01034	52	25-120
2,4,5-TP (Silvex)	0.02000	0.0000	0.007428	37	20-105

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	0.02000	0.009521	48	8	30	25-120
2,4,5-TP (Silvex)	0.02000	0.007822	39	5	30	20-105

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

_____

FORM 4
HERB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

HW1BLK0712

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Lab Sample ID: HW1BLK0712 Lab File ID: 012F0201

Matrix (soil/water) TCLP Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 07/12/06

Date Analyzed (1): 07/13/06 Date Analyzed (2):

Time Analyzed (1): 2349 Time Analyzed (2):

Instrument ID (1): ECD2 Instrument ID (2):

Column (1): RTX-CLP ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	HW1BLK0712LC	HW1BLK0712LCS	07/14/06	
02	HW1BLK0712LC	HW1BLK0712LCSD	07/14/06	
03	51WC1S060706	0607023-01	07/14/06	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

HW1BLK0712

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Matrix: (soil/water) TCLP Lab Sample ID: HW1BLK0712

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 012F0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/12/06

Concentrated Extract Volume: 10.0(mL) Date Analyzed: 07/13/06 23:49

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	EQL	TCLP Regulatory Limit	CONC	Q
94-75-7	2,4-D	0.0050	10	<0.0050	U
93-72-1	2,4,5-TP (Silvex)	0.0010	1.0	<0.0010	U

FORM 6
HERB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date(s): 07/13/06 07/13/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1713 2137

LAB FILE ID: RF100: 003F0201 RF50: 004F0201 RF40: 005F0201
RF25: 006F0201 RF20: 007F0201

COMPOUND	RF100	RF50	RF40	RF25	RF20
2,4-D	1356.956	1470.754	1517.563	1683.136	1810.297
2,4-DB	752.900	790.902	801.607	848.206	898.334
2,4,5-TP (Silvex)	6330.367	6470.765	6504.379	6523.312	6799.590
2,4,5-T	6110.755	6317.009	6332.138	6502.215	6616.553
Dalapon	1784.403	1882.439	1922.028	2060.836	2182.578
Dicamba	5251.897	5445.628	5488.666	5751.212	6078.554
Dichloroprop	1126.787	1208.593	1236.234	1345.662	1442.238
Dinoseb	3317.004	3561.726	3686.541	3935.496	4283.872
MCPA	6.983	7.489	7.761	8.746	9.596
MCPP	4.678	5.056	5.244	5.957	6.545
DCAA	1323.322	1436.934	1472.328	1618.985	1758.760

FORM 6
HERB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date(s): 07/13/06 07/13/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1713 2137

LAB FILE ID: RF10: 008F0201 RF5: 009F0201

COMPOUND	RF10	RF5
2,4-D	1999.830	2207.369
2,4-DB	890.134	998.585
2,4,5-TP (Silvex)	6084.683	5979.592
2,4,5-T	5854.204	5454.526
Dalapon	2404.916	2746.669
Dicamba	5839.269	6079.719
Dichloroprop	1543.248	1765.762
Dinoseb	4371.675	5159.084
MCPA	11.681	15.589
MCPP	7.950	10.668
DCAA	1902.790	2212.620

FORM 6
HERB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date(s): 07/13/06 07/13/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1713 2137

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
2,4-D	AVRG		1720.84363		17.8
2,4-DB	AVRG		854.380993		9.7
2,4,5-TP (Silvex)	AVRG		6384.66976		4.4
2,4,5-T	AVRG		6169.62861		6.5
Dalapon	AVRG		2140.55267		15.8
Dicamba	AVRG		5704.99217		5.6
Dichloroprop	AVRG		1381.21764		16.0
Dinoseb	AVRG		4045.05686		15.3
MCPA	2ORDR	0.00000000	0.10378537	6.249e-008	0.995
MCPP	2ORDR	0.00000000	0.15080155	1.481e-007	0.995
DCAA	AVRG		1675.10541		18.4

FORM 6
HERB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date(s): 07/13/06 07/13/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1713 2137

LAB FILE ID: RT1: 003F0201 RT2: 004F0201 RT3: 005F0201
RT4: 006F0201 RT5: 007F0201

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	18.257	18.260	18.270	18.273	18.273
2,4-DB	20.090	20.097	20.103	20.107	20.107
2,4,5-TP (Silvex)	19.270	19.273	19.280	19.283	19.287
2,4,5-T	19.573	19.580	19.590	19.593	19.597
Dalapon	7.613	7.613	7.620	7.623	7.623
Dicamba	16.880	16.880	16.890	16.890	16.893
Dichloroprop	17.940	17.943	17.953	17.957	17.957
Dinoseb	21.083	21.083	21.090	21.093	21.093
MCPA	17.413	17.403	17.410	17.410	17.413
MCPP	17.183	17.177	17.180	17.180	17.183
DCAA	16.570	16.573	16.583	16.587	16.587

FORM 6
HERB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date(s): 07/13/06 07/13/06

Column: RTX-CLP ID: 0.32 (mm) Calibration Time(s): 1713 2137

LAB FILE ID: RT6: 008F0201 RT7: 009F0201

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4-D	18.287	18.293	18.273	18.243	18.303
2,4-DB	20.117	20.123	20.106	20.077	20.137
2,4,5-TP (Silvex)	19.287	19.287	19.281	19.257	19.317
2,4,5-T	19.603	19.607	19.592	19.567	19.627
Dalapon	7.627	7.627	7.621	7.593	7.653
Dicamba	16.893	16.893	16.888	16.863	16.923
Dichloroprop	17.960	17.960	17.953	17.927	17.987
Dinoseb	21.093	21.093	21.090	21.063	21.123
MCPA	17.410	17.410	17.410	17.383	17.443
MCPP	17.180	17.180	17.180	17.153	17.213
DCAA	16.593	16.597	16.584	16.557	16.617

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date: 07/13/06 Time: 2305

Lab File ID: 011F0201 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1713 2137

COMPOUND	$\overline{RRF}$	RRF20	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
2,4-D	1720.9	3116.3	188.1	340.7		AVRG	81.1	15.0	<
2,4-DB	854.38	1266.5	189.4	280.7		AVRG	48.2	15.0	<
2,4,5-TP (Silvex)	6384.7	9817.7	19.01	29.23		AVRG	53.8	15.0	<
2,4,5-T	6169.6	11898	18.96	36.56		AVRG	92.8	15.0	<
Dalapon	2140.5	2834.1	455.4	602.9		AVRG	32.4	15.0	<
Dicamba	5705.0	8832.5	18.82	29.13		AVRG	54.8	15.0	<
Dichloroprop	1381.2	2205.7	188.7	301.3		AVRG	59.7	15.0	<
Dinoseb	4045.1	6454.7	94.52	150.8		AVRG	59.6	15.0	<
MCPA	9.692	14.323	18690	32260		2ORDR	72.6	15.0	<
MCPP	6.585	8.225	18780	26830		2ORDR	42.8	15.0	<
DCAA	1675.1	2378.9	93.63	133.0		AVRG	42.0	15.0	<

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date: 07/14/06 Time: 0848

Lab File ID: 018F0101 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1713 2137

COMPOUND	$\overline{RRF}$	RRF20	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
2,4-D	1720.9	3517.3	188.1	384.6		AVRG	104.4	15.0	<
2,4-DB	854.38	1580.6	189.4	350.4		AVRG	85.0	15.0	<
2,4,5-TP (Silvex)	6384.7	11370	19.01	33.86		AVRG	78.1	15.0	<
2,4,5-T	6169.6	13869	18.96	42.61		AVRG	124.8	15.0	<
Dalapon	2140.5	2845.1	455.4	605.3		AVRG	32.9	15.0	<
Dicamba	5705.0	9481.2	18.82	31.27		AVRG	66.2	15.0	<
Dichloroprop	1381.2	2473.4	188.7	337.9		AVRG	79.1	15.0	<
Dinoseb	4045.1	7741.3	94.52	180.9		AVRG	91.4	15.0	<
MCPA	9.692	15.526	18690	35380		2ORDR	89.3	15.0	<
MCPP	6.585	8.822	18780	29050		2ORDR	54.7	15.0	<
DCAA	1675.1	2554.4	93.63	142.8		AVRG	52.5	15.0	<

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Instrument ID: ECD2 Calibration Date: 07/14/06 Time: 1627

Lab File ID: 028F0101 Init. Calib. Date(s): 07/13/06 07/13/06

Init. Calib. Times: 1713 2137

COMPOUND	$\overline{RRF}$	RRF20	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
2,4-D	1720.9	2011.6	188.1	219.9		AVRG	16.9	15.0	
2,4-DB	854.38	794.24	189.4	176.1		AVRG	-7.0	15.0	
2,4,5-TP (Silvex)	6384.7	9028.6	19.01	26.88		AVRG	41.4	15.0	<
2,4,5-T	6169.6	7312.2	18.96	22.47		AVRG	18.5	15.0	<
Dalapon	2140.5	2272.1	455.4	483.4		AVRG	6.1	15.0	
Dicamba	5705.0	7499.1	18.82	24.73		AVRG	31.4	15.0	<
Dichloroprop	1381.2	1640.6	188.7	224.1		AVRG	18.8	15.0	<
Dinoseb	4045.1	4796.0	94.52	112.1		AVRG	18.6	15.0	<
MCPA	9.692	11.535	18690	25280		2ORDR	35.3	15.0	<
MCPP	6.585	7.317	18780	23520		2ORDR	25.2	15.0	<
DCAA	1675.1	1975.3	93.63	110.4		AVRG	17.9	15.0	

<20

<20

7/24/06

FORM VII HERB

Empirical Laboratories

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.H07023

Column: RTX-CLP ID: 0.32 (mm) Cont. Calib. Date(s): 07/13/06-07/14/06

Instrument ID: ECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 16.59

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		HERB/DCAA #5	07/13/06	1713	16.57	
02		HERB/DCAA #5	07/13/06	1757	16.57	
03		HERB/DCAA #5	07/13/06	1842	16.58	
04		HERB/DCAA #5	07/13/06	1926	16.59	
05		HERB/DCAA #5	07/13/06	2009	16.59	
06		HERB/DCAA #5	07/13/06	2053	16.59	
07		HERB/DCAA #5	07/13/06	2137	16.60	
08		HERB. ICV #5	07/13/06	2221		
09		HERB/DCAA #5	07/13/06	2305	16.59	
10	HW1BLK0712	HW1BLK0712	07/13/06	2349	16.59	
11	ZZZZZ	ZZZZZ	07/14/06	0033		
12	FLUID BLANK	FLUID BLANK	07/14/06	0117	16.59	
13	ZZZZZ	ZZZZZ	07/14/06	0201		
14	FLUID BLANK	FLUID BLANK	07/14/06	0245	16.59	
15	ZZZZZ	ZZZZZ	07/14/06	0329		
16		HERB/DCAA #5	07/14/06	0848	16.59	
17	FLUID BLANK	FLUID BLANK	07/14/06	0951	16.59	
18	ZZZZZ	ZZZZZ	07/14/06	1035		
19	HW1BLK0712LC	HW1BLK0712LC	07/14/06	1119	16.58	
20	ZZZZZ	ZZZZZ	07/14/06	1202		
21	ZZZZZ	ZZZZZ	07/14/06	1246		
22	HW1BLK0712LC	HW1BLK0712LC	07/14/06	1330	16.57	
23	ZZZZZ	ZZZZZ	07/14/06	1414		
24	51WC1S060706	0607023-01	07/14/06	1458	16.57	
25	ZZZZZ	ZZZZZ	07/14/06	1543		
26		HERB/DCAA #5	07/14/06	1627	16.57	
27	ZZZZZ	ZZZZZ	07/14/06	1712	16.57	
28	ZZZZZ	ZZZZZ	07/14/06	1756	16.56	
29	ZZZZZ	ZZZZZ	07/14/06	1840	16.59	
30	ZZZZZ	ZZZZZ	07/14/06	1925	16.59	
31	ZZZZZ	ZZZZZ	07/14/06	2008	16.59	
32	ZZZZZ	ZZZZZ	07/14/06	2052	16.60	

S1 = DCAA

QC LIMITS
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII HERB

Empirical Laboratories
ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
SOIL REFRIGERATOR
(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 6423-1 6405-2 6404-1,2	9:10 7-6-06 [illegible]	11:20 7/06/06 [illegible]		Herb Pest BNA PCB
6405-02	9:50 7-6-6 [illegible]			VOA
6423 6422	1013 7/6/06 [illegible]	[illegible] 1040 7/6/06 [illegible]		% S
7001-01 B →02	1154 7/6/06 RCH	1702 7/6/06 RCH		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCH	↓		ZHE
6399.01→02	1431 7/6/06 RCH			SPLP
6405-02	7:00 7/7/6 [illegible]	11:30 7/7/6 [illegible]		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	[illegible]	11:45 7/7/6 [illegible]	[illegible]	VOA
7014-03B	1:35 7/7/6 [illegible]			VOA
7022-01→11	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06 [illegible]	15:32 7/10/06 [illegible]		CN
7023.01 A,B	9:11 7/10/06 RCH	1450 7/10/06 RCH	taken from extractns	PH, TCLP, ZHE/NON
7014 7022	946 7/10/06 [illegible]	1015 7/10/06 [illegible]		[illegible]
7022-3-11	10:05 7/10/6 [illegible]		[illegible]	VOA
7014-1-3	1230 7-10-06 [illegible]	1245 7-10-06 [illegible]		FPRO
6399	1435 7/10/06 [illegible]	[illegible] 1456 7/10/06 [illegible]		% S
7014-01→03	6:30 7/11/06 [illegible]	7:10 7/11/06 [illegible]		BNA
7023-01	[illegible]	[illegible]		PCB
[illegible] 6277-01-05 6236-01-09 6399-01,02	8:00 7/11/06 [illegible]	15:45 7/11/06 [illegible]		Cr+6

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7022-06, 07	F. PRO	13:25 7/11/06	BTD	13:50 7/11/06	BTD	Analysis
7008-01, 7009-01	EXP	13:25 7/11/06	BTD	↓	↓	↓
6411-1-3 7001-1,2 6419-1-3 7017-1 7023-1 7023-1	Prot/PCB			200 7-11-06	ug	
7023-1 7014-1-3 7015-1 7025-1	BNA			220 7-11-06	MA	
6217.04; 6236.01 6382.1-5; 6404.01	PEST./PCB	3:30 PM/7.11.06	J.H.	5:15 PM/7.11.06	J.H.	ANALYZE
6411.1-3; 6419.1-3 7001.1,2; 7017.01 7023.01	↓	↓	J.H.	↓	J.H.	↓
7022-02	F. PRO	09:20 7/12/06	BTD	9:25 7/12/06	BTD	Analyze
7006-1-4	PCB			7-12-06 1000	ug	
6423-01 7026-1-3 7006-01-04	PCB	10:28 7/12/06	BTD	15:30 7/12/06	BTD	Analyze
7011-01,02 7023-01	↓	↓	↓	↓	↓	↓
7022-01-11	F. PRO	12:15 7/12/06	BTD	↓	↓	ReAnalyze
6411-1-3 6419-1-3 7001-1,2 7023-1	Herb's			7-13-06 1100	ug	
7037-1-4 7042-1 7040-1-4 7041-1,2	PCB			7-13-06 1:10	ug	
7023.01; 6382.1-5; 6404.1,2; 6162.1-4 6195.1-4	HERB.	3:05 PM/7.13.06	J.H.	4:10 PM/7.13.06	J.H.	ANALYZE
7015-01 7023-01 7025-01 6411-1-03 6419-1-03 6423-01 6399-01-02 7001-01-02	BNA	8:05 7/13/06	[illegible]	8:30 7/14/06	[illegible]	Analyze
7007-01-02 7014-01-03 6405.02	↓	↓	↓	↓	↓	↓
7014-01-03; 6384-02 MDL's Soil & Water	F. PRO	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
6423.01 7026-01	PCB	07:30 7/14/06	BTD	11:30 7/14/06		Analyze
7039, 40, 41, 42	↓	↓	↓	↓		↓
7037-1-54	Exp			7-14-06 830	ug	
7036-01	EXP			11:15 7/14/061	MA	
7038-01-07,09-11 7032-01,02	BLK			11:20 7/14/06	MA	

Fraction: Herbicide Matrix: Water/Soil Empirical Laboratories EX062 Supervisor

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial Vol/Wt.	Final Volume	DCAA Added	DCAA Initials	Spike Added	Spike Initials	KD	10ml Conc.	TV Tube	Transf. Initials	Solvent Lot/Vendor MeCl2	Ether	Iso-octane	Methanol	Diazo. Used	Date Ester.	Ester. Initials	Volume Check	Notes/ Comments
1	[redacted]	6411-01	07126/07HH	MH		100-1000	10ml	1ml 5502	MH	NA	NA	Y6	104	—	LF	061690	061631-12	92947	CP140	R1032	7-13	LF	— 100	8:00
2		-02		LF		100-1000				NA	NA	C7	3	—									X6 10.1	
3		-03				100-1000				NA	NA	6	C3	—									X18 100	
4	[redacted]	6414-01				100-1000				NA	NA	1	BDY	—									VRK 10.2	
5		-02				100-1000				NA	NA	W	*	—									J1 10.5	
6		-03				100-1000				NA	NA	9	2	BD									X13 10.2	
7	[redacted]	7001-01				100-1000				NA	NA	D6	40	—									X11 10.3	
8		-02				100-1000				NA	NA	5	A	—									— 100	
9	[redacted]	7023-01				100-1000				NA	NA	D8	103	—									X18 103	
10	[redacted]	7107-02	07/18/07HH	MH	6	900	10ml	1ml 5502	MH	NA	NA													7:15
11		-03				920				NA	NA													
12		-04				960				NA	NA													
13		-05				875				NA	NA													
14	[redacted]	7111-02				~~960~~ 800				NA	NA													
15		-03				~~960~~ 980				NA	NA													
16										NA	NA													
17										NA	NA													
18										NA	NA													
19										NA	NA													
20										NA	NA													
	F. Blank 1	1-8				100-1000	10ml				MH	D1	106	—	LF					R1031	7-13	LF	0	10.2
	F. Blank 2	7-8	SAS	SAS		100-1000		SAS	SAS			—	105	—		SAS			SAS	SAS	SAS	SAS	X23	10.1
	F. Blank 3	7023-01	SAS	SAS		100-1000		SAS	SAS			D	1	LOT		SAS			SAS	SAS	SAS	SAS	X9	10.2
	m. Blank	1-9	SAS	SAS		1000		SAS	SAS			B1	113	—		SAS			SAS	SAS	SAS	SAS	X	10.0
	LCS		SAS	SAS		1000		SAS	SAS	1ml 5502		KY	✓	—		SAS			SAS	SAS	SAS	SAS	B	10.4
	LCS Dup		SAS	SAS		1000		SAS	SAS			BDY	12	LOT		SAS			SAS	SAS	SAS	SAS	X1	10.1
	~~Blank~~ Spk	6411-01	SAS	SAS		100-1000		SAS	SAS			ME	50	—		SAS			SAS	SAS	SAS	SAS	—	100
	Dup	7001-02	SAS	SAS		100-1000		SAS	SAS			TT	114	—		SAS			SAS	SAS	SAS	SAS	X12	10.2
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
	m. Blank	10-15	SAS	SAS		1000	10.0	SAS	SAS		MH					SAS			SAS	SAS	SAS	SAS		
	LCS		SAS	SAS		1000		SAS	SAS	1ml 5504						SAS			SAS	SAS	SAS	SAS		
	MS	7107-05	SAS	SAS		960		SAS	SAS							SAS			SAS	SAS	SAS	SAS		
	MSD		SAS	SAS		960		SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS			SAS	SAS	SAS	SAS		

Note: All volumes are in milliliters (surrogate in microliters) and weights are in grams.

000133

ECD.2\HP.C/D.\071306\8151

PG. 341

7.18.06

```
NAME SeqFileMacro
DELSEQUENCE
VERSION 3
SETPARAMS "JEH", "", 0, 0, 1
SETDATAPATH "071306"
SETMETHODPATH
SETPRESEQ ""
SETPOSTSEQ ""
SETCOMMENT
SETNAMEMODE 1
SETSIG1FLEX "SIG1", "0001"
SETSIG2FLEX "SIG2", "0001"
SETSEQLINE 1,1,"8151F",18,74,1,-1
SETSEQLINE 2,1,"8151R",17,74,1,-1
DELSAMPLE 1,100
SETSAMPLE 1,"Herb. Primer",,,
SETINFO 1
SETINFO 1,";;;;;;herbd.sub\"
SETSAMPLE 2,"Herb. Primer",,,
SETINFO 2
SETINFO 2,";;;;;;herbd.sub\"
SETSAMPLE 3,"Herb/DCAA #5639A",,,
SETINFO 3
SETINFO 3,";;;;;;herbd.sub\"
SETSAMPLE 4,"Herb/DCAA #5639B",,,
SETINFO 4
SETINFO 4,";;;;;;herbd.sub\"
SETSAMPLE 5,"Herb/DCAA #5639C",,,
SETINFO 5
SETINFO 5,";;;;;;herbd.sub\"
SETSAMPLE 6,"Herb/DCAA #5639D",,,
SETINFO 6
SETINFO 6,";;;;;;herbd.sub\"
SETSAMPLE 7,"Herb/DCAA #5639E",,,
SETINFO 7
SETINFO 7,";;;;;;herbd.sub\"
SETSAMPLE 8,"Herb/DCAA #5639F",,,
SETINFO 8
SETINFO 8,";;;;;;herbd.sub\"
SETSAMPLE 9,"Herb/DCAA #5639G",,,
SETINFO 9
SETINFO 9,";;;;;;herbd.sub\"
SETSAMPLE 10,"Herb. ICV #5640",,,
SETINFO 10
SETINFO 10,";;;;;;herb.sub\"
SETSAMPLE 11,"Herb/DCAA #5631",,,
SETINFO 11
SETINFO 11,";;;;;;herbd.sub\"
SETSAMPLE 12,"HW1BLK0712",,,
SETINFO 12
SETINFO 12,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 13,"Hex Blank",,,
SETINFO 13
SETINFO 13,";;;;;;herbd.sub\"
SETSAMPLE 14,"Fluid Blank #1",,,
SETINFO 14
SETINFO 14,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 15,"Hex Blank",,,
SETINFO 15
SETINFO 15,";;;;;;herbd.sub\"
SETSAMPLE 16,"Fluid Blank #2",,,
```

100/500 ppb

50/250

40/200

20/100

25/125

10/50

5/25

20

20/100

6411.1-3; 6419.1-3; 7001.1,2; 7023.01 FILTER x 1

Empirical Laboratories

7.18.04

```
SETINFO 16
SETINFO 16,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 17,"Hex Blank",,,
SETINFO 17
SETINFO 17,";;;;;;herbd.sub\"
SETSAMPLE 18,"Herb/DCAA #5631",,,
SETINFO 18
SETINFO 18,";;;;;;herbd.sub\"
SETSAMPLE 19,"Fluid Blank #3",,,
SETINFO 19
SETINFO 19,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 20,"Hex Blank",,,
SETINFO 20
SETINFO 20,";;;;;;herbd.sub\"
SETSAMPLE 21,"HW1BLK0712LCS",,,
SETINFO 21
SETINFO 21,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 22,"Hex Blank",,,
SETINFO 22
SETINFO 22,";;;;;;herbd.sub\"
SETSAMPLE 23,"Herb. ICV #5640",,,
SETINFO 23
SETINFO 23,";;;;;;herb.sub\"
SETSAMPLE 24,"HW1BLK0712LCSD",,,
SETINFO 24
SETINFO 24,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 25,"Hex Blank",,,
SETINFO 25
SETINFO 25,";;;;;;herbd.sub\"
SETSAMPLE 26,"0607023-01",,,
SETINFO 26
SETINFO 26,"ch2.h07023;100;10;071206HW1;mg/L;0.001;tclp.sub\"
SETSAMPLE 27,"Hex Blank",,,
SETINFO 27
SETINFO 27,";;;;;;herbd.sub\"
SETSAMPLE 28,"Herb/DCAA #5639H",,,
SETINFO 28
SETINFO 28,";;;;;;herbd.sub\"
SETSAMPLE 29,"HS1BLK0707",,,
SETINFO 29
SETINFO 29,"tet.h06382;10.0;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 30,"HS1BLK0707LCS",,,
SETINFO 30
SETINFO 30,"tet.h06382;10.0;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 31,"0606382-01",,,
SETINFO 31
SETINFO 31,"tet.h06382;10.2;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 32,"0606382-02",,,
SETINFO 32
SETINFO 32,"tet.h06382;10.4;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 33,"0606382-03",,,
SETINFO 33
SETINFO 33,"tet.h06382;10.4;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 34,"0606382-04",,,
SETINFO 34
SETINFO 34,"tet.h06382;10.3;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 35,"0606382-05",,,
SETINFO 35
SETINFO 35,"tet.h06382;10.0;10;070706HS1;ug/Kg;;herbd.sub\"
SETSAMPLE 36,"0606404-01",,,
SETINFO 36
```

20/100 ppb

6411.1-3 ; 6419.1-3 ; 7001.1,2 ; 7023.01 FILTER x 1

NOT USED

20/100ppb

6382.1-5 ; 6404.1,2 FILTER x 1

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

51WC1S060706

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) SOIL Lab Sample ID: 0607023-01

Sample wt/vol: 15.4 (g/mL) G Lab File ID: 014F1401

% Moisture: 4 decanted: (Y/N) N Date Sampled: 07/06/06 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 07/11/06

Concentrated Extract Volume: 5.0(mL) Date Analyzed: 07/12/06 22:00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
12674-11-2	PCB-1016	4.2	17		U
11104-28-2	PCB-1221	4.2	17		U
11141-16-5	PCB-1232	4.2	17		U
53469-21-9	PCB-1242	4.2	17		U
12672-29-6	PCB-1248	4.2	17		U
11097-69-1	PCB-1254	4.2	17		U
11096-82-5	PCB-1260	4.2	17		U

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Column(1): DB-35MS ID: 0.32 (mm) Column(2): DB-XLB ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PS1BLK0711	89	85	97	91			0
02	PS1BLK0711LC	86	84	93	88			0
03	51WC1S060706	89	74	86	79			0
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (ug/Kg)
S1	= TCMX	(30-120)	17
S2	= DCB	(35-140)	17

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Matrix Spike - Client Sample No.: PS1BLK0711

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
PCB-1016	166.7	0.0000	142.7	86	45-120
PCB-1260	166.7	0.0000	165.1	99	40-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

_____

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PS1BLK0711

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Lab Sample ID: PS1BLK0711 Lab File ID: 012F1201

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SOXH

Sulfur Cleanup (Y/N) N Date Extracted:07/11/06

Date Analyzed (1): 07/12/06 Date Analyzed (2): 07/12/06

Time Analyzed (1): 2103 Time Analyzed (2): 2103

Instrument ID (1): ECD4 Instrument ID (2): ECD4

Column (1): DB-35MS ID: 0.32(mm) Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PS1BLK0711LC	PS1BLK0711LCS	07/12/06	07/12/06
02	51WC1S060706	0607023-01	07/12/06	07/12/06
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PS1BLK0711

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Matrix: (soil/water) SOIL Lab Sample ID: PS1BLK0711

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 012F1201

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 07/11/06

Concentrated Extract Volume: 5.0(mL) Date Analyzed: 07/12/06 21:03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
12674-11-2	PCB-1016	4.2	17		U
11104-28-2	PCB-1221	4.2	17		U
11141-16-5	PCB-1232	4.2	17		U
53469-21-9	PCB-1242	4.2	17		U
12672-29-6	PCB-1248	4.2	17		U
11097-69-1	PCB-1254	4.2	17		U
11096-82-5	PCB-1260	4.2	17		U

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-35MS ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RF1000: 008F0801 RF750: 009F0901 RF500: 010F1001
RF250: 011F1101 RF100: 012F1201

COMPOUND	RF1000	RF750	RF500	RF250	RF100
PCB-1016	1276.142	1249.513	1356.972	1123.424	1180.900
(2)	517.596	455.644	552.652	478.400	549.370
(3)	553.271	521.831	593.308	497.744	530.340
(4)	659.727	649.032	692.532	674.360	763.960
(5)	536.718	522.011	570.280	498.420	537.980
PCB-1260	1675.746	1692.839	1770.216	1685.296	1893.810
(2)	786.788	773.236	810.894	759.428	813.620
(3)	996.929	1053.697	1030.812	1074.508	1127.810
(4)	1232.456	1231.492	1271.840	1255.496	1318.680
(5)	931.944	918.904	956.300	857.760	1114.760
TCMX	24373.420	23769.060	22655.600	21218.500	21550.800
DCB	10203.770	10626.020	11404.320	11748.000	11918.000

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-35MS ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RF50: 013F1301 RF25: 014F1401

COMPOUND	RF50	RF25	CURVE	COEFFICENT A1	%RSD OR R^2
PCB-1016	1511.400	1716.320	AVRG	1344.95305	15.3
(2)	635.280	719.920	AVRG	558.408857	16.5
(3)	713.700	763.440	AVRG	596.233381	17.2
(4)	931.520	1088.120	AVRG	779.893000	21.5
(5)	678.100	740.760	AVRG	583.466952	15.5
PCB-1260	1769.200	1790.000	AVRG	1753.87238	4.4
(2)	905.560	927.120	AVRG	825.235143	7.9
(3)	1223.420	1206.640	AVRG	1101.97376	7.9
(4)	1427.400	1486.480	AVRG	1317.69200	7.7
(5)	1012.840	1045.000	AVRG	976.786857	8.8
TCMX	25679.000	27654.000	AVRG	23842.9114	9.6
DCB	12456.000	13742.000	AVRG	11728.3014	10.0

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-35MS ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RT1: 008F0801 RT2: 009F0901 RT3: 010F1001
RT4: 011F1101 RT5: 012F1201

COMPOUND	RT1	RT2	RT3	RT4	RT5
PCB-1016	9.580	9.580	9.580	9.580	9.580
(2)	8.900	8.900	8.900	8.900	8.900
(3)	9.720	9.720	9.720	9.720	9.720
(4)	9.980	9.980	9.980	9.980	9.990
(5)	10.350	10.350	10.350	10.360	10.360
PCB-1260	13.370	13.370	13.370	13.370	13.370
(2)	11.730	11.730	11.730	11.730	11.730
(3)	11.910	11.920	11.910	11.920	11.920
(4)	12.140	12.140	12.140	12.150	12.150
(5)	12.640	12.640	12.640	12.640	12.640
TCMX	7.440	7.440	7.440	7.440	7.440
DCB	15.290	15.290	15.290	15.290	15.290

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-35MS ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RT6: 013F1301 RT7: 014F1401

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
PCB-1016	9.580	9.580	9.580	9.552	9.612
(2)	8.900	8.900	8.900	8.871	8.931
(3)	9.720	9.720	9.720	9.691	9.751
(4)	9.980	9.980	9.981	9.954	10.014
(5)	10.350	10.350	10.353	10.322	10.382
PCB-1260	13.370	13.370	13.370	13.339	13.399
(2)	11.730	11.730	11.730	11.696	11.756
(3)	11.920	11.920	11.917	11.886	11.946
(4)	12.140	12.150	12.144	12.116	12.176
(5)	12.640	12.640	12.640	12.606	12.666
TCMX	7.440	7.440	7.440	7.411	7.471
DCB	15.290	15.290	15.290	15.262	15.322

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-XLB ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RF1000: 008R0801 RF750: 009R0901 RF500: 010R1001
RF250: 011R1101 RF100: 012R1201

COMPOUND	RF1000	RF750	RF500	RF250	RF100
PCB-1016	1487.099	1486.876	1603.332	1403.220	1535.390
(2)	814.345	825.145	884.330	882.104	1018.460
(3)	1189.239	1156.119	1273.246	1102.088	1185.230
(4)	1217.860	1239.035	1294.408	1466.240	1801.940
(5)	859.450	857.093	925.790	887.816	1012.960
PCB-1260	1967.091	2014.003	2115.894	2116.536	2336.230
(2)	1259.993	1276.551	1328.764	1351.952	1563.670
(3)	1388.176	1410.005	1487.300	1486.400	1719.200
(4)	986.656	1013.239	1063.820	1079.832	1236.600
(5)	1126.174	1159.452	1236.436	1242.796	1381.890
TCMX	35034.580	35714.400	35596.320	35184.800	37291.800
DCB	12060.400	12808.540	13985.800	14956.800	15950.400

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-XLB ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RF50: 013R1301 RF25: 014R1401

COMPOUND	RF50	RF25	CURVE	COEFFICENT A1	%RSD OR R^2
PCB-1016	1844.860	2034.040	AVRG	1627.83100	14.0
(2)	1172.440	1262.360	AVRG	979.883476	18.1
(3)	1521.440	1643.960	AVRG	1295.90310	15.8
(4)	1708.640	1551.000	AVRG	1468.44610	15.8
(5)	1288.820	1432.880	AVRG	1037.82990	22.2
PCB-1260	2476.340	2697.440	AVRG	2246.21910	11.9
(2)	1735.600	1713.640	AVRG	1461.45281	14.1
(3)	1961.300	2128.640	AVRG	1654.43162	17.6
(4)	1342.120	1403.920	AVRG	1160.88381	14.3
(5)	1444.920	1560.640	AVRG	1307.47257	12.2
TCMX	39557.500	40652.000	AVRG	37004.4857	6.1
DCB	16417.000	18257.000	AVRG	14919.4200	14.5

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-XLB ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RT1: 008R0801 RT2: 009R0901 RT3: 010R1001
RT4: 011R1101 RT5: 012R1201

COMPOUND	RT1	RT2	RT3	RT4	RT5
PCB-1016	10.510	10.510	10.510	10.510	10.510
(2)	9.690	9.690	9.690	9.690	9.690
(3)	10.470	10.470	10.470	10.470	10.470
(4)	10.560	10.560	10.560	10.560	10.560
(5)	10.730	10.730	10.720	10.730	10.730
PCB-1260	14.360	14.360	14.360	14.360	14.360
(2)	12.800	12.800	12.800	12.800	12.800
(3)	13.160	13.160	13.150	13.160	13.160
(4)	13.660	13.660	13.660	13.660	13.660
(5)	14.760	14.760	14.760	14.760	14.760
TCMX	8.580	8.580	8.580	8.580	8.580
DCB	16.580	16.580	16.580	16.580	16.580

FORM 6
PCB ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date(s): 07/06/06 07/06/06

Column: DB-XLB ID: 0.32 (mm) Calibration Time(s): 1459 1750

LAB FILE ID: RT6: 013R1301 RT7: 014R1401

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
PCB-1016	10.510	10.510	10.510	10.483	10.543
(2)	9.690	9.690	9.690	9.661	9.721
(3)	10.470	10.470	10.470	10.438	10.498
(4)	10.560	10.560	10.560	10.528	10.588
(5)	10.730	10.730	10.729	10.696	10.756
PCB-1260	14.360	14.360	14.360	14.331	14.391
(2)	12.800	12.800	12.800	12.771	12.831
(3)	13.150	13.160	13.157	13.126	13.186
(4)	13.660	13.660	13.660	13.631	13.691
(5)	14.760	14.760	14.760	14.728	14.788
TCMX	8.570	8.580	8.579	8.546	8.606
DCB	16.580	16.580	16.580	16.551	16.611

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date: 07/12/06 Time: 1617

Lab File ID: 002F0201 Init. Calib. Date(s): 07/06/06 07/06/06

Init. Calib. Times: 1459 1750

COMPOUND	$\overline{RRF}$	RRF500	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
PCB-1016	1344.9	1455.4	500.0	501.8		AVRG	0.4	15.0
PCB-1260	1753.9	1805.0	500.0	502.2		AVRG	0.4	15.0
TCMX	23843	22778	25.00	23.88		AVRG	-4.5	15.0
DCB	11728	11080	25.00	23.62		AVRG	-5.5	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date: 07/13/06 Time: 0217

Lab File ID: 023F2301 Init. Calib. Date(s): 07/06/06 07/06/06

Init. Calib. Times: 1459 1750

COMPOUND	$\overline{RRF}$	RRF500	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
PCB-1016	1344.9	1537.3	500.0	517.9		AVRG	3.6	15.0
PCB-1260	1753.9	1757.4	500.0	489.9		AVRG	-2.0	15.0
TCMX	23843	24093	25.00	25.26		AVRG	1.0	15.0
DCB	11728	11141	25.00	23.75		AVRG	-5.0	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date: 07/12/06 Time: 1617

Lab File ID: 002R0201 Init. Calib. Date(s): 07/06/06 07/06/06

Init. Calib. Times: 1459 1750

COMPOUND	$\overline{RRF}$	RRF500	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
PCB-1016	1627.8	1634.9	500.0	475.1		AVRG	-5.0	15.0
PCB-1260	2246.2	2165.4	500.0	470.9		AVRG	-5.8	15.0
TCMX	37005	36101	25.00	24.39		AVRG	-2.4	15.0
DCB	14919	13567	25.00	22.73		AVRG	-9.1	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Instrument ID: ECD4 Calibration Date: 07/13/06 Time: 0217

Lab File ID: 023R2301 Init. Calib. Date(s): 07/06/06 07/06/06

Init. Calib. Times: 1459 1750

COMPOUND	$\overline{RRF}$	RRF500	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
PCB-1016	1627.8	1677.8	500.0	482.2		AVRG	-3.6	15.0
PCB-1260	2246.2	2107.9	500.0	457.8		AVRG	-8.4	15.0
TCMX	37005	37010	25.00	25.00		AVRG	0.0	15.0
DCB	14919	14097	25.00	23.62		AVRG	-5.5	15.0

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Column: DB-35MS ID: 0.32 (mm) Cont. Calib. Date(s): 07/06/06

Instrument ID: ECD4

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 7.44 S2 : 15.29

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660/SUR1000	07/06/06	1459	7.44	15.29
02		1660/SURR 75	07/06/06	1528	7.44	15.29
03		1660/SURR 50	07/06/06	1556	7.44	15.29
04		1660/SURR 25	07/06/06	1625	7.44	15.29
05		1660/SURR 10	07/06/06	1653	7.44	15.29
06		1660/SURR 50	07/06/06	1722	7.44	15.29
07		1660/SURR 25	07/06/06	1750	7.44	15.29
08		1660 ICV 500	07/06/06	1819		
09						
10						
11						
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32						

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Column: DB-35MS ID: 0.32 (mm) Cont. Calib. Date(s): 07/12/06-07/13/06

Instrument ID: ECD4

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 7.44 S2 : 15.29

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660/SURR 50	07/12/06	1617	7.44	15.29
02		1248 500PPB	07/12/06	1645		
03		1242 500PPB	07/12/06	1714		
04	ZZZZZ	ZZZZZ	07/12/06	1742	7.44	15.29
05	ZZZZZ	ZZZZZ	07/12/06	1811	7.44	15.29
06	ZZZZZ	ZZZZZ	07/12/06	1839	7.44	15.29
07	ZZZZZ	ZZZZZ	07/12/06	1908	7.44	15.29
08	ZZZZZ	ZZZZZ	07/12/06	1937	7.44	15.29
09	ZZZZZ	ZZZZZ	07/12/06	2005	7.44	15.29
10	ZZZZZ	ZZZZZ	07/12/06	2034	7.44	15.29
11	PS1BLK0711	PS1BLK0711	07/12/06	2103	7.44	15.29
12	PS1BLK0711LC	PS1BLK0711LC	07/12/06	2131	7.44	15.29
13	51WC1S060706	0607023-01	07/12/06	2200	7.44	15.29
14	ZZZZZ	ZZZZZ	07/12/06	2228		15.29
15	ZZZZZ	ZZZZZ	07/12/06	2257		15.29
16	ZZZZZ	ZZZZZ	07/12/06	2325		15.29
17	ZZZZZ	ZZZZZ	07/12/06	2354		15.29
18	ZZZZZ	ZZZZZ	07/13/06	0022		15.29
19	ZZZZZ	ZZZZZ	07/13/06	0051		15.29
20	ZZZZZ	ZZZZZ	07/13/06	0120		15.29
21	ZZZZZ	ZZZZZ	07/13/06	0148		15.29
22		1660/SURR 50	07/13/06	0217	7.44	15.29
23		1248 500PPB	07/13/06	0245		
24		1242 500PPB	07/13/06	0314		
25	ZZZZZ	ZZZZZ	07/13/06	0342		15.29
26	ZZZZZ	ZZZZZ	07/13/06	0411		15.29
27	ZZZZZ	ZZZZZ	07/13/06	0439		15.29
28		1660/SURR 50	07/13/06	0508	7.44	15.29
29		1248 500PPB	07/13/06	0536		
30		1242 500PPB	07/13/06	0605		
31						
32						

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Column: DB-XLB ID: 0.32 (mm) Cont. Calib. Date(s): 07/06/06

Instrument ID: ECD4

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.58 S2 : 16.58					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660/SUR1000	07/06/06	1459	8.58	16.58
02		1660/SURR 75	07/06/06	1528	8.58	16.58
03		1660/SURR 50	07/06/06	1556	8.58	16.58
04		1660/SURR 25	07/06/06	1625	8.58	16.58
05		1660/SURR 10	07/06/06	1653	8.58	16.58
06		1660/SURR 50	07/06/06	1722	8.57	16.58
07		1660/SURR 25	07/06/06	1750	8.58	16.58
08		1660 ICV 500	07/06/06	1819		
09						
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32						

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: CH2.P07023

Column: DB-XLB ID: 0.32 (mm) Cont. Calib. Date(s): 07/12/06-07/13/06

Instrument ID: ECD4

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 8.58 S2 : 16.58

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
01		1660/SURR 50	07/12/06	1617	8.57		16.58	
02		1248 500PPB	07/12/06	1645				
03		1242 500PPB	07/12/06	1714				
04	ZZZZZ	ZZZZZ	07/12/06	1742	8.57		16.58	
05	ZZZZZ	ZZZZZ	07/12/06	1811	8.57		16.58	
06	ZZZZZ	ZZZZZ	07/12/06	1839	8.57		16.58	
07	ZZZZZ	ZZZZZ	07/12/06	1908	8.57		16.58	
08	ZZZZZ	ZZZZZ	07/12/06	1937	8.57		16.58	
09	ZZZZZ	ZZZZZ	07/12/06	2005	8.57		16.58	
10	ZZZZZ	ZZZZZ	07/12/06	2034	8.57		16.58	
11	PS1BLK0711	PS1BLK0711	07/12/06	2103	8.57		16.58	
12	PS1BLK0711LC	PS1BLK0711LC	07/12/06	2131	8.57		16.58	
13	51WC1S060706	0607023-01	07/12/06	2200	8.57		16.58	
14	ZZZZZ	ZZZZZ	07/12/06	2228			16.57	
15	ZZZZZ	ZZZZZ	07/12/06	2257			16.58	
16	ZZZZZ	ZZZZZ	07/12/06	2325			16.58	
17	ZZZZZ	ZZZZZ	07/12/06	2354			16.57	
18	ZZZZZ	ZZZZZ	07/13/06	0022			16.57	
19	ZZZZZ	ZZZZZ	07/13/06	0051			16.58	
20	ZZZZZ	ZZZZZ	07/13/06	0120			16.58	
21	ZZZZZ	ZZZZZ	07/13/06	0148			16.58	
22		1660/SURR 50	07/13/06	0217	8.57		16.58	
23		1248 500PPB	07/13/06	0245				
24		1242 500PPB	07/13/06	0314				
25	ZZZZZ	ZZZZZ	07/13/06	0342			16.58	
26	ZZZZZ	ZZZZZ	07/13/06	0411			16.57	
27	ZZZZZ	ZZZZZ	07/13/06	0439			16.58	
28		1660/SURR 50	07/13/06	0508	8.57		16.58	
29		1248 500PPB	07/13/06	0536				
30		1242 500PPB	07/13/06	0605				
31								
32								

QC LIMITS

S1 = TCMX (+/- 0.03 MINUTES)
S2 = DCB (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

#	Client	Lab No.	Date Extracted	Setup Initials	Initial Weight	Final Volume	TCMX Added	TCMX Initials	Spike Added	Spike Initials	Turbo Vap	Conc. Initials	Solvent Lot/Vendor Acetone	MeCl2	Hexane	Notes/Comments
1	[redacted]	6382-01	07070685	WJ	15.3	5ml	5ml 5578	WJ	NA	NA	PDE		062287		061923	
2		02	TRD		15.3				NA	NA	SAT					
3		03			15.3				NA	NA	S3					
4		04			15.7				NA	NA	GOT					
5		05			15.5				NA	NA	MUT					
6		6404-01			15.2				NA	NA	TOE					
7		02			15.3				NA	NA	SEG					
8	[redacted]	6423-01			15.3				NA	NA	WOT					
9	CH2MHill	7023-01	07110685	MH	15.4	5ml	5ml 5578	mH	NA	NA			062787		061923	- St6 7:30
10									NA	NA						
11									NA	NA						
12									NA	NA						
13									NA	NA						
14									NA	NA						
15									NA	NA						
16									NA	NA						
17									NA	NA						
18									NA	NA						
19									NA	NA						
20									NA	NA						
	MBlk	1-8	07070685	WJ	-	5ml	SAS	SAS			DOG		SAS	SAS	SAS	
	LCS AB	1-7			-		SAS	SAS	5ml 5578	WJ	CAT		SAS	SAS	SAS	
	MS	6404-1			15.0		SAS	SAS			BAT		SAS	SAS	SAS	
	MSD				15.1		SAS	SAS			NAT		SAS	SAS	SAS	
	LCS	6423-1			-		SAS	SAS	5ml 5600		TAT		SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
	M.Blank	7023-01	07110685	MH	-	5ml	SAS	SAS		mH			SAS	SAS	SAS	SB43, ST4
	LCS 1/10				-		SAS	SAS	.5ml 5600				SAS	SAS	SAS	SB23, ST20
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	
							SAS	SAS					SAS	SAS	SAS	

Barbara Dawson
7/13/06

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	1660 Primer				
2	Vial 2	1660/surr 500/25	ID# 5613			
3	Vial 3	~~1242~~ 500ppb 1248	ID# 5597E			
4	Vial 4	~~1248~~ 500ppb 1242	ID# 5607			
5	Vial 5	PS1BLK0707	6423-01	x1	Acid/Cu	15.0→5
6	Vial 6	PS1BLK0707LCS	↓	↓	↓	↓
7	Vial 7	0606423-01 RR1254	5.3g→5	↓	↓	15.3→5
8	Vial 8	PW1BLK0710	7011-01,02	x1	Acid/Cu	1000→5
9	Vial 9	PW1BLK0710LCS	↓	↓	↓	↓
10	Vial 10	0607011-01	↓	↓	↓	1070→5
11	Vial 11	0607011-02	↓	↓	↓	1050→5
12	Vial 12	PS1BLK0711	7023-01	x1	Acid/Cu	15.0→5
13	Vial 13	PS1BLK0711LCS	↓	↓	↓	↓
14	Vial 14	0607023-01	↓	↓	↓	15.4→5
15	Vial 15	PW1BLK0712	7006-01-04; 7026-01-03	x1	Acid/Cu	1000→2
16	Vial 16	PW1BLK0712LCS	↓	↓	↓	↓
17	Vial 17	0607006-01	50→2		x1	↓
18	Vial 18	0607006-01;x5	50→2		x5	↓
19	Vial 19	0607006-02	100→2		x1	↓
20	Vial 20	0607006-03	50→2		x1	↓
21	Vial 21	0607006-03;x5	50→2		x5	↓
22	Vial 22	0607006-04	100→2		x1	↓
23	Vial 23	1660/surr 500/25	ID# 5613			
24	Vial 24	~~1242~~ 500ppb 1248	ID# 5597E			
25	Vial 25	~~1248~~ 500ppb 1242	ID# 5607			
26	Vial 26	0607026-01	875→2	x1	Acid	
27	Vial 27	0607026-02	900→2	x1	↓	
28	Vial 28	0607026-03 RR	875→2	x1	↓	
29	Vial 29	1660/surr 500/25	ID# 5613			
30	Vial 30	~~1242~~ 500ppb 1248	~~ID#~~ 5597E			
31	Vial 31	~~1248~~ 500ppb 1242	ID# 5607			

Sequence Table (Back Injector):

No entries - empty table!

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 6423-1 6405-2 6404-1,2	9:10 7-6-06 LG	11:25 7/11/06		Herbicide BNA PCB
6405-02	9:50 7-6-6 M			VOA
6423 6422	1013 7/6/06 B	1040 7/6/06		1.5
7001-01 B →02	1157 7/6/06 RCL	1702 7/6/06		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCL			ZHE
6399.01→02	1431 7/6/06 RCL			SPLP
6405-02	7:00 7/7/6 M	11:30 7/7/6 M		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:45 7/7/6 M	Weight + pH	VOA
7014-03B	1:35 7/7/1 M			VOA
7022 01-711	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06 RS	15:32 7/10/06 RS		CN
7023.01 A,B	9:11 7/10/06 RCL	1450 7/10/06 RCL	taken from extractns	PH, TCLP, ZHE/NON
7014 B	9:46 7/10/06			
7022-3-11	10:05 7/10/6 M		Weight + pH	VOA
7014-1-3	1230 7-10-06 LG	1245 7-10-06 LG		FPPO
6399	1435 7/10/06	1456 7/10/06		1.5
7014-01-703	6:30 7/11/06 AM	7:16 7/11/06		BNA
7023-01	↓	↓		PCB
6226-01 6217-01-05 6236-1-07 6392-1,2	8:00 7/11/06 RS	15:45 7/11/06 RS		CN

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log Numbers	Fraction	Time/Date Removed	Initials	Time/Date Inserted	Initials	Reason for Removal
7022-06, 07	F. PRO	13:25 7/11/06	BTD	13:50 7/11/06	BTD	Analysis
7008-01 ; 7009-01	EXP	13:25 7/11/06	BTD	↓	↓	↓
6441-1-3 7001-1,2 6419-1-3 7017-1 7023-1 7023-1	Pest/PCB			200 7-11-06	cg	
7023-1 7014-1-3 7015-1 7025-1	BNA			220 7-11-06	MA	
6217.04; 6236.01 6382.1-5 ; 6404.01	PEST/PCB	3:30 PM/7.11.06	J.H.	5:15 PM/7.11.06	J.H.	ANALYZE
6411.1-3 ; 6419.1-3 7001.1,2 ; 7017.01 7023.01	↓	↓	J.H.	↓	J.H.	↓
7022.02	F. PRO	09:20 7/12/06	BTD	9:25 7/12/06	BTD	Analyst
7006-1-4	PCB			7-12-06 1000	cg	
6423-01 7026-1-3 7006-01-04	PCB	10:28 7/12/06	BTD	15:30 7/12/06	BTD	Analyze
7011-01,02 7023-01	↓	↓	↓	↓	↓	↓
7022-01-11 7	F. PRO	12:15 7/12/06	BTD	↓	↓	ReAnalyze
6441-1-3 6419-1-3 7001-1,2 7023-1	Herb's			7-13-06 1100	cg	
7032-1-4 7042-1 7040-1-4 7011-1,2	PCB			7-13-06 1:10	cg	
7023.01; 6382.1-5; 6404.1,2; 6162.1-4 6195.1-4	HERB.	3:05 PM/7.13.06	J.H.	4:10 PM/7.13.06	J.H.	ANALYZE
7015-01 7023-01 7025-01 6411-1-03 6419-1-03 6423-01 6399-01-02 7001-01-02	BNA	8:05 7/13/06	[illegible]	8:30 7/14/06	[illegible]	[illegible]
7017-01-02 7014-01-03 6405.02	↓	↓	↓	↓	↓	↓
7014-01-03 ; 6384-02 MDL's Soil & Water	F. PRO	07:30 7/14/06	BTD	11:30 7/14/06		Analysis
6423 01 7026-01	PCB	07:30 7/14/06	BTD	11:30 7/14/06		Analyze
7039, 40, 41, 42	↓	↓	↓	↓		↓
7037-1-54	Exp			7-14-06 830	cg	
7036-01	EXP			11:15 7/14/061	MA	
7038-01-07, 09-11 7030-01,02	BNA			11:20 7/14/06	MA	

ANALYTICAL REPORT

MAIN DATA PACKAGE - INORGANIC

CH2M Hill, Inc.

WO #0607023

EMPIRICAL LABORATORIES, LLC

Marcia K. McGinnity
Senior Project Manager

July 17, 2006

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WO# 0607023

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INORGANIC CASE NARRATIVE
CH2M HILL, Inc.
SDG# & Work Order # 0607023
July, 2006

Empirical Laboratories ID	Client ID
0607023-01	51WC1S060706

I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Betty DeVille
Inorganic Lab Manager

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

USEPA SW846 method 1311A was used to extract TCLP metals, method 3010A was used for digestion and 6010B was used for analysis of ICAP metals while method 7470A was used for digestion and analysis of Mercury. Method 1010 was used for ignitability. Method 9045B was used for pH. Note: A "U" on the forms indicates that the analyte is reported down to the ILMO4.2 CRDL for mercury and ICAP metals. The "B" flag indicates that the analyte result is between the CRDL and the laboratory MDL. All methods performed according to EPA guidelines and Empirical Laboratories' Standard Operating Procedures.

IV. PREPARATION

All methods performed according to EPA guidelines and Empirical Laboratories' Standard Operating Procedures. The TCLP extract is diluted ten times prior to digestion for both ICAP metals and mercury.

INORGANIC CASE NARRATIVE
CH2M HILL, Inc.
SDG# & Work Order # 0607023
July, 2006

V. **ANALYSIS** 7/13/06 (ICAP); 7/13/06 (Mercury); 7/10/06 (pH); 7/13/06 (Ignitability)

A. **Calibration:** All calibration criteria were met.

B. **Blanks:** All blank criteria were met.

C. **Spikes:** All matrix spike quality control criteria were met.

D. **Duplicates:** All duplicate quality control criteria were met.

E. **Samples:** All sample analysis proceeded normally.

F. **Laboratory Control Samples:** All percent recovery quality control criteria were met.

CH2M Hill

Parameters Requested

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0607023-01	51WC1S060706	Solid	7/6/06 3:20:00 PM	% Solids
				Arsenic-TCLP
				Barium-TCLP
				Cadmium-TCLP
				Chromium-TCLP
				Ignitability
				Lead-TCLP
				Mercury-TCLP
				pH- Laboratory (1)
				Selenium-TCLP
				Silver-TCLP

Empirical Laboratories

00003

Empirical Laboratories

M Hill Constructors, Inc.
imeter Center Place, Suite 700
GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **346570-001 (2 of 2)**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAVSTA Mayport	346570	Empirical Laboratories Marcia McGinnity	Mike Halil, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
NAVSTA Mayport CTO-51 Satellite Parking Lot Two Excavation	CTO 0051	806662	Bethany Garvey CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:		FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Mike Halil, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(615)345-1119		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include): BTEX by 8260B	16 Listed PAHs (including 1- and 2-methylnapthalene) by 8270C, TRPH by FL-PRO	TCLP Volatiles by 1311/8260B	TCLP Semi-Volatiles by 1311/8270C; TCLP Metals by 1311/6010A/7470; TCLP Pesticides by 1311/8081A, TCLP Herbicides by 1311/8151A, PCBs by 8082; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
7022 10	51CFM08S060706	Post-Excavation Confirmatory Sampling	W	07/06/06	16:49	C	3 Day	4	1		3J,10,11-UNREJ	Grab		
0311	51MS1S060706	Matrix Spike Sample (29PST01S060629)	W	07/06/06	15:45	C	3 Day	4	1			Grab		
0312	51MSD1S060706	Matrix Spike Duplicate Sample (29PST01S060629)	S	07/06/06	15:45	C	3 Day	4	1			Grab		
1113	51DUP1S060706	Duplicate Sample	S	07/06/06	--	C	3 Day	4	1			Grab		
7023-01 14	51WC1S060706	Waste Characterization Sample	S	07/06/06	15:20	B	7 Day			1	1 1M,1K-UNREJ	Composite		
7022-12	TB-1-060706	TRIP BLANK	W	7-6-06				2			2J-HCLPH<2			
7023-02	TB-2-060706	✓	W	✓				2			✓			

	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	3.0

RELINQUISHED BY Printed Name and Signature:	DATE	TIME	RECEIVED BY Printed Name and Signature:	DATE	TIME
Jeff Marks, CH2M HILL Constructors, Inc.	7/7/2006	18:00	FedEx Tracking Numbers: 7909 8224 4187 and 7909 8224 4202	7/7/2006	18:00
Printed Name and Signature:			Printed Name and Signature:		
			GARY FORSYTHE	7-8-06	830

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

00004

3.0

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number 0607023 **COC ID(s):** 346570-001

Client CH2M H.11 **Project** NAVSTA Mayport

Sample Custodian Andy Bates **Today's Date** 7-8-06

Date/Time Samples Received 7-8 1300
Airbill Number FX
Cooler Opened: Date 7-8

Chain of custody seals intact?	**Yes**	**No**
Chain of custody provided?	**Yes**	**No**
Sample labels present?	**Yes**	**No**
Bottle labels correspond w/COC	**Yes**	**No**

Number of Custody Seals on Cooler(s): 2 **Seal Date(s):** 7-7

Type of coolant used ICE

Coolant condition: Melted _____ **Partially melted/frozen** ✓
Frozen _____

# of Coolers 1 **Temp. of Coolers** 3.0

Condition of Bottles in Shipment: **Broken** **Leaking** **Intact** **Missing**

If broken or leaking list sample ID#s and bottle types affected:

_____

_____

_____

Comments:

_____

_____

_____

_____

Batching Information

SDG No.: 0607023
Client: CH2M Hill, Inc.
Empirical Laboratories

Batch Number: ICP071206B ICAP Metals

PBW071206B	PBW071206B	MB	TCLP
LCSW071206B	LCSW071206B	LCS	TCLP
0607023-01	51WC1S060706	SAM	TCLP
0607023-01S	51WC1S060706S	MS	TCLP

Batch Number: HG071206A Mercury

LCSW071206	LCSW071206	LCS	TCLP
PBW071206	PBW071206	MB	TCLP
0607023-01	51WC1S060706	SAM	TCLP
0607023-01S	51WC1S060706S	MS	TCLP
0607023-01D	51WC1S060706D	DUP	TCLP

Batch Number: IG071306A Ignitability

PBW071306A	PBW071306A	MB	SOLID
LCSW071306A	LCSW071306A	LCS	SOLID
0607023-01	51WC1S060706	SAM	SOLID
0607023-01D	51WC1S060706S	DUP	SOLID

Batch Number: pH071006A pH

0607023-01	51WC1S060706	SAM	SOLID

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
51WC1S060706	0607023-01
51WC1S060706D	0607023-01D
51WC1S060706S	0607023-01S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: D. Rick Davis

Date: _____ Title: Vice-President

USEPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

51WC1S060706

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Matrix (soil/water): WATER Lab Sample ID: 0607023-01

Level (low/med): LOW Date Received: 7/8/06

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	30.0	U		P
7440-39-3	Barium	50.0	U		P
7440-43-9	Cadmium	10.0	U		P
7440-47-3	Chromium	20.0	U		P
7439-92-1	Lead	15.0	U		P
7439-97-6	Mercury	0.80	U		AV
7782-49-2	Selenium	30.0	U		P
7440-22-4	Silver	10.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: Initial pH = 9.6 Final pH = 6.4
BLD 7/14/06

Empirical Laboratories

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Initial Calibration Source: Accustandard

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000.0	1038.98	103.9	1000.0	1040.16	104.0	1041.93	104.2	P
Barium	1000.0	983.63	98.4	1000.0	982.13	98.2	971.21	97.1	P
Cadmium	1000.0	1074.20	107.4	1000.0	1046.18	104.6	1037.89	103.8	P
Chromium	1000.0	1031.54	103.2	1000.0	1024.61	102.5	1015.27	101.5	P
Lead	1000.0	1026.38	102.6	1000.0	1021.93	102.2	1015.40	101.5	P
Mercury	4.0	3.88	97.0	7/MW 4.0/2.0	3.91	97.8	1.85	92.5	AV
Selenium	1000.0	1060.76	106.1	1000.0	1051.91	105.2	1051.40	105.1	P
Silver	500.0	485.03	97.0	500.0	485.66	97.1	480.32	96.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Initial Calibration Source: Accustandard

Continuing Calibration Source: Spex

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				2.0	1.90	95.0			AV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Arsenic				20.0	21.39	107.0	22.52	112.6
Barium								
Cadmium				10.0	10.91	109.1	10.61	106.1
Chromium				20.0	20.56	102.8	20.58	102.9
Lead				6.0	6.35	105.8	6.05	100.8
Selenium				10.0	14.01	140.1	12.26	122.6
Silver				20.0	19.27	96.4	19.77	98.8

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

3

BLANKS

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U			3.000	U	P
Barium	5.0	U	5.0	U	5.0	U			5.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U			1.000	U	P
Chromium	2.0	U	2.0	U	2.0	U			2.000	U	P
Lead	1.5	U	1.5	U	1.5	U			1.500	U	P
Mercury	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	AV
Selenium	3.0	U	3.0	U	3.0	U			3.000	U	P
Silver	1.0	U	1.0	U	1.0	U			1.000	U	P

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

ICP ID Number TJA61E TRACE ICP ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	100	-2	105.1	105.1	-2	105.1	105.1
Barium	0	500	2	526.7	105.3	2	525.0	105.0
Cadmium	0	1000	1	990.0	99.0	0	992.5	99.2
Chromium	0	500	1	506.7	101.3	1	509.1	101.8
Lead	0	50	2	52.3	104.6	4	52.4	104.8
Selenium	0	50	-7	44.8	89.6	-8	46.6	93.2
Silver	0	200	0	210.7	105.4	0	210.8	105.4

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

51WC1S060706S

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	2556.3330		30.0000	U	2500.00	102.3		P
Barium	75 - 125	25080.2598		50.0000	U	25000.00	100.3		P
Cadmium	75 - 125	524.6484		10.0000	U	500.00	104.9		P
Chromium	75 - 125	2582.7629		20.0000	U	2500.00	103.3		P
Lead	75 - 125	2543.3569		15.0000	U	2500.00	101.7		P
Mercury	75 - 125	17.6893		0.8000	U	20.00	88.4		AV
Selenium	75 - 125	507.7434		30.0000	U	500.00	101.5		P
Silver	75 - 125	1983.5081		10.0000	U	2000.00	99.2		P

Comments:

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

51WC1S060706D

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.80 ~~0.0~~	U	0.80	U			AV

BLD 7/14/06

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Solid LCS Source: _____

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	250.0	248.92	99.6						
Barium	2000.0	1935.58	96.8						
Cadmium	125.0	128.30	102.6						
Chromium	200.0	202.03	101.0						
Lead	250.0	250.34	100.1						
Mercury	2.00	1.93	96.5						
Selenium	250.0	236.43	94.6						
Silver	250.0	235.41	94.2						

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

ICP ID Number: _____ Date: 3/14/06

Flame AA ID Number: PE CVAA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.08	AV

Comments: _____

Empirical Laboratories

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

ICP ID Number: TJA61E TRACE ICP Date: 3/8/06

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	MDL (ug/L)	M
Arsenic	189.04		10.0	3.0	P
Barium	493.41		200.0	5.0	P
Cadmium	226.50		5.0	1.0	P
Chromium	267.72		10.0	2.0	P
Lead	220.35		3.0	1.5	P
Selenium	196.02		5.0	3.0	P
Silver	328.07		10.0	1.0	P

Comments: _____

USEPA - CLP

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: CH2M Hill **SDG No.:** 0607023

Contract: CH2M Hill **Lab Code:** _____ **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E TRACE ICP **Date:** 2/24/06

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	As
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Arsenic	189.04	0.0000010	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001010	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000210	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0001910	0.0000000
Lead	220.35	0.0002870	0.0000000	0.0000780	0.0000000	0.0000000
Lead	220.35	-0.0001700	0.0000000	0.0000500	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000170	0.0216570	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000140	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0003200	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0000700	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0018200	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000210	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	-0.0000600	0.0406250	0.0000000

USEPA - CLP

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ICP INTERELEMENT CORRECTION FACTORS

Client: CH2M Hill SDG No.: 0607023

Contract: CH2M Hill Lab Code: Case No.: SAS No.:

Instrument ID: TJA61E TRACE ICP Date: 2/24/06

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: B	Ba	Be	Cd	Co
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	-0.0209600
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0005830
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000900
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	-0.0014600	0.0000000	-0.0001900	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0865310
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0019300
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007400
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0025020
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

USEPA - CLP

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ICP INTERELEMENT CORRECTION FACTORS

Client: CH2M Hill **SDG No.:** 0607023

Contract: CH2M Hill **Lab Code:** _____ **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E TRACE ICP **Date:** 2/24/06

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0094250
Antimony	206.84	0.0038590	0.0000000	0.0000000	0.0000000	-0.0038000
Arsenic	189.04	0.0001610	0.0000000	0.0000000	0.0000000	0.0003200
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0001310	-0.0003400
Cobalt	228.62	-0.0000200	0.0000000	0.0000000	0.0000000	0.0000290
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004170
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000160	-0.0000800	0.0000000	0.0000840	-0.0001300
Lead	220.35	-0.0000500	0.0000000	0.0000000	0.0000510	-0.0009800
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000140
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000900	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0001100	0.0000000	0.0000000	0.0001450	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000350	0.0000000
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0002970	0.0000000	0.0000000	0.0004160	-0.0009600
Tin	189.99	0.0000000	0.0000000	0.0000000	-0.0001100	0.0000000
Titanium	334.94	0.0000430	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007300
Zinc	206.20	0.0002090	0.0000000	0.0000000	0.0000000	0.0003690

USEPA - CLP

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ICP INTERELEMENT CORRECTION FACTORS

Client: CH2M Hill SDG No.: 0607023

Contract: CH2M Hill Lab Code: _____ Case No.: _____ SAS No.: _____

Instrument ID: TJA61E TRACE ICP Date: 2/24/06

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sn	Ti
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0006660	0.0000870
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	-0.0019700
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002400
Cadmium	226.50	0.0000000	-0.0000600	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000790
Cobalt	228.62	0.0000000	0.0002520	0.0000000	-0.0000100	0.0020230
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001600
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.0008700	0.0000000	0.0000260
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	-0.0008800
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000400
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000970
Tin	189.99	0.0000000	-0.0000700	0.0000000	0.0000000	0.0002380
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0004080
Zinc	206.20	0.0000000	0.0000670	0.0000000	0.0000000	0.0000770

USEPA - CLP

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ICP INTERELEMENT CORRECTION FACTORS

Client: CH2M Hill SDG No.: 0607023

Contract: CH2M Hill Lab Code: Case No.: SAS No.:

Instrument ID: TJA61E TRACE ICP Date: 2/24/06

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Tl	V	Zn		
Aluminum	308.22	0.0000000	0.0164790	0.0000000		
Antimony	206.84	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0000000	0.0003660	0.0000000		
Boron	249.68	0.0000000	-0.0000600	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	-0.0000500	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0001000	0.0000000		
Iron	271.44	0.0000000	0.0065300	0.0000000		
Lead	220.35	0.0000000	-0.0000200	0.0000000		
Lead	220.35	0.0000000	-0.0001800	0.0000000		
Lead	220.35	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	279.08	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	231.60	0.0001020	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.02	0.0000000	-0.0000900	0.0000000		
Selenium	196.02	0.0000000	-0.0001600	0.0000000		
Selenium	196.02	0.0000000	0.0000000	0.0000000		
Silver	328.22	0.0000000	0.0000390	0.0000000		
Sodium	331.23	0.0000000	0.0000000	0.0000230		
Thallium	190.86	0.0000000	0.0015510	0.0000000		
Tin	189.99	0.0000000	0.0000000	0.0000000		
Titanium	334.94	0.0000000	0.0000220	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

ICP ID Number: TJA61E TRACE ICP Date: 2/24/06

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	15.00	10000.0	P
Barium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Chromium	15.00	10000.0	P
Lead	15.00	10000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	2000.0	P

Comments: _____

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Method P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
PBW071206B	7/12/06	50.0	50.0
LCSW071206B	7/12/06	50.0	50.0
51WC1S060706	7/12/06	5.0	50.0
51WC1S060706S	7/12/06	5.0	50.0

USEPA - CLP

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Method CV

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCSW071206	7/12/06	30.0	30.0
PBW071206	7/12/06	30.0	30.0
51WC1S060706	7/12/06	3.0	30.0
51WC1S060706S	7/12/06	3.0	30.0
51WC1S060706D	7/12/06	3.0	30.0

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Instrument ID Number: TJA61E TRACE ICP Method: P

Start Date: 7/13/06 End Date: 7/13/06

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0927				X	X		X		X				X						X	X					
S	1.00	0933					X															X					
S	1.00	0938				X			X		X				X						X						
ZZZZZZ	1.00	0945																									
ZZZZZZ	1.00	0953																									
ZZZZZZ	1.00	0959																									
ZZZZZZ	1.00	1006																									
ZZZZZZ	1.00	1015																									
ZZZZZZ	1.00	1021																									
ICV1	1.00	1031				X	X		X		X				X						X	X					
ICB1	1.00	1041				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1047																									
ZZZZZZ	1.00	1100																									
ZZZZZZ	1.00	1108																									
ZZZZZZ	1.00	1114																									
ZZZZZZ	1.00	1120																									
ZZZZZZ	1.00	1127																									
CRDL1	1.00	1133				X	X		X		X				X						X	X					
ICSA-0	1.00	1139				X	X		X		X				X						X	X					
ICSAB-0	1.00	1146				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1154																									
PBW071206B	1.00	1201				X	X		X		X				X						X	X					
LCSW071206B	1.00	1207				X	X		X		X				X						X	X					
CCV1	1.00	1216				X	X		X		X				X						X	X					
CCB1	1.00	1226				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1232																									
ZZZZZZ	1.00	1238																									
51WC1S060706	1.00	1245				X	X		X		X				X						X	X					
51WC1S060706S	1.00	1251				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1259																									
ZZZZZZ	1.00	1305																									
ZZZZZZ	1.00	1312																									
ZZZZZZ	1.00	1319																									
CRDL2	1.00	1326				X	X		X		X				X						X	X					
ICSA-1	1.00	1333				X	X		X		X				X						X	X					
ICSAB-1	1.00	1339				X	X		X		X				X						X	X					
CCV2	1.00	1350				X	X		X		X				X						X	X					
CCB2	1.00	1400				X	X		X		X				X						X	X					

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Instrument ID Number: PE CVAA Method: AV

Start Date: 7/13/06 End Date: 7/13/06

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1014																X												
S0.20	1.00	1015																X												
S0.50	1.00	1016																X												
S1.0	1.00	1017																X												
S2.0	1.00	1019																X												
S4.0	1.00	1020																X												
S6.0	1.00	1021																X												
S10.0	1.00	1023																X												
ICV1	1.00	1024																X												
ICB1	1.00	1025																X												
LCSW071206	1.00	1026																X												
PBW071206	1.00	1027																X												
ZZZZZZ	1.00	1028																												
ZZZZZZ	1.00	1029																												
ZZZZZZ	1.00	1031																												
ZZZZZZ	1.00	1032																												
ZZZZZZ	1.00	1033																												
ZZZZZZ	1.00	1034																												
ZZZZZZ	1.00	1035																												
ZZZZZZ	1.00	1036																												
CCV1	1.00	1037																X												
CCB1	1.00	1038																X												
ZZZZZZ	1.00	1041																												
ZZZZZZ	1.00	1042																												
ZZZZZZ	1.00	1043																												
ZZZZZZ	1.00	1045																												
ZZZZZZ	1.00	1046																												
ZZZZZZ	1.00	1047																												
ZZZZZZ	1.00	1048																												
ZZZZZZ	1.00	1049																												
ZZZZZZ	1.00	1050																												
ZZZZZZ	1.00	1051																												
CCV2	1.00	1052																X												
CCB2	1.00	1053																X												
51WC1S060706	1.00	1054																X												
51WC1S060706S	1.00	1055																X												
~~0607023-01B~~ 51WC1S060706D 7/14/06 BLD	1.00	1056																X												
ZZZZZZ	1.00	1057																												

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0607023

Instrument ID Number: PE CVAA Method: AV

Start Date: 7/13/06 End Date: 7/13/06

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1058																										
ZZZZZZ	1.00	1100																										
ZZZZZZ	1.00	1101																										
ZZZZZZ	1.00	1102																										
ZZZZZZ	1.00	1103																										
CCV3	1.00	1104																X										
CCB3	1.00	1105																X										

Empirical Laboratories

CH2M Hill
Ignitability
Batch: Ig071306

Sample Number	Field ID	Date Sampled	Time Sampled	Date Received	Date Prepared	Date Analyzed	Time Analyzed	Dilution
PBW071306					07/13/06	07/13/06	13:40	1
LCSW071306					07/13/06	07/13/06	13:55	1
0607023-01	51WC1S060706	07/06/06	15:20	07/08/06	07/13/06	07/13/06	14:05	1
0607023-01S	51WC1S060706	07/06/06	15:20	07/08/06	07/13/06	07/13/06	14:10	1

Empirical Laboratories

CH2M Hill
pH - Laboratory
Batch: pH071206

Sample Number	Field ID	Date Sampled	Time Sampled	Date Received	Date Prepared	Date Analyzed	Time Analyzed	Dilution
0607023-01	51WC1S060706	07/06/06	15:20	07/08/06	07/12/06	07/12/06	13:40	1

Empirical Laboratories

CLIENT: CH2M Hill , Inc.
DATE RECEIVED: 07/08/06
DATE REPORTED: 07/14/06

EMPIRICAL LABORATORIES SAMPLE NUMBER					0607023-01
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE					51WC1S060706 7/6/06 3:20:00 PM
ANALYTES	REGULATORY LIMITS	REPORTING LIMITS	USEPA METHOD	UNITS	CONC
% Solids	NA	1.0	2540**	%	96
Ignitability	<140	NA	1010	°F	>158
pH- Laboratory (1)	<2/>12.5	NA	9045B	Units	9.6 @ 17.6°C

See attached page for definition of terms and qualifiers.

EMPIRICAL LABORATORIES

Betty DeVille for

D. Rick Davis
Vice President

227 French Landing Drive ▪ Suite 550 ▪ Nashville, TN 37228 ▪ Tel (615) 345-1115 ▪ Fax (615) 846-5426

ANALYTICAL REPORT NOTES, TERMS AND QUALIFIERS (INORGANIC)

Notes:

The metals and cyanide reporting limits (RLs) have been statistically determined to be no less than three standard deviations as defined in 40 CFR 136, Appendix B, Revision 1.11. All other reporting limits are referenced from the specific analytical method.

Terms:

NA Not Applicable

NR Not Requested

Qualifiers:

B The reported value is less than the practical quantitation limit (PQL, project defined) but greater than or equal to the MDL.

E The reported value is estimated due to the presence of matrix interference.

N Predigested spike recovery not within control limits.

* RPD or absolute difference for Duplicate analysis not within control limits.

** Reference Standard Methods 19th edition.

(1) pH analyzed outside USEPA specified holding time. pH must be measured immediately after sample collection.

(2) The sample pH did not meet the preservation guidelines. Therefore the pH was adjusted upon receipt.

(3) Reference Standard Methods 17th edition for the distillation method.

(4) The sample was analyzed out of the USEPA holding time.

(5) The sample was received in the laboratory out of the USEPA holding time.

(6) The shipping cooler temperature exceeded 6°C upon receipt to Empirical Laboratories.

(7) Analysis was subcontracted

227 French Landing Drive ▪ Suite 550 ▪ Nashville, TN 37228 ▪ Tel (615) 345-1115 ▪ Fax (615) 846-5426

CH2M Hill

PREPARATION BLANK

Analytes	QC Batch	Date Prepared	Units	Method Blank Conc.
Ignitability	Ig071306	7/13/06	°F	> 158

CH2M Hill

LABORATORY CONTROL SAMPLE

Analytes	QC Batch	Date Analyzed	Units	Spike Conc.	Sample Conc.	%Rec.	Specification Limits (%)
Ignitability	Ig071306	7/13/06	°F	80.8	79.53	98.4	76.8-84.7 °F

CH2M Hill

SAMPLE DUPLICATE

Analytes	Sample	Units	Sample Result	Sample Duplicate Result	RPD	Specification Limit
Ignitability	51WC1S060706	°F	> 158	> 158	0.0	20

Empirical Laboratories

Supervisor Check_____

TCLP Extraction Logbook SOP#198

Date	Analyst	Samples	Client	Matrix	TCLP/ SPLP	% Solid	Mass	Fluid	Fluid pH	Room Temp (°C)	Tumble Rate (RPM)	pH1	pH2	pH3	Vessel #	Date/Time On	Date/Time Off	Traceability Comments
6/28/06	RCL	6388.01	[redacted]	soil	TCLP	100	100.62	#1	4.89	24.0	30	7.23	1.92	5.01	H	15:49 6/28/06	08:50 6/29/06	ISA060104/133
		.01dup					100.64					7.19	1.85	4.99	X			
		.02					101.50					7.25	2.27	4.97	E			
		.03					100.74		4.96			7.00	1.91	4.97	IT			
		.04					100.11					6.72	1.91	5.21	MO			
		6394.01	[redacted]				100.54		4.96			6.58	1.82	5.24	MARY			
6/28/06	RCL	F. blk	QC	H_2O	TCLP	—	—	#1				—	—	4.97	BAR			
7/5/06	RCL	6399.01	[redacted]	sludge	TCLP	100	100.49	#1	4.89	24.0	30	8.79	1.78	5.38	Ee	1457 7/5/06	7:48 7/6/06	ISA060104/133
		.02					99.78					7.81	1.82	5.35	Jo			
		6411.01	[redacted]	soil		100	100.54		4.89	24.0		7.06	1.59	5.05	X			
		.02					100.83					6.99	1.57	5.02	TA			
		.03					100.60					6.79	1.85	5.14	E			
		6419.01				100	100.62		4.89			6.27	2.17	5.09	K6			
		02					100.51					7.79	1.64	5.09	Yy			
		03					100.73					7.34	1.67	5.04	O			
		F. blk	QC			—	—					—	—	4.94	IT			
7/5/06	RCL	6423.01	[redacted]		TCLP	100	100.49					7.76	1.64	5.00	H			
7/6/06	RCL	7001.01	[redacted]	soil	TCLP	100	100.12	#1	4.95	25.0	30	7.73	2.55	6.13	IT	17:00 7/6/06	9:15 7/7/06	ISA060104/133
		.02					100.54					7.15	2.30	5.75	Jo			
*		.02 dup					100.39					7.04	2.07	5.83	O			
		F. blk	QC	H_2O		—	—					—	—	5.01	Yy			
16		6399.01	[redacted]	sludge	SPLP	100	100.64	#1	4.24			—	—	7.05	Ee			IRLAB0D0100003
IT		.02					101.04					—	—	7.20	X			
		Fluid blk	QC	DCIS H_2O	SPLP	—	—	#1				—	—	4.63	H			
7/10/06	RCL	Fluid blk	QC	H_2O	TCLP	—	—	#2	2.89	25.0	30	—	—	3.72	X	1446 7/10/06	9:30 7/11/06	ISA060133
		7023.01	CH2M Hill	soil		100	100.64	#2				9.63	6.38	6.35	IT			

Empirical Laboratories

Supervisor Check_____ Metals Digestion Log SOP#100 Empirical Laboratories

Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
7-12-06	RB	PBW 071206A	QC	200.7/3005	100ml	25ml	H2O	A	95oC #3	
		LCSW 071206A	ISA060136							
		7008-01								
		7009-01								
		7009-01 (Dup.)								
		7009-01 [MS]								
		7009-01 [MSD]								
		7036-01								
		6421-01								
7-12-06	RB	PBW 071206B	QC	3010	50ml	50ml	TCLP	B	95.4oC #3	7-13-06 RB
		LCSW 071206B	ISA060136							
		TCLP Fluid Blank	QC		5ml					
		7001-01	[redacted]							
		7001-01 [MS]								
		7001-02								
		7001-02 (Dup.)								
		TCLP Filter Blank	QC							
		7023-01	CH2M Hill							
		7023-01 [MS]								

Comments: We Thcam 30 was used for temp check
See p.0078 for Acid Lot #'s

Spike prep: 0.05mls of ISA060097A → 50mls of Sample
0.05mls of ISA060097B →
0.0125mls of ISA060098 →
0.0125mls of ISA060099 →

000038

00000169

Empirical Laboratories

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
6367-01	[redacted]	[redacted]			3-30	96.2	-0.2	B	6/5/06	12:30	14:30	6/6/06
-01MS												
-01MSD												
FILTER BLK 062906												
10 ug/L	H2O	QC	ISA060141		1.5-30	95	-0.2	A	6/12/06	14:00	16:00	6/13/06
6.0					0.9-30							
4.0					0.6-30							
2.0					0.3-30							
1.0					0.15-30							
0.5					0.095-3							
0.2					0.03-30							
0.0			DI H2O		30							
PBW6712-1					30							
LCSW071206			ISA060605		0.3-3							
6394-01 TCL					30-30							
-01MS			ISA060605 0.3									
-01MSD			0.3									
6411-01		[redacted]										
-01MS			ISA060083 0.3									
-01MSD			0.3									
-02												
-03												
6419-01												
-01MS			ISA060605 0.3									
-01MSD			0.3									
-02												

059

000039

Reagents:

HNO3 lot# 045607 Fisher

(Water Only) H2SO4 lot# P514095 GFS

(Soil Only) HCL lot#

KMnO4:IRLAHg 060606

(Water Only) K2S2O8:IRLAHg 060607

Empirical Laboratories

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
6419-03	TCLP	[redacted]			3-3	95	0.2	A	7/12/06 CAS	1400	1600	7/13/06
7001-01												
-01MS			ISA060685 0.3									
-01MSD			↓ 0.3									
-02												
-02DUP		↓										
7023-01		CH2MHill										
-01MS			ISA060685 0.3									
-01DUP		↓										
6423-01												
-01MS			ISA060685 0.3									
-01MSD		↓	↓ 0.3									
Filt.Blk060606		QC										
Filt.Blk060706												
Filt.Blk060711		↓										
ICV	Hno	QC	ISA060685									

Reagents:
HNO3 lot# 045607
(Water Only) H2SO4 lot# P564695 GFS
(Soil Only) HCL lot#
KMnO4:IRLAHg 060706
(Water Only) K2S2O8:IRLAHg 060571

060

000040

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
6382-1-5 6423-1 6405-2 6404-1,2	9:10 7-6-06 LG	11:25 7/10/06 WK		HEEDRest BNA PCB
6405-02	9:50 7-6-6 M			VOA
6423 6422	1013 7/6/06	1040 7/6/06		1.5
7001-01 B →02	1157 7/6/06 RCh	1702 7/6/06		TCLP
7001.01→02A 6423.01	1351 7/6/06 RCh			ZHE
6399.01→02	1431 7/6/06 RCh			SPLP
6405-02	7:00 7/7/6 M	11:30 7/7/6 M		VOA
6405	09:21 7-7-06 RS	09:33 7-7-06 RS		Metals
7014-1-3	Cannot login	11:45 7/7/6 M	weight + pH	VOA
7014-03B	1:35 7/7/6 M			VOA
7022-01-11	6:35 7/10/06			FI-PRO/PAH
6399-01,02	8:33 7/10/06 RS	15:32 7/10/06 RS		CN
7023.01 A,B	9:11 7/10/06 RCh	1450 7/10/06 RCh	taken from extractns	PH, TCLP, ZHE/NON
7014 B	9:46 7/10/06	(OC Metals)		VOA
7022-3-11	10:05 7/10/6 M		weight + pH	VOA
7014-1-3	1230 7-10-06 LG	1245 7-10-06 LG		FPPO
6399	1435 7/10/06	1456 7/10/06		1.5
7014-01-03	6:00 7/11/06 MM	7:16 7/11/06 MM		BNA
7023-01	↓	↓		PCB
6226-01 6227-01-05 6236-01-04 6398-01,02	8:00 7/11/06 RS	15:45 7/11/06 RS		CN

Empirical Laboratories

ELAB of TENNESSEE, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7031, 7037	7/13/06 8	7/13/06 8		Y.S
K23-C1	7/13/06	7/13/06 14:15		Ign. Lt.

APPENDIX B

FIELD DATA SHEETS

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26282 | **PAGE** 1 **OF** 1

PROJECT NO: 112600539	**FACILITY:** AOC F / MPT	**PROJECT MANAGER** Mark Peterson	**PHONE NUMBER** 904-636-6125	**LABORATORY NAME AND CONTACT:** EMPIRICAL LABS,
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER** Dave Steffen	**PHONE NUMBER** 904-334-7260	**ADDRESS** 227 French Landing Dr. Ste 550
		CARRIER/WAYBILL NUMBER ① 8427 1834 4875 ② 8427 1834 4875		**CITY, STATE** Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2008)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: SRCRA Metals 6010(IE)	FL-PRO - TRPH	Appendix IX VOA 8260	Appendix IX 8270 BNA	COMMENTS
6/30	1120	MPT-AOC-F-SS01-02				SO					X	X	X	X	Cool to 4°C
	1140	MPT-AOC F-SS01-04									X	X	X	X	
	1200	MPT-AOC F-SS02-02									X	X	X	X	MS/MSD: SS03-04
	1220	MPT-AOC F-SS02-04									X	X	X	X	
	1240	MPT-AOC F-SS03-02									X	X	X	X	
	1300	MPT-AOC F-SS03-04									X	X	X	X	
	1300	MPT-AOC F-MS/MSD-04										X	X	X	
	1100	MPT-AOC F-Pre Rinsate				QC					X	X	X	X	
—	—	Trip Blank # 8571				QC							X		
6/30	1205	MPT AOC F Rinsate				QC					X	X	X	X	

1. RELINQUISHED BY	DATE 6/30/08	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-AOC F-SS01-02
Sample Location: SS-01
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

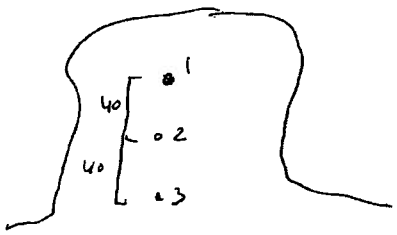
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1120	0.5 -2'	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT -AOC F- SS01-04
Sample Location: SS-01
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

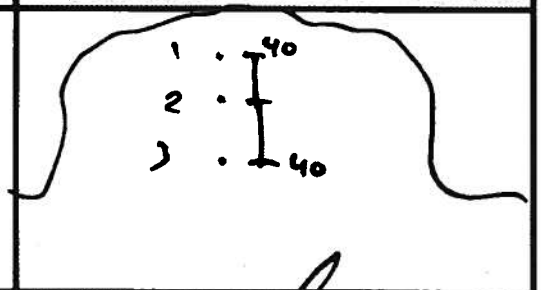
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1140	2'-4	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT -AOC F- SS02-02
Sample Location: SS-02
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

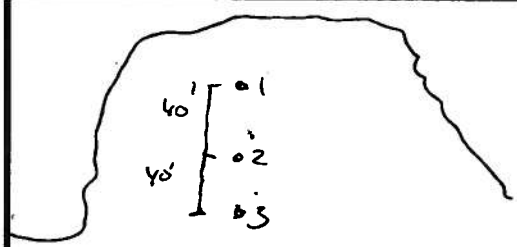
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1200	0.5" - 2'	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT -AOC F- SS01-04
Sample Location: SS-02
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

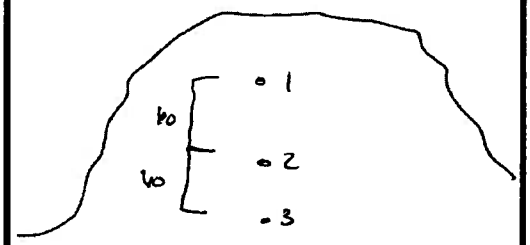
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1220	2'-4	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT -AOC F- SS03-02
Sample Location: SS-03
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

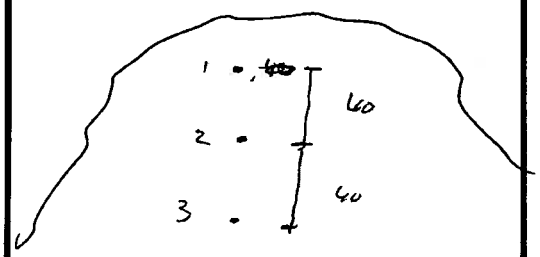
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1240	0.5' - 2'	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT -AOC F- SS03-04
Sample Location: SS-03
Sampled By: DS
C.O.C. No.: 26282

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/30/2008	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		lt brown	fine sand
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

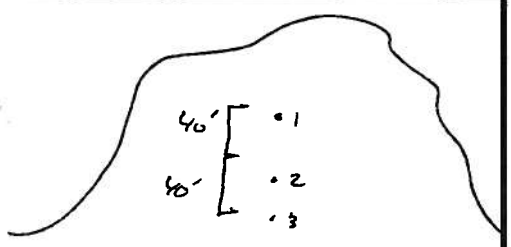
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1300	2' - 4'	lt brown	fine sand sand shells
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis		Container Requirements	Collected	LAB
8 RCRA			yes	Empirical
Appendix IX BNA	8270		yes	Empirical
Appendix IX VOC	8260		yes	Empirical
FL PRO - TRPH			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26404 | **PAGE** ___ **OF** ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00538	MPT / AOC-F	David Siefken	904-334-7260	Empirical Lab / JF Shilling
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
				621 Mainstream Dr, Suite 280
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Nashville, FL 37228

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE / YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: RCRA Metals 6010 (Appendix IX)	TRPH - FL Pro	8270 BNA (Appendix IX)	8260 VOC (Appendix IX)	COMMENTS
3/18	1040	MPT-AOC F SS20 0.5				SO	G	3			1	1	1		Cool to 4°C
3/18	1045	MPT AOC F SS20 1.0				SO	G	4					4		
3/18	1050	MPT-AOC F SS21 0.5				SO	G	3			1	1	1		
3/18	1055	MPT AOC F SS21 1.0				SO	G	4					4		
3/18	1100	MPT AOC F SS22 0.5				SO	G	3			1	1	1		
3/18	1105	MPT AOC F SS22 1.0				SO	G	4					4		
3/18	1120	MPT AOC F SS23 0.5				SO	G	3			1	1	1		
3/18	1125	MPT AOC F SS23 1.0				SO	G	4					4		
3/18	1400	Trip Blank # 5872				QC	QC	2					2		Liquid
3/18	1408	Trip Blank 6830				QC	QC	2					2		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 0831 | **PAGE** ___ **OF** ___

PROJECT NO: 112G00538	**FACILITY:** MPT / AOC F	**PROJECT MANAGER** David Siefken	**PHONE NUMBER** 904-334-7260	**LABORATORY NAME AND CONTACT:** Empirical Laboratory / J. Shilling
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS** 621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		**CITY, STATE** Nashville, TN 37229

STANDARD TAT ☒ **RUSH TAT** ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: RCRA METALS 6010 (Appendix IX)	TRPH - FL PRO	8270 (A) BNA (Appendix IX)	8260 VOC (Appendix IX)					COMMENTS
3/18	0910	MPT-AOC-F-SS14-0.5				SO	G	9	P	—	1	1							Cool to 4°C
3/18	0915	MPT AOC F SS14 1.0				SO	G	12					1						
3/18	0940	MPT AOC F-SS15-0.5				SO	G	3			1	1	1						
3/18	0945	MPT AOC F-SS15-1.0				SO		4					4						MS/MSD = AOC-F-SS14
3/18	0950	MPT AOC F SS16-0.5				SO		3			1	1	1						
3/18	0955	MPT AOC F SS16 - 1.0				SO		4					4						
3/18	1000	MPT AOC F SS17 0.5				SO		3			1	1	1						
3/18	1005	MPT AOC F SS17 1.0				SO		4					4						
3/18	1010	MPT-AOC F SS18 0.5				SO		3			1	1	1						
3/18	1015	MPT AOC F SS18 1.0				SO		4					4						
3/18	1030	MPT AOC F SS19 0.5				SO		3			1	1	1						
3/18	1035	MPT AOC F SS19 1.0				SO		4					4						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 6403 | **PAGE** ___ **OF** ___

PROJECT NO: 112600538	**FACILITY:** NAVSTA MPT / AOC-F	**PROJECT MANAGER** Mark Peterson	**PHONE NUMBER** 904 334-7260	**LABORATORY NAME AND CONTACT:** Empirical Laboratory
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER** David Siefken	**PHONE NUMBER** 904 334-7260	**ADDRESS** 621 Mainstream Dr., Suite 270
		CARRIER/WAYBILL NUMBER Fed Ex #		**CITY, STATE** Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE / YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BKGRA Metals 6010 (Appendix IX)	TRPH - FL-PRO	~~8270~~ 8270 BNA (Appendix IX)	8260 VOC (Appendix IX)					COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G					
PRESERVATIVE USED									—	—	—	(H2O4 + ice)					
3/17	1210	MPT-AOC-F-SS10-0.5				SD	G	3	1	1	1						Cool to 4°C
3/17	1215	MPT-AOC-F-SS10-1.0				SO	G	4				4					
3/17	1230	MPT AOCF-SS11-0.5				SO	G	3	1	1	1						
3/17	1235	MPT AOCF SS11 1.0				SO	G	4				4					
3/17	1250	MPT-AOCF SS12 0.5															
3/17	1255	MPT-AOCF SS12 1.0															
3/17	1310	MPT AOCF SS13 0.5															
3/17	1315	MPT AOCF SS13 1.0															
3/17	1142	MPT AOCF Rinsate2				QC			1	2	2	3					
	~~1145~~	~~MPT AOCF Rinsate 3~~ Paul AL				~~QC~~			~~1~~	~~2~~	~~2~~	~~3~~					
3/17	1500	Trip Blank #6829A				QC						1					
3/17	1530	Trip Blank #6629B				QC						1					

1. RELINQUISHED BY	DATE 3-17-09	TIME 1600	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 0836 | **PAGE** ___ **OF** ___

PROJECT NO: 112600538	**FACILITY:** Cecil / AOC-F	**PROJECT MANAGER** Mark Peterson	**PHONE NUMBER** 904-334-7260
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER** David Siefken	**PHONE NUMBER** 904 334-7260
		CARRIER/WAYBILL NUMBER Fed Ex #	

LABORATORY NAME AND CONTACT: Empirical Laboratory
ADDRESS 621 Mainstream Dr, Suite 270
CITY, STATE Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G						
									PRESERVATIVE USED	—	—	—	CHILL + H2O						
									TYPE OF ANALYSIS	8-RCRA METALS 6010 (Appendix IX)	TRPH - FL PRO	8270 BNA (Appendix IX)	VOC 8260 (Appendix IX)						COMMENTS
3/17	1020	MPT-AOCF-SS04-0.5				SO	G	3		X	X	X							Cool 6.4°C
3/17	1025	MPT-AOC-F-SS04-~~0~~1.0					G	4					4						
3/17	1040	MPT-AOC-F SS05-0.5					G	3		1	1	1							
3/17	1045	MPT-AOCF SS05-0.1					G	4					4						
3/17	1055	MPT AOC F-SS06-0.5					G	3		1	1	1							
3/17	1100	MPT AOC F-SS06-1.0					G	4					4						
3/17	1110	MPT AOC F SS07-0.5					G	3		1	1	1							
3/17	1115	MPT AOC F SS07-1.0					G	4					4						
3/17	1120	MPT AOC F-SS08-0.5					G	3		1	1	1							
3/17	1125	MPT AOC F SS08 1.0					G	4					4						
3/17	1150	MPT AOC F SS09 0.5					G	3		1	1	1							
3/17	1155	MPT AOCF SS09 1.0					G	4					4						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3.17.09	1600	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS-04-0.5'
Sample Location: SS-04
Sampled By: DS
C.O.C. No.: 0836

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1020	0-0.5	Lt. Pale Brown	med grained, quartz sand shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

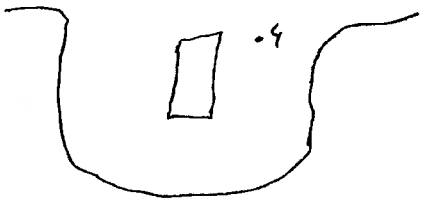
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
8 RCRA		Metals	4 oz			yes	Empirical
Appendix IX BNA		8270	4 oz			yes	Empirical
FL PRO - TRPH		TRPH	4 oz			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-AOC F-SS04 1.0
Sample Location: SS-04
Sampled By: DS
C.O.C. No.: 0836

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1025	0.5 - 1.0	pale Brown	medium grained quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

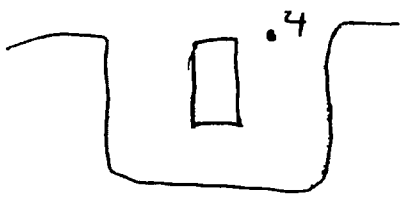
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	3 Vials			yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-AOC F-SS-05-0.5
Sample Location: SS-05
Sampled By: DS
C.O.C. No.: 0836

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1040	0-0.5	Pale brown	medium grained quartz sand & shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

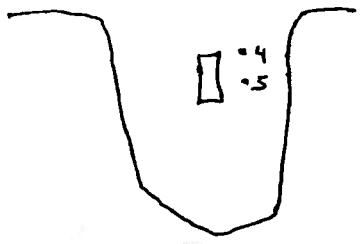
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected		LAB
8 RCRA		Metals	4 oz	yes		Empirical
Appendix IX BNA		8270	1	yes		Empirical
FL PRO - TRPH		TRPH		yes		Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 05-1.0
Sample Location: SS-05
Sampled By: DS
C.O.C. No.: 0836

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1045	0.5-1.0	pale brown	medium grained sand, quartz and shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

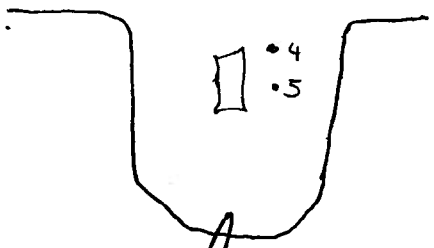
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	3 jar + Solids			yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS06.0.5
Sample Location: SS-06
Sampled By: DS
C.O.C. No.: 0836

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1055	0 - 0.5	~~medium~~ Pale Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 06-1.0
Sample Location: SS-06
Sampled By: DS
C.O.C. No.: 0836

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17 /2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	~~1655~~	0.6-1.0	Pale Brown	medium quartz sand shell hash
Method:	1100			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

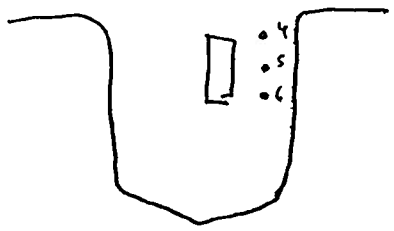
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	CH3OH + H2O (3 vials)			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS07-0.5
Sample Location: SS-07
Sampled By: DS
C.O.C. No.: 0836

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1110	0-0.5	PALE Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

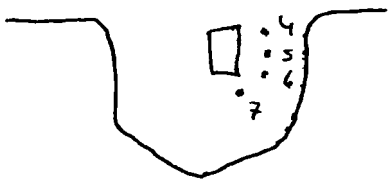
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS07. 1.0
Sample Location: SS- 07
Sampled By: DS
C.O.C. No.: 0836

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1115	0.6-1.0	Pale Brown	medium, quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

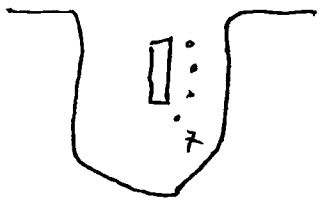
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	CH_3OH + H_2O	(3 vials)		yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 08. 0.5
Sample Location: SS- 08
Sampled By: DS
C.O.C. No.: 0836

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1120	0.0 - 0.5	Pale Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

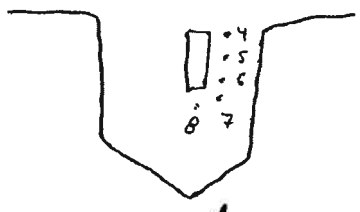
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals		yes	Empirical
Appendix IX BNA		8270		yes	Empirical
FL PRO - TRPH		TRPH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 08 - LD
Sample Location: SS-08
Sampled By: DS
C.O.C. No.: 0836

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17 /2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1125	0.6 - 1.0	Pale Brown	medium quartz sand. + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

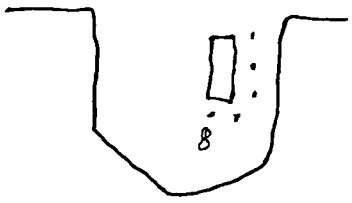
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260				yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS09-0.5
Sample Location: SS-
Sampled By: DS
C.O.C. No.:

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1150	0-0.5	Dk Brown	medium quartz sand & shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

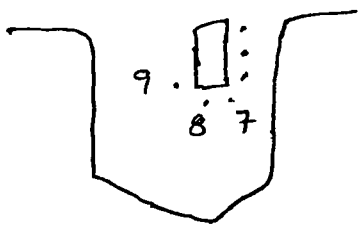
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4oz	yes	Empirical
Appendix IX BNA		8270	4oz	yes	Empirical
FL PRO - TRPH		TRPH	4oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS09-10
Sample Location: SS-09
Sampled By: DS
C.O.C. No.:

- [x] Surface Soil (SS)
- [ ] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [ ] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17 /2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1155	0.6-1.0	Pale Brown	medium Quartz sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

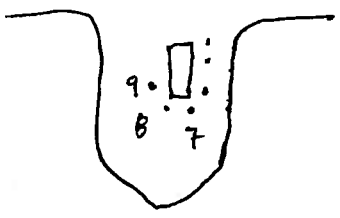
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	3 vials			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 10 - 0.5
Sample Location: SS- 10
Sampled By: DS
C.O.C. No.: 26403

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1210	0-0.5	Pale Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

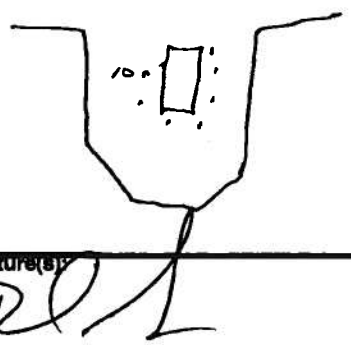
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS10.-1.0
Sample Location: SS-10
Sampled By: DS
C.O.C. No.: 26403

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3/17/2009		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1215	0.6 - 1.0	Dk Brown	medium quartz Sand *
Method:				Shell Fragments
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

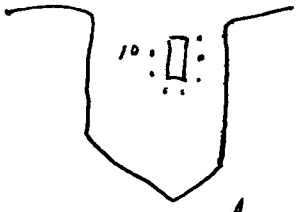
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	3 Vials + Soil moisture			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 11-0.5
Sample Location: SS- 11
Sampled By: DS
C.O.C. No.: 26403

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1230	0-0.5	Pale Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

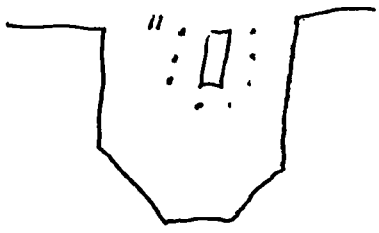
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4oz	yes	Empirical
Appendix IX BNA		8270	4oz	yes	Empirical
FL PRO - TRPH		TRPH	4oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

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SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 11-1.0
Sample Location: SS-11
Sampled By: DS
C.O.C. No.: 26403

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1235	0.6 - 1.0	Pale Brown	medium quartz sand + shell hash
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

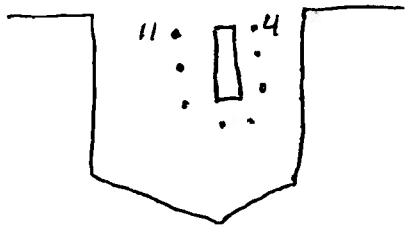
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260				yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

[/] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-AOC F-SS12-0.5
Sample Location: SS-12
Sampled By: DS
C.O.C. No.: 26403

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1250	0-0.5	Pale Brown	medium quartz Sand + Shell Fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

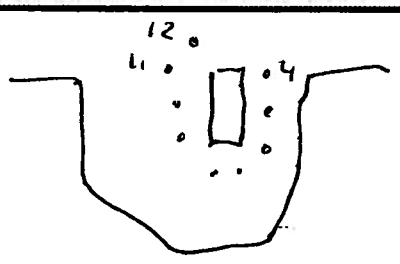
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals		yes	Empirical
Appendix IX BNA		8270		yes	Empirical
FL PRO - TRPH		TRPH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 12 - 1.0
Sample Location: SS-12
Sampled By: DS
C.O.C. No.: 26403

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1255	0.6-1.0	Pale Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

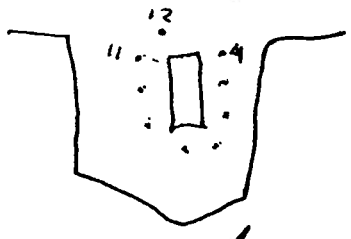
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260				yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 13. 0.5
Sample Location: SS- 13
Sampled By: DS
C.O.C. No.: 26403

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/17 /2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1310	0 - 0.5	Light Brown	medium quartz sand + shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

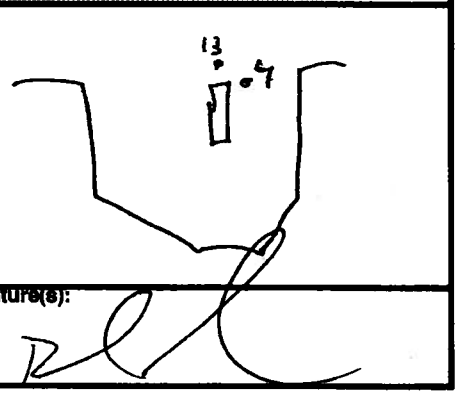
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4oz	yes	Empirical
Appendix IX BNA		8270	4oz	yes	Empirical
FL PRO - TRPH		TRPH	4oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS13.0
Sample Location: SS-13
Sampled By: DS
C.O.C. No.: 26403

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/17/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1315	0.6 - 1.0	Pale Brown	medium grained quartz sand +
Method:				Shell fragments
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

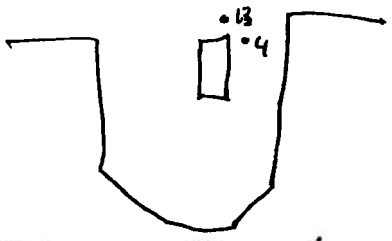
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	3 Unk			yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 14-0.5
Sample Location: SS-
Sampled By: DS
C.O.C. No.:

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0910	0.-0.5	pale brown	medium quarts sand with shell fragments
Method:			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

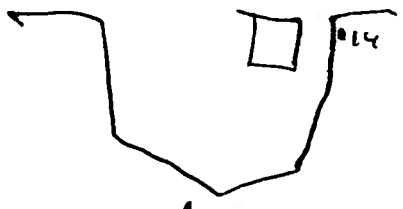
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4, 8oz	yes	Empirical
Appendix IX BNA		8270	1	yes	Empirical
FL PRO - TRPH		TRPH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD

Duplicate ID No.:

Signature(s):

MS/MSD

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 14 - 1.0
Sample Location: SS- 14
Sampled By: DS
C.O.C. No.:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0915	0.6 - 1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

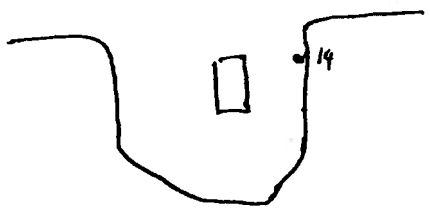
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	3 Vials	H2O+OH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD

Duplicate ID No.:

Signature(s):

MS/MSD

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 15 - 0.5
Sample Location: SS- 15
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0940	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

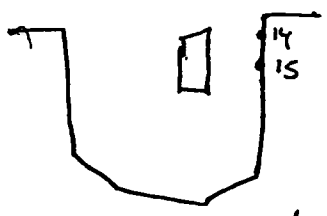
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS15-1.0-
Sample Location: SS- 15
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0945	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

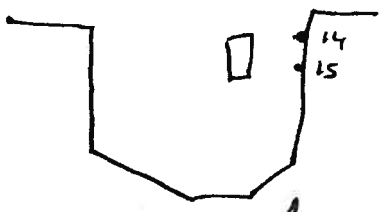
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	3 Vials	6H + H_2O		yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS16 0.5
Sample Location: SS-16
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0950	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

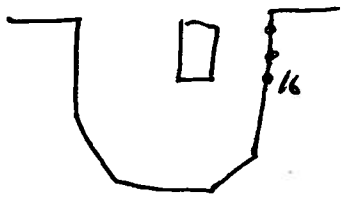
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS16.1.0
Sample Location: SS-16
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0955	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

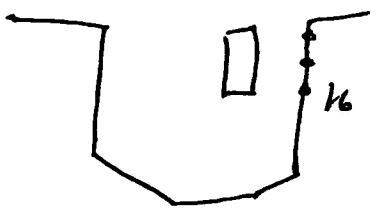
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	(3 vials OA+H2O			yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT -AOC F- SS 17. 0.5
Sample Location: SS- 17
Sampled By: DS
C.O.C. No.: 0831

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1000	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 17 1.0
Sample Location: SS-17
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1005	1-0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

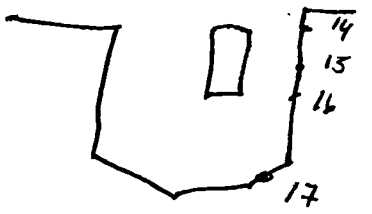
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	3 Vials			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 18 0.5
Sample Location: SS- 18
Sampled By: DS
C.O.C. No.: 0831

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other: _____
[ ] QA Sample Type: _____

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1010	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

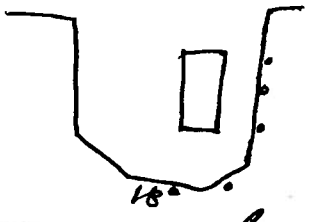
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals		yes	Empirical
Appendix IX BNA		8270		yes	Empirical
FL PRO - TRPH		TRPH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS18 1.0
Sample Location: SS- 18
Sampled By: DS
C.O.C. No.: 0831

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1015	1.0-1.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

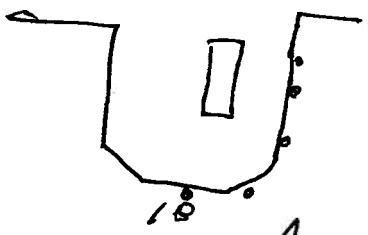
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260				yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS 0.5
Sample Location: SS-19
Sampled By: DS
C.O.C. No.: 26404

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1030	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

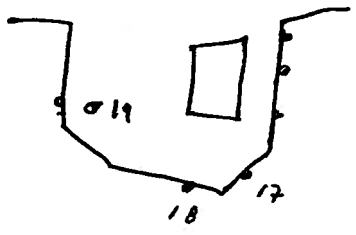
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 19 1.0
Sample Location: SS- 19
Sampled By: DS
C.O.C. No.: 26404

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1035	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

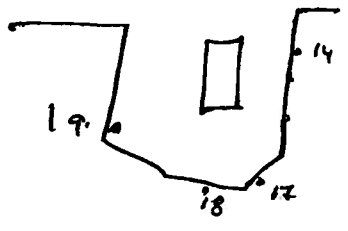
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260				yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 20 - 0.5
Sample Location: SS-20
Sampled By: DS
C.O.C. No.: 26404

[x] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1040	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

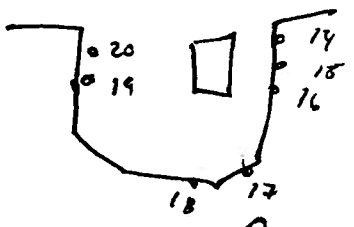
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 20, 1.0
Sample Location: SS- 20
Sampled By: DS
C.O.C. No.: 26404

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1045	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

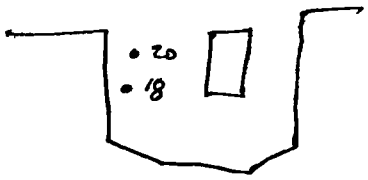
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260	3 vials	(H_2O +0#		yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: MPT-AOC F-SS21 0.5
Sample Location: SS- 21
Sampled By: DS
C.O.C. No.: 26404

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1050	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

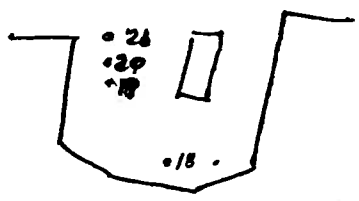
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4. oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 21-1.0
Sample Location: SS-21
Sampled By: DS
C.O.C. No.: 26404

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1055	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

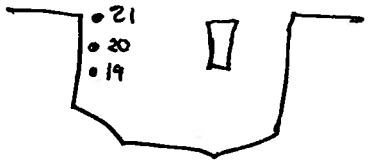
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260	3 Vials			yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 22 0.5
Sample Location: SS-22
Sampled By: DS
C.O.C. No.: 26404

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1100	0.5	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

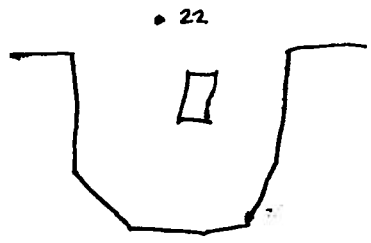
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals		yes	Empirical
Appendix IX BNA		8270		yes	Empirical
FL PRO - TRPH		TRPH		yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 22 1.0
Sample Location: SS-22
Sampled By: DS
C.O.C. No.: 26404

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1105	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

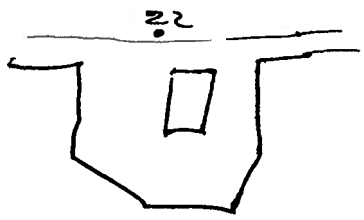
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB
Appendix IX VOC		8260				yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 1120-0.5
Sample Location: SS-23
Sampled By: DS
C.O.C. No.: 26404

[/] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1120	0.5'	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

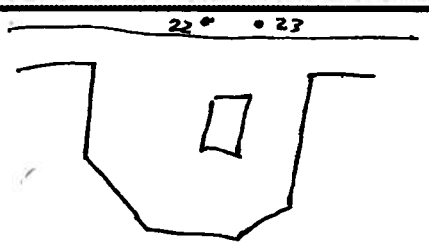
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements	Collected	LAB
8 RCRA		Metals	4 oz	yes	Empirical
Appendix IX BNA		8270	4 oz	yes	Empirical
FL PRO - TRPH		TRPH	4 oz	yes	Empirical

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: AOC - F
Project No.: 112G00538

Sample ID No.: MPT-AOC F-SS 23 1.0
Sample Location: SS- 23
Sampled By: DS
C.O.C. No.: 26404

[x] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date:	3/18/2009	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	1125	1.0	pale brown	medium quarts sand with shell fragments
Method:				
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

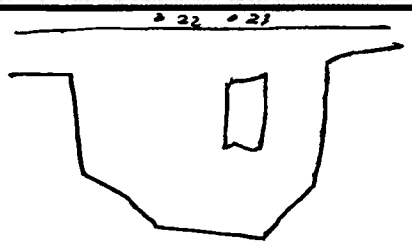
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis			Container Requirements		Collected		LAB	
Appendix IX VOC		8260				yes	Empirical	

OBSERVATIONS / NOTES:

MAP:



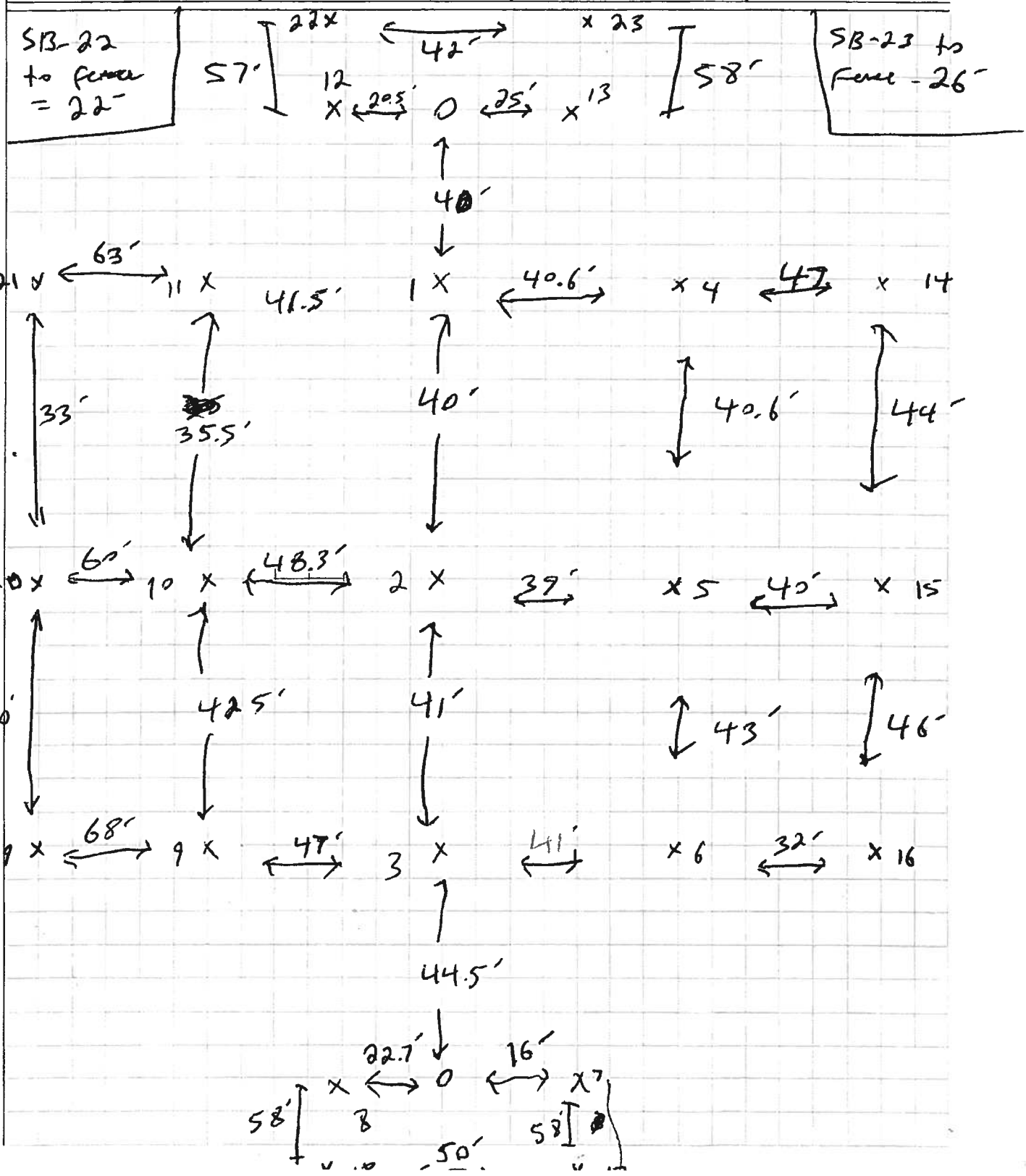
Circle if Applicable:

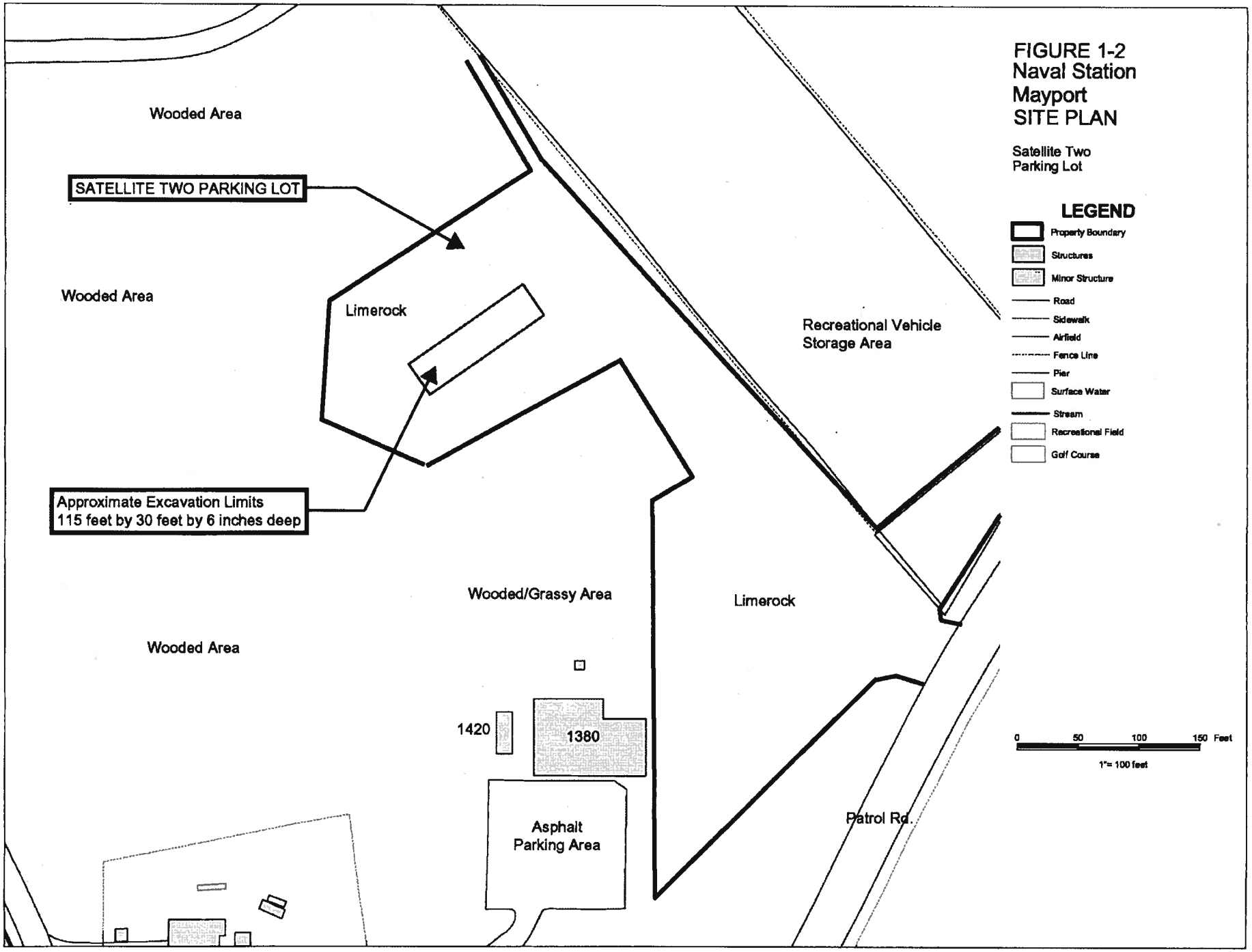
MS/MSD	Duplicate ID No.:

Signature(s):

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
SUBJECT			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE





This graphic was generated using the TINUS EGIS module

Plot date: Jun 21, 2006; c:\egis\egis_mayport_ns_s2p.apr

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Mayport	SITE LOCATION: AOV-F	
WELL NO:MW-1	SAMPLE ID:MPT-AOC-F-MW-01-2009**0401**	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (in):1 ½	TOTAL WELL DEPTH (ft): 13.1	STATIC DEPTH TO WATER (ft): 8.55	WELL CAPACITY (gal/ft): 0.13

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 2.2 Liters 13.1 − 8.55 = 4.55 × .13 = .591 5 × 3.785 = 2.2L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 1055	PURGING ENDED AT: 1119	TOTAL VOLUME PURGED (Liters): 7.2

TIME	VOLUME PURGED (L)	CUMUL. VOLUME PURGED (L)	PURGE RATE (mLpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR
1055	—	—	300								
1110	4.5	4.5	300	8.62	7.13	19.55	.805	1.44	10.73	41.3	clear
1113	.9	5.4	300	8.62	7.13	19.56	.806	1.44	8.21	37.9	clear
1116	.9	6.3	300	8.62	7.13	19.57	.806	1.44	5.25	35.4	clear
1119	.9	7.2	300	8.62	7.13	19.58	.806	1.44	2.70	33.6	clear
1123	Sample Time										

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Jeff Krone	SAMPLER(S) SIGNATURES	SAMPLING INITIATED AT: 1123	SAMPLING ENDED AT: 1135
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	SAMPLE PUMP FLOW RATE (mL per minute): 300	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
1	3	CG	40 ml	HCL	40 ml		TCL/VOC's 8260B	SM
2	3	AG	1L	none	1 L		SVOC's (8270)	APP
3	2	AG	1L	H2SO4	1L		FLPRO	APP
4	1	PE	250ml	HNO3	250ml		RCRA metals (SW6010B/7470A	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0840 | PAGE 1 OF 1

PROJECT NO: 112600538	FACILITY: MPT / AOC-F	PROJECT MANAGER David Siefken	PHONE NUMBER 904 334-7260	LABORATORY NAME AND CONTACT: EMPIRICAL LAB, LLC
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER David Siefken	PHONE NUMBER 904 334 7260	ADDRESS 621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER 8427 1834 4496 FEDEX		CITY, STATE Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								COMMENTS
PRESERVATIVE USED																	
TYPE OF ANALYSIS									8260 VOC+VOH (App IX) HCL	8270 BNA (App IX) —	8 RCRA Metals (App IX) HNO3	FL-PRO TRPH H2SO4					
3/31	1123	MPT-AOC-F-MW1	MW1			GW			3	3	1	2					Cool to 4°C
3/30	1430	MPT-AOC F TRIP BLANK	033109			QC			2								

1. RELINQUISHED BY	DATE 4/1/09	TIME 1600	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0840 | PAGE 1 OF 1

PROJECT NO: 1126 00538	FACILITY: MPT / AOC-F	PROJECT MANAGER David Siefken	PHONE NUMBER 904 334 7260	LABORATORY NAME AND CONTACT: EMPIRICAL LAB, LLC
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER David Siefken	PHONE NUMBER 904 334 7260	ADDRESS 621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER 842718344496 FEDEX		CITY, STATE Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: 8260 VOC+VOH (App IX)	8270 BNA (App IX)	8 RCRA Metals (App IX)	FL-PRO TRPH					COMMENTS
										HCL					–				
										HNO3									
										H2SO4									
3/31	1123	MPT-AOC-F-MW1	MW1			GW	G		P		3	3	1	2					Cool to 4°C
3/30	1430	MPT-AOC F TRIP BLANK	033109			QC	G		P		2								

1. RELINQUISHED BY	DATE 4/1/09	TIME 1600	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech NUS, Inc.

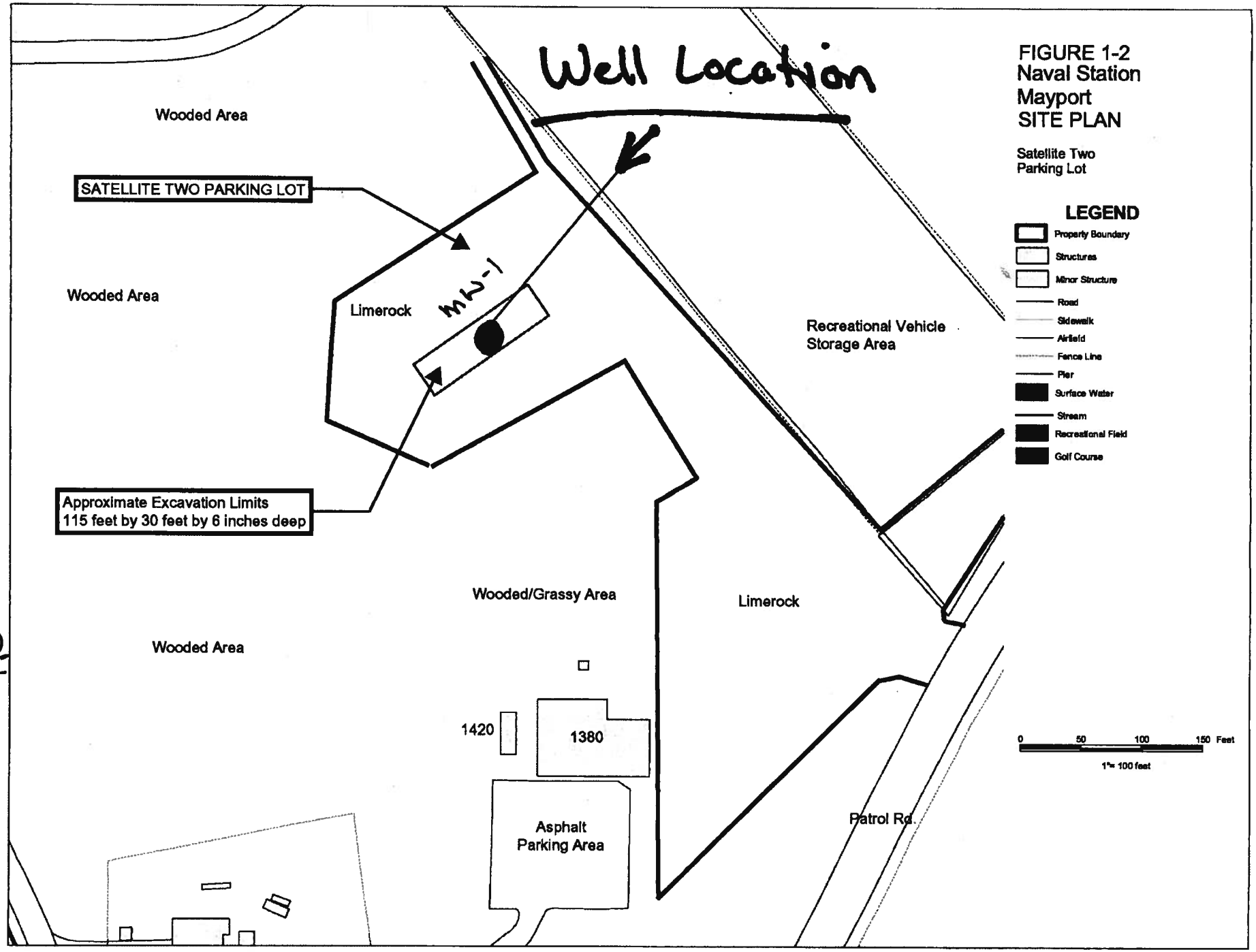
DOCUMENTATION OF FIELD CALIBRATION

PROJECT NAME : _____ INSTRUMENT NAME/MODEL: _____

SITE NAME: MPT MANUFACTURER: _____

PROJECT No.: 112g00538 SERIAL NUMBER: _____

Date of Calibration	Instrument Name and Model	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
				Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
4/1/09	YSI 556 MPS	04H19 325 AL	JK	pH 4.0		3.92	4.00		
				pH 7.0		7.07	7.00		
				pH 10.0		9.94	9.99		
				cond 1.409		1.368	1.409		
				ORP 237.5		239.6	237.5		
				D.O.		97.7	100.0		
4/1/09	micro TPW			1000		1002	1000		
				10.0		10.7	10.0		
				0.02		0.07	.02		


Well Location
FIGURE 1-2
Naval Station
Mayport
SITE PLAN
Satellite Two
Parking Lot
SATELLITE TWO PARKING LOT
Wooded Area
Wooded Area
Limerock
MW-1
Recreational Vehicle
Storage Area
Approximate Excavation Limits
115 feet by 30 feet by 6 inches deep
Wooded/Grassy Area
Limerock
Wooded Area
1420
1380
Asphalt
Parking Area
Patrol Rd.
LEGEND
Property Boundary
Structures
Minor Structure
Road
Sidewalk
Airfield
Fence Line
Pier
Surface Water
Stream
Recreational Field
Golf Course
0 50 100 150 Feet
1"= 100 feet
AOC F1
This graphic was generated using the TINUS EGIS module
Plot date: Jun 21, 2006, c:\egis\egis_mayport_ns_s2p.apr

Empirical Laboratories, LLC - SAMPLE KIT FORM

TET08_CTO050

Completed by/Date: JWS 03/09/09

Client/Job #: TTNUS/CTO050

Contact Name: Mark Peterson 904.636.6125
904.730.4669x213 mark.peterson@ttnus.com

Project Name: NSA Mayport CTO050

Method of Shipping: FedEx

Date Needed on Site: 03/13/09

Anticipated Return Date: 03/17/09 =>

Shipping Address:

Tetra Tech NUS, Inc.
8640 Phillips Highway
Suite 16
Jacksonville, FL 32256
Attn: David Siefken
Phone: 904-636-6165

Label coolers for project!

Project Notes: 10BD day TAT, Florida Flags FL GCTLs and SCTLs MUST be met!

Total # Samples/ Shipment			Bottles/ Sample	Bottle Size	Bottle Type	Preservative	Matrix	Analysis/ Method	Initial
1	2	3							
4			3	40ml	VOA Vial	HCl/4°C	WATER/ QC Water	VOC's (8260B APP IX)	
4			3	1L	Glass Amber	4°C	WATER/ QC Water	SVOC's (8270C APP IX)	
4			2	1L	Glass Amber	H2SO4/ Cool to4°C	WATER/ QC Water	FLPRO (FDEP FL-PRO)	
4			1	250ml	HDPE	HNO3/ Cool to 4°C	WATER/ QC Water	RCRA Metals(SW6010B/7470A)	
22			3	40 ml	Teracore vials	DIH2O/MeOH Cool to 4°C	soil	VOC's (8260B APP IX)	
22			1	4oz	Glass Jar	Cool to 4°C	soil	SVOC's (8270C APP IX)	
22			1	4oz	Glass Jar	Cool to 4°C	soil	FLPRO (FDEP FL-PRO)	
22			1	4oz	Glass Jar	Cool to 4°C	soil	RCRA Metals(SW6010B/7471A)	

VOC Trip Blanks Sets Needed: 2 sets (2 vials/set)	
Organic Free Water Liters Needed: 11	
Number of Coolers Required:	
Number of COCs to include: 12	

Special Instructions:
Contact Janice Shilling at 615.345.1119x256 or 615.207.9918 with questions.
10BD TAT for level IV report, summary report, EDD on 2 CDs to Tobrena Skeen.

APPENDIX C

BITUMASTIC NO. 50 MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT: BITUMASTIC 50 (0025S5NL)
Date: 12/03/99 Replaces 09/21/99
(aka BITUMASTIC NO. 50)
CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300
PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS

CHEMICAL NAME	(A)	(B)	(C)	(D)	(E)
INDENE	95-13-6	20%	10 PPM	NE	NE
COAL TAR PITCH	65996-93-2	20%	0.2 MG/M3	NE	NE
COAL TAR CREOSOTE	8001-58-9	15%	0.2 MG/M3	NE	NE
TALC	14807-96-6	10%	2MG/M3	NE	NE
CLAY	71011-27-3	10%	NE	NE	NE
COAL TAR DISTILLATE	65996-79-4	10%	100PPM	NE	NE
TOLUENE	108-88-3	5%	50 PPM	150 PPM	NE
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NE
BENZENE	71-43-2	2%	1 PPM	5PPM-15MIN	NE
NAPHTHALENE	91-20-3	2%	10 PPM	15 PPM	NE

HAZARDOUS INGREDIENTS ADDITIONAL DATA

CHEMICAL NAME	(F)	(G)
INDENE	NOT AVAILABLE	NO/NO/1
COAL TAR PITCH	NOT AVAILABLE	NO/NO/1,2
COAL TAR CREOSOTE	NOT AVAILABLE	NO/NO/1,2
TALC	NOT AVAILABLE	NO/NO
CLAY	NOT AVAILABLE	NO/NO
COAL TAR DISTILLATE	NOT AVAILABLE	NO/NO/NR/NO
TOLUENE	5.0 G/KG RAT ORAL, 14G/KG RABBIT DERMAL 8000 PPM/4HRS, RAT, INHALATION	NO/YES/1,2,3/ 1000#/U220
XYLENE	4300MG/KG RAT,ORAL 15000 PPM/4HRS RAT,INHALATION	NO/YES/1,2,3/ 1000#/U239
BENZENE	NOT AVAILABLE	YES/YES/1,2,3
NAPHTHALENE	NOT AVAILABLE	NO/YES/1

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route,LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B
HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 0, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

SECTION III - PHYSICAL DATA:

BOILING RANGE: 176F(80C)-424F(217C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 28 %. VOLATILE BY VOLUME: 39 %. PRODUCT WT/GAL: 11.1 LBS/U.S.GAL. 1.33 sp gr.

PRODUCT: BITUMASTIC 50 (0025S5NL)
Date: 12/03/99 Replaces 09/21/99

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 80 F(26C) (Setaflash) LEL 1.0 % UEL 7.1 %.
OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1C, DOT-PAINT,3,UN1263,PGIII, CANADIAN TDGA: PAINT,3,UN1263,PGIII
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.
FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation.
CONTACT: May cause eye irritation. May cause skin irritation.
NOTICE: Contains COAL TAR CREOSOTE, BENZENE, INDENE, NAPTHALENE and COAL TAR PITCH which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.
PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.
EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention.
EYE CONTACT: Flush with water for 15 minutes.
SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.
INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention.
IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning

material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.
CONDITIONS TO AVOID: Heat, sparks, and open flames.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use.
VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).
SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream.
HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.
APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.
OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages

incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144
PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

APPENDIX D

LABORATORY ANALYTICAL DATA

ORGANIC CASE NARRATIVE
Tetra Tech NUS, Inc./NSA Mayport CTO050
SDG: Mayport004

Sampled	Received	Lab ID	Client ID
03/18/09	03/19/09	0903262-01	MPT-AOCF-SS14-0.5
03/18/09	03/19/09	0903262-02	MPT-AOCF-SS14-1.0
03/18/09	03/19/09	0903262-03	MPT-AOCF-SS15-0.5
03/18/09	03/19/09	0903262-04	MPT-AOCF-SS15-1.0
03/18/09	03/19/09	0903262-05	MPT-AOCF-SS16-0.5
03/18/09	03/19/09	0903262-06	MPT-AOCF-SS16-1.0
03/18/09	03/19/09	0903262-07	MPT-AOCF-SS17-0.5
03/18/09	03/19/09	0903262-08	MPT-AOCF-SS17-1.0
03/18/09	03/19/09	0903262-09	MPT-AOCF-SS18-0.5
03/18/09	03/19/09	0903262-10	MPT-AOCF-SS18-1.0
03/18/09	03/19/09	0903262-11	MPT-AOCF-SS19-0.5
03/18/09	03/19/09	0903262-12	MPT-AOCF-SS19-1.0
03/18/09	03/19/09	0903262-13	MPT-AOCF-SS20-0.5
03/18/09	03/19/09	0903262-14	MPT-AOCF-SS20-1.0
03/18/09	03/19/09	0903262-15	MPT-AOCF-SS21-0.5
03/18/09	03/19/09	0903262-16	MPT-AOCF-SS21-1.0
03/18/09	03/19/09	0903262-17	MPT-AOCF-SS22-0.5
03/18/09	03/19/09	0903262-18	MPT-AOCF-SS22-1.0
03/18/09	03/19/09	0903262-19	MPT-AOCF-SS23-0.5
03/18/09	03/19/09	0903262-20	MPT-AOCF-SS23-1.0
03/18/09	03/19/09	0903262-21	Trip Blank #5872
03/18/09	03/19/09	0903262-22	Trip Blank #6830
04/01/09	4/2/2009	0904026-01	MPT-AOC-F-MW1
03/30/09	4/2/2009	0904026-02	MPT-AOC-F-TRIPBLANK

Volatiles

Method: The samples were analyzed by USEPA SW-846 Methods 5030B/8260B (purge and trap then capillary column GC/MS) for waters or 5035B/8260B
(purge and trap followed by capillary column GC/MS) for solids upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The continuing calibration compounds 1,2-dichloropropane, chloroform, and 1,1-dichloroethene exceeded the 20% difference with a positive bias in the continuing calibration verification analyzed 3/29/09 at 2332. Evaluating all other compounds against the 20% difference limit (including the appendix IX CCV analyzed 3/30/09 at 0010), several analytes exceeded with positive and negative biases. Analytes exceeding with a negative bias were qualified "J1" in the associated samples for a potential negative bias. Analytes detected above the quantitation limit and exceeding limits with a positive bias are qualified "J2" for a potential positive bias in the associated samples.
- One or more analytes were detected at concentrations below ½ the quantitation limits in one or more of the method blanks. Reported concentrations in the associated samples are qualified with a "B".
- In spike sample V1BLK0329ELCS, 7 of 60 recoveries were below the acceptance limits. See form 3.
- In spike sample V3BLK0405LCS, 5 of 60 recoveries exceeded the acceptance limits with a positive bias. See form 3.

- In spike samples MPT-AOC-SS14-1.0MS/MSD, 9 of 60 relative percent differences and 18 of 120 recoveries were outside the acceptance limits. See form 3. Analysis of the MSD was started 12 hours 7 minutes after the associated tuning standard.

Semivolatile Samples

Method: The samples were analyzed by USEPA SW-846 Methods 3541/8270C or 3510C/8270C (automated soxhlet or separatory funnel extraction followed by capillary column GC/MS) for soils or waters upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Recovery of the surrogate phenol-d6 was below the limit of 15% at 14% in MPT-AOC-F-MW1. All other recoveries were within limits.
- In spike sample SBLK0320BS2LCS, 1 of 65 recoveries exceeded the established limits. In spike samples SBLK0403BW1LCS/LCSD, 3 of 132 recoveries and 14 of 66 relative percent differences were outside the established limits. See form 3.
- In spike samples MPT-AOCF-SS14-0.5MS/MSD, recoveries of aniline exceeded the limit of 110% at (96%)/124% while all other recoveries and relative percent differences were within limits.

Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, separatory funnel or sonication extraction followed by capillary column GC/FID) for waters or soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as the reporting limit (RL), is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

I: The presence of an "I" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL/RL.

L: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with a "L". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

V: The presence of a "V" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

J1: The reported analyte concentration may have a low bias as the CCV exceeded the limit on the low side.

J2: The reported analyte concentration may have a high bias as the CCV exceeded the limit on the high side.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402601

Level: (low/med) LOW Date Sampled: 04/01/09 11:23

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402601

Level: (low/med) LOW Date Sampled: 04/01/09 11:23

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0		U
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0		U
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOC-F
-TRIPBLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402602

Level: (low/med) LOW Date Sampled: 03/30/09 14:30

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10	1.6	I
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0	0.11	I
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOC-F
-TRIPBLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402602

Level: (low/med) LOW Date Sampled: 03/30/09 14:30

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0	1.6	I
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0	0.33	I
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0	0.12	IV
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0	0.38	I

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V4BLK0328LCS	105	102	97	99	0
02	V4BLK0328	101	96	98	100	0
03	TRIP BLANK#	109	102	100	99	0
04	TRIP BLANK#	105	96	96	92	0
05	V3BLK0405LCS	106	103	98	104	0
06	V3BLK0405	111	104	101	103	0
07	MPT-AOC-F-TR	114	106	102	110	0
08	MPT-AOC-F-MW	110	100	102	103	0
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		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1	(DFM) = Dibromofluoromethane	(85-120)	30
SMC2	(DCE) = 1,2-Dichloroethane-d4	(80-135)	30
SMC3	(TOL) = Toluene-d8	(85-115)	30
SMC4	(BFB) = Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	159.7	160*	40-140
Acetonitrile	500.0	0.0000	1500	300*	50-150
Acrolein	250.0	0.0000	188.1	75	10-200
Acrylonitrile	250.0	0.0000	265.3	106	35-180
Allyl chloride	50.00	0.0000	61.02	122	50-150
Benzene	50.00	0.0000	46.51	93	80-120
Bromodichloromethane	50.00	0.0000	56.62	113	75-120
Bromoform	50.00	0.0000	52.57	105	70-130
Bromomethane	50.00	0.0000	38.47	77	30-145
2-Butanone (methyl ethy	100.0	0.0000	127.6	128	30-150
Carbon disulfide	50.00	0.0000	51.26	102	35-160
Carbon tetrachloride	50.00	0.0000	57.46	115	65-140
Chlorobenzene	50.00	0.0000	47.60	95	80-120
Chloroethane	50.00	0.0000	51.97	104	60-135
Chloroform	50.00	0.0000	45.54	91	65-135
Chloromethane	50.00	0.0000	51.02	102	40-125
Chloroprene	50.00	0.0000	41.35	83	50-150
Dibromochloromethane	50.00	0.0000	63.19	126	60-135
1,2-Dibromo-3-chloropro	50.00	0.0000	45.59	91	50-130
1,2-Dibromoethane	50.00	0.0000	50.75	102	80-120
Dibromomethane	50.00	0.0000	48.81	98	75-125
1,2-Dichlorobenzene	50.00	0.0000	47.20	94	70-120
1,3-Dichlorobenzene	50.00	0.0000	46.88	94	75-125
1,4-Dichlorobenzene	50.00	0.0000	47.62	95	75-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	40.27	80	50-150
Dichlorodifluoromethane	50.00	0.0000	62.30	125	30-155
1,1-Dichloroethane	50.00	0.0000	49.78	100	70-135
1,2-Dichloroethane	50.00	0.0000	51.01	102	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	49.07	98	70-130
cis-1,2-Dichloroethene	50.00	0.0000	48.34	97	70-125
trans-1,2-Dichloroethen	50.00	0.0000	47.98	96	60-140
1,2-Dichloropropane	50.00	0.0000	46.96	94	75-125
cis-1,3-Dichloropropene	50.00	0.0000	53.41	107	70-130
trans-1,3-Dichloroprope	50.00	0.0000	57.32	115	55-140
1,4-Dioxane	1000	0.0000	1026	103	50-150
Ethylbenzene	50.00	0.0000	49.82	100	75-125
Ethyl methacrylate	100.0	0.0000	100.9	101	70-135
2-Hexanone	100.0	0.0000	122.5	122	55-130
Iodomethane	50.00	0.0000	42.89	86	50-140
Isobutyl alcohol	1000	0.0000	3223	322*	50-150
Methacrylonitrile	500.0	0.0000	1011	202*	50-150
Methylene chloride	50.00	0.0000	46.95	94	55-140
Methyl methacrylate	100.0	0.0000	92.19	92	70-135
4-Methyl-2-pentanone	100.0	0.0000	116.1	116	60-135
Propionitrile	500.0	0.0000	1092	218*	50-150
Styrene	50.00	0.0000	53.20	106	65-135
1,1,1,2-Tetrachloroetha	50.00	0.0000	56.31	113	80-130
1,1,2,2-Tetrachloroetha	50.00	0.0000	48.65	97	65-130
Tetrachloroethene	55.00	0.0000	48.17	88	45-150
Toluene	50.00	0.0000	47.03	94	75-120
1,2,4-Trichlorobenzene	50.00	0.2269	57.33	114	65-135
1,1,1-Trichloroethane	50.00	0.0000	48.74	97	65-130
1,1,2-Trichloroethane	50.00	0.0000	45.81	92	75-125
Trichloroethene	50.00	0.0000	46.58	93	70-125
Trichlorofluoromethane	50.00	0.0000	55.58	111	60-145
1,2,3-Trichloropropane	50.00	0.0000	49.01	98	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	47.76	96	50-145
m,p-Xylene	100.0	0.0000	95.00	95	75-130
o-Xylene	50.00	0.0000	50.55	101	80-120
Xylene(total)	150.0	0.0000	143.5	96	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 5 out of 60 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V3BLK01 Lab Sample ID: V3BLK0405

Date Analyzed: 04/05/09 Time Analyzed: 1227

Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V3BLK0405LCS	V3BLK0405LCS	V3LCSA9	1058
02	MPT-AOC-F-TR	0904026-02	0402602	1327
03	MPT-AOC-F-MW	0904026-01	0402601	1357
04				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0405

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/09 12:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0405

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/09 12:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0		U
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0	0.23	I
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V3BFB01 BFB Injection Date: 04/05/09

Instrument ID: VOA3 BFB Injection Time: 0929

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.9
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	Greater than 50.0% of mass 95	96.7
175	5.0 - 9.0% of mass 174	7.7 (7.9)1
176	95.0 - 101.0% of mass 174	94.0 (97.2)1
177	5.0 - 9.0% of mass 176	6.7 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD100PPB	V3STD100PPB	V3CCV01	04/05/09	0959
02	V3STD100PPB	V3STD100PPB	V3CCVA9	04/05/09	1028
03	V3BLK0405LCS	V3BLK0405LCS	V3LCSA9	04/05/09	1058
04	V3BLK0405	V3BLK0405	V3BLK01	04/05/09	1227
05	MPT-AOC-F-TR	0904026-02	0402602	04/05/09	1327
06	MPT-AOC-F-MW	0904026-01	0402601	04/05/09	1357
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): V3CCV01 Date Analyzed: 04/05/09

Instrument ID: VOA3 Time Analyzed: 0959

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	939328		13.03		493437		16.53		619946		18.55	
	UPPER LIMIT	1878656		13.53		986874		17.03		1239892		19.05	
	LOWER LIMIT	469664		12.53		246719		16.03		309973		18.05	
	CLIENT SAMPLE NO.												
01	V3BLK0405LCS	1010079		13.03		503573		16.53		672946		18.55	
02	V3BLK0405	926517		13.03		454559		16.53		612495		18.55	
03	MPT-AOC-F-TR	906046		13.03		446595		16.53		625125		18.55	
04	MPT-AOC-F-MW	951489		13.03		457750		16.53		599592		18.55	
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.58	1.8		U
208-96-8	Acenaphthylene	0.44	0.92		U
98-86-2	Acetophenone	0.69	4.6		U
53-96-3	2-Acetylaminofluorene	1.8	4.6		U
92-67-1	4-Aminobiphenyl	1.8	4.6		U
62-53-3	Aniline	0.52	4.6		U
140-57-8	Aramite	0.92	4.6		U
120-12-7	Anthracene	0.71	1.8		U
56-55-3	Benzo(a)anthracene	0.84	4.6		U
205-99-2	Benzo(b)fluoranthene	0.66	4.6		U
207-08-9	Benzo(k)fluoranthene	0.46	1.8		U
191-24-2	Benzo(g,h,i)perylene	1.4	2.8		U
50-32-8	Benzo(a)pyrene	0.56	1.8		U
100-51-6	Benzyl alcohol	0.69	4.6		U
111-44-4	bis(2-Chloroethyl)ether	0.42	4.6		U
108-60-1	bis(2-Chloroisopropyl)ether	0.79	4.6		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2	4.6		U
101-55-3	4-Bromophenyl-phenylether	0.53	4.6		U
85-68-7	Butylbenzylphthalate	0.76	4.6		U
106-47-8	4-Chloroaniline	0.88	4.6		U
510-15-6	Chlorobenzilate	0.92	4.6		U
59-50-7	4-Chloro-3-methylphenol	0.54	4.6		U
91-58-7	2-Chloronaphthalene	0.54	4.6		U
95-57-8	2-Chlorophenol	0.55	4.6		U
7005-72-3	4-Chlorophenyl-phenylether	0.82	4.6		U
218-01-9	Chrysene	0.94	1.8		U
2303-16-4	Diallate	0.92	4.6		U
53-70-3	Dibenz(a,h)anthracene	1.6	4.6		U
132-64-9	Dibenzofuran	0.60	1.8		U
91-94-1	3,3'-Dichlorobenzidine	0.82	1.8		U
120-83-2	2,4-Dichlorophenol	0.41	0.92		U
87-65-0	2,6-Dichlorophenol	0.92	4.6		U
84-66-2	Diethylphthalate	0.94	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	3.7	9.2		U
60-11-7	p-(Dimethylamino)azobenzene	0.92	4.6		U
57-97-6	7,12-Dimethylbenz[a]anthrace	0.92	4.6		U
119-93-7	3,3'-Dimethylbenzidine	39	92		U
122-09-8	a,a-Dimethyl-phenethylamine	0.92	4.6		U
105-67-9	2,4-Dimethylphenol	0.66	18		U
131-11-3	Dimethylphthalate	0.68	4.6		U
84-74-2	Di-n-butylphthalate	1.2	4.6		U
99-65-0	m-Dinitrobenzene	2.8	4.6		U
534-52-1	4,6-Dinitro-2-methylphenol	0.68	18		U
51-28-5	2,4-Dinitrophenol	0.79	46		U
121-14-2	2,4-Dinitrotoluene	0.45	4.6		U
606-20-2	2,6-Dinitrotoluene	0.61	4.6		U
117-84-0	Di-n-octylphthalate	0.30	4.6		U
122-39-4	Diphenylamine	0.92	4.6		U
298-04-4	Disulfoton	2.8	4.6		U
62-50-0	Ethyl methanesulfonate	0.92	4.6		U
52-85-7	Famphur	1.8	4.6		U
206-44-0	Fluoranthene	0.65	4.6		U
86-73-7	Fluorene	0.51	4.6		U
118-74-1	Hexachlorobenzene	0.44	4.6		U
87-68-3	Hexachlorobutadiene	0.86	4.6		U
77-47-4	Hexachlorocyclopentadiene	0.82	4.6		U
67-72-1	Hexachloroethane	0.42	4.6		U
70-30-4	Hexachlorophene	23	92		U
1888-71-7	Hexachloropropene	3.7	4.6		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	4.6		U
465-73-6	Isodrin	1.8	4.6		U
78-59-1	Isophorone	0.51	4.6		U
120-58-1	Isosafrole	0.92	4.6		U
91-80-5	Methapyrilene	0.92	4.6		U
56-49-5	3-Methylcholanthrene	0.92	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	0.92	4.6		U
91-57-6	2-Methylnaphthalene	0.63	1.8		U
298-00-0	Methyl parathion	2.8	4.6		U
95-48-7	2-Methylphenol	0.77	4.6		U
108-39-4	3-Methylphenol	0.71	4.6		U
106-44-5	4-Methylphenol	0.71	4.6		U
91-20-3	Naphthalene	0.42	0.92		U
130-15-4	1,4-Naphthoquinone	0.92	4.6		U
134-32-7	1-Naphthylamine	0.92	4.6		U
91-59-8	2-Naphthylamine	0.92	4.6		U
88-74-4	2-Nitroaniline	1.1	18		U
99-09-2	3-Nitroaniline	0.97	18		U
100-01-6	4-Nitroaniline	1.9	18		U
98-95-3	Nitrobenzene	0.57	4.6		U
88-75-5	2-Nitrophenol	0.68	4.6		U
100-02-7	4-Nitrophenol	0.77	18		U
56-57-5	4-Nitroquinoline-1-oxide	0.92	4.6		U
924-16-3	N-Nitrosodi-n-butylamine	0.92	4.6		U
55-18-5	N-Nitrosodiethylamine	0.92	4.6		U
62-75-9	N-Nitroso-di-methylamine	0.83	4.6		U
86-30-6	N-Nitrosodiphenylamine (1)	0.42	4.6		U
621-64-7	N-Nitroso-di-n-propylamine	0.83	4.6		U
10595-95-6	N-Nitrosomethylethylamine	3.7	4.6		U
59-89-2	N-Nitrosomorpholine	0.92	4.6		U
100-75-4	N-Nitrosopiperidine	0.92	4.6		U
930-55-2	N-Nitrosopyrrolidine	0.92	4.6		U
99-55-8	5-Nitro-o-toluidine	1.8	4.6		U
56-38-2	Parathion	2.8	4.6		U
608-93-5	Pentachlorobenzene	3.7	9.2		U
76-01-7	Pentachloroethane	3.7	9.2		U
82-68-8	Pentachloronitrobenzene	3.7	9.2		U
87-86-5	Pentachlorophenol	0.92	9.2		U
62-44-2	Phenacetin	0.92	4.6		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.71	1.8		U
108-95-2	Phenol	0.42	4.6		U
106-50-3	p-Phenylenediamine	0.92	4.6		U
298-02-2	Phorate	3.7	4.6		U
109-06-8	2-Picoline	6.5	6.5		U
23950-58-5	Pronamide	0.92	4.6		U
129-00-0	Pyrene	0.60	1.8		U
110-86-1	Pyridine	0.98	18		U
94-59-7	Safrole	0.92	4.6		U
3689-24-5	Sulfotepp	3.7	4.6		U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.8	4.6		U
58-90-2	2,3,4,6-Tetrachlorophenol	0.92	4.6		U
297-97-2	Thionazin	3.7	4.6		U
95-53-4	o-Toluidine	3.7	9.2		U
120-82-1	1,2,4-Trichlorobenzene	0.33	0.92		U
95-95-4	2,4,5-Trichlorophenol	0.46	0.92		U
88-06-2	2,4,6-Trichlorophenol	0.68	1.8		U
126-68-1	O,O,O-Triethylphosphorothioa	2.8	4.6		U
99-35-4	sym-Trinitrobenzene	2.8	4.6		U

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SBLK0403BW1	29	19	68	71	96	93			0
02	SBLK0403BW1L	31	21	74	78	96	85			0
03	SBLK0403BW1L	21	15	53	62	90	88			0
04	MPT-AOC-F-MW	21	14*	57	58	88	74			1
05										
06										
07										
08										
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	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (2FP) = 2-Fluorophenol	(15-110)	100
S2 (PHL) = Phenol-d6	(15-110)	100
S3 (NBZ) = Nitrobenzene-d5	(30-110)	50
S4 (FBP) = 2-Fluorobiphenyl	(35-110)	50
S5 (TBP) = 2,4,6-Tribromophenol	(45-125)	100
S6 (TPH) = Terphenyl-d14	(55-125)	50

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	50.00	0.0000	48.66	97	45-110
Acenaphthylene	50.00	0.0000	57.39	115*	50-105
Acetophenone	50.00	0.0000	35.36	71	50-110
Aniline	50.00	0.0000	22.66	45	10-110
Anthracene	50.00	0.0000	49.29	98	55-110
Benzo(a)anthracene	50.00	0.0000	51.45	103	55-110
Benzo(b)fluoranthene	50.00	0.0000	50.26	100	45-120
Benzo(k)fluoranthene	50.00	0.0000	49.57	99	45-125
Benzo(g,h,i)perylene	50.00	0.0000	60.04	120	40-125
Benzo(a)pyrene	50.00	0.0000	56.34	113*	55-110
Benzyl alcohol	50.00	0.0000	32.86	66	30-110
bis(2-Chloroethyl)ether	50.00	0.0000	30.96	62	35-110
bis(2-Chloroisopropyl)e	50.00	0.0000	36.89	74	25-130
Bis(2-ethylhexyl)phthal	50.00	0.0000	45.13	90	40-125
4-Bromophenyl-phenyleth	50.00	0.0000	33.41	67	50-115
Butylbenzylphthalate	50.00	0.0000	46.42	93	45-115
4-Chloroaniline	50.00	0.0000	38.10	76	15-110
4-Chloro-3-methylphenol	50.00	0.0000	43.44	87	45-110
2-Chloronaphthalene	50.00	0.0000	45.69	91	50-105
2-Chlorophenol	50.00	0.0000	38.84	78	35-105
4-Chlorophenyl-phenylet	50.00	0.0000	47.20	94	50-110
Chrysene	50.00	0.0000	53.14	106	55-110
Dibenz(a,h)anthracene	50.00	0.0000	59.62	119	40-125
Dibenzofuran	50.00	0.0000	45.96	92	55-105
3,3'-Dichlorobenzidine	50.00	0.0000	48.78	98	20-110
2,4-Dichlorophenol	50.00	0.0000	41.52	83	50-105
Diethylphthalate	50.00	0.0000	44.57	89	40-120
2,4-Dimethylphenol	50.00	0.0000	48.32	97	30-110

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50.00	0.0000	43.28	86	25-125
Di-n-butylphthalate	50.00	0.0000	42.15	84	55-115
4,6-Dinitro-2-methylphe	50.00	0.0000	47.20	94	40-130
2,4-Dinitrophenol	50.00	0.0000	53.85	108	15-140
2,4-Dinitrotoluene	50.00	0.0000	46.34	93	50-120
2,6-Dinitrotoluene	50.00	0.0000	46.24	92	50-115
Di-n-octylphthalate	50.00	0.0000	39.85	80	35-135
Fluoranthene	50.00	0.0000	47.85	96	55-115
Fluorene	50.00	0.0000	47.78	96	50-110
Hexachlorobenzene	50.00	0.0000	45.69	91	50-110
Hexachlorobutadiene	50.00	0.0000	38.71	77	25-105
Hexachlorocyclopentadie	50.00	0.0000	54.86	110	10-110
Hexachloroethane	50.00	0.0000	30.65	61	30- 95
Indeno(1,2,3-cd)pyrene	50.00	0.0000	61.93	124	45-125
Isophorone	50.00	0.0000	42.50	85	50-110
2-Methylnaphthalene	50.00	0.0000	37.95	76	45-105
2-Methylphenol	50.00	0.0000	31.90	64	40-110
4-Methylphenol	50.00	0.0000	28.47	57	30-110
Naphthalene	50.00	0.0000	45.98	92	40-100
2-Nitroaniline	50.00	0.0000	55.25	110	50-115
3-Nitroaniline	50.00	0.0000	45.80	92	20-125
4-Nitroaniline	50.00	0.0000	49.43	99	35-120
Nitrobenzene	50.00	0.0000	40.72	81	45-110
2-Nitrophenol	50.00	0.0000	38.86	78	40-115
4-Nitrophenol	50.00	0.0000	16.87	34	0-125
N-Nitroso-di-methylamin	50.00	0.0000	16.40	33	25-110
N-Nitrosodiphenylamine	50.00	0.0000	40.34	81	50-110
N-Nitroso-di-n-prop.(1)	50.00	0.0000	42.39	85	35-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Pentachlorophenol	50.00	0.0000	53.10	106	40-115
Phenanthrene	50.00	0.0000	46.28	92	50-115
Phenol	50.00	0.0000	11.90	24	0-115
Pyrene	50.00	0.0000	49.83	100	50-130
Pyridine	50.00	0.0000	4.902	10	0-110
1,2,4,5-Tetrachlorobenz	50.00	0.0000	40.67	81	50-125
2,3,4,6-Tetrachlorophen	50.00	0.0000	60.21	120	50-125
1,2,4-Trichlorobenzene	50.00	0.0000	33.52	67	35-105
2,4,5-Trichlorophenol	50.00	0.0000	50.53	101	50-110
2,4,6-Trichlorophenol	50.00	0.0000	47.97	96	50-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	40.07	80	19	30	45-110
Acenaphthylene	50.00	47.02	94	20	30	50-105
Acetophenone	50.00	26.93	54	27	30	50-110
Aniline	50.00	18.98	38	18	30	10-110
Anthracene	50.00	46.16	92	6	30	55-110
Benzo(a)anthracene	50.00	48.04	96	7	30	55-110
Benzo(b)fluoranthene	50.00	48.04	96	4	30	45-120
Benzo(k)fluoranthene	50.00	47.75	96	4	30	45-125
Benzo(g,h,i)perylene	50.00	59.84	120	0	30	40-125
Benzo(a)pyrene	50.00	51.61	103	9	30	55-110
Benzyl alcohol	50.00	22.68	45	37*	30	30-110
bis(2-Chloroethyl)ether	50.00	23.61	47	27	30	35-110
bis(2-Chloroisopropyl)e	50.00	27.61	55	29	30	25-130
Bis(2-ethylhexyl)phthal	50.00	46.36	93	3	30	40-125
4-Bromophenyl-phenyleth	50.00	32.68	65	2	30	50-115
Butylbenzylphthalate	50.00	47.84	96	3	30	45-115
4-Chloroaniline	50.00	27.20	54	33*	30	15-110
4-Chloro-3-methylphenol	50.00	35.30	71	21	30	45-110
2-Chloronaphthalene	50.00	34.40	69	28	30	50-105
2-Chlorophenol	50.00	26.50	53	38*	30	35-105
4-Chlorophenyl-phenylet	50.00	40.35	81	16	30	50-110
Chrysene	50.00	47.51	95	11	30	55-110
Dibenz(a,h)anthracene	50.00	60.31	121	1	30	40-125
Dibenzofuran	50.00	40.86	82	12	30	55-105
3,3'-Dichlorobenzidine	50.00	42.73	85	13	30	20-110
2,4-Dichlorophenol	50.00	29.31	59	34*	30	50-105
Diethylphthalate	50.00	42.49	85	5	30	40-120
2,4-Dimethylphenol	50.00	37.11	74	26	30	30-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50.00	37.86	76	13	30	25-125
Di-n-butylphthalate	50.00	41.04	82	3	30	55-115
4,6-Dinitro-2-methylphe	50.00	44.29	88	6	30	40-130
2,4-Dinitrophenol	50.00	50.47	101	6	30	15-140
2,4-Dinitrotoluene	50.00	43.69	87	6	30	50-120
2,6-Dinitrotoluene	50.00	40.51	81	13	30	50-115
Di-n-octylphthalate	50.00	39.00	78	2	30	35-135
Fluoranthene	50.00	46.17	92	4	30	55-115
Fluorene	50.00	42.38	85	12	30	50-110
Hexachlorobenzene	50.00	45.26	90	1	30	50-110
Hexachlorobutadiene	50.00	26.00	52	39*	30	25-105
Hexachlorocyclopentadie	50.00	39.12	78	33*	30	10-110
Hexachloroethane	50.00	24.20	48	24	30	30- 95
Indeno(1,2,3-cd)pyrene	50.00	62.10	124	0	30	45-125
Isophorone	50.00	30.71	61	32*	30	50-110
2-Methylnaphthalene	50.00	29.76	60	24	30	45-105
2-Methylphenol	50.00	22.34	45	35*	30	40-110
4-Methylphenol	50.00	20.80	42	31*	30	30-110
Naphthalene	50.00	29.58	59	43*	30	40-100
2-Nitroaniline	50.00	47.50	95	15	30	50-115
3-Nitroaniline	50.00	41.13	82	11	30	20-125
4-Nitroaniline	50.00	43.80	88	12	30	35-120
Nitrobenzene	50.00	28.45	57	35*	30	45-110
2-Nitrophenol	50.00	27.27	54	35*	30	40-115
4-Nitrophenol	50.00	20.03	40	17	30	0-125
N-Nitroso-di-methylamin	50.00	12.10	24*	30	30	25-110
N-Nitrosodiphenylamine	50.00	39.62	79	2	30	50-110
N-Nitroso-di-n-prop.(1)	50.00	29.90	60	34*	30	35-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pentachlorophenol	50.00	51.37	103	3	30	40-115
Phenanthrene	50.00	46.43	93	0	30	50-115
Phenol	50.00	8.245	16	36*	30	0-115
Pyrene	50.00	51.03	102	2	30	50-130
Pyridine	50.00	4.604	9	6	30	0-110
1,2,4,5-Tetrachlorobenz	50.00	30.84	62	27	30	50-125
2,3,4,6-Tetrachlorophen	50.00	52.48	105	14	30	50-125
1,2,4-Trichlorobenzene	50.00	24.81	50	30	30	35-105
2,4,5-Trichlorophenol	50.00	42.63	85	17	30	50-110
2,4,6-Trichlorophenol	50.00	40.19	80	18	30	50-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 14 out of 66 outside limits
Spike Recovery: 3 out of 132 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: S1BW0403 Lab Sample ID: SBLK0403BW1

Instrument ID: BNA1 Date Extracted: 04/03/09

Matrix: (soil/water) WATER Date Analyzed: 04/06/09

Level: (low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1139

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0403BW1L	SBLK0403BW1LCS	S1LW0403	04/06/09
02	SBLK0403BW1L	SBLK0403BW1LCS	S1DW0403	04/06/09
03	MPT-AOC-F-MW	0904026-01	0402601	04/06/09
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.63	2.0		U
208-96-8	Acenaphthylene	0.47	1.0		U
98-86-2	Acetophenone	0.75	5.0		U
53-96-3	2-Acetylaminofluorene	2.0	5.0		U
92-67-1	4-Aminobiphenyl	2.0	5.0		U
62-53-3	Aniline	0.56	5.0		U
140-57-8	Aramite	1.0	5.0		U
120-12-7	Anthracene	0.77	2.0		U
56-55-3	Benzo(a)anthracene	0.91	5.0		U
205-99-2	Benzo(b)fluoranthene	0.71	5.0		U
207-08-9	Benzo(k)fluoranthene	0.50	2.0		U
191-24-2	Benzo(g,h,i)perylene	1.5	3.0		U
50-32-8	Benzo(a)pyrene	0.60	2.0		U
100-51-6	Benzyl alcohol	0.75	5.0		U
111-44-4	bis(2-Chloroethyl)ether	0.45	5.0		U
108-60-1	bis(2-Chloroisopropyl)ether	0.85	5.0		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	5.0		U
101-55-3	4-Bromophenyl-phenylether	0.57	5.0		U
85-68-7	Butylbenzylphthalate	0.82	5.0		U
106-47-8	4-Chloroaniline	0.95	5.0		U
510-15-6	Chlorobenzilate	1.0	5.0		U
59-50-7	4-Chloro-3-methylphenol	0.58	5.0		U
91-58-7	2-Chloronaphthalene	0.58	5.0		U
95-57-8	2-Chlorophenol	0.59	5.0		U
7005-72-3	4-Chlorophenyl-phenylether	0.89	5.0		U
218-01-9	Chrysene	1.0	2.0		U
2303-16-4	Diallate	1.0	5.0		U
53-70-3	Dibenz(a,h)anthracene	1.7	5.0		U
132-64-9	Dibenzofuran	0.65	2.0		U
91-94-1	3,3'-Dichlorobenzidine	0.89	2.0		U
120-83-2	2,4-Dichlorophenol	0.44	1.0		U
87-65-0	2,6-Dichlorophenol	1.0	5.0		U
84-66-2	Diethylphthalate	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	4.0	10		U
60-11-7	p-(Dimethylamino)azobenzene	1.0	5.0		U
57-97-6	7,12-Dimethylbenz[a]anthrace	1.0	5.0		U
119-93-7	3,3'-Dimethylbenzidine	42	100		U
122-09-8	a,a-Dimethyl-phenethylamine	1.0	5.0		U
105-67-9	2,4-Dimethylphenol	0.71	20		U
131-11-3	Dimethylphthalate	0.74	5.0		U
84-74-2	Di-n-butylphthalate	1.3	5.0		U
99-65-0	m-Dinitrobenzene	3.0	5.0		U
534-52-1	4,6-Dinitro-2-methylphenol	0.74	20		U
51-28-5	2,4-Dinitrophenol	0.85	50		U
121-14-2	2,4-Dinitrotoluene	0.49	5.0		U
606-20-2	2,6-Dinitrotoluene	0.66	5.0		U
117-84-0	Di-n-octylphthalate	0.33	5.0		U
122-39-4	Diphenylamine	1.0	5.0		U
298-04-4	Disulfoton	3.0	5.0		U
62-50-0	Ethyl methanesulfonate	1.0	5.0		U
52-85-7	Famphur	2.0	5.0		U
206-44-0	Fluoranthene	0.70	5.0		U
86-73-7	Fluorene	0.55	5.0		U
118-74-1	Hexachlorobenzene	0.47	5.0		U
87-68-3	Hexachlorobutadiene	0.93	5.0		U
77-47-4	Hexachlorocyclopentadiene	0.89	5.0		U
67-72-1	Hexachloroethane	0.46	5.0		U
70-30-4	Hexachlorophene	25	100		U
1888-71-7	Hexachloropropene	4.0	5.0		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	5.0		U
465-73-6	Isodrin	2.0	5.0		U
78-59-1	Isophorone	0.55	5.0		U
120-58-1	Isosafrole	1.0	5.0		U
91-80-5	Methapyrilene	1.0	5.0		U
56-49-5	3-Methylcholanthrene	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	1.0	5.0		U
91-57-6	2-Methylnaphthalene	0.68	2.0		U
298-00-0	Methyl parathion	3.0	5.0		U
95-48-7	2-Methylphenol	0.83	5.0		U
108-39-4	3-Methylphenol	0.77	5.0		U
106-44-5	4-Methylphenol	0.77	5.0		U
91-20-3	Naphthalene	0.45	1.0		U
130-15-4	1,4-Naphthoquinone	1.0	5.0		U
134-32-7	1-Naphthylamine	1.0	5.0		U
91-59-8	2-Naphthylamine	1.0	5.0		U
88-74-4	2-Nitroaniline	1.2	20		U
99-09-2	3-Nitroaniline	1.0	20		U
100-01-6	4-Nitroaniline	2.0	20		U
98-95-3	Nitrobenzene	0.62	5.0		U
88-75-5	2-Nitrophenol	0.74	5.0		U
100-02-7	4-Nitrophenol	0.83	20		U
56-57-5	4-Nitroquinoline-1-oxide	1.0	5.0		U
924-16-3	N-Nitrosodi-n-butylamine	1.0	5.0		U
55-18-5	N-Nitrosodiethylamine	1.0	5.0		U
62-75-9	N-Nitroso-di-methylamine	0.90	5.0		U
86-30-6	N-Nitrosodiphenylamine (1)	0.46	5.0		U
621-64-7	N-Nitroso-di-n-propylamine	0.90	5.0		U
10595-95-6	N-Nitrosomethylethylamine	4.0	5.0		U
59-89-2	N-Nitrosomorpholine	1.0	5.0		U
100-75-4	N-Nitrosopiperidine	1.0	5.0		U
930-55-2	N-Nitrosopyrrolidine	1.0	5.0		U
99-55-8	5-Nitro-o-toluidine	2.0	5.0		U
56-38-2	Parathion	3.0	5.0		U
608-93-5	Pentachlorobenzene	4.0	10		U
76-01-7	Pentachloroethane	4.0	10		U
82-68-8	Pentachloronitrobenzene	4.0	10		U
87-86-5	Pentachlorophenol	1.0	10		U
62-44-2	Phenacetin	1.0	5.0		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.77	2.0		U
108-95-2	Phenol	0.46	5.0		U
106-50-3	p-Phenylenediamine	1.0	5.0		U
298-02-2	Phorate	4.0	5.0		U
109-06-8	2-Picoline	7.0	7.0		U
23950-58-5	Pronamide	1.0	5.0		U
129-00-0	Pyrene	0.65	2.0		U
110-86-1	Pyridine	1.1	20		U
94-59-7	Safrole	1.0	5.0		U
3689-24-5	Sulfotepp	4.0	5.0		U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.0	5.0		U
58-90-2	2,3,4,6-Tetrachlorophenol	1.0	5.0		U
297-97-2	Thionazin	4.0	5.0		U
95-53-4	o-Toluidine	4.0	10		U
120-82-1	1,2,4-Trichlorobenzene	0.36	1.0		U
95-95-4	2,4,5-Trichlorophenol	0.50	1.0		U
88-06-2	2,4,6-Trichlorophenol	0.73	2.0		U
126-68-1	O,O,O-Triethylphosphorothioa	3.0	5.0		U
99-35-4	sym-Trinitrobenzene	3.0	5.0		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 013F1301

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/13/09 20:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
PRO-8-40------	Petroleum Range	0.16	0.46		U

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Column(1): ZB-5MS ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	FBP %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0406	95	96					0
02	FW1BLK0406LC	99	102					0
03	FW1BLK0406LC	102	104					0
04	MPT-AOC-F-MW	77	85					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	EL QC LIMITS	SPIKE CONC (mg/L)
S1 = Ortho-Terphenyl	(30-140)	0.050
S2 (FBP) = 2-Fluorobiphenyl	(50-150)	0.050

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix Spike - Client Sample No.: FW1BLK0406

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.0000	1.654	52	50-140

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	3.200	2.168	68	27	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0406

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Lab Sample ID: FW1BLK0406 Lab File ID: 010F1001

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 04/13/09 Date Analyzed (2):

Time Analyzed (1): 1859 Time Analyzed (2):

Instrument ID (1): GCFID2 Instrument ID (2):

Column (1): ZB-5MS ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0406LC	FW1BLK0406LCS	04/13/09	
02	FW1BLK0406LC	FW1BLK0406LCSD	04/13/09	
03	MPT-AOC-F-MW	0904026-01	04/13/09	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0406

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 010F1001

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/13/09 18:59

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.50		U

FORM I PRO

INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport004
Work Order # 0903262, 0904026
March/April, 2009

Empirical Laboratories ID	Client ID
0903262-01	MPT-AOCF-SS14-0.5
0903262-03	MPT-AOCF-SS15-0.5
0903262-05	MPT-AOCF-SS16-0.5
0903262-07	MPT-AOCF-SS17-0.5
0903262-09	MPT-AOCF-SS18-0.5
0903262-11	MPT-AOCF-SS19-0.5
0903262-13	MPT-AOCF-SS20-0.5
0903262-15	MPT-AOCF-SS21-0.5
0903262-17	MPT-AOCF-SS22-0.5
0903262-19	MPT-AOCF-SS23-0.5
0904026-01	MPT-AOC-F-MW1

I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Betty DeVille
Inorganic Lab Manager

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

The samples were digested for ICAP metals by USEPA SW846 Method 3050B for soils and 3005A for waters and analyzed by method 6010B. Method 7471A was used to digest and analyze soil mercury and method 7470A was used for water samples. Standard Methods method 2540B was used to analyze percent solids. Note: The "I" flag indicates that the analyte result is between the laboratory reporting limit and the laboratory MDL. All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport004
Work Order # 0903262, 0904026
March/April, 2009

IV. PREPARATION

All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

V. ANALYSIS:

A. Calibration: All calibration criteria were met.

B. Blanks: All blank criteria were met.

C. Spikes: All matrix spikes quality control criteria were met.

D. Duplicates: All duplicate quality control criteria were met.

E. Samples: All sample analysis proceeded normally.

F. Laboratory Control Samples: All percent recovery quality control criteria were met.

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: WATER Lab Sample ID: 0904026-01

Level (low/med): LOW Date Sampled: 04/01/09

% Solids: 0.0 Date Received: 04/02/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	1.0	10.0		U		P
7440-38-2	Arsenic	3.0	10.0		U		P
7440-39-3	Barium	5.0	40.0	12.8	I		P
7440-43-9	Cadmium	1.0	5.0		U		P
7440-47-3	Chromium	2.0	10.0		U		P
7439-92-1	Lead	1.5	3.0		U		P
7782-49-2	Selenium	3.0	5.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7470A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: WATER Lab Sample ID: 0904026-01

Level (low/med): LOW Date Sampled: 04/01/09

% Solids: 0.0 Date Received: 04/02/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.080	0.20		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Lead	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Mercury	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	AV
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.0	U							P
Barium			5.0	U							P
Cadmium			1.0	U							P
Chromium			2.0	U							P
Lead			1.5	U							P
Selenium			3.0	U							P
Silver			1.0	U							P

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOC-F-MW1S

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.8666		0.0800	U	2.00	93.3		AV

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOC-F-MW1SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.7857		0.0800	U	2.00	89.3		AV

Comments:

USEPA - CLP

6

DUPLICATES

SAMPLE NO.
MPT-AOC-F-MW1SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		1.8666		1.7857		4.4		AV

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	250.0	233.50	93.4						
Barium	2000.0	2048.20	102.4						
Cadmium	125.0	120.80	96.6						
Chromium	200.0	190.14	95.1						
Lead	250.0	235.36	94.1						
Mercury	2.00	1.86	93.0						
Selenium	250.0	229.49	91.8						
Silver	250.0	239.22	95.7						

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Method: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
PBW041309A	04/13/09	50.0	50.0
LCSW041309A	04/13/09	50.0	50.0
MPT-AOC-F-MW1	04/13/09	50.0	50.0

13

PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Method: CV

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCSW041309B	04/13/09	30.0	30.0
PBW041309B	04/13/09	30.0	30.0
MPT-AOC-F-MW1	04/13/09	30.0	30.0
MPT-AOC-F-MW1S	04/13/09	30.0	30.0
MPT-AOC-F-MW1SD	04/13/09	30.0	30.0

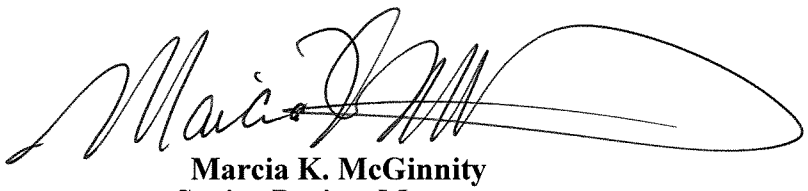
Analytical Report

Main Data Package – Organics

Tetra Tech NUS, Inc.

SDG #Mayport003

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

April 27, 2009
Revised May 7, 2009
by Christine Gramada

THIS DOCUMENT MEETS NELAC STANDARDS

NELAC Certification #TN473

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SDG #Mayport003

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ORGANIC CASE NARRATIVE
Tetra Tech NUS, Inc./NSA Mayport CTO050
SDG: Mayport003

Sampled	Received	Lab ID	Client ID
03/17/09	03/18/09	0903251-01	MPT-AOCF-SS04-0.5
03/17/09	03/18/09	0903251-02	MPT-AOCF-SS04-1.0
03/17/09	03/18/09	0903251-03	MPT-AOCF-SS05-0.5
03/17/09	03/18/09	0903251-04	MPT-AOCF-SS05-1.0
03/17/09	03/18/09	0903251-05	MPT-AOCF-SS06-0.5
03/17/09	03/18/09	0903251-06	MPT-AOCF-SS06-1.0
03/17/09	03/18/09	0903251-07	MPT-AOCF-SS07-0.5
03/17/09	03/18/09	0903251-08	MPT-AOCF-SS07-1.0
03/17/09	03/18/09	0903251-09	MPT-AOCF-SS08-0.5
03/17/09	03/18/09	0903251-10	MPT-AOCF-SS08-1.0
03/17/09	03/18/09	0903251-11	MPT-AOCF-SS09-0.5
03/17/09	03/18/09	0903251-12	MPT-AOCF-SS09-1.0
03/17/09	03/18/09	0903251-13	MPT-AOCF-SS10-0.5
03/17/09	03/18/09	0903251-14	MPT-AOCF-SS10-1.0
03/17/09	03/18/09	0903251-15	MPT-AOCF-SS11-0.5
03/17/09	03/18/09	0903251-16	MPT-AOCF-SS11-1.0
03/17/09	03/18/09	0903251-17	MPT-AOCF-SS12-0.5
03/17/09	03/18/09	0903251-18	MPT-AOCF-SS12-1.0
03/17/09	03/18/09	0903251-19	MPT-AOCF-SS13-0.5
03/17/09	03/18/09	0903251-20	MPT-AOCF-SS13-1.0
03/17/09	03/18/09	0903251-21	MPT-AOCF Rinsate
03/17/09	03/18/09	0903251-22	Trip Blank #6829A
03/17/09	03/18/09	0903251-23	Trip Blank #6829B

Volatiles

Method: The samples were analyzed by USEPA SW-846 Methods 5030B/8260B (purge and trap then capillary column GC/MS) for waters or 5035B/8260B
(purge and trap followed by capillary column GC/MS) for solids upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The continuing calibration compounds vinyl chloride, 1,2-dichloropropane, ethylbenzene, chloroform, and 1,1-dichloroethene exceeded the 20% difference with a positive bias in the continuing calibration verification analyzed 3/29/09 at 1245. Evaluating all other compounds against the 20% difference limit, there were several analytes exceeded with a negative bias. These were flagged as "J1" in the associated samples.
- Method blank V1BLK0329 had a reported concentration of methylene chloride.
- In spike sample V4BLK0328LCS, recoveries of acrolein and allyl chloride exceeded the respective limits of 200% and 50% at 215% and 43%, respectively. All other recoveries and relative percent differences were within limits.
- In spike samples V1BLK0329LCS/LCSD, there were 36 out of 120 recoveries and 1 out of 60 RPDs outside limits.
- The internal standards chlorobenzene-d5 and 1,4-dichlorobenzene-d4 in sample MPT-AOCF-SS10-1.0 were recovered below 50% of that in the associated CCV at 48.9% and 45.5%.

Semivolatile Samples

Method: The samples were analyzed by USEPA SW-846 Methods 3541/8270C or 3510C/8270C (automated soxhlet or separatory funnel extraction followed by capillary column GC/MS) for soils or waters upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Method blank S1BLK0323BW1 had a reported concentration of bis)2-ethylhexyl)phthalate.
- Recovery of the surrogate phenol-d6 in MPT-AOCF-Rinsate was below the limit of 15% at 12%.
- In spike sample SBLK0320BS2LCS, 1 of 65 recoveries were outside the established limits. In spike sample SBLK0323BW1LCS, 2 of 66 recoveries were outside the established limits. See form 3.
- Sample MPT-AOCF-SS10-0.5 was analyzed outside the 12 hr tune.

Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, separatory funnel or sonication extraction followed by capillary column GC/FID) for waters or soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Randy D. Ward
Quality Assurance Officer

ANALYTICAL REPORT TERMS AND QUALIFIERS (FLORIDA)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL/RL: The estimated quantitation limit (EQL)/reporting limit (RL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. ELAB defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

I: The presence of an "I" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL/RL.

L: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with a "L". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

V: The presence of a "V" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

J1: The reported analyte concentration may have a low bias as the CCV exceeded the limit on the low side.

J2: The reported analyte concentration may have a high bias as the CCV exceeded the limit on the high side.

J3: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious.

J4: The presence of a "J4" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0836 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00538	Cecil / AOC-F	Mark Peterson	904-334-7260	Empirical Laboratory
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		David Siefken	904 334-7260	621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed-Ex #		Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2009)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									PRESERVATIVE USED									COMMENTS
									G	G	G	G						-	-	-	CH_3OH + H_2O							0903251
									TYPE OF ANALYSIS																		
									8-RCRA METALS 6010 (Appendix IX)	TRPH - FL PRO	8270 BNA (Appendix IX)	VOC 8260 (Appendix IX)																
3/17	1020	MPT-AOCF-SS04-0.5				SO	G	3	X	X	X																Cool to 4°C -01
3/17	1025	MPT-AOC-F-SS04-~~0.5~~1.0					G	4				4															-02
3/17	1040	MPT-AOC-F SS05-0.5					G	3	1	1	1																-03
3/17	1045	MPT-AOCF SS05-0.1					G	4				4															-04
3/17	1055	MPT-AOCF-SS06-0.5					G	3	1	1	1																-05
3/17	1100	MPT AOCF SS06-1.0					G	4				4															-06
3/17	1110	MPT AOCF SS07-0.5					G	3	1	1	1																-07
3/17	1115	MPT AOCF SS07-1.0					G	4				4															-08
3/17	1120	MPT AOCF-SS08-0.5					G	3	1	1	1																-09
3/17	1125	MPT AOCF SS08 1.0					G	4				4															-10
3/17	1150	MPT AOCF SS09 0.5					G	3	1	1	1																-11
3/17	1155	MPT AOCF SS09 1.0					G	4				4															-12

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3.17.09	1600	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 3/18/09	TIME 09:00

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. **CHAIN OF CUSTODY** | **NUMBER** 26403 | **PAGE** ___ **OF** ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112600538	NAUSTA MPT / AOC-F	Mark Peterson	904 334-7260	Empirical Laboratory
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
		David Siefken	904 334-7260	621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		Fed Ex #		Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2009)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BRCRA Metals 6010 (Appendix IX)	TRPH - FL-PRO	8270 BNA (Appendix IX)	8260 VOC (Appendix IX)	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED					COMMENTS
													G	G	G	G			0903251
													—	—	—	(H2SO4 + H2O)			
3/17	1210	MPT-AOC-F-SS10-0.5				SO	G	3	1	1	1								Cool to 4°C - 13
3/17	1215	MPT.AOC-F.SS10-1.0				SO	G	4				4							-14
3/17	1230	MPT AOCF-SS11-0.5				SO	G	3	1	1	1								-15
3/17	1235	MPT AOCF SS11 1.0				SO	G	4				4							-16
3/17	1250	MPT-AOCF SS12 0.5																	-17
3/17	1255	MPT.AOCF SS12 1.0																	-18
3/17	1310	MPT AOCF SS13 0.5																	-19
3/17	1315	MPT AOCF SS13 1.0																	-20
3/17	1142	MPT AOCF Rinsate 2				QC			1	2	2	3							-21
	~~1243~~	~~MPT AOCF Rinsate 3~~ Dave				~~QC~~			~~1~~	~~2~~	~~2~~	~~3~~							
3/17	1500	Trip Blank #6829A				QC						1							-22
3/17	1530	Trip Blank #6829B				QC						1							-23

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3-17-09	1600	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	3/18/09	09:00

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903251 Number of Coolers: 1 of 2

Client: Tetra Tech NUS Project: CTO-050

Date/Time Received: **03/18/09 09:00** Date cooler(s) opened: **03/18/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4864

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/17/09 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 2-1°C

Dates samples were logged-in: **03/18/09**

9. Initial this form to acknowledge login of sample(s): (Name): Will Schwab (Initial): WS
10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A
11. Did all bottles arrive unbroken? ..... (Yes) No N/A
12. Was all required bottle label information complete? ..... (Yes) No N/A
13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A
14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A
15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A
16. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A
17. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: 2 of 2

Client: Tetra Tech NUS Project: _____

Date/Time Received: **03/18/09 09:00** Date cooler(s) opened: **03/18/09**

Opened By (print): **WILLIAM SCHWAB** (signature): _____

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4327

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/17/09 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 4.9c

Dates samples were logged-in: **03/18/09**

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
17. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

Sample Delivery Group Assignment Form

Matrix: Water / Soil.
QC LEVEL: Level III/EDD
Analyt. Due: 3/27/2009
Report Due: 4/1/2009 10BD TAT

Client: TetraTech NUS, Inc.
Project Name: NAS Mayport CTO050
SDG #: Mayport_003

Sample Type/count	Date Sampled	Date Received	Work Order	Client ID	VOA 8260B	SVOC 8270C	PRO	Metals 6010B
1	3/17/09 0:00	03/18/09	0903251-01	MPT-AOCF-SS04-0.5	X	X	X	X
2	3/17/09 0:00	03/18/09	0903251-02	MPT-AOCF-SS04-1.0	X			
3	3/17/09 0:00	03/18/09	0903251-03	MPT-AOCF-SS05-0.5	X	X	X	X
4	3/17/09 0:00	03/18/09	0903251-04	MPT-AOCF-SS05-1.0	X			
5	3/17/09 0:00	03/18/09	0903251-05	MPT-AOCF-SS06-0.5	X	X	X	X
6	3/17/09 0:00	03/18/09	0903251-06	MPT-AOCF-SS06-1.0	X			
7	3/17/09 0:00	03/18/09	0903251-07	MPT-AOCF-SS07-0.5	X	X	X	X
8	3/17/09 0:00	03/18/09	0903251-08	MPT-AOCF-SS07-1.0	X			
9	3/17/09 0:00	03/18/09	0903251-09	MPT-AOCF-SS08-0.5	X	X	X	X
10	3/17/09 0:00	03/18/09	0903251-10	MPT-AOCF-SS08-1.0	X			
11	3/17/09 0:00	03/18/09	0903251-11	MPT-AOCF-SS09-0.5	X	X	X	X
12	3/17/09 0:00	03/18/09	0903251-12	MPT-AOCF-SS09-1.0	X			
13	3/17/09 0:00	03/18/09	0903251-13	MPT-AOCF-SS10-0.5	X	X	X	X
14	3/17/09 0:00	03/18/09	0903251-14	MPT-AOCF-SS10-1.0	X			
15	3/17/09 0:00	03/18/09	0903251-15	MPT-AOCF-SS11-0.5	X	X	X	X
16	3/17/09 0:00	03/18/09	0903251-16	MPT-AOCF-SS11-1.0	X			
17	3/17/09 0:00	03/18/09	0903251-17	MPT-AOCF-SS12-0.5	X	X	X	X
18	3/17/09 0:00	03/18/09	0903251-18	MPT-AOCF-SS12-1.0	X			
19	3/17/09 0:00	03/18/09	0903251-19	MPT-AOCF-SS13-0.5	X	X	X	X
20	3/17/09 0:00	03/18/09	0903251-20	MPT-AOCF-SS13-1.0	X			
21	3/17/09 0:00	03/18/09	0903251-21	MPT-AOCF Rinsate	X	X	X	X
22	3/17/09 0:00	03/18/09	0903251-22	Trip Blank #6829A	X			
23	3/17/09 0:00	03/18/09	0903251-23	Trip Blank #6829B	X			

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS04-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325102A

Level: (low/med) LOW Date Sampled: 03/17/09 10:25

% Moisture: not dec. 4 Date Analyzed: 03/29/09 15:58

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	10	6.6	I
75-05-8	Acetonitrile	5.2	26		UJ1
107-02-8	Acrolein	5.4	10		U
107-13-1	Acrylonitrile	1.4	10		UJ1
107-05-1	Allyl chloride	0.52	5.2		UJ1
71-43-2	Benzene	0.49	2.1	0.93	I
75-27-4	Bromodichloromethane	0.31	2.1		U
75-25-2	Bromoform	1.0	2.1		UJ1
74-83-9	Bromomethane	0.75	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.4	5.2		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.91	2.1		U
108-90-7	Chlorobenzene	0.35	2.1		U
75-00-3	Chloroethane	1.1	2.1		U
67-66-3	Chloroform	0.57	2.1		U
74-87-3	Chloromethane	0.54	2.1		U
126-99-8	Chloroprene	0.52	5.2		UJ1
124-48-1	Dibromochloromethane	0.35	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.45	2.1		UJ1
74-95-3	Dibromomethane	0.43	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.38	2.1		U
541-73-1	1,3-Dichlorobenzene	0.87	2.1		U
106-46-7	1,4-Dichlorobenzene	0.57	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.3	26		UJ1
75-71-8	Dichlorodifluoromethane	1.1	2.1		U
75-34-3	1,1-Dichloroethane	0.56	2.1		U
107-06-2	1,2-Dichloroethane	0.48	2.1		U
75-35-4	1,1-Dichloroethene	1.2	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.1	2.1		U
78-87-5	1,2-Dichloropropane	0.48	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.52	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.33	2.1		U
123-91-1	1,4-Dioxane	5.2	52		UJ1
100-41-4	Ethylbenzene	0.78	2.1	1.5	I
97-63-2	Ethyl methacrylate	0.27	5.2		UJ1
591-78-6	2-Hexanone	2.4	5.2		U
74-88-4	Iodomethane	0.86	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS04-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325102A

Level: (low/med) LOW Date Sampled: 03/17/09 10:25

% Moisture: not dec. 4 Date Analyzed: 03/29/09 15:58

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.2	52		UJ1
126-98-7	Methacrylonitrile	5.2	26		UJ1
75-09-2	Methylene chloride	0.64	2.1	0.66	I
80-62-6	Methyl methacrylate	0.47	5.2		U
108-10-1	4-Methyl-2-pentanone	0.60	5.2		U
107-12-0	Propionitrile	5.2	26		UJ1
100-42-5	Styrene	0.36	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.33	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.89	2.1	1.0	I
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.94	2.1		U
79-00-5	1,1,2-Trichloroethane	0.36	2.1		UJ1
79-01-6	Trichloroethene	0.88	2.1		U
75-69-4	Trichlorofluoromethane	0.99	2.1		U
96-18-4	1,2,3-Trichloropropane	0.73	2.1		U
75-01-4	Vinyl chloride	1.1	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-04

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325104A

Level: (low/med) LOW Date Sampled: 03/17/09 10:45

% Moisture: not dec. 4 Date Analyzed: 03/29/09 16:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11		U
75-05-8	Acetonitrile	5.3	26		UJ1
107-02-8	Acrolein	5.5	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.53	5.3		UJ1
71-43-2	Benzene	0.50	2.1		U
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		UJ1
74-83-9	Bromomethane	0.76	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.3		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.94	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.55	2.1		U
126-99-8	Chloroprene	0.53	5.3		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.46	2.1		UJ1
74-95-3	Dibromomethane	0.44	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.89	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.5	26		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.57	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.53	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	5.3	53		UJ1
100-41-4	Ethylbenzene	0.80	2.1		U
97-63-2	Ethyl methacrylate	0.28	5.3		UJ1
591-78-6	2-Hexanone	2.4	5.3		U
74-88-4	Iodomethane	0.88	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-04

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325104A

Level: (low/med) LOW Date Sampled: 03/17/09 10:45

% Moisture: not dec. 4 Date Analyzed: 03/29/09 16:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.3	53		UJ1
126-98-7	Methacrylonitrile	5.3	26		UJ1
75-09-2	Methylene chloride	0.66	2.1		U
80-62-6	Methyl methacrylate	0.48	5.3		U
108-10-1	4-Methyl-2-pentanone	0.62	5.3		U
107-12-0	Propionitrile	5.3	26		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.91	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.96	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		UJ1
79-01-6	Trichloroethene	0.90	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.74	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.74	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS06-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-06

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0325106A

Level: (low/med) LOW Date Sampled: 03/17/09 11:00

% Moisture: not dec. 4 Date Analyzed: 03/29/09 17:15

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.2	11		U
75-05-8	Acetonitrile	5.4	27		UJ1
107-02-8	Acrolein	5.6	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.54	5.4		UJ1
71-43-2	Benzene	0.51	2.2		U
75-27-4	Bromodichloromethane	0.32	2.2		U
75-25-2	Bromoform	1.1	2.2		UJ1
74-83-9	Bromomethane	0.78	2.2		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.4		U
75-15-0	Carbon disulfide	1.4	2.2		U
56-23-5	Carbon tetrachloride	0.96	2.2		U
108-90-7	Chlorobenzene	0.37	2.2		U
75-00-3	Chloroethane	1.2	2.2		U
67-66-3	Chloroform	0.60	2.2		U
74-87-3	Chloromethane	0.56	2.2		U
126-99-8	Chloroprene	0.54	5.4		UJ1
124-48-1	Dibromochloromethane	0.37	2.2		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.2		UJ1
106-93-4	1,2-Dibromoethane	0.47	2.2		UJ1
74-95-3	Dibromomethane	0.44	2.2		UJ1
95-50-1	1,2-Dichlorobenzene	0.40	2.2		U
541-73-1	1,3-Dichlorobenzene	0.91	2.2		U
106-46-7	1,4-Dichlorobenzene	0.60	2.2		U
110-57-6	trans-1,4-Dichloro-2-butene	8.7	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.2		U
75-34-3	1,1-Dichloroethane	0.59	2.2		U
107-06-2	1,2-Dichloroethane	0.50	2.2		U
75-35-4	1,1-Dichloroethene	1.3	2.2		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.2		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.2		U
78-87-5	1,2-Dichloropropane	0.50	2.2		U
10061-01-5	cis-1,3-Dichloropropene	0.54	2.2		U
10061-02-6	trans-1,3-Dichloropropene	0.35	2.2		U
123-91-1	1,4-Dioxane	5.4	54		UJ1
100-41-4	Ethylbenzene	0.81	2.2		U
97-63-2	Ethyl methacrylate	0.28	5.4		UJ1
591-78-6	2-Hexanone	2.5	5.4		U
74-88-4	Iodomethane	0.90	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS06-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-06

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0325106A

Level: (low/med) LOW Date Sampled: 03/17/09 11:00

% Moisture: not dec. 4 Date Analyzed: 03/29/09 17:15

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	RL	CONC	UG/KG Q
78-83-1	Isobutyl alcohol	5.4	54		UJ1
126-98-7	Methacrylonitrile	5.4	27		UJ1
75-09-2	Methylene chloride	0.67	2.2		U
80-62-6	Methyl methacrylate	0.49	5.4		U
108-10-1	4-Methyl-2-pentanone	0.63	5.4		U
107-12-0	Propionitrile	5.4	27		UJ1
100-42-5	Styrene	0.38	2.2		U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	2.2		U
79-34-5	1,1,2,2-Tetrachloroethane	0.47	2.2		U
127-18-4	Tetrachloroethene	1.0	2.2		U
108-88-3	Toluene	0.93	2.2		U
120-82-1	1,2,4-Trichlorobenzene	0.20	2.2		U
71-55-6	1,1,1-Trichloroethane	0.98	2.2		U
79-00-5	1,1,2-Trichloroethane	0.38	2.2		UJ1
79-01-6	Trichloroethene	0.92	2.2		U
75-69-4	Trichlorofluoromethane	1.0	2.2		U
96-18-4	1,2,3-Trichloropropane	0.76	2.2		U
75-01-4	Vinyl chloride	1.2	2.2		U
136777-61-2	m,p-Xylene	1.6	4.3		U
1330-20-7	Xylene(total)	0.76	5.4		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-08

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0325108A

Level: (low/med) LOW Date Sampled: 03/17/09 11:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 17:53

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.2	11		U
75-05-8	Acetonitrile	5.5	28		UJ1
107-02-8	Acrolein	5.7	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.55	5.5		UJ1
71-43-2	Benzene	0.52	2.2		U
75-27-4	Bromodichloromethane	0.33	2.2		U
75-25-2	Bromoform	1.1	2.2		UJ1
74-83-9	Bromomethane	0.80	2.2		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.5		U
75-15-0	Carbon disulfide	1.4	2.2		U
56-23-5	Carbon tetrachloride	0.97	2.2		U
108-90-7	Chlorobenzene	0.38	2.2		U
75-00-3	Chloroethane	1.2	2.2		U
67-66-3	Chloroform	0.61	2.2		U
74-87-3	Chloromethane	0.57	2.2		U
126-99-8	Chloroprene	0.55	5.5		UJ1
124-48-1	Dibromochloromethane	0.38	2.2		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.2		UJ1
106-93-4	1,2-Dibromoethane	0.48	2.2		UJ1
74-95-3	Dibromomethane	0.45	2.2		UJ1
95-50-1	1,2-Dichlorobenzene	0.41	2.2		U
541-73-1	1,3-Dichlorobenzene	0.93	2.2		U
106-46-7	1,4-Dichlorobenzene	0.61	2.2		U
110-57-6	trans-1,4-Dichloro-2-butene	8.8	28		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.2		U
75-34-3	1,1-Dichloroethane	0.60	2.2		U
107-06-2	1,2-Dichloroethane	0.51	2.2		U
75-35-4	1,1-Dichloroethene	1.3	2.2		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.2		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.2		U
78-87-5	1,2-Dichloropropane	0.51	2.2		U
10061-01-5	cis-1,3-Dichloropropene	0.55	2.2		U
10061-02-6	trans-1,3-Dichloropropene	0.35	2.2		U
123-91-1	1,4-Dioxane	5.5	55		UJ1
100-41-4	Ethylbenzene	0.83	2.2		U
97-63-2	Ethyl methacrylate	0.29	5.5		UJ1
591-78-6	2-Hexanone	2.5	5.5		U
74-88-4	Iodomethane	0.92	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-08

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0325108A

Level: (low/med) LOW Date Sampled: 03/17/09 11:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 17:53

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.5	55		UJ1
126-98-7	Methacrylonitrile	5.5	28		UJ1
75-09-2	Methylene chloride	0.68	2.2		U
80-62-6	Methyl methacrylate	0.50	5.5		U
108-10-1	4-Methyl-2-pentanone	0.64	5.5		U
107-12-0	Propionitrile	5.5	28		UJ1
100-42-5	Styrene	0.39	2.2		U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	2.2		U
79-34-5	1,1,2,2-Tetrachloroethane	0.48	2.2		U
127-18-4	Tetrachloroethene	1.1	2.2		U
108-88-3	Toluene	0.95	2.2		U
120-82-1	1,2,4-Trichlorobenzene	0.20	2.2		U
71-55-6	1,1,1-Trichloroethane	0.99	2.2		U
79-00-5	1,1,2-Trichloroethane	0.39	2.2		UJ1
79-01-6	Trichloroethene	0.94	2.2		U
75-69-4	Trichlorofluoromethane	1.0	2.2		U
96-18-4	1,2,3-Trichloropropane	0.77	2.2		U
75-01-4	Vinyl chloride	1.2	2.2		U
136777-61-2	m,p-Xylene	1.6	4.4		U
1330-20-7	Xylene(total)	0.77	5.5		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-10

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325110A

Level: (low/med) LOW Date Sampled: 03/17/09 11:25

% Moisture: not dec. 4 Date Analyzed: 03/29/09 18:32

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11		U
75-05-8	Acetonitrile	5.3	27		UJ1
107-02-8	Acrolein	5.5	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.53	5.3		UJ1
71-43-2	Benzene	0.50	2.1		U
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		UJ1
74-83-9	Bromomethane	0.77	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.3		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.94	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.55	2.1		U
126-99-8	Chloroprene	0.53	5.3		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.46	2.1		UJ1
74-95-3	Dibromomethane	0.44	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.89	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.5	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.57	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.53	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	5.3	53		UJ1
100-41-4	Ethylbenzene	0.80	2.1		U
97-63-2	Ethyl methacrylate	0.28	5.3		UJ1
591-78-6	2-Hexanone	2.4	5.3		U
74-88-4	Iodomethane	0.88	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-10

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325110A

Level: (low/med) LOW Date Sampled: 03/17/09 11:25

% Moisture: not dec. 4 Date Analyzed: 03/29/09 18:32

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.3	53		UJ1
126-98-7	Methacrylonitrile	5.3	27		UJ1
75-09-2	Methylene chloride	0.66	2.1		U
80-62-6	Methyl methacrylate	0.48	5.3		U
108-10-1	4-Methyl-2-pentanone	0.62	5.3		U
107-12-0	Propionitrile	5.3	27		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.92	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.96	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		UJ1
79-01-6	Trichloroethene	0.90	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.74	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.74	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325112A

Level: (low/med) LOW Date Sampled: 03/17/09 11:55

% Moisture: not dec. 7 Date Analyzed: 03/29/09 19:11

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11		U
75-05-8	Acetonitrile	5.3	27		UJ1
107-02-8	Acrolein	5.6	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.53	5.3		UJ1
71-43-2	Benzene	0.50	2.1		U
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		UJ1
74-83-9	Bromomethane	0.77	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.3		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.94	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.59	2.1		U
74-87-3	Chloromethane	0.56	2.1		U
126-99-8	Chloroprene	0.53	5.3		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.46	2.1		UJ1
74-95-3	Dibromomethane	0.44	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.40	2.1		U
541-73-1	1,3-Dichlorobenzene	0.90	2.1		U
106-46-7	1,4-Dichlorobenzene	0.59	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.6	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.58	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.53	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	5.3	53		UJ1
100-41-4	Ethylbenzene	0.80	2.1		U
97-63-2	Ethyl methacrylate	0.28	5.3		UJ1
591-78-6	2-Hexanone	2.4	5.3		U
74-88-4	Iodomethane	0.89	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325112A

Level: (low/med) LOW Date Sampled: 03/17/09 11:55

% Moisture: not dec. 7 Date Analyzed: 03/29/09 19:11

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.3	53		UJ1
126-98-7	Methacrylonitrile	5.3	27		UJ1
75-09-2	Methylene chloride	0.66	2.1		U
80-62-6	Methyl methacrylate	0.48	5.3		U
108-10-1	4-Methyl-2-pentanone	0.62	5.3		U
107-12-0	Propionitrile	5.3	27		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.92	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.96	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		UJ1
79-01-6	Trichloroethene	0.91	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.75	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
136777-61-2	m,p-Xylene	1.6	4.3		U
1330-20-7	Xylene(total)	0.75	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-14

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325114A

Level: (low/med) LOW Date Sampled: 03/17/09 12:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 19:49

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11		U
75-05-8	Acetonitrile	5.3	26		UJ1
107-02-8	Acrolein	5.5	11		U
107-13-1	Acrylonitrile	1.5	11		UJ1
107-05-1	Allyl chloride	0.53	5.3		UJ1
71-43-2	Benzene	0.50	2.1		U
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		UJ1
74-83-9	Bromomethane	0.76	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.3		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.93	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.55	2.1		U
126-99-8	Chloroprene	0.53	5.3		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.46	2.1		UJ1
74-95-3	Dibromomethane	0.44	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.89	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.5	26		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.57	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.53	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	5.3	53		UJ1
100-41-4	Ethylbenzene	0.80	2.1		U
97-63-2	Ethyl methacrylate	0.28	5.3		UJ1
591-78-6	2-Hexanone	2.4	5.3		U
74-88-4	Iodomethane	0.88	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-14

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325114A

Level: (low/med) LOW Date Sampled: 03/17/09 12:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 19:49

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.3	53		UJ1
126-98-7	Methacrylonitrile	5.3	26		UJ1
75-09-2	Methylene chloride	0.66	2.1		U
80-62-6	Methyl methacrylate	0.48	5.3		U
108-10-1	4-Methyl-2-pentanone	0.62	5.3		U
107-12-0	Propionitrile	5.3	26		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.91	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1	0.20	I
71-55-6	1,1,1-Trichloroethane	0.96	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		UJ1
79-01-6	Trichloroethene	0.90	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.74	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.74	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS11-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325116A

Level: (low/med) LOW Date Sampled: 03/17/09 12:35

% Moisture: not dec. 4 Date Analyzed: 03/29/09 20:28

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	10		U
75-05-8	Acetonitrile	5.2	26		UJ1
107-02-8	Acrolein	5.4	10		U
107-13-1	Acrylonitrile	1.5	10		UJ1
107-05-1	Allyl chloride	0.52	5.2		UJ1
71-43-2	Benzene	0.49	2.1		U
75-27-4	Bromodichloromethane	0.31	2.1		U
75-25-2	Bromoform	1.0	2.1		UJ1
74-83-9	Bromomethane	0.75	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.2		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.92	2.1		U
108-90-7	Chlorobenzene	0.35	2.1		U
75-00-3	Chloroethane	1.1	2.1		U
67-66-3	Chloroform	0.57	2.1		U
74-87-3	Chloromethane	0.54	2.1		U
126-99-8	Chloroprene	0.52	5.2		UJ1
124-48-1	Dibromochloromethane	0.35	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.45	2.1		UJ1
74-95-3	Dibromomethane	0.43	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.88	2.1		U
106-46-7	1,4-Dichlorobenzene	0.57	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.4	26		UJ1
75-71-8	Dichlorodifluoromethane	1.1	2.1		U
75-34-3	1,1-Dichloroethane	0.56	2.1		U
107-06-2	1,2-Dichloroethane	0.48	2.1		U
75-35-4	1,1-Dichloroethene	1.2	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.1	2.1		U
78-87-5	1,2-Dichloropropane	0.48	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.52	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.33	2.1		U
123-91-1	1,4-Dioxane	5.2	52		UJ1
100-41-4	Ethylbenzene	0.78	2.1		U
97-63-2	Ethyl methacrylate	0.27	5.2		UJ1
591-78-6	2-Hexanone	2.4	5.2		U
74-88-4	Iodomethane	0.87	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS11-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325116A

Level: (low/med) LOW Date Sampled: 03/17/09 12:35

% Moisture: not dec. 4 Date Analyzed: 03/29/09 20:28

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.2	52		UJ1
126-98-7	Methacrylonitrile	5.2	26		UJ1
75-09-2	Methylene chloride	0.65	2.1		U
80-62-6	Methyl methacrylate	0.47	5.2		U
108-10-1	4-Methyl-2-pentanone	0.60	5.2		U
107-12-0	Propionitrile	5.2	26		UJ1
100-42-5	Styrene	0.36	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.33	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.90	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.94	2.1		U
79-00-5	1,1,2-Trichloroethane	0.36	2.1		UJ1
79-01-6	Trichloroethene	0.89	2.1		U
75-69-4	Trichlorofluoromethane	0.99	2.1		U
96-18-4	1,2,3-Trichloropropane	0.73	2.1		U
75-01-4	Vinyl chloride	1.1	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS12-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-18

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325118A

Level: (low/med) LOW Date Sampled: 03/17/09 12:55

% Moisture: not dec. 3 Date Analyzed: 03/29/09 21:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	10		U
75-05-8	Acetonitrile	5.2	26		UJ1
107-02-8	Acrolein	5.4	10		U
107-13-1	Acrylonitrile	1.5	10		UJ1
107-05-1	Allyl chloride	0.52	5.2		UJ1
71-43-2	Benzene	0.49	2.1		U
75-27-4	Bromodichloromethane	0.31	2.1		U
75-25-2	Bromoform	1.0	2.1		UJ1
74-83-9	Bromomethane	0.76	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.2		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.92	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.54	2.1		U
126-99-8	Chloroprene	0.52	5.2		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.45	2.1		UJ1
74-95-3	Dibromomethane	0.43	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.88	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.4	26		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.57	2.1		U
107-06-2	1,2-Dichloroethane	0.48	2.1		U
75-35-4	1,1-Dichloroethene	1.2	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.48	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.52	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	5.2	52		UJ1
100-41-4	Ethylbenzene	0.79	2.1		U
97-63-2	Ethyl methacrylate	0.27	5.2		UJ1
591-78-6	2-Hexanone	2.4	5.2		U
74-88-4	Iodomethane	0.87	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS12-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-18

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0325118A

Level: (low/med) LOW Date Sampled: 03/17/09 12:55

% Moisture: not dec. 3 Date Analyzed: 03/29/09 21:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.2	52		UJ1
126-98-7	Methacrylonitrile	5.2	26		UJ1
75-09-2	Methylene chloride	0.65	2.1		U
80-62-6	Methyl methacrylate	0.47	5.2		U
108-10-1	4-Methyl-2-pentanone	0.61	5.2		U
107-12-0	Propionitrile	5.2	26		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.90	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1	0.20	I
71-55-6	1,1,1-Trichloroethane	0.94	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		UJ1
79-01-6	Trichloroethene	0.89	2.1		U
75-69-4	Trichlorofluoromethane	1.00	2.1		U
96-18-4	1,2,3-Trichloropropane	0.73	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-20

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325120A

Level: (low/med) LOW Date Sampled: 03/17/09 13:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 21:45

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	10		U
75-05-8	Acetonitrile	5.2	26		UJ1
107-02-8	Acrolein	5.4	10		U
107-13-1	Acrylonitrile	1.4	10		UJ1
107-05-1	Allyl chloride	0.52	5.2		UJ1
71-43-2	Benzene	0.49	2.1		U
75-27-4	Bromodichloromethane	0.31	2.1		U
75-25-2	Bromoform	1.0	2.1		UJ1
74-83-9	Bromomethane	0.75	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.4	5.2		U
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.91	2.1		U
108-90-7	Chlorobenzene	0.35	2.1		U
75-00-3	Chloroethane	1.1	2.1		U
67-66-3	Chloroform	0.57	2.1		U
74-87-3	Chloromethane	0.54	2.1		U
126-99-8	Chloroprene	0.52	5.2		UJ1
124-48-1	Dibromochloromethane	0.35	2.1		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.1		UJ1
106-93-4	1,2-Dibromoethane	0.45	2.1		UJ1
74-95-3	Dibromomethane	0.42	2.1		UJ1
95-50-1	1,2-Dichlorobenzene	0.38	2.1		U
541-73-1	1,3-Dichlorobenzene	0.87	2.1		U
106-46-7	1,4-Dichlorobenzene	0.57	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.3	26		UJ1
75-71-8	Dichlorodifluoromethane	1.1	2.1		U
75-34-3	1,1-Dichloroethane	0.56	2.1		U
107-06-2	1,2-Dichloroethane	0.48	2.1		U
75-35-4	1,1-Dichloroethene	1.2	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.1	2.1		U
78-87-5	1,2-Dichloropropane	0.48	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.52	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.33	2.1		U
123-91-1	1,4-Dioxane	5.2	52		UJ1
100-41-4	Ethylbenzene	0.78	2.1		U
97-63-2	Ethyl methacrylate	0.27	5.2		UJ1
591-78-6	2-Hexanone	2.4	5.2		U
74-88-4	Iodomethane	0.86	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-20

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0325120A

Level: (low/med) LOW Date Sampled: 03/17/09 13:15

% Moisture: not dec. 4 Date Analyzed: 03/29/09 21:45

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.2	52		UJ1
126-98-7	Methacrylonitrile	5.2	26		UJ1
75-09-2	Methylene chloride	0.64	2.1		U
80-62-6	Methyl methacrylate	0.47	5.2		U
108-10-1	4-Methyl-2-pentanone	0.60	5.2		U
107-12-0	Propionitrile	5.2	26		UJ1
100-42-5	Styrene	0.36	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.33	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.89	2.1		U
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.93	2.1		U
79-00-5	1,1,2-Trichloroethane	0.36	2.1		UJ1
79-01-6	Trichloroethene	0.88	2.1		U
75-69-4	Trichlorofluoromethane	0.99	2.1		U
96-18-4	1,2,3-Trichloropropane	0.73	2.1		U
75-01-4	Vinyl chloride	1.1	2.1		U
136777-61-2	m,p-Xylene	1.6	4.2		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325121

Level: (low/med) LOW Date Sampled: 03/17/09 11:42

% Moisture: not dec. _____ Date Analyzed: 03/29/09 16:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		UJ1
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		UJ1
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		UJ1
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0	0.76	I
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0	0.71	I
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		UJ1
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		UJ1
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0	0.65	I
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		UJ1
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325121

Level: (low/med) LOW Date Sampled: 03/17/09 11:42

% Moisture: not dec. _____ Date Analyzed: 03/29/09 16:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		UJ1
126-98-7	Methacrylonitrile	0.20	25		UJ1
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		UJ1
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50	1.8	
127-18-4	Tetrachloroethene	0.16	2.0	0.39	I
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		UJ1
79-01-6	Trichloroethene	0.50	2.0	6.9	
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
136777-61-2	m,p-Xylene	0.21	2.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK #6829A

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-22

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325122

Level: (low/med) LOW Date Sampled: 03/17/09 15:00

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		UJ1
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		UJ1
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		UJ1
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0		U
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		UJ1
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		UJ1
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		UJ1
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TRIP BLA
NK #6829A

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-22

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325122

Level: (low/med) LOW Date Sampled: 03/17/09 15:00

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		UJ1
126-98-7	Methacrylonitrile	0.20	25		UJ1
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		UJ1
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50		U
127-18-4	Tetrachloroethene	0.16	2.0		U
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		UJ1
79-01-6	Trichloroethene	0.50	2.0		U
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
136777-61-2	m,p-Xylene	0.21	2.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK #6829B

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-23

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325123

Level: (low/med) LOW Date Sampled: 03/17/09 15:30

% Moisture: not dec. _____ Date Analyzed: 03/29/09 15:01

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		UJ1
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		UJ1
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		UJ1
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0		U
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		UJ1
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		UJ1
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		UJ1
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TRIP BLA
NK #6829B

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-23

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0325123

Level: (low/med) LOW Date Sampled: 03/17/09 15:30

% Moisture: not dec. _____ Date Analyzed: 03/29/09 15:01

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		UJ1
126-98-7	Methacrylonitrile	0.20	25		UJ1
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		UJ1
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50		U
127-18-4	Tetrachloroethene	0.16	2.0		U
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		UJ1
79-01-6	Trichloroethene	0.50	2.0		U
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
136777-61-2	m,p-Xylene	0.21	2.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1BLK0329LCS	100	103	102	97	0
02	V1BLK0329	100	101	106	95	0
03	MPT-AOCF-SS0	103	116	105	99	0
04	MPT-AOCF-SS0	101	105	106	97	0
05	MPT-AOCF-SS0	102	109	104	95	0
06	MPT-AOCF-SS0	102	102	105	93	0
07	MPT-AOCF-SS0	102	109	107	96	0
08	MPT-AOCF-SS0	103	102	107	99	0
09	MPT-AOCF-SS1	108	116	106	96	0
10	MPT-AOCF-SS1	103	102	105	96	0
11	MPT-AOCF-SS1	104	102	106	96	0
12	MPT-AOCF-SS1	103	100	106	97	0
13	V1BLK0329LCS	102	96	100	106	0
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		EL QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V4BLK0328LCS	105	102	97	99	0
02	V4BLK0328	101	96	98	100	0
03	TRIP BLANK #	103	98	96	95	0
04	TRIP BLANK #	107	97	98	98	0
05	MPT-AOCF-RIN	109	104	99	98	0
06						
07						
08						
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30						

		QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	118.9	119	40-140
Acetonitrile	500.0	0.0000	342.1	68	50-150
Acrolein	250.0	0.0000	538.4	215*	10-200
Acrylonitrile	250.0	0.0000	270.2	108	35-180
Allyl chloride	50.00	0.0000	21.54	43*	50-150
Benzene	50.00	0.0000	52.41	105	80-120
Bromodichloromethane	50.00	0.0000	51.44	103	75-120
Bromoform	50.00	0.0000	45.11	90	70-130
Bromomethane	50.00	1.597	43.64	84	30-145
2-Butanone (methyl ethy	100.0	0.0000	111.5	112	30-150
Carbon disulfide	50.00	0.0000	55.38	111	35-160
Carbon tetrachloride	50.00	0.0000	52.30	105	65-140
Chlorobenzene	50.00	0.0000	48.36	97	80-120
Chloroethane	50.00	0.0000	55.15	110	60-135
Chloroform	50.00	0.0000	45.39	91	65-135
Chloromethane	50.00	0.0000	61.33	123	40-125
Chloroprene	50.00	0.0000	28.81	58	50-150
Dibromochloromethane	50.00	0.0000	48.07	96	60-135
1,2-Dibromo-3-chloropro	50.00	0.0000	43.96	88	50-130
1,2-Dibromoethane	50.00	0.0000	46.96	94	80-120
Dibromomethane	50.00	0.0000	47.84	96	75-125
1,2-Dichlorobenzene	50.00	0.0000	49.57	99	70-120
1,3-Dichlorobenzene	50.00	0.0000	47.34	95	75-125
1,4-Dichlorobenzene	50.00	0.0000	50.91	102	75-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	40.06	80	50-150
Dichlorodifluoromethane	50.00	0.0000	59.05	118	30-155
1,1-Dichloroethane	50.00	0.0000	54.27	108	70-135
1,2-Dichloroethane	50.00	0.0000	55.54	111	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	49.95	100	70-130
cis-1,2-Dichloroethene	50.00	0.0000	47.61	95	70-125
trans-1,2-Dichloroethen	50.00	0.0000	48.43	97	60-140
1,2-Dichloropropane	50.00	0.0000	53.23	106	75-125
cis-1,3-Dichloropropene	50.00	0.0000	52.31	105	70-130
trans-1,3-Dichloroprope	50.00	0.0000	52.96	106	55-140
1,4-Dioxane	1000	0.0000	715.8	72	50-150
Ethylbenzene	50.00	0.1272	49.17	98	75-125
Ethyl methacrylate	100.0	0.3360	90.72	90	70-135
2-Hexanone	100.0	0.0000	110.0	110	55-130
Iodomethane	50.00	0.0000	44.79	90	50-140
Isobutyl alcohol	1000	0.0000	999.5	100	50-150
Methacrylonitrile	500.0	0.0000	372.8	74	50-150
Methylene chloride	50.00	0.0000	49.38	99	55-140
Methyl methacrylate	100.0	0.0000	102.1	102	70-135
4-Methyl-2-pentanone	100.0	0.0000	104.6	105	60-135
Propionitrile	500.0	0.0000	340.4	68	50-150
Styrene	50.00	0.0000	50.32	101	65-135
1,1,1,2-Tetrachloroetha	50.00	0.0000	48.89	98	80-130
1,1,2,2-Tetrachloroetha	50.00	0.0000	53.47	107	65-130
Tetrachloroethene	55.00	0.0000	63.96	116	45-150
Toluene	50.00	0.0000	48.74	97	75-120
1,2,4-Trichlorobenzene	50.00	0.1980	49.66	99	65-135
1,1,1-Trichloroethane	50.00	0.0000	46.69	93	65-130
1,1,2-Trichloroethane	50.00	0.0000	49.30	99	75-125
Trichloroethene	50.00	0.0000	49.82	100	70-125
Trichlorofluoromethane	50.00	0.0000	55.10	110	60-145
1,2,3-Trichloropropane	50.00	0.0000	45.88	92	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	58.78	118	50-145
m,p-Xylene	100.0	0.2114	120.1	120	75-130
o-Xylene	50.00	0.0000	49.62	99	80-120
Xylene(total)	150.0	0.1645	143.1	95	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 60 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	105.8	106	20-160
Acetonitrile	500.0	0.0000	202.7	40*	50-150
Acrolein	250.0	0.0000	329.2	132	10-150
Acrylonitrile	250.0	0.0000	307.1	123	35-180
Allyl chloride	50.00	0.0000	26.88	54	50-150
Benzene	50.00	0.0000	62.24	124	75-125
Bromodichloromethane	50.00	0.0000	56.98	114	70-130
Bromoform	50.00	0.0000	64.90	130	55-135
Bromomethane	50.00	0.0000	48.52	97	30-160
2-Butanone (methyl ethy	100.0	0.0000	114.2	114	30-160
Carbon disulfide	50.00	0.0000	65.60	131	45-160
Carbon tetrachloride	50.00	0.0000	54.64	109	65-135
Chlorobenzene	50.00	0.0000	61.85	124	75-125
Chloroethane	50.00	0.0000	49.95	100	40-155
Chloroform	50.00	0.0000	53.82	108	70-125
Chloromethane	50.00	0.0000	43.94	88	50-130
Chloroprene	50.00	0.0000	27.66	55	50-150
Dibromochloromethane	50.00	0.0000	62.63	125	65-130
1,2-Dibromo-3-chloropro	50.00	0.0000	54.83	110	40-135
1,2-Dibromoethane	50.00	0.0000	60.84	122	70-125
Dibromomethane	50.00	0.0000	54.44	109	75-130
1,2-Dichlorobenzene	50.00	0.0000	61.86	124*	75-120
1,3-Dichlorobenzene	50.00	0.0000	61.71	123	70-125
1,4-Dichlorobenzene	50.00	0.0000	65.05	130*	70-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	26.39	53	50-150
Dichlorodifluoromethane	50.00	0.0000	52.70	105	35-135
1,1-Dichloroethane	50.00	0.0000	57.33	115	75-125
1,2-Dichloroethane	50.00	0.0000	53.55	107	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	63.25	126	65-135
cis-1,2-Dichloroethene	50.00	0.0000	58.83	118	65-125
trans-1,2-Dichloroethen	50.00	0.0000	61.83	124	65-135
1,2-Dichloropropane	50.00	0.0000	60.32	121*	70-120
cis-1,3-Dichloropropene	50.00	0.0000	60.82	122	70-125
trans-1,3-Dichloroprope	50.00	0.0000	60.72	121	65-125
1,4-Dioxane	1000	0.0000	422.8	42*	50-150
Ethylbenzene	50.00	0.0000	61.52	123	75-125
Ethyl methacrylate	100.0	0.0000	119.1	119	45-145
2-Hexanone	100.0	0.0000	118.0	118	45-145
Iodomethane	50.00	0.0000	63.29	126	55-165
Isobutyl alcohol	1000	0.0000	490.4	49*	50-150
Methacrylonitrile	500.0	0.0000	218.7	44*	50-150
Methylene chloride	50.00	0.8958	60.66	120	55-140
Methyl methacrylate	100.0	0.0000	114.4	114	65-125
4-Methyl-2-pentanone	100.0	0.0000	117.6	118	45-145
Propionitrile	500.0	0.0000	240.1	48*	50-150
Styrene	50.00	0.0000	65.60	131*	75-125
1,1,1,2-Tetrachloroetha	50.00	0.0000	61.34	123	75-125
1,1,2,2-Tetrachloroetha	50.00	0.0000	64.52	129	55-130
Tetrachloroethene	55.00	0.0000	63.18	115	65-140
Toluene	50.00	0.0000	62.81	126*	70-125
1,2,4-Trichlorobenzene	50.00	0.0000	63.70	127	65-130
1,1,1-Trichloroethane	50.00	0.0000	53.80	108	70-135
1,1,2-Trichloroethane	50.00	0.0000	60.07	120	60-125
Trichloroethene	50.00	0.0000	58.92	118	75-125
Trichlorofluoromethane	50.00	0.0000	55.67	111	25-185
1,2,3-Trichloropropane	50.00	0.0000	57.18	114	65-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	44.83	90	60-125
m,p-Xylene	100.0	0.0000	118.6	119	80-125
o-Xylene	50.00	0.0000	61.19	122	75-125
Xylene(total)	150.0	0.0000	183.3	122*	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	89.48	89	17	30	20-160
Acetonitrile	500.0	243.2	49*	18	30	50-150
Acrolein	250.0	288.4	115	13	30	10-150
Acrylonitrile	250.0	330.1	132	7	30	35-180
Allyl chloride	50.00	25.77	52	4	30	50-150
Benzene	50.00	66.68	133*	7	30	75-125
Bromodichloromethane	50.00	65.68	131*	14	30	70-130
Bromoform	50.00	63.90	128	2	30	55-135
Bromomethane	50.00	53.41	107	10	30	30-160
2-Butanone (methyl ethy	100.0	121.0	121	6	30	30-160
Carbon disulfide	50.00	65.81	132	0	30	45-160
Carbon tetrachloride	50.00	61.94	124	12	30	65-135
Chlorobenzene	50.00	65.18	130*	5	30	75-125
Chloroethane	50.00	57.99	116	15	30	40-155
Chloroform	50.00	58.70	117	9	30	70-125
Chloromethane	50.00	60.26	120	31*	30	50-130
Chloroprene	50.00	29.49	59	6	30	50-150
Dibromochloromethane	50.00	69.36	139*	10	30	65-130
1,2-Dibromo-3-chloropro	50.00	64.28	128	16	30	40-135
1,2-Dibromoethane	50.00	65.56	131*	7	30	70-125
Dibromomethane	50.00	61.94	124	13	30	75-130
1,2-Dichlorobenzene	50.00	64.47	129*	4	30	75-120
1,3-Dichlorobenzene	50.00	64.03	128*	4	30	70-125
1,4-Dichlorobenzene	50.00	61.85	124	5	30	70-125
trans-1,4-Dichloro-2-bu	50.00	27.54	55	4	30	50-150
Dichlorodifluoromethane	50.00	67.63	135	25	30	35-135
1,1-Dichloroethane	50.00	61.63	123	7	30	75-125
1,2-Dichloroethane	50.00	65.52	131*	20	30	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	64.30	129	2	30	65-135
cis-1,2-Dichloroethene	50.00	62.84	126*	6	30	65-125
trans-1,2-Dichloroethen	50.00	62.54	125	1	30	65-135
1,2-Dichloropropane	50.00	65.79	132*	9	30	70-120
cis-1,3-Dichloropropene	50.00	65.56	131*	8	30	70-125
trans-1,3-Dichloroprope	50.00	64.54	129*	6	30	65-125
1,4-Dioxane	1000	454.6	45*	7	30	50-150
Ethylbenzene	50.00	64.27	128*	4	30	75-125
Ethyl methacrylate	100.0	138.1	138	15	30	45-145
2-Hexanone	100.0	124.6	125	5	30	45-145
Iodomethane	50.00	64.92	130	2	30	55-165
Isobutyl alcohol	1000	586.9	59	18	30	50-150
Methacrylonitrile	500.0	268.2	54	20	30	50-150
Methylene chloride	50.00	60.45	119	0	30	55-140
Methyl methacrylate	100.0	136.6	137*	18	30	65-125
4-Methyl-2-pentanone	100.0	144.7	145	21	30	45-145
Propionitrile	500.0	269.8	54	12	30	50-150
Styrene	50.00	71.55	143*	9	30	75-125
1,1,1,2-Tetrachloroetha	50.00	66.18	132*	8	30	75-125
1,1,2,2-Tetrachloroetha	50.00	66.23	132*	3	30	55-130
Tetrachloroethene	55.00	73.82	134	16	30	65-140
Toluene	50.00	65.57	131*	4	30	70-125
1,2,4-Trichlorobenzene	50.00	60.07	120	6	30	65-130
1,1,1-Trichloroethane	50.00	58.99	118	9	30	70-135
1,1,2-Trichloroethane	50.00	64.56	129*	7	30	60-125
Trichloroethene	50.00	63.46	127*	7	30	75-125
Trichlorofluoromethane	50.00	61.75	124	10	30	25-185
1,2,3-Trichloropropane	50.00	65.28	130	13	30	65-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: V1BLK0329 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	50.00	57.22	114	24	30	60-125
m,p-Xylene	100.0	127.4	127*	7	30	80-125
o-Xylene	50.00	69.43	139*	13	30	75-125
Xylene(total)	150.0	200.5	134*	9	30	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 60 outside limits
Spike Recovery: 36 out of 120 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: V4BLK01 Lab Sample ID: V4BLK0328

Date Analyzed: 03/29/09 Time Analyzed: 1403

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V4BLK0328LCS	V4BLK0328LCS	V4LCS01	0936
02	TRIP BLANK #	0903251-22	0325122	1432
03	TRIP BLANK #	0903251-23	0325123	1501
04	MPT-AOCF-RIN	0903251-21	0325121	1600
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: V4BLK0328

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V4BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		UJ1
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		UJ1
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		UJ1
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0		U
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		UJ1
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		UJ1
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		UJ1
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: V4BLK0328

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V4BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		UJ1
126-98-7	Methacrylonitrile	0.20	25		UJ1
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		UJ1
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50		U
127-18-4	Tetrachloroethene	0.16	2.0		U
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		UJ1
79-01-6	Trichloroethene	0.50	2.0		U
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
136777-61-2	m,p-Xylene	0.21	2.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1BLK0329

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: V1BLK01 Lab Sample ID: V1BLK0329

Date Analyzed: 03/29/09 Time Analyzed: 1519

Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1BLK0329LCS	V1BLK0329LCS	V1LCS01	1402
02	MPT-AOCF-SS0	0903251-02	0325102A	1558
03	MPT-AOCF-SS0	0903251-04	0325104A	1636
04	MPT-AOCF-SS0	0903251-06	0325106A	1715
05	MPT-AOCF-SS0	0903251-08	0325108A	1753
06	MPT-AOCF-SS0	0903251-10	0325110A	1832
07	MPT-AOCF-SS0	0903251-12	0325112A	1911
08	MPT-AOCF-SS1	0903251-14	0325114A	1949
09	MPT-AOCF-SS1	0903251-16	0325116A	2028
10	MPT-AOCF-SS1	0903251-18	0325118A	2106
11	MPT-AOCF-SS1	0903251-20	0325120A	2145
12	V1BLK0329LCS	V1BLK0329LCSD	V1LCSD01	2223
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1BLK0329

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: V1BLK0329

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 03/29/09 15:19

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.0	10		U
75-05-8	Acetonitrile	5.0	25		UJ1
107-02-8	Acrolein	5.2	10		U
107-13-1	Acrylonitrile	1.4	10		UJ1
107-05-1	Allyl chloride	0.50	5.0		UJ1
71-43-2	Benzene	0.47	2.0		U
75-27-4	Bromodichloromethane	0.30	2.0		U
75-25-2	Bromoform	1.0	2.0		UJ1
74-83-9	Bromomethane	0.72	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.4	5.0		U
75-15-0	Carbon disulfide	1.3	2.0		U
56-23-5	Carbon tetrachloride	0.88	2.0		U
108-90-7	Chlorobenzene	0.34	2.0		U
75-00-3	Chloroethane	1.1	2.0		U
67-66-3	Chloroform	0.55	2.0		U
74-87-3	Chloromethane	0.52	2.0		U
126-99-8	Chloroprene	0.50	5.0		UJ1
124-48-1	Dibromochloromethane	0.34	2.0		UJ1
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.0		UJ1
106-93-4	1,2-Dibromoethane	0.43	2.0		UJ1
74-95-3	Dibromomethane	0.41	2.0		UJ1
95-50-1	1,2-Dichlorobenzene	0.37	2.0		U
541-73-1	1,3-Dichlorobenzene	0.84	2.0		U
106-46-7	1,4-Dichlorobenzene	0.55	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	8.0	25		UJ1
75-71-8	Dichlorodifluoromethane	1.1	2.0		U
75-34-3	1,1-Dichloroethane	0.54	2.0		U
107-06-2	1,2-Dichloroethane	0.46	2.0		U
75-35-4	1,1-Dichloroethene	1.2	2.0		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.0		U
156-60-5	trans-1,2-Dichloroethene	1.1	2.0		U
78-87-5	1,2-Dichloropropane	0.46	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.50	2.0		U
10061-02-6	trans-1,3-Dichloropropene	0.32	2.0		U
123-91-1	1,4-Dioxane	5.0	50		UJ1
100-41-4	Ethylbenzene	0.75	2.0		U
97-63-2	Ethyl methacrylate	0.26	5.0		UJ1
591-78-6	2-Hexanone	2.3	5.0		U
74-88-4	Iodomethane	0.83	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1BLK0329

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: V1BLK0329

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 03/29/09 15:19

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	5.0	50		UJ1
126-98-7	Methacrylonitrile	5.0	25		UJ1
75-09-2	Methylene chloride	0.62	2.0	0.90	I
80-62-6	Methyl methacrylate	0.45	5.0		U
108-10-1	4-Methyl-2-pentanone	0.58	5.0		U
107-12-0	Propionitrile	5.0	25		UJ1
100-42-5	Styrene	0.35	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.32	2.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.43	2.0		U
127-18-4	Tetrachloroethene	0.97	2.0		U
108-88-3	Toluene	0.86	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.90	2.0		U
79-00-5	1,1,2-Trichloroethane	0.35	2.0		UJ1
79-01-6	Trichloroethene	0.85	2.0		U
75-69-4	Trichlorofluoromethane	0.95	2.0		U
96-18-4	1,2,3-Trichloropropane	0.70	2.0		U
75-01-4	Vinyl chloride	1.1	2.0		U
136777-61-2	m,p-Xylene	1.5	4.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA30787A

Lab File ID: V1BFB01E BFB Injection Date: 12/17/08

Instrument ID: VOA1 BFB Injection Time: 2340

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.7
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	4.4 (6.1)1
176	95.0 - 101.0% of mass 174	70.8 (97.4)1
177	5.0 - 9.0% of mass 176	4.4 (6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V1STD2PPB	V1STDAP1	12/18/08	0051
02		V1STD5PPB	V1STDAP2	12/18/08	0130
03		V1STD10PPB	V1STDAP3	12/18/08	0209
04		V1STD20PPB	V1STDAP4	12/18/08	0248
05		V1STD50PPB	V1STDAP5	12/18/08	0327
06	V1BLK1217LCS	V1BLK1217LCS	V1ICVAP9	12/18/08	0406
07		V1STD100PPB	V1STDAP6	12/18/08	0445
08		V1STD200PPB	V1STDAP7	12/18/08	0524
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CITY

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA25189

Lab File ID: V4BFB01 BFB Injection Date: 04/02/08

Instrument ID: VOA4 BFB Injection Time: 1352

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	41.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	6.1 (7.4)1
176	95.0 - 101.0% of mass 174	78.2 (95.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V4CALIB	V4ASTD09	04/02/08	1649
02		V4CALIB	V4ASTD08	04/02/08	1718
03		V4CALIB	V4ASTD07	04/02/08	1748
04		V4CALIB	V4ASTD06	04/02/08	1847
05		V4CALIB	V4ASTD05	04/02/08	1916
06		V4CALIB	V4ASTD04	04/02/08	1946
07		V4CALIB	V4ASTD03	04/02/08	2015
08		V4CALIB	V4ASTD02	04/02/08	2044
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA95155

Lab File ID: V1BFB01 BFB Injection Date: 03/27/09

Instrument ID: VOA1 BFB Injection Time: 0813

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	31.5
75	30.0 - 60.0% of mass 95	59.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.7
175	5.0 - 9.0% of mass 174	4.3 (6.9)1
176	95.0 - 101.0% of mass 174	61.9 (98.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V1STD2PPB	V1STD01	03/27/09	0924
02		V1STD5PPB	V1STD02	03/27/09	1003
03		V1STD10PPB	V1STD03	03/27/09	1042
04		V1STD20PPB	V1STD04	03/27/09	1121
05		V1STD50PPB	V1STD05	03/27/09	1159
06	V1BLK0327LCS	V1BLK0327LCS	V1ICV01	03/27/09	1238
07		V1STD100PPB	V1STD06	03/27/09	1317
08		V1STD200PPB	V1STD07	03/27/09	1355
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA29149

Lab File ID: V4BFB01 BFB Injection Date: 03/27/09

Instrument ID: VOA4 BFB Injection Time: 1023

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	43.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.6 (8.2)1
176	95.0 - 101.0% of mass 174	67.5 (99.0)1
177	5.0 - 9.0% of mass 176	4.4 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD0.25PPB	V4STD0.25PPB	V4STD01	03/27/09	1052
02	V4STD0.5PPB	V4STD0.5PPB	V4STD02	03/27/09	1122
03	V4STD1PPB	V4STD1PPB	V4STD03	03/27/09	1201
04	V4STD2PPB	V4STD2PPB	V4STD04	03/27/09	1231
05	V4STD10PPB	V4STD10PPB	V4STD05	03/27/09	1300
06	V4STD20PPB	V4STD20PPB	V4STD06	03/27/09	1330
07	V4STD50PPB	V4STD50PPB	V4STD07	03/27/09	1359
08	V4BLK0327LCS	V4BLK0327LCS	V4ICV01	03/27/09	1429
09	V4STD100PPB	V4STD100PPB	V4STD08	03/27/09	1458
10	V4STD200PPB	V4STD200PPB	V4STD09	03/27/09	1528
11	V4BLK0327LCS	V4BLK0327LCS	V4LCS01	03/27/09	1627
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: V4BFB01 BFB Injection Date: 03/28/09

Instrument ID: VOA4 BFB Injection Time: 0807

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.0
75	30.0 - 60.0% of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.2 (7.6)1
176	95.0 - 101.0% of mass 174	66.1 (96.6)1
177	5.0 - 9.0% of mass 176	4.2 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD100PPB	V4STD100PPB	V4CCV01	03/28/09	0837
02	V4BLK0328LCS	V4BLK0328LCS	V4LCS01	03/28/09	0936
03	V4BLK0328	V4BLK0328	V4BLK01	03/29/09	1403
04	TRIP BLANK #	0903251-22	0325122	03/29/09	1432
05	TRIP BLANK #	0903251-23	0325123	03/29/09	1501
06	MPT-AOCF-RIN	0903251-21	0325121	03/29/09	1600
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: V1BFB01 BFB Injection Date: 03/29/09

Instrument ID: VOA1 BFB Injection Time: 1212

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.4
75	30.0 - 60.0% of mass 95	59.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	64.0
175	5.0 - 9.0% of mass 174	4.5 (7.0)1
176	95.0 - 101.0% of mass 174	61.2 (95.6)1
177	5.0 - 9.0% of mass 176	3.4 (5.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD100PPB	V1STD100PPB	V1CCV01	03/29/09	1245
02	V1BLK0329LCS	V1BLK0329LCS	V1LCS01	03/29/09	1402
03	V1BLK0329	V1BLK0329	V1BLK01	03/29/09	1519
04	MPT-AOCF-SS0	0903251-02	0325102A	03/29/09	1558
05	MPT-AOCF-SS0	0903251-04	0325104A	03/29/09	1636
06	MPT-AOCF-SS0	0903251-06	0325106A	03/29/09	1715
07	MPT-AOCF-SS0	0903251-08	0325108A	03/29/09	1753
08	MPT-AOCF-SS0	0903251-10	0325110A	03/29/09	1832
09	MPT-AOCF-SS0	0903251-12	0325112A	03/29/09	1911
10	MPT-AOCF-SS1	0903251-14	0325114A	03/29/09	1949
11	MPT-AOCF-SS1	0903251-16	0325116A	03/29/09	2028
12	MPT-AOCF-SS1	0903251-18	0325118A	03/29/09	2106
13	MPT-AOCF-SS1	0903251-20	0325120A	03/29/09	2145
14	V1BLK0329LCS	V1BLK0329LCSD	V1LCSD01	03/29/09	2223
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): V1CCV01 Date Analyzed: 03/29/09

Instrument ID: VOA1 Time Analyzed: 1245

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 (FLB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1436873	14.00	653469	19.67	484057	24.12
	UPPER LIMIT	2873746	14.50	1306938	20.17	968114	24.62
	LOWER LIMIT	718437	13.50	326735	19.17	242029	23.62
	CLIENT SAMPLE NO.						
01	V1BLK0329LCS	1548971	14.00	614740	19.66	428382	24.13
02	V1BLK0329	1297182	13.99	495699	19.66	323421	24.12
03	MPT-AOCF-SS0	1418832	13.99	536906	19.66	362203	24.11
04	MPT-AOCF-SS0	1177194	13.99	448025	19.67	303862	24.11
05	MPT-AOCF-SS0	1131725	13.99	442485	19.65	291498	24.11
06	MPT-AOCF-SS0	1135286	13.99	446581	19.65	290531	24.11
07	MPT-AOCF-SS0	1052936	13.99	416362	19.65	280537	24.11
08	MPT-AOCF-SS0	1127623	13.99	431741	19.65	288830	24.11
09	MPT-AOCF-SS1	800299	13.99	320131*	19.65	220208*	24.11
10	MPT-AOCF-SS1	1125570	13.99	435037	19.65	288243	24.11
11	MPT-AOCF-SS1	1120564	13.99	432030	19.65	286407	24.10
12	MPT-AOCF-SS1	1143054	13.97	439429	19.65	301898	24.11
13	V1BLK0329LCS	1004676	13.98	421356	19.65	338771	24.10
14							
15							
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): V4CCV01 Date Analyzed: 03/28/09

Instrument ID: VOA4 Time Analyzed: 0837

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	911603		13.94		388330		17.21		310624		19.24	
	UPPER LIMIT	1823206		14.44		776660		17.71		621248		19.74	
	LOWER LIMIT	455802		13.44		194165		16.71		155312		18.74	
	CLIENT SAMPLE NO.												
01	V4BLK0328LCS	911647		13.95		374922		17.20		315960		19.24	
02	V4BLK0328	818127		13.92		320328		17.19		232129		19.23	
03	TRIP BLANK #	804962		13.92		327173		17.19		232856		19.22	
04	TRIP BLANK #	765865		13.92		310255		17.19		218241		19.23	
05	MPT-AOCF-RIN	701357		13.92		296985		17.19		200009		19.23	
06													
07													
08													
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18													
19													
20													
21													
22													

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

LAB FILE ID: RF0.5: V4ASTD02 RF1: V4ASTD03 RF2: V4ASTD04
RF10: V4ASTD05 RF20: V4ASTD06

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetonitrile	0.081	0.067	0.060	0.054	0.053
Allyl chloride	0.582	0.572	0.534	0.529	0.496
Chloroprene	0.373	0.367	0.379	0.321	0.314
cis-1,4-Dichloro-2-butene	0.400	0.334	0.279	0.244	0.239
trans-1,4-Dichloro-2-butene	0.458	0.303	0.305	0.279	0.262
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003
Hexane	0.200	0.199	0.172	0.186	0.165
Isobutyl alcohol	0.029	0.026	0.015	0.015	0.014
Methacrylonitrile	0.240	0.232	0.233	0.212	0.209
Propionitrile	0.052	0.043	0.050	0.045	0.044

DL 4/3/08

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

LAB FILE ID: RF50: V4ASTD07 RF100: V4ASTD08 RF200: V4ASTD9A

COMPOUND	RF50	RF100	RF200
Acetonitrile	0.051	0.052	0.047
Allyl chloride	0.498	0.498	0.455
Chloroprene	0.323	0.312	0.304
cis-1,4-Dichloro-2-butene	0.231	0.224	0.204
trans-1,4-Dichloro-2-butene	0.250	0.250	0.231
1,4-Dioxane	0.003	0.003	0.003
Hexane	0.169	0.174	0.170
Isobutyl alcohol	0.013	0.013	
Methacrylonitrile	0.198	0.192	0.156
Propionitrile	0.043	0.043	0.040

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetonitrile	LINR	0.00000000	4.848e-002	0.997
Allyl chloride	AVRG		0.52047444	8.2
Chloroprene	AVRG		0.33667300	9.1
cis-1,4-Dichloro-2-butene	LINR	0.00000000	0.20967717	0.997
trans-1,4-Dichloro-2-butene	LINR	0.00000000	0.23628929	0.998
1,4-Dioxane	AVRG		2.996e-003	9.2
Hexane	AVRG		0.17952069	7.8
Isobutyl alcohol	LINR	0.00000000	1.292e-002	0.998
Methacrylonitrile	AVRG		0.20905414	13.1
Propionitrile	AVRG		4.492e-002	8.6

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date: 04/02/08 Time: 1817

Lab File ID: V4ICVAP9 Init. Calib. Date(s): 03/05/08 04/02/08

Heated Purge: (Y/N) N Init. Calib. Times: 0908 2044

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.058	0.054	500.0	557.3		LINR	11.4	25.0
Allyl chloride	0.518	0.550	50.00	53.07		AVRG	6.1	25.0
Chloroprene	0.335	0.412	50.00	61.49		AVRG	23.0	25.0
cis-1,4-Dichloro-2-butene	0.269	0.253	50.00	60.87		LINR	21.7	25.0
trans-1,4-Dichloro-2-butene	0.293	0.255	50.00	53.25		LINR	6.5	25.0
1,4-Dioxane	0.003	0.003	1000	991.7		AVRG	-0.8	25.0
Hexane	0.179	0.198	50.00	55.40		AVRG	10.8	25.0
Isobutyl alcohol	0.018	0.013	1000	987.8		LINR	-1.2	25.0
Methacrylonitrile	0.209	0.208	500.0	498.3		AVRG	-0.3	25.0
Propionitrile	0.045	0.045	500.0	500.0		AVRG	0.0	25.0

ICV VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

LAB FILE ID: RF2: V1STDAP1 RF5: V1STDAP2 RF10: V1STDAP3
RF20: V1STDAP4 RF50: V1STDAP5

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetonitrile	0.031	0.036	0.036	0.039	0.041
Allyl chloride	0.169	0.183	0.167	0.182	0.187
Chloroprene	0.560	0.516	0.499	0.563	0.590
cis-1,4-Dichloro-2-butene	0.348	0.339	0.327	0.357	0.367
trans-1,4-Dichloro-2-butene	0.389	0.397	0.398	0.393	0.433
1,4-Dioxane	0.002	0.002	0.002	0.003	0.003
Hexane	0.408	0.391	0.387	0.428	0.434
Isobutyl alcohol	0.012	0.013	0.014	0.014	0.016
Methacrylonitrile	0.162	0.212	0.221	0.247	0.262
Propionitrile	0.028	0.035	0.033	0.039	0.042

bp ghf.sb

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

LAB FILE ID: RF100: V1STDAP6 RF200: V1STDAP7

COMPOUND	RF100	RF200
Acetonitrile	0.042	0.038
Allyl chloride	0.182	0.181
Chloroprene	0.580	0.576
cis-1,4-Dichloro-2-butene	0.398	0.372
trans-1,4-Dichloro-2-butene	0.451	0.426
1,4-Dioxane	0.003	0.003
Hexane	0.431	0.421
Isobutyl alcohol	0.018	0.017
Methacrylonitrile	0.257	0.245
Propionitrile	0.043	0.038

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetonitrile	AVRG		3.768e-002	9.8
Allyl chloride	AVRG		0.17878399	4.2
Chloroprene	AVRG		0.55494448	6.2
cis-1,4-Dichloro-2-butene	AVRG		0.35833198	6.5
trans-1,4-Dichloro-2-butene	AVRG		0.41243765	5.8
1,4-Dioxane	AVRG		2.586e-003	12.5
Hexane	AVRG		0.41419803	4.6
Isobutyl alcohol	LINR	0.00000000	1.752e-002	0.999
Methacrylonitrile	LINR	0.00000000	0.24804434	0.999
Propionitrile	AVRG		3.668e-002	14.2

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

COMPOUND	AVERAGE RF	MIN. RF	%RSD	MAX. %RSD
Acetonitrile	0.03768		9.8	15.0
Allyl chloride	0.17878		4.2	15.0
Chloroprene	0.55494		6.2	15.0
cis-1,4-Dichloro-2-butene	0.35833		6.5	15.0
trans-1,4-Dichloro-2-butene	0.41244		5.8	15.0
1,4-Dioxane	0.00259		12.5	15.0
Hexane	0.41420		4.6	15.0
Isobutyl alcohol	0.01500		15.9	15.0
Methacrylonitrile	0.22965		15.2	15.0
Propionitrile	0.03668		14.2	15.0

FORM VI VOA

Data File: \\ELABNSH05\TARGET\chem\voa1.i\121708V1.b\V1ICVAP9.D
Report Date: 19-Dec-2008 13:00

Empirical Laboratories, LLC

RECOVERY REPORT

Client Name:
Client SDG: SDGa91895
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: V1BLK1217LCS
Client Smp ID: V1BLK1217LCS
Level: LOW
Operator: JH
Data Type: MS DATA
SampleType: LCS
SpikeList File: c2nds5ap9.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\ELABNSH05\TARGET\chem\voa1.i\121708V1.b\VSOIL1.m
Misc Info: ;3;LCS;;;gm-allap9.sub;#5604,5630

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	10 Acetonitrile	500.0	490.5	98.10	75-125
	23 Allyl chloride	50.00	50.68	101.36	75-125
	31 Propionitrile	500.0	519.6	103.92	75-125
	34 Chloroprene	50.00	57.78	115.56	75-125
	39 Methacrylonitrile	500.0	493.3	98.66	75-125
	47 Isobutyl alcohol	1000	874.0	87.40	75-125
	66 1,4-Dioxane	1000	1069	106.90	75-125
	98 trans-1,4-Dichloro	50.00	48.62	97.24	75-125
$	46 Dibromofluorometha	30.00	30.36	101.20	75-125
$	50 1,2-Dichloroethane	30.00	31.31	104.37	75-125
$	77 Toluene-d8	30.00	32.60	108.67	75-125
$	101 Bromofluorobenzene	30.00	29.86	99.53	75-125

	SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$	46 Dibromofluorometha	30.00	30.36	101.20	80-125
$	50 1,2-Dichloroethane	30.00	31.31	104.37	75-140
$	77 Toluene-d8	30.00	32.60	108.67	80-120
$	101 Bromofluorobenzene	30.00	29.86	99.53	80-125

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetone	0.105	0.084	0.079	0.061	0.065
Acrolein	0.009	0.011	0.010	0.011	0.014
Acrylonitrile	0.049	0.053	0.052	0.051	0.057
Benzene	0.896	0.931	0.938	0.937	1.041
Bromobenzene	0.650	0.632	0.642	0.617	0.663
Bromochloromethane	0.096	0.104	0.096	0.094	0.102
Bromodichloromethane	0.311	0.312	0.318	0.313	0.342
Bromoform	0.223	0.287	0.281	0.275	0.303
Bromomethane	0.174	0.196	0.196	0.200	0.245
2-Butanone	0.047	0.054	0.074	0.066	0.066
n-Butylbenzene	2.888	3.197	3.193	3.233	3.463
sec-Butylbenzene	3.413	3.670	3.809	3.789	4.150
tert-Butylbenzene	2.065	2.098	2.141	2.201	2.362
Carbon disulfide	0.931	0.901	0.902	0.922	0.981
Carbon tetrachloride	0.309	0.311	0.317	0.301	0.326
Chlorobenzene	1.400	1.343	1.372	1.368	1.440
Chloroethane	0.255	0.232	0.246	0.239	0.260
2-Chloroethyl vinyl ether	0.005	0.003	0.003	0.002	0.002
Chloroform	0.505	0.493	0.467	0.455	0.488
Chloromethane	0.513	0.497	0.475	0.519	0.557
2-Chlorotoluene	2.294	2.376	2.295	2.265	2.469
4-Chlorotoluene	2.173	2.242	2.235	2.272	2.423
Cyclohexane	0.507	0.546	0.510	0.500	0.554
Dibromochloromethane	0.395	0.408	0.424	0.416	0.430
1,2-Dibromo-3-chloropropane	0.086	0.086	0.084	0.074	0.094
1,2-Dibromoethane	0.324	0.307	0.341	0.313	0.338
Dibromomethane	0.119	0.110	0.108	0.111	0.121
1,2-Dichlorobenzene	1.024	1.152	1.170	1.166	1.265
t-Butyl alcohol	0.009	0.012	0.013	0.011	0.013
1,3-Dichlorobenzene	1.327	1.421	1.399	1.342	1.488
1,4-Dichlorobenzene	1.236	1.399	1.424	1.358	1.475
Dichlorodifluoromethane	0.346	0.361	0.350	0.398	0.428
1,1-Dichloroethane	0.521	0.515	0.522	0.515	0.560
1,2-Dichloroethane	0.273	0.294	0.276	0.265	0.289
1,1-Dichloroethene	0.213	0.204	0.230	0.219	0.226
cis-1,2-Dichloroethene	0.261	0.256	0.269	0.258	0.288
1,2-Dichloroethene(total)	0.262	0.261	0.262	0.259	0.280

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
trans-1,2-Dichloroethene	0.263	0.266	0.255	0.259	0.273
1,2-Dichloropropane	0.227	0.254	0.258	0.250	0.280
1,3-Dichloropropane	0.663	0.668	0.698	0.692	0.744
2,2-Dichloropropane	0.393	0.405	0.408	0.387	0.420
1,1-Dichloropropene	0.364	0.359	0.371	0.376	0.413
cis-1,3-Dichloropropene	0.343	0.332	0.347	0.352	0.404
trans-1,3-Dichloropropene	0.844	0.745	0.686	0.656	0.709
Ethylbenzene	2.874	2.567	2.695	2.591	2.754
Ethyl methacrylate	0.328	0.418	0.469	0.470	0.545
Hexachlorobutadiene	0.491	0.531	0.525	0.522	0.563
2-Hexanone	0.174	0.199	0.281	0.247	0.288
Iodomethane	0.110	0.159	0.186	0.178	0.229
Isopropylbenzene	1.972	1.976	2.091	2.157	2.361
p-Isopropyltoluene	2.642	2.733	2.753	2.835	3.041
Methyl acetate	0.175	0.125	0.128	0.124	0.140
Methylene chloride	0.278	0.269	0.257	0.246	0.258
Methyl cyclohexane	0.402	0.410	0.410	0.416	0.472
Methyl methacrylate	0.096	0.124	0.140	0.122	0.153
4-Methyl-2-pentanone	0.115	0.143	0.141	0.145	0.177
MTBE	0.271	0.280	0.307	0.294	0.332
Naphthalene	0.895	0.917	0.960	0.906	0.996
n-Propylbenzene	3.958	4.211	4.046	4.091	4.398
Styrene	1.210	1.214	1.355	1.340	1.521
1,1,1,2-Tetrachloroethane	0.448	0.469	0.468	0.450	0.478
1,1,2,2-Tetrachloroethane	0.575	0.601	0.574	0.528	0.610
Tetrachloroethene	0.508	0.545	0.536	0.534	0.567
Tetrahydrofuran	0.049	0.050	0.047	0.040	0.041
Toluene	1.422	1.345	1.343	1.363	1.386
1,2,3-Trichlorobenzene	0.634	0.645	0.636	0.586	0.644
1,2,4-Trichlorobenzene	0.713	0.732	0.743	0.708	0.764
1,1,1-Trichloroethane	0.380	0.373	0.380	0.362	0.397
1,1,2-Trichloroethane	0.309	0.301	0.308	0.303	0.320
Trichloroethene	0.237	0.251	0.261	0.248	0.271
Trichlorotrifluoroethane	0.236	0.255	0.247	0.258	0.275
Trichlorofluoromethane	0.383	0.393	0.398	0.396	0.420
1,2,3-Trichloropropane	0.115	0.100	0.106	0.100	0.115
1,2,4-Trimethylbenzene	2.614	2.567	2.617	2.564	2.720

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
1,3,5-Trimethylbenzene	2.374	2.459	2.496	2.543	2.739
Vinyl acetate	0.311	0.353	0.370	0.362	0.414
Vinyl chloride	0.497	0.478	0.481	0.489	0.548
m,p-Xylene	2.342	2.006	2.030	1.967	2.056
Xylene(total)	2.031	1.900	1.927	1.962	2.115
Di-Isopropyl Ether	0.896	0.931	0.950	0.938	1.054
ETBE	0.275	0.315	0.324	0.314	0.344
tert-Amyl Methyl Ether	0.374	0.207	0.244	0.209	0.217
Dibromofluoromethane	0.267	0.272	0.261	0.255	0.260
1,2-Dichloroethane-d4	0.049	0.048	0.051	0.048	0.047
Toluene-d8	2.343	2.233	2.245	2.230	2.071
Bromofluorobenzene	0.727	0.725	0.735	0.750	0.781

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
Acetone	0.052	0.045
Acrolein	0.018	0.023
Acrylonitrile	0.055	0.051
Benzene	1.004	0.966
Bromobenzene	0.655	0.655
Bromochloromethane	0.096	0.092
Bromodichloromethane	0.323	0.314
Bromoform	0.293	0.291
Bromomethane	0.266	0.254
2-Butanone	0.077	0.057
n-Butylbenzene	3.249	3.126
sec-Butylbenzene	3.940	3.819
tert-Butylbenzene	2.303	2.268
Carbon disulfide	0.942	0.912
Carbon tetrachloride	0.315	0.305
Chlorobenzene	1.332	1.233
Chloroethane	0.261	0.235
2-Chloroethyl vinyl ether	0.002	0.002
Chloroform	0.464	0.445
Chloromethane	0.488	0.418
2-Chlorotoluene	2.388	2.308
4-Chlorotoluene	2.329	2.284
Cyclohexane	0.528	0.512
Dibromochloromethane	0.408	0.364
1,2-Dibromo-3-chloropropane	0.082	0.081
1,2-Dibromoethane	0.318	0.286
Dibromomethane	0.114	0.111
1,2-Dichlorobenzene	1.210	1.162
t-Butyl alcohol	0.012	0.011
1,3-Dichlorobenzene	1.376	1.362
1,4-Dichlorobenzene	1.461	1.373
Dichlorodifluoromethane	0.375	0.323
1,1-Dichloroethane	0.526	0.508
1,2-Dichloroethane	0.270	0.251
1,1-Dichloroethene	0.231	0.223
cis-1,2-Dichloroethene	0.279	0.274
1,2-Dichloroethene(total)	0.277	0.272

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
trans-1,2-Dichloroethene	0.275	0.270
1,2-Dichloropropane	0.267	0.265
1,3-Dichloropropane	0.688	0.600
2,2-Dichloropropane	0.398	0.376
1,1-Dichloropropene	0.398	0.384
cis-1,3-Dichloropropene	0.386	0.380
trans-1,3-Dichloropropene	0.655	0.581
Ethylbenzene	2.540	2.325
Ethyl methacrylate	0.505	0.448
Hexachlorobutadiene	0.529	0.516
2-Hexanone	0.259	0.225
Iodomethane	0.246	0.258
Isopropylbenzene	2.218	1.992
p-Isopropyltoluene	2.918	2.806
Methyl acetate	0.128	0.118
Methylene chloride	0.254	0.243
Methyl cyclohexane	0.456	0.458
Methyl methacrylate	0.145	0.138
4-Methyl-2-pentanone	0.160	0.152
MTBE	0.320	0.302
Naphthalene	0.942	0.992
n-Propylbenzene	4.251	4.166
Styrene	1.454	1.331
1,1,1,2-Tetrachloroethane	0.445	0.413
1,1,2,2-Tetrachloroethane	0.566	0.533
Tetrachloroethene	0.537	0.506
Tetrahydrofuran	0.037	0.035
Toluene	1.280	1.166
1,2,3-Trichlorobenzene	0.612	0.601
1,2,4-Trichlorobenzene	0.711	0.716
1,1,1-Trichloroethane	0.379	0.366
1,1,2-Trichloroethane	0.293	0.261
Trichloroethene	0.262	0.264
Trichlorotrifluoroethane	0.260	0.250
Trichlorofluoromethane	0.389	0.367
1,2,3-Trichloropropane	0.107	0.091
1,2,4-Trimethylbenzene	2.612	2.538

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
1,3,5-Trimethylbenzene	2.618	2.562
Vinyl acetate	0.387	0.357
Vinyl chloride	0.486	0.405
m,p-Xylene	1.916	1.735
Xylene(total)	1.974	1.741
Di-Isopropyl Ether	1.004	0.956
ETBE	0.348	0.340
tert-Amyl Methyl Ether	0.217	0.220
Dibromofluoromethane	0.256	0.256
1,2-Dichloroethane-d4	0.048	0.045
Toluene-d8	2.020	1.872
Bromofluorobenzene	0.745	0.680

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	2ORDR	0.00000000	13.5039204	14.4405773	0.999
Acrolein	2ORDR	0.60711770	63.7820401	-27.768565	0.998
Acrylonitrile	AVRG		5.256e-002		5.1
Benzene	AVRG		0.95908096		5.1
Bromobenzene	AVRG		0.64495294		2.4
Bromochloromethane	AVRG		9.728e-002		4.4
Bromodichloromethane	AVRG		0.31902412		3.5
Bromoform	AVRG		0.27909436		9.4
Bromomethane	LINR	5.814e-002	0.25844053		0.999
2-Butanone	2ORDR	0.34351156	7.56609015	12.1758842	0.991
n-Butylbenzene	AVRG		3.19287183		5.4
sec-Butylbenzene	AVRG		3.79875604		6.0
tert-Butylbenzene	AVRG		2.20546706		5.0
Carbon disulfide	AVRG		0.92741070		3.0
Carbon tetrachloride	AVRG		0.31185292		2.7
Chlorobenzene	AVRG		1.35561613		4.8
Chloroethane	AVRG		0.24700252		4.9
2-Chloroethyl vinyl ether	2ORDR	0.00000000	374.422035	7159.01284	0.999
Chloroform	AVRG		0.47380323		4.6
Chloromethane	AVRG		0.49558195		8.7
2-Chlorotoluene	AVRG		2.34212574		3.1
4-Chlorotoluene	AVRG		2.27988480		3.5
Cyclohexane	AVRG		0.52243785		4.0
Dibromochloromethane	AVRG		0.40649160		5.4
1,2-Dibromo-3-chloropropane	AVRG		8.398e-002		7.0
1,2-Dibromoethane	AVRG		0.31820448		5.9
Dibromomethane	AVRG		0.11349610		4.4
1,2-Dichlorobenzene	AVRG		1.16436793		6.3
t-Butyl alcohol	AVRG		1.166e-002		12.6
1,3-Dichlorobenzene	AVRG		1.38785087		3.9
1,4-Dichlorobenzene	AVRG		1.38942571		5.8
Dichlorodifluoromethane	AVRG		0.36885863		9.5
1,1-Dichloroethane	AVRG		0.52377117		3.2
1,2-Dichloroethane	AVRG		0.27426910		5.3
1,1-Dichloroethene	AVRG		0.22093249		4.5
cis-1,2-Dichloroethene	AVRG		0.26928009		4.4
1,2-Dichloroethene(total)	AVRG		0.26756994		3.2

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
trans-1,2-Dichloroethene	AVRG		0.26585977		2.7
1,2-Dichloropropane	AVRG		0.25731588		6.5
1,3-Dichloropropane	AVRG		0.67917555		6.4
2,2-Dichloropropane	AVRG		0.39805329		3.6
1,1-Dichloropropene	AVRG		0.38088289		5.0
cis-1,3-Dichloropropene	AVRG		0.36348253		7.3
trans-1,3-Dichloropropene	AVRG		0.69656551		11.8
Ethylbenzene	AVRG		2.62096146		6.7
Ethyl methacrylate	2ORDR	7.095e-002	1.59662589	0.20497696	1.000
Hexachlorobutadiene	AVRG		0.52531975		4.0
2-Hexanone	2ORDR	0.13895197	2.93229294	0.48643415	1.000
Iodomethane	LINR	0.12480454	0.26044577		0.999
Isopropylbenzene	AVRG		2.10981471		6.9
p-Isopropyltoluene	AVRG		2.81821627		4.6
Methyl acetate	AVRG		0.13416015		14.4
Methylene chloride	LINR	0.00000000	0.24592172		0.999
Methyl cyclohexane	AVRG		0.43214247		6.6
Methyl methacrylate	AVRG		0.13138123		14.4
4-Methyl-2-pentanone	AVRG		0.14756271		12.8
MTBE	AVRG		0.30069016		7.1
Naphthalene	AVRG		0.94383947		4.3
n-Propylbenzene	AVRG		4.16020172		3.5
Styrene	AVRG		1.34655375		8.5
1,1,1,2-Tetrachloroethane	AVRG		0.45311473		4.8
1,1,2,2-Tetrachloroethane	AVRG		0.56967001		5.5
Tetrachloroethene	AVRG		0.53345036		4.0
Tetrahydrofuran	AVRG		4.264e-002		13.5
Toluene	AVRG		1.32934694		6.3
1,2,3-Trichlorobenzene	AVRG		0.62262275		3.7
1,2,4-Trichlorobenzene	AVRG		0.72675987		2.8
1,1,1-Trichloroethane	AVRG		0.37689248		3.0
1,1,2-Trichloroethane	AVRG		0.29951552		6.3
Trichloroethene	AVRG		0.25620482		4.5
Trichlorotrifluoroethane	AVRG		0.25455153		4.8
Trichlorofluoromethane	AVRG		0.39219196		4.1
1,2,3-Trichloropropane	AVRG		0.10495103		8.1
1,2,4-Trimethylbenzene	AVRG		2.60441398		2.3

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,3,5-Trimethylbenzene	AVRG		2.54165349		4.6
Vinyl acetate	AVRG		0.36491979		8.7
Vinyl chloride	AVRG		0.48374114		8.7
m,p-Xylene	AVRG		2.00735018		9.1
Xylene(total)	AVRG		1.94992620		6.0
Di-Isopropyl Ether	AVRG		0.96142124		5.4
ETBE	AVRG		0.32313439		7.8
tert-Amyl Methyl Ether	LINR	0.00000000	0.21892204		1.000
Dibromofluoromethane	AVRG		0.26113987		2.4
1,2-Dichloroethane-d4	AVRG		4.813e-002		3.9
Toluene-d8	AVRG		2.14493602		7.6
Bromofluorobenzene	AVRG		0.73492584		4.1

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
Acetone		0.023	0.034	0.031	0.067
Acrolein		0.003	0.002	0.005	0.006
Acrylonitrile	0.036	0.062	0.076	0.080	0.086
tert-Amyl Methyl Ether		1.264	0.925	0.796	0.628
Benzene		0.965	0.862	0.825	0.809
Bromobenzene		0.752	0.696	0.708	0.647
Bromochloromethane		0.156	0.142	0.144	0.136
Bromodichloromethane		0.348	0.284	0.290	0.267
Bromoform	0.396	0.395	0.416	0.445	0.391
Bromomethane		0.124	0.098	0.112	0.100
2-Butanone		0.172	0.233	0.252	0.086
t-Butyl alcohol		0.014	0.022	0.020	0.018
n-Butylbenzene		1.585	1.344	1.251	1.330
sec-Butylbenzene		2.420	2.036	1.968	1.990
tert-Butylbenzene		1.533	1.477	1.458	1.343
Carbon disulfide		0.844	0.742	0.730	0.723
Carbon tetrachloride		0.280	0.216	0.234	0.226
Chlorobenzene		1.691	1.527	1.525	1.442
Chloroethane		0.251	0.194	0.161	0.146
2-Chloroethyl vinyl ether	0.176	0.168	0.161	0.171	0.156
Chloroform		0.493	0.414	0.391	0.350
Chloromethane		0.231	0.198	0.194	0.180
2-Chlorotoluene		1.839	1.697	1.592	1.531
4-Chlorotoluene		2.342	1.934	1.807	1.815
Cyclohexane		0.389	0.301	0.336	0.315
Dibromochloromethane	0.800	0.646	0.609	0.614	0.613
1,2-Dibromo-3-chloropropane	0.127	0.158	0.152	0.135	0.138
1,2-Dibromoethane	0.683	0.643	0.589	0.636	0.579
Dibromomethane		0.176	0.167	0.168	0.150
1,2-Dichlorobenzene		1.183	1.093	1.040	1.079
1,3-Dichlorobenzene		1.303	1.294	1.151	1.164
1,4-Dichlorobenzene		1.414	1.137	1.227	1.169
Dichlorodifluoromethane		0.232	0.147	0.142	0.172
1,1-Dichloroethane		0.404	0.364	0.402	0.387
1,2-Dichloroethane		0.247	0.241	0.254	0.250
1,1-Dichloroethene		0.191	0.224	0.216	0.187
cis-1,2-Dichloroethene		0.325	0.220	0.259	0.236

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2-Dichloroethene(total)		0.294	0.251	0.258	0.228
trans-1,2-Dichloroethene		0.263	0.283	0.258	0.219
1,2-Dichloropropane		0.280	0.247	0.246	0.229
1,3-Dichloropropane	1.247	0.963	0.881	0.989	0.857
2,2-Dichloropropane		0.316	0.297	0.282	0.261
1,1-Dichloropropene		0.335	0.277	0.288	0.277
cis-1,3-Dichloropropene		0.444	0.354	0.371	0.369
trans-1,3-Dichloropropene		0.862	0.823	0.782	0.758
Ethylbenzene		2.748	2.407	2.346	2.264
Ethyl methacrylate	0.832	0.664	0.747	0.766	0.728
Hexachlorobutadiene		0.435	0.276	0.221	0.215
2-Hexanone		0.404	0.412	0.418	0.377
Iodomethane		0.172	0.153	0.189	0.151
Isopropylbenzene		2.169	1.823	1.892	1.660
p-Isopropyltoluene		2.016	1.657	1.612	1.555
Methyl acetate			0.059	0.064	0.172
Methylene chloride		0.308	0.281	0.235	0.185
Methyl cyclohexane		0.364	0.263	0.281	0.265
Methyl methacrylate		0.210	0.181	0.190	0.187
4-Methyl-2-pentanone	0.305	0.251	0.254	0.231	0.216
MTBE	0.553	0.577	0.595	0.591	0.567
Naphthalene		1.865	1.446	1.386	1.269
n-Propylbenzene		2.870	2.773	2.617	2.514
Styrene		1.544	1.450	1.646	1.492
1,1,1,2-Tetrachloroethane		0.559	0.560	0.552	0.520
1,1,2,2-Tetrachloroethane		0.615	0.660	0.735	0.661
Tetrachloroethene		0.567	0.546	0.551	0.501
Tetrahydrofuran		0.072	0.070	0.072	0.057
Toluene		1.574	1.311	1.364	1.206
1,2,3-Trichlorobenzene		0.609	0.515	0.483	0.453
1,2,4-Trichlorobenzene		0.665	0.514	0.512	0.504
1,1,1-Trichloroethane		0.328	0.271	0.277	0.258
1,1,2-Trichloroethane	0.863	0.652	0.589	0.463	0.442
Trichloroethene		0.302	0.229	0.244	0.217
Trichlorofluoromethane		0.306	0.262	0.274	0.277
Trichlorotrifluoroethane	0.227	0.219	0.190	0.196	0.198
1,2,3-Trichloropropane		0.222	0.214	0.201	0.171

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2,4-Trimethylbenzene		1.900	1.533	1.621	1.576
1,3,5-Trimethylbenzene		1.924	1.620	1.646	1.656
Vinyl acetate		0.131	0.329	0.002	0.426
Vinyl chloride		0.278	0.232	0.225	0.210
m,p-Xylene		2.111	1.902	1.695	1.606
Xylene(total)		2.156	1.844	1.898	1.662
Di-isopropyl ether		0.766	0.792	0.815	0.790
ETBE		0.722	0.705	0.691	0.677
Dibromofluoromethane	0.295	0.291	0.286	0.292	0.290
1,2-Dichloroethane-d4	0.069	0.072	0.067	0.069	0.068
Toluene-d8	2.355	2.366	2.334	2.445	2.285
Bromofluorobenzene	0.921	0.913	0.904	0.945	0.922

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
Acetone	0.072	0.076	0.068	0.079
Acrolein	0.007	0.005	0.010	0.011
Acrylonitrile	0.089	0.088	0.085	0.094
tert-Amyl Methyl Ether	0.636	0.619	0.581	0.637
Benzene	0.832	0.813	0.774	0.812
Bromobenzene	0.662	0.654	0.624	0.713
Bromochloromethane	0.143	0.140	0.131	0.149
Bromodichloromethane	0.286	0.281	0.262	0.291
Bromoform	0.420	0.417	0.378	0.424
Bromomethane	0.100	0.102	0.119	
2-Butanone	0.098	0.104	0.100	0.115
t-Butyl alcohol	0.019	0.019	0.018	0.020
n-Butylbenzene	1.334	1.306	1.282	1.344
sec-Butylbenzene	2.018	1.975	1.872	2.003
tert-Butylbenzene	1.372	1.339	1.234	1.442
Carbon disulfide	0.736	0.726	0.707	0.790
Carbon tetrachloride	0.231	0.229	0.225	0.245
Chlorobenzene	1.432	1.414	1.283	1.316
Chloroethane	0.174	0.175	0.166	0.181
2-Chloroethyl vinyl ether	0.166	0.161	0.156	0.167
Chloroform	0.371	0.361	0.340	0.376
Chloromethane	0.180	0.171	0.165	0.212
2-Chlorotoluene	1.563	1.493	1.418	1.657
4-Chlorotoluene	1.728	1.738	1.649	1.793
Cyclohexane	0.326	0.313	0.305	0.331
Dibromochloromethane	0.621	0.616	0.564	0.611
1,2-Dibromo-3-chloropropane	0.139	0.140	0.133	0.158
1,2-Dibromoethane	0.589	0.588	0.529	0.566
Dibromomethane	0.160	0.162	0.150	0.168
1,2-Dichlorobenzene	1.081	1.059	1.001	1.102
1,3-Dichlorobenzene	1.131	1.091	1.124	1.206
1,4-Dichlorobenzene	1.244	1.236	1.092	1.238
Dichlorodifluoromethane	0.195	0.191	0.188	0.203
1,1-Dichloroethane	0.395	0.395	0.380	0.426
1,2-Dichloroethane	0.257	0.250	0.237	0.269
1,1-Dichloroethene	0.188	0.184	0.181	0.201
cis-1,2-Dichloroethene	0.241	0.241	0.228	0.258

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2-Dichloroethene(total)	0.231	0.230	0.217	0.248
trans-1,2-Dichloroethene	0.221	0.219	0.206	0.238
1,2-Dichloropropane	0.242	0.239	0.229	0.251
1,3-Dichloropropane	0.902	0.858	0.810	0.845
2,2-Dichloropropane	0.266	0.254	0.236	0.270
1,1-Dichloropropene	0.284	0.270	0.268	0.292
cis-1,3-Dichloropropene	0.386	0.378	0.343	0.387
trans-1,3-Dichloropropene	0.782	0.752	0.672	0.723
Ethylbenzene	2.174	2.172	1.934	1.980
Ethyl methacrylate	0.753	0.742	0.702	0.736
Hexachlorobutadiene	0.213	0.222	0.220	0.253
2-Hexanone	0.389	0.388	0.350	0.365
Iodomethane	0.261	0.308	0.307	0.343
Isopropylbenzene	1.688	1.649	1.518	1.586
p-Isopropyltoluene	1.571	1.564	1.495	1.594
Methyl acetate	0.200	0.210	0.205	0.233
Methylene chloride	0.238	0.248	0.227	0.267
Methyl cyclohexane	0.262	0.252	0.246	0.272
Methyl methacrylate	0.204	0.196	0.188	0.210
4-Methyl-2-pentanone	0.232	0.222	0.214	0.229
MTBE	0.574	0.578	0.552	0.619
Naphthalene	1.295	1.318	1.330	1.547
n-Propylbenzene	2.476	2.345	2.259	2.426
Styrene	1.507	1.506	1.334	1.396
1,1,1,2-Tetrachloroethane	0.544	0.531	0.478	0.517
1,1,2,2-Tetrachloroethane	0.628	0.594	0.538	0.587
Tetrachloroethene	0.513	0.504	0.457	0.513
Tetrahydrofuran	0.063	0.062	0.060	0.067
Toluene	1.218	1.206	1.101	1.175
1,2,3-Trichlorobenzene	0.459	0.475	0.477	0.556
1,2,4-Trichlorobenzene	0.499	0.522	0.519	0.609
1,1,1-Trichloroethane	0.258	0.255	0.244	0.271
1,1,2-Trichloroethane	0.441	0.440	0.394	0.421
Trichloroethene	0.235	0.232	0.220	0.240
Trichlorofluoromethane	0.280	0.273	0.267	0.291
Trichlorotrifluoroethane	0.202	0.193	0.190	0.210
1,2,3-Trichloropropane	0.180	0.180	0.165	0.178

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2,4-Trimethylbenzene	1.605	1.618	1.492	1.727
1,3,5-Trimethylbenzene	1.618	1.624	1.509	1.686
Vinyl acetate	0.461	0.456	0.435	0.498
Vinyl chloride	0.240	0.230	0.215	0.231
m,p-Xylene	1.627	1.555	1.384	1.330
Xylene(total)	1.709	1.694	1.464	1.511
Di-isopropyl ether	0.811	0.817	0.771	0.825
ETBE	0.688	0.682	0.624	0.704
Dibromofluoromethane	0.289	0.290	0.287	0.288
1,2-Dichloroethane-d4	0.071	0.070	0.067	0.067
Toluene-d8	2.227	2.254	2.182	2.094
Bromofluorobenzene	0.894	0.899	0.844	0.846

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	0.13814650	7.785e-002		0.996
Acrolein	2ORDR	0.65081970	119.788705	-87.944401	0.991
Acrylonitrile	LINR	0.19500180	9.251e-002		0.998
tert-Amyl Methyl Ether	LINR	1.561e-002	0.62830188		0.998
Benzene	AVRG		0.83656637		6.8
Bromobenzene	AVRG		0.68208070		6.2
Bromochloromethane	AVRG		0.14257786		5.4
Bromodichloromethane	AVRG		0.28850416		9.0
Bromoform	AVRG		0.40895524		5.0
Bromomethane	LINR	5.007e-002	0.11803720		0.995
2-Butanone	LINR	0.11488890	0.11319996		0.996
t-Butyl alcohol	AVRG		1.88e-002		13.2
n-Butylbenzene	AVRG		1.34707258		7.5
sec-Butylbenzene	AVRG		2.03544522		8.0
tert-Butylbenzene	AVRG		1.39977298		6.8
Carbon disulfide	AVRG		0.74980684		6.0
Carbon tetrachloride	AVRG		0.23569177		8.4
Chlorobenzene	AVRG		1.45381447		8.9
Chloroethane	LINR	3.94e-002	0.17968102		0.998
2-Chloroethyl vinyl ether	AVRG		0.16473216		4.1
Chloroform	AVRG		0.38694831		12.6
Chloromethane	AVRG		0.19154436		11.6
2-Chlorotoluene	AVRG		1.59895878		8.2
4-Chlorotoluene	AVRG		1.85083933		11.6
Cyclohexane	AVRG		0.32708316		8.5
Dibromochloromethane	AVRG		0.63267800		10.4
1,2-Dibromo-3-chloropropane	AVRG		0.14246472		7.8
1,2-Dibromoethane	AVRG		0.60023695		7.7
Dibromomethane	AVRG		0.16249118		5.6
1,2-Dichlorobenzene	AVRG		1.07974751		4.9
1,3-Dichlorobenzene	AVRG		1.18296360		6.6
1,4-Dichlorobenzene	AVRG		1.21963487		7.9
Dichlorodifluoromethane	LINR	4.709e-002	0.20187699		0.999
1,1-Dichloroethane	AVRG		0.39420209		4.6
1,2-Dichloroethane	AVRG		0.25058987		3.9
1,1-Dichloroethene	AVRG		0.19642410		8.1
cis-1,2-Dichloroethene	AVRG		0.25110613		13.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethene(total)	AVRG		0.24475764		9.9
trans-1,2-Dichloroethene	AVRG		0.23840845		11.3
1,2-Dichloropropane	AVRG		0.24543798		6.6
1,3-Dichloropropane	AVRG		0.92824027		14.3
2,2-Dichloropropane	AVRG		0.27274572		9.2
1,1-Dichloropropene	AVRG		0.28643302		7.5
cis-1,3-Dichloropropene	AVRG		0.37910192		8.0
trans-1,3-Dichloropropene	AVRG		0.76953028		7.6
Ethylbenzene	AVRG		2.25303578		11.5
Ethyl methacrylate	AVRG		0.74103403		6.2
Hexachlorobutadiene	LINR	7.926e-002	0.24971056		0.996
2-Hexanone	AVRG		0.38791504		6.0
Iodomethane	LINR	0.11299880	0.34236904		0.997
Isopropylbenzene	AVRG		1.74805832		11.9
p-Isopropyltoluene	AVRG		1.63317924		9.9
Methyl acetate	LINR	0.11167210	0.23229375		0.997
Methylene chloride	LINR	8.067e-002	0.26406645		0.995
Methyl cyclohexane	AVRG		0.27572134		13.6
Methyl methacrylate	AVRG		0.19588790		5.6
4-Methyl-2-pentanone	AVRG		0.23950959		11.8
MTBE	AVRG		0.57855377		3.6
Naphthalene	AVRG		1.43185685		13.8
n-Propylbenzene	AVRG		2.53507642		8.2
Styrene	AVRG		1.48460400		6.4
1,1,1,2-Tetrachloroethane	AVRG		0.53258117		5.2
1,1,2,2-Tetrachloroethane	AVRG		0.62747353		9.4
Tetrachloroethene	AVRG		0.51894705		6.7
Tetrahydrofuran	LINR	5.388e-002	6.645e-002		0.997
Toluene	AVRG		1.26938125		11.6
1,2,3-Trichlorobenzene	AVRG		0.50346084		10.7
1,2,4-Trichlorobenzene	AVRG		0.54297742		11.1
1,1,1-Trichloroethane	AVRG		0.27018619		9.5
1,1,2-Trichloroethane	LINR	0.00000000	0.41743654		0.999
Trichloroethene	AVRG		0.23984123		11.2
Trichlorofluoromethane	AVRG		0.27880290		5.0
Trichlorotrifluoroethane	AVRG		0.20298385		6.5
1,2,3-Trichloropropane	AVRG		0.18897686		11.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2,4-Trimethylbenzene	AVRG		1.63429935		7.8
1,3,5-Trimethylbenzene	AVRG		1.66060907		7.1
Vinyl acetate	LINR	0.15837030	0.49298631		0.996
Vinyl chloride	AVRG		0.23258149		8.8
m,p-Xylene	LINR	0.00000000	1.35573342		0.997
Xylene(total)	AVRG		1.74232426		12.8
Di-isopropyl ether	AVRG		0.79849417		2.8
ETBE	AVRG		0.68656222		4.3
Dibromofluoromethane	AVRG		0.28977178		0.9
1,2-Dichloroethane-d4	AVRG		6.887e-002		2.3
Toluene-d8	AVRG		2.28240292		4.7
Bromofluorobenzene	AVRG		0.89868225		3.8

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date: 03/27/09 Time: 1238

Lab File ID: V1ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.070	0.048	100.0	75.11		2ORDR	-24.9	25.0	
Acrolein	0.014	0.012	250.0	194.1		2ORDR	-22.4	25.0	
Acrylonitrile	0.052	0.053	250.0	253.0		AVRG	1.2	25.0	
Benzene	0.959	1.007	50.00	52.48		AVRG	5.0	25.0	
Bromobenzene	0.645	0.641	50.00	49.68		AVRG	-0.6	25.0	
Bromochloromethane	0.097	0.089	50.00	45.87		AVRG	-8.2	25.0	
Bromodichloromethane	0.319	0.322	50.00	50.53		AVRG	1.1	25.0	
Bromoform	0.279	0.272	50.00	48.68	0.100	AVRG	-2.6	25.0	
Bromomethane	0.219	0.251	50.00	50.37		LINR	0.7	25.0	
2-Butanone	0.063	0.068	100.0	81.15		2ORDR	-18.8	25.0	
n-Butylbenzene	3.193	3.208	50.00	50.24		AVRG	0.5	25.0	
sec-Butylbenzene	3.798	4.121	50.00	54.25		AVRG	8.5	25.0	
tert-Butylbenzene	2.205	2.317	50.00	52.53		AVRG	5.1	25.0	
Carbon disulfide	0.927	1.010	50.00	54.46		AVRG	8.9	25.0	
Carbon tetrachloride	0.312	0.305	50.00	48.94		AVRG	-2.1	25.0	
Chlorobenzene	1.355	1.361	50.00	50.22	0.300	AVRG	0.4	25.0	
Chloroethane	0.247	0.275	50.00	55.71		AVRG	11.4	25.0	
2-Chloroethyl vinyl ether	0.003	0.002	100.0	95.42		2ORDR	-4.6	25.0	
Chloroform	0.474	0.438	50.00	46.28		AVRG	-7.4	25.0	
Chloromethane	0.495	0.529	50.00	53.41	0.100	AVRG	6.8	25.0	
2-Chlorotoluene	2.342	2.433	50.00	51.95		AVRG	3.9	25.0	
4-Chlorotoluene	2.280	2.400	50.00	52.63		AVRG	5.2	25.0	
Cyclohexane	0.522	0.531	50.00	50.82		AVRG	1.6	25.0	
Dibromochloromethane	0.406	0.420	50.00	51.61		AVRG	3.2	25.0	
1,2-Dibromo-3-chloropropane	0.084	0.081	50.00	48.50		AVRG	-3.0	25.0	
1,2-Dibromoethane	0.318	0.310	50.00	48.69		AVRG	-2.6	25.0	
Dibromomethane	0.113	0.104	50.00	46.08		AVRG	-7.8	25.0	
1,2-Dichlorobenzene	1.164	1.201	50.00	51.56		AVRG	3.1	25.0	
t-Butyl alcohol	0.012	0.012	250.0	248.7		AVRG	-0.5	25.0	
1,3-Dichlorobenzene	1.388	1.399	50.00	50.39		AVRG	0.8	25.0	
1,4-Dichlorobenzene	1.389	1.466	50.00	52.76		AVRG	5.5	25.0	
Dichlorodifluoromethane	0.369	0.463	50.00	62.81		AVRG	25.6	25.0	<
1,1-Dichloroethane	0.524	0.515	50.00	49.14	0.100	AVRG	-1.7	25.0	
1,2-Dichloroethane	0.274	0.271	50.00	49.38		AVRG	-1.2	25.0	
1,1-Dichloroethene	0.221	0.230	50.00	52.03		AVRG	4.0	25.0	
cis-1,2-Dichloroethene	0.269	0.255	50.00	47.37		AVRG	-5.2	25.0	
1,2-Dichloroethene(total)	0.268	0.266	100.0	99.34		AVRG	-0.7	25.0	

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date: 03/27/09 Time: 1238

Lab File ID: V1ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
trans-1,2-Dichloroethene	0.266	0.276	50.00	52.00		AVRG	4.0	25.0
1,2-Dichloropropane	0.257	0.264	50.00	51.24		AVRG	2.5	25.0
1,3-Dichloropropane	0.679	0.680	50.00	50.08		AVRG	0.2	25.0
2,2-Dichloropropane	0.398	0.379	50.00	47.65		AVRG	-4.7	25.0
1,1-Dichloropropene	0.381	0.404	50.00	53.06		AVRG	6.1	25.0
cis-1,3-Dichloropropene	0.363	0.375	50.00	51.58		AVRG	3.2	25.0
trans-1,3-Dichloropropene	0.696	0.681	50.00	48.86		AVRG	-2.3	25.0
Ethylbenzene	2.621	2.662	50.00	50.78		AVRG	1.6	25.0
Ethyl methacrylate	0.455	0.494	50.00	45.71		2ORDR	-8.6	25.0
Hexachlorobutadiene	0.525	0.586	50.00	55.75		AVRG	11.5	25.0
2-Hexanone	0.239	0.248	100.0	86.90		2ORDR	-13.1	25.0
Iodomethane	0.195	0.234	50.00	48.70		LINR	-2.6	25.0
Isopropylbenzene	2.110	2.614	50.00	61.96		AVRG	23.9	25.0
p-Isopropyltoluene	2.818	3.072	50.00	54.50		AVRG	9.0	25.0
Methyl acetate	0.134	0.120	50.00	44.94		AVRG	-10.1	25.0
Methylene chloride	0.258	0.234	50.00	47.50		LINR	-5.0	25.0
Methyl cyclohexane	0.432	0.443	50.00	51.27		AVRG	2.5	25.0
Methyl methacrylate	0.131	0.134	50.00	51.12		AVRG	2.2	25.0
4-Methyl-2-pentanone	0.148	0.153	100.0	103.7		AVRG	3.7	25.0
MTBE	0.301	0.290	50.00	48.20		AVRG	-3.6	25.0
Naphthalene	0.944	0.958	50.00	50.74		AVRG	1.5	25.0
n-Propylbenzene	4.160	4.184	50.00	50.29		AVRG	0.6	25.0
Styrene	1.346	1.478	50.00	54.90		AVRG	9.8	25.0
1,1,1,2-Tetrachloroethane	0.453	0.451	50.00	49.82		AVRG	-0.4	25.0
1,1,2,2-Tetrachloroethane	0.570	0.574	50.00	50.34	0.300	AVRG	0.7	25.0
Tetrachloroethene	0.533	0.517	50.00	48.49		AVRG	-3.0	25.0
Tetrahydrofuran	0.043	0.037	50.00	43.32		AVRG	-13.4	25.0
Toluene	1.329	1.374	50.00	51.68		AVRG	3.4	25.0
1,2,3-Trichlorobenzene	0.622	0.597	50.00	47.97		AVRG	-4.0	25.0
1,2,4-Trichlorobenzene	0.727	0.726	50.00	49.98		AVRG	-0.0	25.0
1,1,1-Trichloroethane	0.377	0.356	50.00	47.27		AVRG	-5.5	25.0
1,1,2-Trichloroethane	0.299	0.284	50.00	47.39		AVRG	-5.2	25.0
Trichloroethene	0.256	0.253	50.00	49.38		AVRG	-1.2	25.0
Trichlorotrifluoroethane	0.254	0.274	50.00	53.92		AVRG	7.8	25.0
Trichlorofluoromethane	0.392	0.415	50.00	52.90		AVRG	5.8	25.0
1,2,3-Trichloropropane	0.105	0.096	50.00	45.91		AVRG	-8.2	25.0
1,2,4-Trimethylbenzene	2.604	2.633	50.00	50.55		AVRG	1.1	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date: 03/27/09 Time: 1238

Lab File ID: V1ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,3,5-Trimethylbenzene	2.542	2.648	50.00	52.08		AVRG	4.2	25.0
Vinyl acetate	0.365	0.384	100.0	105.1		AVRG	5.1	25.0
Vinyl chloride	0.483	0.524	50.00	54.14		AVRG	8.3	25.0
Xylene(total)	1.950	2.041	150.0	154.7		AVRG	4.6	25.0
Di-Isopropyl Ether	0.961	0.984	50.00	51.19		AVRG	2.4	25.0
ETBE	0.323	0.315	50.00	48.77		AVRG	-2.5	25.0
tert-Amyl Methyl Ether	0.241	0.196	50.00	44.69		LINR	-10.6	25.0
Dibromofluoromethane	0.261	0.257	30.00	29.48		AVRG	-1.7	25.0
1,2-Dichloroethane-d4	0.048	0.046	30.00	28.86		AVRG	-3.8	25.0
Toluene-d8	2.145	2.117	30.00	29.61		AVRG	-1.3	25.0
Bromofluorobenzene	0.735	0.744	30.00	30.37		AVRG	1.2	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA69921

Instrument ID: VOA4 Calibration Date: 03/27/09 Time: 1429

Lab File ID: V4ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.056	0.072	100.0	127.3		AVRG	27.3	25.0	<
Acrolein	0.006	0.017	250.0	706.1		AVRG	182.4	25.0	<
Acrylonitrile	0.077	0.090	250.0	290.4		AVRG	16.2	25.0	
tert-Amyl Methyl Ether	0.761	0.633	50.00	41.57		AVRG	-16.9	25.0	
Benzene	0.836	0.869	50.00	51.96		AVRG	3.9	25.0	
Bromobenzene	0.682	0.708	50.00	51.91		AVRG	3.8	25.0	
Bromochloromethane	0.143	0.134	50.00	47.07		AVRG	-5.9	25.0	
Bromodichloromethane	0.289	0.291	50.00	50.50		AVRG	1.0	25.0	
Bromoform	0.409	0.401	50.00	49.06	0.100	AVRG	-1.9	25.0	
Bromomethane	0.108	0.114	50.00	52.92		AVRG	5.8	25.0	
2-Butanone	0.145	0.105	100.0	72.35		AVRG	-27.6	25.0	<
t-Butyl alcohol	0.019	0.019	250.0	255.3		AVRG	2.1	25.0	
n-Butylbenzene	1.347	1.407	50.00	52.22		AVRG	4.4	25.0	
sec-Butylbenzene	2.035	2.223	50.00	54.60		AVRG	9.2	25.0	
tert-Butylbenzene	1.400	1.494	50.00	53.39		AVRG	6.8	25.0	
Carbon disulfide	0.750	0.823	50.00	54.86		AVRG	9.7	25.0	
Carbon tetrachloride	0.236	0.239	50.00	50.78		AVRG	1.6	25.0	
Chlorobenzene	1.454	1.485	50.00	51.06	0.300	AVRG	2.1	25.0	
Chloroethane	0.181	0.187	50.00	51.61		AVRG	3.2	25.0	
2-Chloroethyl vinyl ether	0.165	0.175	100.0	106.3		AVRG	6.3	25.0	
Chloroform	0.387	0.356	50.00	46.00		AVRG	-8.0	25.0	
Chloromethane	0.191	0.178	50.00	46.49	0.100	AVRG	-7.0	25.0	
2-Chlorotoluene	1.599	1.666	50.00	52.10		AVRG	4.2	25.0	
4-Chlorotoluene	1.851	1.952	50.00	52.73		AVRG	5.4	25.0	
Cyclohexane	0.327	0.323	50.00	49.44		AVRG	-1.1	25.0	
Dibromochloromethane	0.633	0.623	50.00	49.26		AVRG	-1.5	25.0	
1,2-Dibromo-3-chloropropane	0.142	0.135	50.00	47.32		AVRG	-5.4	25.0	
1,2-Dibromoethane	0.600	0.558	50.00	46.44		AVRG	-7.1	25.0	
Dibromomethane	0.163	0.151	50.00	46.60		AVRG	-6.8	25.0	
1,2-Dichlorobenzene	1.080	1.122	50.00	51.95		AVRG	3.9	25.0	
1,3-Dichlorobenzene	1.183	1.244	50.00	52.59		AVRG	5.2	25.0	
1,4-Dichlorobenzene	1.220	1.263	50.00	51.79		AVRG	3.6	25.0	
Dichlorodifluoromethane	0.184	0.235	50.00	63.87		AVRG	27.7	25.0	<
1,1-Dichloroethane	0.394	0.412	50.00	52.29	0.100	AVRG	4.6	25.0	
1,2-Dichloroethane	0.251	0.260	50.00	51.79		AVRG	3.6	25.0	
1,1-Dichloroethene	0.196	0.202	50.00	51.48		AVRG	3.0	25.0	
cis-1,2-Dichloroethene	0.251	0.242	50.00	48.17		AVRG	-3.6	25.0	

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA69921

Instrument ID: VOA4 Calibration Date: 03/27/09 Time: 1429

Lab File ID: V4ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
1,2-Dichloroethene(total)	0.245	0.241	100.0	98.52		AVRG	-1.5	25.0	
trans-1,2-Dichloroethene	0.238	0.240	50.00	50.41		AVRG	0.8	25.0	
1,2-Dichloropropane	0.245	0.248	50.00	50.63		AVRG	1.3	25.0	
1,3-Dichloropropane	0.928	0.846	50.00	45.57		AVRG	-8.8	25.0	
2,2-Dichloropropane	0.273	0.262	50.00	47.97		AVRG	-4.0	25.0	
1,1-Dichloropropene	0.286	0.296	50.00	51.72		AVRG	3.4	25.0	
cis-1,3-Dichloropropene	0.379	0.378	50.00	49.84		AVRG	-0.3	25.0	
trans-1,3-Dichloropropene	0.769	0.775	50.00	50.34		AVRG	0.7	25.0	
Ethylbenzene	2.253	2.270	50.00	50.37		AVRG	0.7	25.0	
Ethyl methacrylate	0.741	0.738	50.00	49.81		AVRG	-0.4	25.0	
Hexachlorobutadiene	0.257	0.268	50.00	52.13		AVRG	4.2	25.0	
2-Hexanone	0.388	0.380	100.0	98.05		AVRG	-1.9	25.0	
Iodomethane	0.236	0.341	50.00	72.32		AVRG	44.6	25.0	<
Isopropylbenzene	1.748	1.996	50.00	57.08		AVRG	14.2	25.0	
p-Isopropyltoluene	1.633	1.766	50.00	54.08		AVRG	8.2	25.0	
Methyl acetate	0.163	0.213	50.00	65.30		AVRG	30.6	25.0	<
Methylene chloride	0.249	0.248	50.00	49.80		AVRG	-0.4	25.0	
Methyl cyclohexane	0.276	0.257	50.00	46.67		AVRG	-6.6	25.0	
Methyl methacrylate	0.196	0.197	50.00	50.24		AVRG	0.5	25.0	
4-Methyl-2-pentanone	0.239	0.230	100.0	95.95		AVRG	-4.0	25.0	
MTBE	0.578	0.576	50.00	49.82		AVRG	-0.3	25.0	
Naphthalene	1.432	1.452	50.00	50.70		AVRG	1.4	25.0	
n-Propylbenzene	2.535	2.592	50.00	51.12		AVRG	2.2	25.0	
Styrene	1.484	1.470	50.00	49.52		AVRG	-1.0	25.0	
1,1,1,2-Tetrachloroethane	0.533	0.543	50.00	51.01		AVRG	2.0	25.0	
1,1,2,2-Tetrachloroethane	0.627	0.622	50.00	49.56	0.300	AVRG	-0.9	25.0	
Tetrachloroethene	0.519	0.506	50.00	48.72		AVRG	-2.5	25.0	
Tetrahydrofuran	0.065	0.063	50.00	48.48		AVRG	-3.0	25.0	
Toluene	1.269	1.272	50.00	50.12		AVRG	0.2	25.0	
1,2,3-Trichlorobenzene	0.503	0.504	50.00	50.01		AVRG	0.0	25.0	
1,2,4-Trichlorobenzene	0.543	0.576	50.00	53.06		AVRG	6.1	25.0	
1,1,1-Trichloroethane	0.270	0.255	50.00	47.27		AVRG	-5.4	25.0	
1,1,2-Trichloroethane	0.523	0.418	50.00	39.95		AVRG	-20.1	25.0	
Trichloroethene	0.240	0.244	50.00	50.89		AVRG	1.8	25.0	
Trichlorofluoromethane	0.279	0.286	50.00	51.28		AVRG	2.6	25.0	
Trichlorotrifluoroethane	0.203	0.210	50.00	51.84		AVRG	3.7	25.0	
1,2,3-Trichloropropane	0.189	0.167	50.00	44.19		AVRG	-11.6	25.0	

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA69921

Instrument ID: VOA4 Calibration Date: 03/27/09 Time: 1429

Lab File ID: V4ICV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
1,2,4-Trimethylbenzene	1.634	1.825	50.00	55.82		AVRG	11.6	25.0	
1,3,5-Trimethylbenzene	1.660	1.747	50.00	52.61		AVRG	5.2	25.0	
Vinyl acetate	0.342	0.463	100.0	135.2		AVRG	35.2	25.0	<
Vinyl chloride	0.233	0.250	50.00	53.76		AVRG	7.5	25.0	
Xylene(total)	1.742	1.750	150.0	144.4		AVRG	0.4	25.0	
Di-isopropyl ether	0.798	0.848	50.00	53.07		AVRG	6.1	25.0	
ETBE	0.687	0.696	50.00	50.72		AVRG	1.4	25.0	
Dibromofluoromethane	0.290	0.288	30.00	29.79		AVRG	-0.7	25.0	
1,2-Dichloroethane-d4	0.069	0.067	30.00	29.06		AVRG	-3.1	25.0	
Toluene-d8	2.282	2.254	30.00	29.63		AVRG	-1.2	25.0	
Bromofluorobenzene	0.899	0.860	30.00	28.71		AVRG	-4.3	25.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	RRF	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.056	0.114	200.0	298.1		LINR	49.0	
Acrolein	0.006	0.010	500.0	547.5		2ORDR	9.5	
Acrylonitrile	0.077	0.100	500.0	546.6		LINR	9.3	
tert-Amyl Methyl Ether	0.761	0.645	100.0	103.2		LINR	3.2	
Benzene	0.836	0.808	100.0	96.58		AVRG	-3.4	
Bromobenzene	0.682	0.646	100.0	94.76		AVRG	-5.2	
Bromochloromethane	0.143	0.127	100.0	88.91		AVRG	-11.1	
Bromodichloromethane	0.289	0.290	100.0	100.5		AVRG	0.5	
Bromoform	0.409	0.361	100.0	88.31	0.100	AVRG	-11.7	
Bromomethane	0.108	0.135	100.0	115.7		LINR	15.7	
2-Butanone	0.145	0.139	200.0	249.0		LINR	24.5	
t-Butyl alcohol	0.019	0.019	500.0	498.2		AVRG	-0.4	
n-Butylbenzene	1.347	1.428	100.0	106.0		AVRG	6.0	
sec-Butylbenzene	2.035	2.125	100.0	104.4		AVRG	4.4	
tert-Butylbenzene	1.400	1.460	100.0	104.3		AVRG	4.3	
Carbon disulfide	0.750	0.733	100.0	97.73		AVRG	-2.3	
Carbon tetrachloride	0.236	0.236	100.0	100.2		AVRG	0.2	
Chlorobenzene	1.454	1.338	100.0	92.06	0.300	AVRG	-7.9	
Chloroethane	0.181	0.194	100.0	109.0		LINR	9.0	
2-Chloroethyl vinyl ether	0.165	0.179	200.0	217.1		AVRG	8.6	
Chloroform	0.387	0.376	100.0	97.30		AVRG	-2.7	20.0
Chloromethane	0.191	0.230	100.0	120.1	0.100	AVRG	20.1	
2-Chlorotoluene	1.599	1.723	100.0	107.8		AVRG	7.8	
4-Chlorotoluene	1.851	1.897	100.0	102.5		AVRG	2.5	
Cyclohexane	0.327	0.345	100.0	105.6		AVRG	5.6	
Dibromochloromethane	0.633	0.575	100.0	90.86		AVRG	-9.1	
1,2-Dibromo-3-chloropropane	0.142	0.138	100.0	97.25		AVRG	-2.7	
1,2-Dibromoethane	0.600	0.562	100.0	93.69		AVRG	-6.3	
Dibromomethane	0.163	0.160	100.0	98.61		AVRG	-1.4	
1,2-Dichlorobenzene	1.080	1.088	100.0	100.7		AVRG	0.7	
1,3-Dichlorobenzene	1.183	1.121	100.0	94.80		AVRG	-5.2	
1,4-Dichlorobenzene	1.220	1.231	100.0	100.9		AVRG	0.9	
Dichlorodifluoromethane	0.184	0.204	100.0	102.4		LINR	2.4	
1,1-Dichloroethane	0.394	0.444	100.0	112.5	0.100	AVRG	12.5	
1,2-Dichloroethane	0.251	0.298	100.0	119.1		AVRG	19.1	
1,1-Dichloroethene	0.196	0.180	100.0	91.74		AVRG	-8.2	20.0
cis-1,2-Dichloroethene	0.251	0.240	100.0	95.49		AVRG	-4.5	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene(total)	0.245	0.228	200.0	186.0		AVRG	-7.0	
trans-1,2-Dichloroethene	0.238	0.216	100.0	90.39		AVRG	-9.6	
1,2-Dichloropropane	0.245	0.261	100.0	106.4		AVRG	6.4	20.0
1,3-Dichloropropane	0.928	0.860	100.0	92.60		AVRG	-7.4	
2,2-Dichloropropane	0.273	0.288	100.0	105.8		AVRG	5.8	
1,1-Dichloropropene	0.286	0.281	100.0	98.03		AVRG	-2.0	
cis-1,3-Dichloropropene	0.379	0.384	100.0	101.3		AVRG	1.3	
trans-1,3-Dichloropropene	0.769	0.748	100.0	97.28		AVRG	-2.7	
Ethylbenzene	2.253	2.022	100.0	89.73		AVRG	-10.3	20.0
Ethyl methacrylate	0.741	0.729	100.0	98.33		AVRG	-1.7	
Hexachlorobutadiene	0.257	0.220	100.0	90.61		LINR	-9.4	
2-Hexanone	0.388	0.449	200.0	231.7		AVRG	15.8	
Iodomethane	0.236	0.259	100.0	79.03		LINR	-21.0	
Isopropylbenzene	1.748	1.612	100.0	92.25		AVRG	-7.8	
p-Isopropyltoluene	1.633	1.666	100.0	102.0		AVRG	2.0	
Methyl acetate	0.163	0.251	100.0	111.3		LINR	11.3	
Methylene chloride	0.249	0.241	100.0	93.76		LINR	-6.2	
Methyl cyclohexane	0.276	0.254	100.0	92.12		AVRG	-7.9	
Methyl methacrylate	0.196	0.240	100.0	122.5		AVRG	22.5	
4-Methyl-2-pentanone	0.239	0.268	200.0	224.2		AVRG	12.1	
MTBE	0.578	0.612	100.0	105.7		AVRG	5.7	
Naphthalene	1.432	1.456	100.0	101.7		AVRG	1.7	
n-Propylbenzene	2.535	2.586	100.0	102.0		AVRG	2.0	
Styrene	1.484	1.407	100.0	94.75		AVRG	-5.2	
1,1,1,2-Tetrachloroethane	0.533	0.488	100.0	91.56		AVRG	-8.4	
1,1,2,2-Tetrachloroethane	0.627	0.624	100.0	99.38	0.300	AVRG	-0.6	
Tetrachloroethene	0.519	0.425	100.0	81.87		AVRG	-18.1	
Tetrahydrofuran	0.065	0.073	100.0	111.5		LINR	11.5	
Toluene	1.269	1.140	100.0	89.79		AVRG	-10.2	20.0
1,2,3-Trichlorobenzene	0.503	0.486	100.0	96.62		AVRG	-3.4	
1,2,4-Trichlorobenzene	0.543	0.536	100.0	98.70		AVRG	-1.3	
1,1,1-Trichloroethane	0.270	0.266	100.0	98.29		AVRG	-1.7	
1,1,2-Trichloroethane	0.523	0.412	100.0	98.68		LINR	-1.3	
Trichloroethene	0.240	0.228	100.0	95.29		AVRG	-4.7	
Trichlorofluoromethane	0.279	0.286	100.0	102.7		AVRG	2.7	
Trichlorotrifluoroethane	0.203	0.191	100.0	94.25		AVRG	-5.7	
1,2,3-Trichloropropane	0.189	0.169	100.0	89.62		AVRG	-10.4	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.634	1.714	100.0	104.9		AVRG	4.9	
1,3,5-Trimethylbenzene	1.660	1.708	100.0	102.8		AVRG	2.8	
Vinyl acetate	0.342	0.571	200.0	236.4		LINR	18.2	
Vinyl chloride	0.233	0.278	100.0	119.8		AVRG	19.8	20.0
Xylene(total)	1.742	1.588	300.0	259.1		AVRG	-8.9	
Di-isopropyl ether	0.798	0.974	100.0	122.0		AVRG	22.0	
ETBE	0.687	0.764	100.0	111.3		AVRG	11.3	
Dibromofluoromethane	0.290	0.289	30.00	29.89		AVRG	-0.4	
1,2-Dichloroethane-d4	0.069	0.068	30.00	29.44		AVRG	-1.9	
Toluene-d8	2.282	2.098	30.00	27.57		AVRG	-8.1	
Bromofluorobenzene	0.899	0.854	30.00	28.50		AVRG	-5.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0906

Lab File ID: V4CCVA9 Init. Calib. Date(s): 03/05/08 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 0908 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.058	0.029	1000	589.6		LINR	-41.0	20.0
Allyl chloride	0.518	0.097	100.0	18.79		AVRG	-81.2	20.0
Chloroprene	0.335	0.090	100.0	26.80		AVRG	-73.2	20.0
cis-1,4-Dichloro-2-butene	0.269	0.191	100.0	91.85		LINR	~~-8.1~~	~~20.0~~
trans-1,4-Dichloro-2-butene	0.293	0.208	100.0	87.08		LINR	-12.9	20.0
1,4-Dioxane	0.003	0.001	2000	832.6		AVRG	-58.4	20.0
Hexane	0.179	0.002	100.0	0.8846		AVRG	~~-99.1~~	~~20.0~~
Isobutyl alcohol	0.018	0.008	2000	1281		LINR	-35.9	20.0
Methacrylonitrile	0.209	0.129	1000	616.1		AVRG	-38.4	20.0
Propionitrile	0.045	0.028	1000	615.8		AVRG	-38.4	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 1245

Lab File ID: V1CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.056	0.090	200.0	236.0		LINR	18.0		
Acrolein	0.006	0.029	500.0	1135		2ORDR	126.9		
Acrylonitrile	0.077	0.060	500.0	332.4		LINR	-33.5		•
tert-Amyl Methyl Ether	0.761	0.270	100.0	43.47		LINR	~~-56.5~~		
Benzene	0.836	1.046	100.0	125.0		AVRG	25.0		
Bromobenzene	0.682	0.742	100.0	108.7		AVRG	8.7		
Bromochloromethane	0.143	0.106	100.0	74.57		AVRG	~~-25.4~~		
Bromodichloromethane	0.289	0.350	100.0	121.2		AVRG	21.2		
Bromoform	0.409	0.258	100.0	63.09	0.100	AVRG	-36.9		•
Bromomethane	0.108	0.252	100.0	214.8		LINR	114.8		
2-Butanone	0.145	0.097	200.0	174.6		LINR	-12.7		
t-Butyl alcohol	0.019	0.015	500.0	394.4		AVRG	~~-21.1~~		
n-Butylbenzene	1.347	3.797	100.0	281.9		AVRG	181.9		
sec-Butylbenzene	2.035	4.439	100.0	218.1		AVRG	118.1		
tert-Butylbenzene	1.400	2.592	100.0	185.2		AVRG	85.2		
Carbon disulfide	0.750	0.952	100.0	126.9		AVRG	26.9		
Carbon tetrachloride	0.236	0.334	100.0	141.8		AVRG	41.8		
Chlorobenzene	1.454	1.456	100.0	100.1	0.300	AVRG	0.1		
Chloroethane	0.181	0.257	100.0	144.4		LINR	44.4		
2-Chloroethyl vinyl ether	0.165	0.002	200.0	2.803		AVRG	~~-98.6~~		
Chloroform	0.387	0.483	100.0	124.9		AVRG	24.9	20.0	<
Chloromethane	0.191	0.508	100.0	265.5	0.100	AVRG	165.5		
2-Chlorotoluene	1.599	2.692	100.0	168.4		AVRG	68.4		
4-Chlorotoluene	1.851	2.723	100.0	147.1		AVRG	47.1		
Cyclohexane	0.327	0.569	100.0	174.0		AVRG	74.0		
Dibromochloromethane	0.633	0.455	100.0	71.90		AVRG	-28.1		•
1,2-Dibromo-3-chloropropane	0.142	0.104	100.0	73.36		AVRG	-26.6		•
1,2-Dibromoethane	0.600	0.365	100.0	60.87		AVRG	-39.1		•
Dibromomethane	0.163	0.128	100.0	78.92		AVRG	-21.1		•
1,2-Dichlorobenzene	1.080	1.411	100.0	130.7		AVRG	30.7		
1,3-Dichlorobenzene	1.183	1.647	100.0	139.2		AVRG	39.2		
1,4-Dichlorobenzene	1.220	1.643	100.0	134.7		AVRG	34.7		
Dichlorodifluoromethane	0.184	0.348	100.0	173.6		LINR	73.6		
1,1-Dichloroethane	0.394	0.536	100.0	136.0	0.100	AVRG	36.0		
1,2-Dichloroethane	0.251	0.297	100.0	118.4		AVRG	18.4		
1,1-Dichloroethene	0.196	0.240	100.0	122.4		AVRG	22.4	20.0	<
cis-1,2-Dichloroethene	0.251	0.289	100.0	115.0		AVRG	15.0		

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 1245

Lab File ID: V1CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
1,2-Dichloroethene(total)	0.245	0.275	200.0	224.7		AVRG	12.3		
trans-1,2-Dichloroethene	0.238	0.261	100.0	109.6		AVRG	9.6		
1,2-Dichloropropane	0.245	0.290	100.0	118.2		AVRG	18.2	20.0	
1,3-Dichloropropane	0.928	0.774	100.0	83.40		AVRG	-16.6		
2,2-Dichloropropane	0.273	0.435	100.0	159.6		AVRG	59.6		
1,1-Dichloropropene	0.286	0.425	100.0	148.3		AVRG	48.3		
cis-1,3-Dichloropropene	0.379	0.429	100.0	113.2		AVRG	13.2		
trans-1,3-Dichloropropene	0.769	0.742	100.0	96.46		AVRG	-3.5		
Ethylbenzene	2.253	2.755	100.0	122.3		AVRG	22.3	20.0	<
Ethyl methacrylate	0.741	0.580	100.0	78.23		AVRG	-21.8	•	
Hexachlorobutadiene	0.257	0.584	100.0	236.3		LINR	136.3		
2-Hexanone	0.388	0.370	200.0	190.9		AVRG	-4.5		
Iodomethane	0.236	0.277	100.0	84.32		LINR	-15.7		
Isopropylbenzene	1.748	2.419	100.0	138.4		AVRG	38.4		
p-Isopropyltoluene	1.633	3.291	100.0	201.5		AVRG	101.5		
Methyl acetate	0.163	0.143	100.0	64.93		LINR	~~-35.1~~		
Methylene chloride	0.249	0.264	100.0	102.4		LINR	2.4		
Methyl cyclohexane	0.276	0.497	100.0	180.2		AVRG	80.2		
Methyl methacrylate	0.196	0.175	100.0	89.22		AVRG	-10.8		
4-Methyl-2-pentanone	0.239	0.203	200.0	169.6		AVRG	-15.2		
MTBE	0.578	0.368	100.0	63.58		AVRG	~~-36.4~~		
Naphthalene	1.432	1.258	100.0	87.83		AVRG	-12.2		
n-Propylbenzene	2.535	4.807	100.0	189.6		AVRG	89.6		
Styrene	1.484	1.595	100.0	107.4		AVRG	7.4		
1,1,1,2-Tetrachloroethane	0.533	0.478	100.0	89.78		AVRG	-10.2		
1,1,2,2-Tetrachloroethane	0.627	0.695	100.0	110.8	0.300	AVRG	10.8		
Tetrachloroethene	0.519	0.597	100.0	115.1		AVRG	15.1		
Tetrahydrofuran	0.065	0.046	100.0	71.68		LINR	~~-28.3~~		
Toluene	1.269	1.380	100.0	108.8		AVRG	8.8	20.0	
1,2,3-Trichlorobenzene	0.503	0.737	100.0	146.4		AVRG	46.4		
1,2,4-Trichlorobenzene	0.543	0.879	100.0	161.8		AVRG	61.8		
1,1,1-Trichloroethane	0.270	0.400	100.0	148.0		AVRG	48.0		
1,1,2-Trichloroethane	0.523	0.329	100.0	78.73		LINR	-21.3	•	
Trichloroethene	0.240	0.281	100.0	117.1		AVRG	17.1		
Trichlorofluoromethane	0.279	0.409	100.0	146.6		AVRG	46.6		
Trichlorotrifluoroethane	0.203	0.266	100.0	131.2		AVRG	31.2		
1,2,3-Trichloropropane	0.189	0.127	100.0	67.28		AVRG	~~-32.7~~		

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 1245

Lab File ID: V1CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
1,2,4-Trimethylbenzene	1.634	2.981	100.0	182.4		AVRG	82.4		
1,3,5-Trimethylbenzene	1.660	3.002	100.0	180.8		AVRG	80.8		
Vinyl acetate	0.342	0.452	200.0	188.2		LINR	-5.9		
Vinyl chloride	0.233	0.483	100.0	207.9		AVRG	107.9	20.0	<
Xylene(total)	1.742	2.149	300.0	362.4		AVRG	23.4		
Di-isopropyl ether	0.798	1.083	100.0	135.6		AVRG	35.6		
ETBE	0.687	0.415	100.0	60.40		AVRG	~~39.6~~		
Dibromofluoromethane	0.290	0.275	30.00	28.46		AVRG	-5.1		
1,2-Dichloroethane-d4	0.069	0.056	30.00	24.29		AVRG	-19.0		
Toluene-d8	2.282	1.995	30.00	26.22		AVRG	-12.6		
Bromofluorobenzene	0.899	0.756	30.00	25.24		AVRG	-15.9		

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 1323

Lab File ID: V1CCVA9 Init. Calib. Date(s): 12/18/08 12/18/08

Heated Purge: (Y/N) Y Init. Calib. Times: 0051 0524

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.038	0.016	1000	435.3		AVRG	-56.5	20.0
Allyl chloride	0.179	0.038	100.0	21.29		AVRG	-78.7	20.0
Chloroprene	0.555	0.138	100.0	24.88		AVRG	-75.1	20.0
~~cis~~-1,4-Dichloro-2-butene	0.358	0.220	100.0	61.30		AVRG	-38.7	20.0
trans-1,4-Dichloro-2-butene	0.412	0.261	100.0	63.27		AVRG	-36.7	20.0
1,4-Dioxane	0.002	0.001	2000	735.2		AVRG	-63.2	20.0
~~Hexane~~	0.414	0.000	100.0	4e-002		AVRG	-99.9	20.0
Isobutyl alcohol	0.015	0.007	2000	840.1		LINR	-58.0	20.0
Methacrylonitrile	0.229	0.103	1000	414.4		LINR	-58.6	20.0
Propionitrile	0.037	0.017	1000	457.2		AVRG	-54.3	20.0

Sequence Name: C:\HPCHEM\1\SEQUENCE\040208V4.S
Comment: OLM4.3
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040208V4\
Pre-Seq Cmd:
Post-Seq Cmd:

7956
4.2.08
SM

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	Blank	1	PREBLK01	VWATER4	V4BLK;;;;;	
2	BFB	100	V4BFB01	V4BFB	V4BFB50NG;;;;;	13:52 4/2/08 DL
3	Calibration	1	V4ASTD9A	VWATER4	V4calib;;;;;	AIX
4	Calibration	2	V4ASTD09	VWATER4	V4calib;;;;;	AIX
5	Calibration	3	V4ASTD08	VWATER4	V4calib;;;;;	AIX
6	Calibration	4	V4ASTD07	VWATER4	V4calib;;;;;	AIX
7	Spike	5	V4ICVAP9	VWATER4	V4BLK0402LCS;;;;;	ap9 icv
8	Calibration	6	V4ASTD06	VWATER4	V4calib;;;;;	AIX
9	Calibration	7	V4ASTD05	VWATER4	V4calib;;;;;	AIX
10	Calibration	8	V4ASTD04	VWATER4	V4calib;;;;;	AIX
11	Calibration	9	V4ASTD03	VWATER4	V4calib;;;;;	AIX
12	Calibration	10	V4ASTD02	VWATER4	V4calib;;;;;	AIX
13	Blank	11	BLANK01	VWATER4	V4BLK;;;;;	
14	Blank	12	BLANK02	VWATER4	V4BLK;;;;;	
15	Blank	13	BLANK03	VWATER4	V4BLK;;;;;	
16	Blank	14	BLANK04	VWATER4	V4BLK;;;;;	
17	Sample	100	V4BFB	V4BFB	V4BFB50NG;;;;;	

Sequence Name: C:\HPCHEM\1\SEQUENCE\040208V4.S
Comment: OLM4.3
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040208V4\
Pre-Seq Cmd:
Post-Seq Cmd:

7957

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Blank	V4BLK;;;;;
Vial: 1	;3;BLANK;;;gm-all.sub;#5340
Meth: VWATER4.M	Barcode:
Data: PREBLK01.D	Samp Amt: 0 Multiplr: 1
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
2 Type: BFB	V4BFB50NG;;;;;
Vial: 100	;3;;;;all.sub;#5331
Meth: V4BFB.M	Barcode:
Data: V4BFB01.D	Samp Amt: 0 Multiplr: 1
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
3 Type: Calibration	V4calib;;;;; AIX
Vial: 1	;1;;;9;ap9hex.sub;#5422,5374
Meth: VWATER4.M	Barcode:
Data: V4ASTD9A.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
4 Type: Calibration	V4calib;;;;; AIX
Vial: 2	;1;;;9;ap9hex.sub;#5422,5374
Meth: VWATER4.M	Barcode:
Data: V4ASTD09.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
5 Type: Calibration	V4calib;;;;; AIX
Vial: 3	;1;;;8;ap9hex.sub;#5422,5374
Meth: VWATER4.M	Barcode:
Data: V4ASTD08.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
6 Type: Calibration	V4calib;;;;; AIX
Vial: 4	;1;;;7;ap9hex.sub;#5422,5374
Meth: VWATER4.M	Barcode:
Data: V4ASTD07.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method
7 Type: Spike	V4BLK0402LCS;;;;; ap9 icv
Vial: 5	;3;LCS;;;ap9hex.sub;#5422,5375
Meth: VWATER4.M	Barcode:
Data: V4ICVAP9.D	Samp Amt: 0 Multiplr: 1
Area% Report :per Method	Lib. Search Rep :per Method
Quant Report :per Method	Post-Quant Macro:per Method
CR Database :per Method	CR Spreadsheet :per Method

7958

```
8   Type: Calibration V4calib;;;;;      AIX
    Vial: 6             ;1;;;6;ap9hex.sub;#5422,5374
    Meth: VWATER4.M   Barcode:
    Data: V4ASTD06.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V4calib;;;;;      AIX
    Vial: 7             ;1;;;5;ap9hex.sub;#5422,5374
    Meth: VWATER4.M   Barcode:
    Data: V4ASTD05.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Calibration V4calib;;;;;      AIX
    Vial: 8             ;1;;;4;ap9hex.sub;#5422,5374
    Meth: VWATER4.M   Barcode:
    Data: V4ASTD04.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V4calib;;;;;      AIX
    Vial: 9             ;1;;;3;ap9hex.sub;#5422,5374
    Meth: VWATER4.M   Barcode:
    Data: V4ASTD03.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V4calib;;;;;      AIX
    Vial: 10            ;1;;;2;ap9hex.sub;#5422,5374
    Meth: VWATER4.M   Barcode:
    Data: V4ASTD02.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank       V4BLK;;;;;
    Vial: 11          ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M   Barcode:
    Data: BLANK01.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Blank       V4BLK;;;;;
    Vial: 12          ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M   Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Blank       V4BLK;;;;;
    Vial: 13          ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M   Barcode:
    Data: BLANK03.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Blank       V4BLK;;;;;
    Vial: 14          ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M   Barcode:
    Data: BLANK04.D   Samp Amt: 0          Multiplr: 1
```

```
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17  Type: Sample       V4BFB50NG;;;;;
    Vial: 100          ;;;;;all.sub;#5331
    Meth: V4BFB.M      Barcode:
    Data: V4BFB.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

7959

Sequence Name: C:\HPCHEM\1\SEQUENCE\121708v1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\121708v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8361
12-18-08

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	PREBLK01	VSOIL1	BLANK;;;;;
2	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;; 4:01 PM 12-17-08 (4)
3	Sample	2	PREBLK02	VSOIL1	BLANK;;;;;
4	ICal	3	V1STD01	VSOIL1	V1STD2ppb;;;;;
5	ICal	4	V1STD02	VSOIL1	V1STD5ppb;;;;;
6	ICal	5	V1STD03	VSOIL1	V1STD10ppb;;;;;
7	ICal	6	V1STD04	VSOIL1	V1STD20ppb;;;;;
8	ICal	7	V1STD05	VSOIL1	V1STD50ppb;;;;;
9	Sample	8	V1ICV01	VSOIL1	V1BLK1217LCS;;;;; 50ppb
10	ICal	9	V1STD06	VSOIL1	V1STD100ppb;;;;;
11	ICal	10	V1STD07	VSOIL1	V1STD200ppb;;;;;
12	Sample	11	V1LCS01	VSOIL1	V1BLK1217LCS;;;;; 50ppb 10:25 PM 12-17-08 (5)
13	Sample	12	BLANK01	VSOIL1	V1BLK;;;;;
14	QC	50	V1BFB01E	V1BFB	V1BFB 50ng;;;;; 11:40 PM 12-17-08 (6)
15	Sample	13	BLANK02	VSOIL1	V1BLK;;;;;
16	ICal	14	V1STDAP1	VSOIL1	V1STD2ppb;;;;; AIX
17	ICal	15	V1STDAP2	VSOIL1	V1STD5ppb;;;;; AIX
18	ICal	16	V1STDAP3	VSOIL1	V1STD10ppb;;;;; AIX
19	ICal	17	V1STDAP4	VSOIL1	V1STD20ppb;;;;; AIX
20	ICal	18	V1STDAP5	VSOIL1	V1STD50ppb;;;;; AIX
21	Sample	19	V1ICVAP9	VSOIL1	V1BLK1217LCS;;;;; AIX
22	ICal	20	V1STDAP6	VSOIL1	V1STD100ppb;;;;; AIX
23	ICal	21	V1STDAP7	VSOIL1	V1STD200ppb;;;;; AIX
24	Sample	22	V1LCSAP9	VSOIL1	V1BLK1217LCS;;;;; AIX 6:04 AM 12-18-08 (7)
25	Sample	23	BLANK03	VSOIL1	V1BLK;;;;; clean-up

```
    Comment: EPA 8260B
   Operator: JH
  Data Path: C:\HPCHEM\1\DATA\121708v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample        BLANK;;;;;
    Vial: 1             ;0;;;;gm-all.sub;#5604
    Meth: VSOIL1.M      Barcode:
    Data: PREBLK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: QC            V1BFB 50ng;;;;;
    Vial: 50            ;3;BFB;;;all.sub;#5591
    Meth: V1BFB.M       Barcode:
    Data: V1BFB01.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: Sample        BLANK;;;;;
    Vial: 2             ;0;;;;gm-all.sub;#5604
    Meth: VSOIL1.M      Barcode:
    Data: PREBLK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: ICal          V1STD2ppb;;;;;
    Vial: 3             ;1;;;1;gm-all.sub;#5604,5627
    Meth: VSOIL1.M      Barcode:
    Data: V1STD01.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: ICal          V1STD5ppb;;;;;
    Vial: 4             ;1;;;2;gm-all.sub;#5604,5627
    Meth: VSOIL1.M      Barcode:
    Data: V1STD02.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: ICal          V1STD10ppb;;;;;
    Vial: 5             ;1;;;3;gm-all.sub;#5604,5627
    Meth: VSOIL1.M      Barcode:
    Data: V1STD03.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: ICal          V1STD20ppb;;;;;
    Vial: 6             ;1;;;4;gm-all.sub;#5604,5627
    Meth: VSOIL1.M      Barcode:
    Data: V1STD04.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: ICal          V1STD50ppb;;;;;
    Vial: 7             ;1;;;5;gm-all.sub;#5604,5627
    Meth: VSOIL1.M      Barcode:

Sequence: 121708V1.S   Last Modified: Wed Dec 17 14:55:41 2008   Page: 1
```

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```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9  Type: Sample      V1BLK1217LCS;;;;;  50ppb
    Vial: 8           ;3;LCS;;;gm-all.sub;#5624,5628
    Meth: VSOIL1.M    Barcode:
    Data: V1ICV01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: ICal        V1STD100ppb;;;;;
    Vial: 9           ;1;;;6;gm-all.sub;#5604,5627
    Meth: VSOIL1.M    Barcode:
    Data: V1STD06.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: ICal        V1STD200ppb;;;;;
    Vial: 10          ;1;;;7;gm-all.sub;#5604,5627
    Meth: VSOIL1.M    Barcode:
    Data: V1STD07.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      V1BLK1217LCS;;;;;  50ppb
    Vial: 11          ;3;LCS;;;gm-all.sub;#5604,5628
    Meth: VSOIL1.M    Barcode:
    Data: V1LCS01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample      V1BLK;;;;;
    Vial: 12          ;3;;;;gm-all.sub;#5604
    Meth: VSOIL1.M    Barcode:
    Data: BLANK01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: QC          V1BFB 50ng;;;;;
    Vial: 50          ;3;BFB;;;all.sub;#5591
    Meth: V1BFB.M     Barcode:
    Data: V1BFB01E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      V1BLK;;;;;
    Vial: 13          ;3;;;;gm-all.sub;#5604
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: ICal        V1STD2ppb;;;;;  AIX
    Vial: 14          ;1;;;1;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M    Barcode:
    Data: V1STDAP1.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: ICal        V1STD5ppb;;;;;  AIX
    Vial: 15          ;1;;;2;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M    Barcode:
    Data: V1STDAP2.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

```
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18 Type: ICal        V1STD10ppb;;;;;  AIX
   Vial: 16          ;1;;;3;ap9hex.sub;#5604,5629
   Meth: VSOIL1.M    Barcode:
   Data: V1STDAP3.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19 Type: ICal        V1STD20ppb;;;;;  AIX
   Vial: 17          ;1;;;4;ap9hex.sub;#5604,5629
   Meth: VSOIL1.M    Barcode:
   Data: V1STDAP4.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20 Type: ICal        V1STD50ppb;;;;;  AIX
   Vial: 18          ;1;;;5;ap9hex.sub;#5604,5629
   Meth: VSOIL1.M    Barcode:
   Data: V1STDAP5.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21 Type: Sample      V1BLK1217LCS;;;;; AIX
   Vial: 19          ;3;LCS;;;gm-allap9.sub;#5604,5630
   Meth: VSOIL1.M    Barcode:
   Data: V1ICVAP9.D  Samp Amt: 0          Multiplr: 1
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22 Type: ICal        V1STD100ppb;;;;;  AIX
   Vial: 20          ;1;;;6;ap9hex.sub;#5604,5629
   Meth: VSOIL1.M    Barcode:
   Data: V1STDAP6.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23 Type: ICal        V1STD200ppb;;;;;  AIX
   Vial: 21          ;1;;;7;ap9hex.sub;#5604,5629
   Meth: VSOIL1.M    Barcode:
   Data: V1STDAP7.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24 Type: Sample      V1BLK1217LCS;;;;;  AIX
   Vial: 22          ;3;LCS;;;gm-allap9.sub;#5604,5630
   Meth: VSOIL1.M    Barcode:
   Data: V1LCSAP9.D  Samp Amt: 0          Multiplr: 1
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25 Type: Sample      V1BLK;;;;;  clean-up
   Vial: 23          ;3;;;;gm-all.sub;#5604
   Meth: VSOIL1.M    Barcode:
   Data: BLANK03.D   Samp Amt: 0          Multiplr: 1
   Area% Report    :Default          Lib. Search Rep.:Default
   Quant Report    :Default          Post-Quant Macro:Default
   CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

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LSAMP_ID	LAB_CHEM	MANUAL
V1STD01	1,4-Dichlorobenzene	A
V1STD01	Ethyl methacrylate	A
V1STD01	Hexachlorobutadiene	A
V1STD01	ETBE	A
V1STD01	1,1,1,2-Tetrachloroethane	A
V1STD02	Ethyl methacrylate	D
V1STD02	ETBE	A
V1STD02	1,1,1,2-Tetrachloroethane	A
V1STD03	Ethyl methacrylate	D
V1STD03	ETBE	A
V1STD03	1,1,1,2-Tetrachloroethane	A
V1STD04	Ethyl methacrylate	D
V1STD04	ETBE	A
V1STD04	1,1,1,2-Tetrachloroethane	D
V1STD05	Carbon disulfide	A
V1STD05	Ethyl methacrylate	D
V1STD05	ETBE	A
V1STD05	1,1,1,2-Tetrachloroethane	D
V1STD06	Bromomethane	A
V1STD06	Ethyl methacrylate	D
V1STD06	ETBE	A
V1STD06	Naphthalene	A
V1STD06	1,1,1,2-Tetrachloroethane	D
V1STD06	1,2,3-Trichlorobenzene	A
V1STD06A	Propionitrile-ap9	A
V1STD06A	Methacrylonitrile-ap9	D
V1STD07A	Allyl chloride-ap9	A
V1STD07	Bromochloromethane	A
V1STD07	Bromomethane	A
V1STD07	Chloroethane	A
V1STD07	1,4-Dichlorobenzene	D
V1STD07	Ethyl methacrylate	A
V1STD07	ETBE	A
V1STD07	Naphthalene	D
V1STD07	1,2,3-Trichlorobenzene	A
V1STD07	Chlorobenzene-D5 (IS)	A
V1ICV01A	cis-1,4-Dichloro-2-butene-ap9	A
V1ICV01	ETBE	A
V1ICV01	1,2,3-Trichlorobenzene	A

Chromatographic Flags for Manual Integrations

A: The peak was manually integrated as it was **not integrated** in the original chromatogram.

B: The peak was manually integrated due to **resolution or coelution** issues in the original chromatogram.

C: The peak was manually integrated to **correct the baseline** from the original chromatogram.

D: The peak was manually integrated to **identify the correct peak** as the incorrect peak was identified in the original chromatogram.

E: The peak was manually integrated to **include the entire peak** as the original chromatogram only integrated part of the peak.

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S
Comment: 8260/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\032709V4\
Pre-Seq Cmd:
Post-Seq Cmd:

9598

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	Blank	1	PREBLK01	VWATER4	V4BLK;;;;;	
2	BFB	100	V4BFB01	V4BFB	V4BFB50NG;;;;;	10:23 3/27/09 DL
3	Calibration	1	V4STD01	VWATER4	V4STD0.25ppb;;;;;	
4	Calibration	2	V4STD02	VWATER4	V4STD0.5ppb;;;;;	
5	Calibration	3	V4STD03	VWATER4	V4STD1ppb;;;;;	
6	Calibration	4	V4STD04	VWATER4	V4STD2ppb;;;;;	
7	Calibration	5	V4STD05	VWATER4	V4STD10ppb;;;;;	
8	Calibration	6	V4STD06	VWATER4	V4STD20ppb;;;;;	
9	Calibration	7	V4STD07	VWATER4	V4STD50ppb;;;;;	
10	Spike	8	V4ICV01	VWATER4	V4BLK0327LCS;;;;;	50ppb
11	Calibration	9	V4STD08	VWATER4	V4STD100ppb;;;;;	
12	Calibration	10	V4STD09	VWATER4	V4STD200ppb;;;;;	
13	Blank	11	BLANK01	VWATER4	V4BLK;;;;;	
14	Spike	12	V4LCS01	VWATER4	V4BLK0327LCS;;;;;	50ppb
15	Blank	13	BLANK02	VWATER4	V4BLK;;;;;	
16	Blank	14	V4BLK01	VWATER4	V4BLK0327;;;;;	
17	Blank	15	0318809	VWATER4	0903188-09;;;;;	pt sample
18	Blank	16	BLANK03	VWATER4	V4BLK;;;;;	
19	Blank	17	BLANK04	VWATER4	V4BLK;;;;;	
20	Blank	18	0327302	VWATER4	0903273-02;;;;;	624
21	Blank	19	S0329602	VWATER4	0903296-02;;;;;	100x h20 scr
22	Blank	20	S0329603	VWATER4	0903296-03;;;;;	100x h20 scr
23	Blank	21	S329604	VWATER4	0903296-04;;;;;	100x h20 scr
24	Blank	22	S0329605	VWATER4	0903296-05;;;;;	100x h20 scr
25	Blank	23	S0329606	VWATER4	0903296-06;;;;;	100x h20 scr
26	Blank	24	S0329607	VWATER4	0903296-07;;;;;	100x h20 scr
27	Blank	25	S0329608	VWATER4	0903296-08;;;;;	100x h20 scr
28	Blank	26	S0329902	VWATER4	0903299-02;;;;;	100x h20 scr
29	Blank	27	S0329903	VWATER4	0903299-03;;;;;	100x h20 scr
30	Blank	28	S0329904	VWATER4	0903299-04;;;;;	100x h20 scr
31	Blank	29	S0330001	VWATER4	0903300-01;;;;;	100x h20 scr
32	Blank	30	S0330002	VWATER4	0903300-02;;;;;	100x h20 scr
33	Blank	31	S0330003	VWATER4	0903300-03;;;;;	100x h20 scr
34	Blank	32	S0330004	VWATER4	0903300-04;;;;;	100x h20 scr
35	Blank	33	S0330005	VWATER4	0903300-05;;;;;	100x h20 scr
36	Blank	34	S0330202	VWATER4	0903302-02;;;;;	100x h20 scr
37	Blank	35	S0330203	VWATER4	0903302-03;;;;;	100x h20 scr
38	Blank	36	S0330204	VWATER4	0903302-04;;;;;	100x h20 scr
39	Blank	37	S0330205	VWATER4	0903302-05;;;;;	100x h20 scr
40	Blank	38	S0330206	VWATER4	0903302-06;;;;;	100x h20 scr
41	Blank	39	S0330207	VWATER4	0903302-07;;;;;	100x h20 scr
42	Blank	40	S0330208	VWATER4	0903302-08;;;;;	100x h20 scr
43	Blank	41	S0330301	VWATER4	0903303-01;;;;;	100x h20 scr

Last Modified: Sat Mar 28 07:43:54 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S

9599

Line Type	Vial	DataFile	Method	Sample Name
44 Blank	42	S0330302	VWATER4	0903303-02;;;;; 100x h20 scr

9600

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S
      Comment: 8260/624
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\032709V4\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Blank         V4BLK;;;;;
    Vial: 1             ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M     Barcode:
    Data: PREBLK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
2   Type: BFB           V4BFB50NG;;;;;
    Vial: 100           ;3;;;;all.sub;#5646
    Meth: V4BFB.M       Barcode:
    Data: V4BFB01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
3   Type: Calibration V4STD0.25ppb;;;;;
    Vial: 1            ;1;;;1;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
4   Type: Calibration V4STD0.5ppb;;;;;
    Vial: 2            ;1;;;2;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
5   Type: Calibration V4STD1ppb;;;;;
    Vial: 3            ;1;;;3;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
6   Type: Calibration V4STD2ppb;;;;;
    Vial: 4            ;1;;;4;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD04.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
7   Type: Calibration V4STD10ppb;;;;;
    Vial: 5            ;1;;;5;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD05.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method

Sequence:032709V4.S  Last Modified:Sat Mar 28 07:43:54 2009  Page: 1
```

9601

```
8   Type: Calibration V4STD20ppb;;;;;
    Vial: 6             ;1;;;6;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD06.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V4STD50ppb;;;;;
    Vial: 7             ;1;;;7;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD07.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Spike         V4BLK0327LCS;;;;; 50ppb
    Vial: 8              ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VWATER4.M    Barcode:
    Data: V4ICV01.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V4STD100ppb;;;;;
    Vial: 9             ;1;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD08.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V4STD200ppb;;;;;
    Vial: 10            ;1;;;9;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD09.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank         V4BLK;;;;;
    Vial: 11            ;3;BLANK;;;gm-all.sub;#5577
    Meth: VWATER4.M    Barcode:
    Data: BLANK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Spike         V4BLK0327LCS;;;;; 50ppb
    Vial: 12             ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VWATER4.M    Barcode:
    Data: V4LCS01.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Blank         V4BLK;;;;;
    Vial: 13            ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Blank         V4BLK0327;;;;;
    Vial: 14            ;3;BLANK;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: V4BLK01.D    Samp Amt: 0          Multiplr: 1
```

```
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
17  Type: Blank        0903188-09;;;;;  pt sample
    Vial: 15           pt.v03273;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0318809.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
18  Type: Blank        V4BLK;;;;;
    Vial: 16           ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
19  Type: Blank        V4BLK;;;;;
    Vial: 17           ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK04.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
20  Type: Blank        0903273-02;;;;;  624
    Vial: 18           isp.v03273;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0327302.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
21  Type: Blank        0903296-02;;;;;  100x h20 screen
    Vial: 19           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329602.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
22  Type: Blank        0903296-03;;;;;  100x h20 screen
    Vial: 20           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329603.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
23  Type: Blank        0903296-04;;;;;  100x h20 screen
    Vial: 21           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S329604.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
24  Type: Blank        0903296-05;;;;;  100x h20 screen
    Vial: 22           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329605.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
25  Type: Blank        0903296-06;;;;;  100x h20 screen
```

```
    Vial: 23            sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329606.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
26  Type: Blank         0903296-07;;;;;  100x h20 screen
    Vial: 24            sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329607.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
27  Type: Blank         0903296-08;;;;;  100x h20 screen
    Vial: 25            sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329608.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
28  Type: Blank         0903299-02;;;;;  100x h20 screen
    Vial: 26            sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329902.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
29  Type: Blank         0903299-03;;;;;  100x h20 screen
    Vial: 27            sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329903.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
30  Type: Blank         0903299-04;;;;;  100x h20 screen
    Vial: 28            sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0329904.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
31  Type: Blank         0903300-01;;;;;  100x h20 screen
    Vial: 29            sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0330001.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
32  Type: Blank         0903300-02;;;;;  100x h20 screen
    Vial: 30            sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0330002.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
33  Type: Blank         0903300-03;;;;;  100x h20 screen
    Vial: 31            sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: S0330003.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
```

```
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
34  Type: Blank        0903300-04;;;;;  100x h20 screen
    Vial: 32           sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330004.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
35  Type: Blank        0903300-05;;;;;  100x h20 screen
    Vial: 33           sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330005.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
36  Type: Blank        0903302-02;;;;;  100x h20 screen
    Vial: 34           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330202.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
37  Type: Blank        0903302-03;;;;;  100x h20 screen
    Vial: 35           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330203.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
38  Type: Blank        0903302-04;;;;;  100x h20 screen
    Vial: 36           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330204.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
39  Type: Blank        0903302-05;;;;;  100x h20 screen
    Vial: 37           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330205.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
40  Type: Blank        0903302-06;;;;;  100x h20 screen
    Vial: 38           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330206.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
41  Type: Blank        0903302-07;;;;;  100x h20 screen
    Vial: 39           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330207.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
42  Type: Blank        0903302-08;;;;;  100x h20 screen
    Vial: 40           sha.v03302;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
```

960S

```
    Data: S0330208.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
43  Type: Blank        0903303-01;;;;;  100x h20 screen
    Vial: 41           sha.v03303;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330301.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
44  Type: Blank        0903303-02;;;;;  100x h20 screen
    Vial: 42           sha.v03303;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0330302.D   Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032709v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8684
3-20-09

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	PREBLK01	VSOIL1	BLANK;;;;;
2	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;;8:13 AM 3-27-09
3	Sample	1	PREBLK02	VSOIL1	BLANK;;;;;
4	ICal	2	V1STD01	VSOIL1	V1STD2ppb;;;;;
5	ICal	3	V1STD02	VSOIL1	V1STD5ppb;;;;;
6	ICal	4	V1STD03	VSOIL1	V1STD10ppb;;;;;
7	ICal	5	V1STD04	VSOIL1	V1STD20ppb;;;;;
8	ICal	6	V1STD05	VSOIL1	V1STD50ppb;;;;;
9	Sample	7	V1ICV01	VSOIL1	V1BLK0327LCS;;;;; 50ppb
10	ICal	8	V1STD06	VSOIL1	V1STD100ppb;;;;;
11	ICal	9	V1STD07	VSOIL1	V1STD200ppb;;;;;
12	Sample	10	BLANK01	VSOIL1	V1BLK;;;;;
13	Sample	11	V1LCS01	VSOIL1	V1BLK0327LCS;;;;; 50ppb
14	Sample	12	BLANK02	VSOIL1	V1BLK;;;;;
15	Sample	13	V1BLK01	VSOIL1	V1BLK0327;;;;;4:30PM 3-27-09
16	Sample	14	0318824	VSOIL1	0903188-24;;5.00;;; pt sample
17	Sample	15	BLANK03	VSOIL1	V1BLK;;;;;

Last Modified: Fri Mar 27 14:17:09 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032709v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

9685

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1	Type: Sample	BLANK;;;;;
	Vial: 1	;0;;;;gm-all.sub;#5717
	Meth: VSOIL1.M	Barcode:
	Data: PREBLK01.D	Samp Amt: 0 Multiplr: 1
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
2	Type: QC	V1BFB 50ng;;;;;
	Vial: 50	;3;BFB;;;all.sub;#5646
	Meth: V1BFB.M	Barcode:
	Data: V1BFB01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
3	Type: Sample	BLANK;;;;;
	Vial: 1	;0;;;;gm-all.sub;#5717
	Meth: VSOIL1.M	Barcode:
	Data: PREBLK02.D	Samp Amt: 0 Multiplr: 1
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
4	Type: ICal	V1STD2ppb;;;;;
	Vial: 2	;1;;;1;gm-all.sub;#5717,5720
	Meth: VSOIL1.M	Barcode:
	Data: V1STD01.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
5	Type: ICal	V1STD5ppb;;;;;
	Vial: 3	;1;;;2;gm-all.sub;#5717,5720
	Meth: VSOIL1.M	Barcode:
	Data: V1STD02.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
6	Type: ICal	V1STD10ppb;;;;;
	Vial: 4	;1;;;3;gm-all.sub;#5717,5720
	Meth: VSOIL1.M	Barcode:
	Data: V1STD03.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
7	Type: ICal	V1STD20ppb;;;;;
	Vial: 5	;1;;;4;gm-all.sub;#5717,5720
	Meth: VSOIL1.M	Barcode:
	Data: V1STD04.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default Lib. Search Rep.:Default
	Quant Report	:Default Post-Quant Macro:Default
	CR Database	:Default CR Spreadsheet :Default
8	Type: ICal	V1STD50ppb;;;;;
	Vial: 6	;1;;;5;gm-all.sub;#5717,5720
	Meth: VSOIL1.M	Barcode:

```
   Data: V1STD05.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9 Type: Sample       V1BLK0327LCS;;;;;  50ppb
   Vial: 7            ;3;LCS;;;gm-all.sub;#5717,5721
   Meth: VSOIL1.M     Barcode:
   Data: V1ICV01.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10 Type: ICal         V1STD100ppb;;;;;
   Vial: 8            ;1;;;6;gm-all.sub;#5717,5720
   Meth: VSOIL1.M     Barcode:
   Data: V1STD06.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11 Type: ICal         V1STD200ppb;;;;;
   Vial: 9            ;1;;;7;gm-all.sub;#5717,5720
   Meth: VSOIL1.M     Barcode:
   Data: V1STD07.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12 Type: Sample       V1BLK;;;;;
   Vial: 10           ;3;;;;gm-all.sub;#5717
   Meth: VSOIL1.M     Barcode:
   Data: BLANK01.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13 Type: Sample       V1BLK0327LCS;;;;;  50ppb
   Vial: 11           ;3;LCS;;;gm-all.sub;#5717,5721
   Meth: VSOIL1.M     Barcode:
   Data: V1LCS01.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14 Type: Sample       V1BLK;;;;;
   Vial: 12           ;3;;;;gm-all.sub;#5717
   Meth: VSOIL1.M     Barcode:
   Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15 Type: Sample       V1BLK0327;;;;;
   Vial: 13           ;3;;;;gm-all.sub;#5717
   Meth: VSOIL1.M     Barcode:
   Data: V1BLK01.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16 Type: Sample       0903188-24;;5.00;;;  pt sample
   Vial: 14           pt.v03188;0;;;;gm-all.sub;#5717
   Meth: VSOIL1.M     Barcode:
   Data: 0318824.D    Samp Amt: 0          Multiplr: 1
   Area% Report     :Default          Lib. Search Rep.:Default
   Quant Report     :Default          Post-Quant Macro:Default
   CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17 Type: Sample       V1BLK;;;;;
   Vial: 15           ;3;;;;gm-all.sub;#5717
   Meth: VSOIL1.M     Barcode:
   Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
```

Area% Report	:Default	Lib. Search Rep.	:Default
Quant Report	:Default	Post-Quant Macro	:Default
CR Database	:Default	CR Spreadsheet	:Default

8687

9606

Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S
Comment: 8260/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\032809V4\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Tune 8260

Line	Type	Vial	DataFile	Method	Sample Name	
1	BFB	50	V4BFB01	V4BFB	V4BFB50NG;;;;;	8:07 3/28/09 DL
2	DailyCal	1	V4CCV01	VWATER4	V4STD100ppb;;;;;	
3	DailyCal	2	V4CCVA9	VWATER4	V4STD100ppb;;;;;	
4	Spike	3	V4LCS01	VWATER4	V4BLK0328LCS;;;;;	50ppb
5	DailyCal	4	V4RL01	VWATER4	V4STD01ppb;;;;;	
6	Blank	5	BLANK01	VWATER4	V4BLK;;;;;	
7	Blank	6	V4BLK01	VWATER4	V4BLK0328;;;;;	
8	Sample	7	0325122	VWATER4	0903251-22;;;;;	vial1 TB
9	Sample	8	0325123	VWATER4	0903251-23;;;;;	vial1 TB
10	Sample	9	0326222	VWATER4	0903262-22;;;;;	vial1 TB
11	Sample	10	0325121	VWATER4	0903251-21;;;;;	vial1
12	Sample	11	0326221	VWATER4	0903262-21;;;;;	vial1
13	Sample	12	0329201D	VWATER4	0903292-01;;;;;	vial1 50X
14	Sample	13	0329202	VWATER4	0903292-02;;;;;	vial1
15	Sample	14	0329203D	VWATER4	0903292-03;;;;;	vial1 200X
16	Sample	15	0329204D	VWATER4	0903292-04;;;;;	vial1 50X
17	Sample	16	0329205D	VWATER4	0903292-05;;;;;	vial1 50X
18	Sample	17	0329206D	VWATER4	0903292-06;;;;;	vial1 25X
19	Sample	18	0329207D	VWATER4	0903292-07;;;;;	vial1 50X
20	Sample	19	0329208D	VWATER4	0903292-08;;;;;	vial1 10X
21	Sample	20	0327901D	VWATER4	0903279-01;;;;;	vial1 5X
22	Sample	21	0327902D	VWATER4	0903279-02;;;;;	vial1 5X
23	Sample	22	0328201D	VWATER4	0903282-01;;;;;	vial1 5X
24	Sample	23	0329001D	VWATER4	0903290-01;;;;;	vial1 200X
25	Spike	24	V4LCD01	VWATER4	V4BLK0328LCSD;;;;;	50ppb
26	BFB	50	V4BFB01E	V4BFB	V4BFB50NG;;;;;	20:24 3/28/09 DL
27	DailyCal	25	V4CCV01E	VWATER4	V4STD100ppb;;;;;	
28	Spike	26	V4LCS01E	VWATER4	V4BLK0328ELCS;;;;;	50ppb
29	DailyCal	27	V4RL01E	VWATER4	V4STD01ppb;;;;;	
30	Blank	28	BLANK01E	VWATER4	V4BLK;;;;;	
31	Blank	29	V4BLK01E	VWATER4	V4BLK0328E;;;;;	
32	Sample	30	0325905	VWATER4	0903259-05;;;;;	vial1 TB
33	Sample	31	0326701	VWATER4	0903267-01;;;;;	vial1 TB
34	Sample	32	0325801D	VWATER4	0903258-01;;;;;	vial1 5X
35	Sample	33	0325802D	VWATER4	0903258-02;;;;;	vial1 5X
36	Sample	34	0325803D	VWATER4	0903258-03;;;;;	vial1 5X
37	Sample	35	0325804D	VWATER4	0903258-04;;;;;	vial1 5X
38	Sample	36	0325805D	VWATER4	0903258-05;;;;;	vial1 5X
39	Sample	37	0325901	VWATER4	0903259-01;;;;;	vial1
40	Sample	38	0325902	VWATER4	0903259-02;;;;;	vial1
41	Sample	39	0325903	VWATER4	0903259-03;;;;;	vial1
42	Sample	40	0325904	VWATER4	0903259-04;;;;;	vial1
43	Sample	41	0326601	VWATER4	0903266-01;;;;;	vial1

Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S

9607

Line	Type	Vial	DataFile	Method	Sample Name
44	Sample	42	0326602	VWATER4	0903266-02;;;;; vial1
45	Sample	43	0326603	VWATER4	0903266-03;;;;; vial1
46	Sample	44	0326604	VWATER4	0903266-04;;;;; vial1
47	Sample	45	0326702	VWATER4	0903267-02;;;;; vial1
48	Sample	46	0326703	VWATER4	0903267-03;;;;; vial1
49	Sample	47	0326704	VWATER4	0903267-04;;;;; vial1
50	Sample	48	0326704M	VWATER4	0903267-04;;;;; vial1 MS
51	Sample	49	0326704S	VWATER4	0903267-04;;;;; vial1 MSD
52	BFB	50	V4BFB01F	V4BFB	V4BFB50NG;;;;;
53	DailyCal	1	V4CCV01F	VWATER4	V4STD100ppb;;;;;
54	Spike	2	V4LCS01F	VWATER4	V4BLK0328FLCS;;;;; 50ppb
55	Spike	3	V4LCS624	VWATER4	V4BLK0328FLCS;;;;; 20ppb
56	DailyCal	4	V4RL01F	VWATER4	V4STD01ppb;;;;;
57	Blank	5	BLANK01F	VWATER4	V4BLK;;;;;
58	Blank	6	V4BLK01F	VWATER4	V4BLK0328F;;;;;
59	Sample	7	0328905	VWATER4	0903289-05;;;;; vial1 TB
60	Sample	8	0328906	VWATER4	0903289-06;;;;; vial1 TB
61	Sample	9	0328601	VWATER4	0903286-01;;;; vial1
62	Sample	10	0328602	VWATER4	0903286-02;;;; vial1
63	Sample	11	0328603	VWATER4	0903286-03;;;; vial1
64	Sample	12	0328604	VWATER4	0903286-04;;;; vial1
65	Sample	13	0328605	VWATER4	0903286-05;;;; vial1
66	Sample	14	0328606	VWATER4	0903286-06;;;; vial1
67	Sample	15	0328607	VWATER4	0903286-07;;;; vial1
68	Sample	16	0328608	VWATER4	0903286-08;;;; vial1
69	Sample	17	0328609	VWATER4	0903286-09;;;; vial1
70	Sample	18	0328901	VWATER4	0903289-01;;;; vial1
71	Sample	19	0328902	VWATER4	0903289-02;;;; vial1
72	Sample	20	0328903	VWATER4	0903289-03;;;; vial1
73	Sample	21	0328904	VWATER4	0903289-04;;;; vial1
74	Sample	22	0330301	VWATER4	0903303-01;;;; vial1
75	Sample	23	0330302	VWATER4	0903303-02;;;; vial1
76	Sample	24	0328001	VWATER4	0903280-01;;;; vial1 624
77	Spike	25	V4LCD01F	VWATER4	V4BLK0328FLCSD;;;;; 50ppb

HD ERROR

- RR

9608

```
 Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S
       Comment: 8260/624
      Operator: ADM
     Data Path: C:\HPCHEM\1\DATA\032809V4\
   Pre-Seq Cmd:
  Post-Seq Cmd:

 Method Sections To Run      On A Barcode Mismatch
  (X) Full Method              (X) Inject Anyway
  ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: BFB           V4BFB50NG;;;;;
    Vial: 50            ;3;;;;all.sub;#5646
    Meth: V4BFB.M       Barcode:
    Data: V4BFB01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
2   Type: DailyCal      V4STD100ppb;;;;;
    Vial: 1              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4CCV01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
3   Type: DailyCal      V4STD100ppb;;;;;
    Vial: 2              ;;;;8;ap9hex.sub;#5717,5629
    Meth: VWATER4.M     Barcode:
    Data: V4CCVA9.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
4   Type: Spike         V4BLK0328LCS;;;;; 50ppb
    Vial: 3              ;3;LCS;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCS01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
5   Type: DailyCal      V4STD01ppb;;;;;
    Vial: 4              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4RL01.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
5   Type: Blank         V4BLK;;;;;
    Vial: 5             ;3;BLANK;;;gm-allap9.sub;#5577
    Meth: VWATER4.M     Barcode:
    Data: BLANK01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
    Type: Blank         V4BLK0328;;;;;
    Vial: 6             ;3;BLANK;;;gm-allap9.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: V4BLK01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method

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```

```
 8   Type: Sample       0903251-22;;;;;  vial1 TB
     Vial: 7            tet.v03251;0;;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0325122.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 9   Type: Sample       0903251-23;;;;;  vial1 TB
     Vial: 8            tet.v03251;0;;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0325123.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10   Type: Sample       0903262-22;;;;;  vial1 TB
     Vial: 9            tet.v03262;0;;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326222.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11   Type: Sample       0903251-21;;;;;  vial1
     Vial: 10           tet.v03251;0;;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0325121.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12   Type: Sample       0903262-21;;;;;  vial1
     Vial: 11           tet.v03262;0;;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326221.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13   Type: Sample       0903292-01;;;;;  vial1 50X
     Vial: 12           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329201D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14   Type: Sample       0903292-02;;;;;  vial1
     Vial: 13           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329202.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15   Type: Sample       0903292-03;;;;;  vial1 200X
     Vial: 14           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329203D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16   Type: Sample       0903292-04;;;;;  vial1 50X
     Vial: 15           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329204D.D   Samp Amt: 0          Multiplr: 1
```

pH<2

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     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 17  Type: Sample       0903292-05;;;;;  vial1 50X
     Vial: 16           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329205D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 18  Type: Sample       0903292-06;;;;;  vial1 25X
     Vial: 17           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329206D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 19  Type: Sample       0903292-07;;;;;  vial1 50X
     Vial: 18           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329207D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 20  Type: Sample       0903292-08;;;;;  vial1 10X
     Vial: 19           b&c.v03292;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329208D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 21  Type: Sample       0903279-01;;;;;  vial1 5X
     Vial: 20           blu.v03279;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0327901D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 22  Type: Sample       0903279-02;;;;;  vial1 5X
     Vial: 21           blu.v03279;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0327902D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 23  Type: Sample       0903282-01;;;;;  vial1 5X
     Vial: 22           gri.v03282;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328201D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
  4  Type: Sample       0903290-01;;;;;  vial1 200X
     Vial: 23           gri.v03290;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0329001D.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
  5  Type: Spike        V4BLK0328LCSD;;;;; 50ppb

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```

pH 2 9610

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     Vial: 24            ;3;LCSD;;;gm-all.sub;#5717,5721, 5630
     Meth: VWATER4.M    Barcode:
     Data: V4LCD01.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 26  Type: BFB          V4BFB50NG;;;;;
     Vial: 50           ;3;;;;all.sub;#5646
     Meth: V4BFB.M      Barcode:
     Data: V4BFB01E.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 27  Type: DailyCal     V4STD100ppb;;;;;
     Vial: 25            ;;;;8;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4CCV01E.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 28  Type: Spike        V4BLK0328ELCS;;;;; 50ppb
     Vial: 26            ;3;LCS;;;gm-all.sub;#5717,5721, 5630
     Meth: VWATER4.M    Barcode:
     Data: V4LCS01E.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 29  Type: DailyCal     V4STD01ppb;;;;;
     Vial: 27            ;;;;8;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4RL01E.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 30  Type: Blank        V4BLK;;;;;
     Vial: 28           ;3;BLANK;;;gm-allap9.sub;#5577
     Meth: VWATER4.M    Barcode:
     Data: BLANK01E.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 31  Type: Blank        V4BLK0328E;;;;;
     Vial: 29           ;3;BLANK;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: V4BLK01E.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 32  Type: Sample       0903259-05;;;;;  vial1 TB
     Vial: 30           nas.v03259;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0325905.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
  3  Type: Sample       0903267-01;;;;;  vial1 TB
     Vial: 31           sha.v03267;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326701.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method

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961

pH<2

```
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
34  Type: Sample       0903258-01;;;;;  vial1 5X
    Vial: 32           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325801D.D   Samp Amt: 0          Multiplr: 1
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
35  Type: Sample       0903258-02;;;;;  vial1 5X
    Vial: 33           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325802D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
36  Type: Sample       0903258-03;;;;;  vial1 5X
    Vial: 34           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325803D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
37  Type: Sample       0903258-04;;;;;  vial1 5X
    Vial: 35           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325804D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
38  Type: Sample       0903258-05;;;;;  vial1 5X
    Vial: 36           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325805D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
39  Type: Sample       0903259-01;;;;;  vial1
    Vial: 37           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325901.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
40  Type: Sample       0903259-02;;;;;  vial1
    Vial: 38           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325902.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
41  Type: Sample       0903259-03;;;;;  vial1
    Vial: 39           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325903.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
42  Type: Sample       0903259-04;;;;;  vial1
    Vial: 40           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:

Sequence:032809V4.S  Last Modified:Sun Mar 29 10:04:58 2009  Page: 5
```

9612

pH<2

```
     Data: 0325904.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 43  Type: Sample       0903266-01;;;;;  vial1
     Vial: 41           sha.v03266;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326601.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 44  Type: Sample       0903266-02;;;;;  vial1
     Vial: 42           sha.v03266;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326602.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 45  Type: Sample       0903266-03;;;;;  vial1
     Vial: 43           sha.v03266;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326603.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 46  Type: Sample       0903266-04;;;;;  vial1
     Vial: 44           sha.v03266;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326604.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 47  Type: Sample       0903267-02;;;;;  vial1
     Vial: 45           sha.v03267;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326702.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 48  Type: Sample       0903267-03;;;;;  vial1
     Vial: 46           sha.v03267;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326703.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 49  Type: Sample       0903267-04;;;;;  vial1
     Vial: 47           sha.v03267;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326704.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 50  Type: Sample       0903267-04;;;;;  vial1 MS
     Vial: 48           sha.v03267;3;MS;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326704M.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

pH<2

9613

```
 51  Type: Sample       0903267-04;;;;;  vial1 MSD
     Vial: 49           sha.v03267;3;MSD;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0326704S.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 52  Type: BFB          V4BFB50NG;;;;;
     Vial: 50           ;3;;;;all.sub;#5646
     Meth: V4BFB.M      Barcode:
     Data: V4BFB01F.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 53  Type: DailyCal     V4STD100ppb;;;;;
     Vial: 1             ;;;;8;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4CCV01F.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 54  Type: Spike        V4BLK0328FLCS;;;;; 50ppb
     Vial: 2             ;3;LCS;;;gm-all.sub;#5717,5721, 5630
     Meth: VWATER4.M    Barcode:
     Data: V4LCS01F.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 55  Type: Spike        V4BLK0328FLCS;;;;; 20ppb
     Vial: 3             ;3;LCS;;;gm-all.sub;#5717,5721, 5630
     Meth: VWATER4.M    Barcode:
     Data: V4LCS624.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 56  Type: DailyCal     V4STD01ppb;;;;;
     Vial: 4             ;;;;8;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4RL01F.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 57  Type: Blank        V4BLK;;;;;
     Vial: 5            ;3;BLANK;;;gm-allap9.sub;#5577
     Meth: VWATER4.M    Barcode:
     Data: BLANK01F.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 58  Type: Blank        V4BLK0328F;;;;;
     Vial: 6            ;3;BLANK;;;gm-allap9.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: V4BLK01F.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 59  Type: Sample       0903289-05;;;;;  vial1 TB
     Vial: 7            hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328905.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method

Sequence:032809V4.S  Last Modified:Sun Mar 29 10:04:58 2009  Page: 7
```

pH<2 9614

pH<2

```
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 60  Type: Sample      0903289-06;;;;;  vial1 TB
    Vial: 8           hyd.v03289;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328906.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 61  Type: Sample      0903286-01;;;;  vial1
    Vial: 9           sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328601.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 62  Type: Sample      0903286-02;;;;  vial1
    Vial: 10          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328602.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 63  Type: Sample      0903286-03;;;;  vial1
    Vial: 11          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328603.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 64  Type: Sample      0903286-04;;;;  vial1
    Vial: 12          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328604.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 65  Type: Sample      0903286-05;;;;  vial1
    Vial: 13          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328605.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 66  Type: Sample      0903286-06;;;;  vial1
    Vial: 14          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328606.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 67  Type: Sample      0903286-07;;;;  vial1
    Vial: 15          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328607.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
 ---------------------------------------------------------------------
 58  Type: Sample      0903286-08;;;;  vial1
    Vial: 16          sha.v03286;0;;;;gm-all.sub;#5646

Sequence:032809V4.S  Last Modified:Sun Mar 29 10:04:58 2009  Page: 8
```

pH 2.2 9615

```
     Meth: VWATER4.M   Barcode:
     Data: 0328608.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 69  Type: Sample      0903286-09;;;;  vial1
     Vial: 17          sha.v03286;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328609.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 70  Type: Sample      0903289-01;;;;  vial1
     Vial: 18          hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328901.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 71  Type: Sample      0903289-02;;;;  vial1
     Vial: 19          hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328902.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 72  Type: Sample      0903289-03;;;;  vial1
     Vial: 20          hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328903.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 73  Type: Sample      0903289-04;;;;  vial1
     Vial: 21          hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328904.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 74  Type: Sample      0903303-01;;;;  vial1
     Vial: 22          sha.v03303;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0330301.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 75  Type: Sample      0903303-02;;;;  vial1
     Vial: 23          sha.v03303;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0330302.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
 76  Type: Sample      0903280-01;;;;  vial1 624
     Vial: 24          par.v03280;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M   Barcode:
     Data: 0328001.D   Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
```

pH~2

9616

```
------------------------------------------------------------------------
77  Type: Spike        V4BLK0328FLCSD;;;;; 50ppb
    Vial: 25            ;3;LCSD;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M    Barcode:
    Data: V4LCD01F.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
------------------------------------------------------------------------
```

9617

Sequence Name: C:\HPCHEM\1\SEQUENCE\032909V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032909v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8691
3-31-09 JH

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;; 12:12 PM 3-29-09 JH
2	ICal	1	V1CCV01	VSOIL1	V1STD100ppb;;;;;
3	ICal	2	V1CCVA9	VSOIL1	V1STD100ppb;;;;;
4	Sample	3	V1LCS01	VSOIL1	V1BLK0329LCS;;;;; 50ppb
5	Sample	4	BLANK02	VSOIL1	V1BLK;;;;;
6	Sample	5	V1BLK01	VSOIL1	V1BLK0329;;;;;
7	Sample	6	0325102A	VSOIL1	0903251-02;;4.08;;; A VIAL
8	Sample	7	0325104A	VSOIL1	0903251-04;;4.74;;; A VIAL
9	Sample	8	0325106A	VSOIL1	0903251-06;;4.97;;; A VIAL
10	Sample	9	0325108A	VSOIL1	0903251-08;;4.37;;; A VIAL
11	Sample	10	0325110A	VSOIL1	0903251-10;;4.90;;; A VIAL
12	Sample	11	0325112A	VSOIL1	0903251-12;;4.86;;; A VIAL
13	Sample	12	0325114A	VSOIL1	0903251-14;;4.63;;; A VIAL
14	Sample	13	0325116A	VSOIL1	0903251-16;;4.70;;; A VIAL
15	Sample	14	0325118A	VSOIL1	0903251-18;;4.68;;; A VIAL
16	Sample	15	0325120A	VSOIL1	0903251-20;;5.01;;; A VIAL
17	Sample	16	V1LCD01	VSOIL1	V1BLK0329LCSD;;;;; 50ppb 10:23 PM 3-29-09 JH
18	QC	50	V1BFB01E	V1BFB	V1BFB 50ng;;;;;
19	ICal	17	V1CCV01E	VSOIL1	V1STD100ppb;;;;;
20	ICal	18	V1CCVA9E	VSOIL1	V1STD100ppb;;;;;
21	Sample	19	V1LCS01E	VSOIL1	V1BLK0329ELCS;;;;; 50ppb
22	Sample	20	BLANK02E	VSOIL1	V1BLK;;;;;
23	Sample	21	V1BLK01E	VSOIL1	V1BLK0329E;;;;;
24	Sample	22	0326202A	VSOIL1	0903262-02;;4.53;;; A VIAL
25	Sample	23	0326204A	VSOIL1	0903262-04;;4.90;;; A VIAL
26	Sample	24	0326206A	VSOIL1	0903262-06;;4.92;;; A VIAL
27	Sample	25	0326208A	VSOIL1	0903262-08;;4.82;;; A VIAL
28	Sample	26	0326210A	VSOIL1	0903262-10;;5.28;;; A VIAL
29	Sample	27	0326212A	VSOIL1	0903262-12;;4.84;;; A VIAL
30	Sample	28	0326214A	VSOIL1	0903262-14;;4.70;; A VIAL
31	Sample	29	0326216A	VSOIL1	0903262-16;;4.64;; A VIAL
32	Sample	30	0326218A	VSOIL1	0903262-18;;4.23;; A VIAL
33	Sample	31	0326220A	VSOIL1	0903262-20;;4.69;; A VIAL
34	Sample	32	0326301A	VSOIL1	0903263-01;;5.0;; A VIAL
35	Sample	33	0326302A	VSOIL1	0903263-02;;5.0;; A VIAL
36	Sample	34	0326202M	VSOIL1	0903262-02;;4.52;; A VIAL MS
37	Sample	35	0326202S	VSOIL1	0903262-02;;4.17;; A VIAL MSD

Sequence Name: C:\HPCHEM\1\SEQUENCE\032909V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032909v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8B2

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: QC	V1BFB 50ng;;;;;	
	Vial: 50	;3;BFB;;;all.sub;#5646	
	Meth: V1BFB.M	Barcode:	
	Data: V1BFB01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
2	Type: ICal	V1STD100ppb;;;;;	
	Vial: 1	;;;;6;gm-all.sub;#5717,5720	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCV01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
3	Type: ICal	V1STD100ppb;;;;;	
	Vial: 2	;;;;6;ap9hex.sub;#5717,5720,5629	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCVA9.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	V1BLK0329LCS;;;;; 50ppb	
	Vial: 3	;3;LCS;;;gm-all.sub;#5717,5721	
	Meth: VSOIL1.M	Barcode:	
	Data: V1LCS01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	V1BLK;;;;;	
	Vial: 4	;3;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: BLANK02.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	V1BLK0329;;;;;	
	Vial: 5	;3;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: V1BLK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	0903251-02;;4.08;;; A VIAL	
	Vial: 6	tet.v03251;0;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: 0325102A.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	0903251-04;;4.74;;; A VIAL	
	Vial: 7	tet.v03251;0;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	

Data: 0325104A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

8693

---

9 Type: Sample 0903251-06;;4.97;;; A VIAL
Vial: 8 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325106A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

10 Type: Sample 0903251-08;;4.37;;; A VIAL
Vial: 9 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325108A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

11 Type: Sample 0903251-10;;4.90;;; A VIAL
Vial: 10 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325110A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

12 Type: Sample 0903251-12;;4.86;;; A VIAL
Vial: 11 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325112A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

13 Type: Sample 0903251-14;;4.63;;; A VIAL
Vial: 12 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325114A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

14 Type: Sample 0903251-16;;4.70;;; A VIAL
Vial: 13 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325116A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

15 Type: Sample 0903251-18;;4.68;;; A VIAL
Vial: 14 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325118A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

16 Type: Sample 0903251-20;;5.01;;; A VIAL
Vial: 15 tet.v03251;0;;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0325120A.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

17 Type: Sample V1BLK0329LCSD;;;;; 50ppb
Vial: 16 ;3;LCSD;;;gm-all.sub;#5717,5721
Meth: VSOIL1.M Barcode:
Data: V1LCD01.D Samp Amt: 0 Multiplr: 1

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: QC          V1BFB 50ng;;;;;
    Vial: 50          ;3;BFB;;;all.sub;#5646
    Meth: V1BFB.M     Barcode:
    Data: V1BFB01E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: ICal        V1STD100ppb;;;;;
    Vial: 17          ;;;;6;gm-all.sub;#5717,5720
    Meth: VSOIL1.M    Barcode:
    Data: V1CCV01E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: ICal        V1STD100ppb;;;;;
    Vial: 18          ;;;;6;ap9hex.sub;#5717,5720,5629
    Meth: VSOIL1.M    Barcode:
    Data: V1CCVA9E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      V1BLK0329ELCS;;;;;  50ppb
    Vial: 19          ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VSOIL1.M    Barcode:
    Data: V1LCS01E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample      V1BLK;;;;;
    Vial: 20          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample      V1BLK0329E;;;;;
    Vial: 21          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: V1BLK01E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      0903262-02;;4.53;;;  A VIAL
    Vial: 22          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326202A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      0903262-04;;4.90;;;  A VIAL
    Vial: 23          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326204A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      0903262-06;;4.92;;;  A VIAL
    Vial: 24          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326206A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

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     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 27  Type: Sample      0903262-08;;4.82;;;  A VIAL
     Vial: 25          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326208A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 28  Type: Sample      0903262-10;;5.28;;;  A VIAL
     Vial: 26          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326210A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 29  Type: Sample      0903262-12;;4.84;;;  A VIAL
     Vial: 27          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326212A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 30  Type: Sample      0903262-14;;4.70;;  A VIAL
     Vial: 28          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326214A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 31  Type: Sample      0903262-16;;4.64;;  A VIAL
     Vial: 29          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326216A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 32  Type: Sample      0903262-18;;4.23;;  A VIAL
     Vial: 30          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326218A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 33  Type: Sample      0903262-20;;4.69;;  A VIAL
     Vial: 31          tet.v03262;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326220A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 34  Type: Sample      0903263-01;;5.0;;  A VIAL
     Vial: 32          sha.v03263;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326301A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
     CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 35  Type: Sample      0903263-02;;5.0;;  A VIAL
     Vial: 33          sha.v03263;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M    Barcode:
     Data: 0326302A.D  Samp Amt: 0          Multiplr: 1
     Area% Report    :Default          Lib. Search Rep.:Default
     Quant Report    :Default          Post-Quant Macro:Default
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CR Database :Default CR Spreadsheet :Default

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36 Type: Sample 0903262-02;;4.52;; A VIAL MS
Vial: 34 tet.v03262;3;MS;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0326202M.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

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37 Type: Sample 0903262-02;;4.17;; A VIAL MSD
Vial: 35 tet.v03262;3;MSD;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0326202S.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS04-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325101

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 16:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	38	340		U
205-99-2	Benzo(b)fluoranthene	33	340		U
207-08-9	Benzo(k)fluoranthene	41	340		U
191-24-2	Benzo(g,h,i)perylene	73	340		U
50-32-8	Benzo(a)pyrene	24	340		U
100-51-6	Benzyl alcohol	47	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	53	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	27	340		U
85-68-7	Butylbenzylphthalate	31	340		U
106-47-8	4-Chloroaniline	50	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	29	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	33	340		U
120-83-2	2,4-Dichlorophenol	20	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS04-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325101

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 16:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	CONC	UG/KG Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	41	340		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS04-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325101

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 16:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	34	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	98	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	57	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	24	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS04-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325101

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 16:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	27	340		U
95-95-4	2,4,5-Trichlorophenol	28	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325103

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	350		U
208-96-8	Acenaphthylene	20	350		U
98-86-2	Acetophenone	42	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	42	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	28	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	73	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	42	350		U
108-60-1	bis(2-Chloroisopropyl)ether	53	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	33	350		U
95-57-8	2-Chlorophenol	42	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	32	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	62	350		U
132-64-9	Dibenzofuran	25	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	35	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325103

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	39	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	27	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	29	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325103

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	40	350		U
108-39-4	3-Methylphenol	28	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	99	350		U
86-30-6	N-Nitrosodiphenylamine (1)	33	350		U
621-64-7	N-Nitroso-di-n-propylamine	57	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS05-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325103

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	41	350		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	36	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS06-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:43

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	350		U
208-96-8	Acenaphthylene	20	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	28	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	74	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	43	350		U
108-60-1	bis(2-Chloroisopropyl)ether	54	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	34	350		U
95-57-8	2-Chlorophenol	43	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	32	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	63	350		U
132-64-9	Dibenzofuran	26	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	36	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS06-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:43

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	40	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	27	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	7000		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	30	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS06-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:43

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	37	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	40	350		U
108-39-4	3-Methylphenol	28	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	85	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	100	350		U
86-30-6	N-Nitrosodiphenylamine (1)	34	350		U
621-64-7	N-Nitroso-di-n-propylamine	58	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS06-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325105

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 17:43

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
108-95-2	Phenol	38	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	42	350		U
110-86-1	Pyridine	57	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	36	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325107

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:19

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	350		U
208-96-8	Acenaphthylene	21	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	29	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	74	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	43	350		U
108-60-1	bis(2-Chloroisopropyl)ether	54	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	34	350		U
95-57-8	2-Chlorophenol	43	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	33	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	63	350		U
132-64-9	Dibenzofuran	26	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	36	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325107

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:19

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	40	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	28	350		U
118-74-1	Hexachlorobenzene	37	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	7000		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	49	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	30	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325107

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:19

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
91-57-6	2-Methylnaphthalene	37	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	41	350		U
108-39-4	3-Methylphenol	29	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	85	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	100	350		U
86-30-6	N-Nitrosodiphenylamine (1)	34	350		U
621-64-7	N-Nitroso-di-n-propylamine	58	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS07-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325107

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:19

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
108-95-2	Phenol	38	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	42	350		U
110-86-1	Pyridine	57	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	37	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325109

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/17/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	360		U
208-96-8	Acenaphthylene	21	360		U
98-86-2	Acetophenone	44	360		U
53-96-3	2-Acetylaminofluorene	110	360		U
92-67-1	4-Aminobiphenyl	110	360		U
62-53-3	Aniline	44	360		U
140-57-8	Aramite	110	360		U
120-12-7	Anthracene	29	360		U
56-55-3	Benzo(a)anthracene	39	360		U
205-99-2	Benzo(b)fluoranthene	34	360		U
207-08-9	Benzo(k)fluoranthene	42	360		U
191-24-2	Benzo(g,h,i)perylene	75	360		U
50-32-8	Benzo(a)pyrene	24	360		U
100-51-6	Benzyl alcohol	48	360		U
111-44-4	bis(2-Chloroethyl)ether	44	360		U
108-60-1	bis(2-Chloroisopropyl)ether	55	360		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	360		U
101-55-3	4-Bromophenyl-phenylether	28	360		U
85-68-7	Butylbenzylphthalate	32	360		U
106-47-8	4-Chloroaniline	51	360		U
510-15-6	Chlorobenzilate	110	360		U
59-50-7	4-Chloro-3-methylphenol	30	360		U
91-58-7	2-Chloronaphthalene	34	360		U
95-57-8	2-Chlorophenol	43	360		U
7005-72-3	4-Chlorophenyl-phenylether	33	360		U
218-01-9	Chrysene	33	360		U
2303-16-4	Diallate	110	360		U
53-70-3	Dibenz(a,h)anthracene	64	360		U
132-64-9	Dibenzofuran	26	360		U
91-94-1	3,3'-Dichlorobenzidine	34	360		U
120-83-2	2,4-Dichlorophenol	20	360		U
87-65-0	2,6-Dichlorophenol	110	360		U
84-66-2	Diethylphthalate	36	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325109

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/17/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
60-51-5	Dimethoate	110	360		U
60-11-7	p-(Dimethylamino)azobenzene	110	360		U
57-97-6	7,12-Dimethylbenz[a]anthrace	110	360		U
119-93-7	3,3'-Dimethylbenzidine	110	360		U
122-09-8	a,a-Dimethyl-phenethylamine	110	360		U
105-67-9	2,4-Dimethylphenol	23	1400		U
131-11-3	Dimethylphthalate	32	360		U
84-74-2	Di-n-butylphthalate	32	360		U
99-65-0	m-Dinitrobenzene	110	360		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3600		U
121-14-2	2,4-Dinitrotoluene	26	360		U
606-20-2	2,6-Dinitrotoluene	40	360		U
117-84-0	Di-n-octylphthalate	29	360		U
122-39-4	Diphenylamine	110	360		U
298-04-4	Disulfoton	110	360		U
62-50-0	Ethyl methanesulfonate	110	360		U
52-85-7	Famphur	110	360		U
206-44-0	Fluoranthene	57	360		U
86-73-7	Fluorene	28	360		U
118-74-1	Hexachlorobenzene	37	360		U
87-68-3	Hexachlorobutadiene	35	360		U
77-47-4	Hexachlorocyclopentadiene	65	360		U
67-72-1	Hexachloroethane	42	360		U
70-30-4	Hexachlorophene	110	7100		U
1888-71-7	Hexachloropropene	110	360		U
193-39-5	Indeno(1,2,3-cd)pyrene	49	360		U
465-73-6	Isodrin	110	360		U
78-59-1	Isophorone	30	360		U
120-58-1	Isosafrole	110	360		U
91-80-5	Methapyrilene	110	360		U
56-49-5	3-Methylcholanthrene	110	360		U
66-27-3	Methyl methanesulfonate	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325109

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/17/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	37	360		U
298-00-0	Methyl parathion	110	360		U
95-48-7	2-Methylphenol	41	360		U
108-39-4	3-Methylphenol	29	360		U
91-20-3	Naphthalene	34	360		U
106-44-5	4-Methylphenol	28	360		U
130-15-4	1,4-Naphthoquinone	110	360		U
134-32-7	1-Naphthylamine	110	360		U
91-59-8	2-Naphthylamine	110	360		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	110	1400		U
98-95-3	Nitrobenzene	37	360		U
88-75-5	2-Nitrophenol	24	360		U
100-02-7	4-Nitrophenol	86	1400		U
56-57-5	4-Nitroquinoline-1-oxide	110	360		U
924-16-3	N-Nitrosodi-n-butylamine	110	360		U
55-18-5	N-Nitrosodiethylamine	110	360		U
62-75-9	N-Nitroso-di-methylamine	100	360		U
86-30-6	N-Nitrosodiphenylamine (1)	34	360		U
621-64-7	N-Nitroso-di-n-propylamine	58	360		U
10595-95-6	N-Nitrosomethylethylamine	110	360		U
59-89-2	N-Nitrosomorpholine	110	360		U
100-75-4	N-Nitrosopiperidine	110	360		U
930-55-2	N-Nitrosopyrrolidine	110	360		U
99-55-8	5-Nitro-o-toluidine	110	360		U
56-38-2	Parathion	110	360		U
608-93-5	Pentachlorobenzene	110	360		U
76-01-7	Pentachloroethane	110	360		U
82-68-8	Pentachloronitrobenzene	110	360		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	110	360		U
85-01-8	Phenanthrene	24	360		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS08-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325109

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/17/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 18:55

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	38	360		U
106-50-3	p-Phenylenediamine	110	360		U
298-02-2	Phorate	110	360		U
109-06-8	2-Picoline	110	360		U
23950-58-5	Pronamide	110	360		U
129-00-0	Pyrene	42	360		U
110-86-1	Pyridine	58	1400		U
94-59-7	Safrole	110	360		U
3689-24-5	Sulfotepp	110	360		U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	110	360		U
297-97-2	Thionazin	110	360		U
95-53-4	o-Toluidine	110	360		U
120-82-1	1,2,4-Trichlorobenzene	28	360		U
95-95-4	2,4,5-Trichlorophenol	28	360		U
88-06-2	2,4,6-Trichlorophenol	37	360		U
126-68-1	O,O,O-Triethylphosphorothioa	110	360		U
99-35-4	sym-Trinitrobenzene	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325111

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 19:32

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	350		U
208-96-8	Acenaphthylene	21	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	29	350		U
56-55-3	Benzo(a)anthracene	38	350	41	I
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	74	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	43	350		U
108-60-1	bis(2-Chloroisopropyl)ether	54	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	34	350		U
95-57-8	2-Chlorophenol	43	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	33	350	47	I
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	63	350		U
132-64-9	Dibenzofuran	26	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	36	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325111

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 19:32

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	40	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350	60	I
86-73-7	Fluorene	28	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	7000		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	30	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325111

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 19:32

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	37	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	41	350		U
108-39-4	3-Methylphenol	29	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	85	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	100	350		U
86-30-6	N-Nitrosodiphenylamine (1)	34	350		U
621-64-7	N-Nitroso-di-n-propylamine	58	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350	38	I

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS09-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325111

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 19:32

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	38	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	42	350	64	I
110-86-1	Pyridine	57	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	37	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325113

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/17/09 12:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 01:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	360		U
208-96-8	Acenaphthylene	21	360		U
98-86-2	Acetophenone	44	360		U
53-96-3	2-Acetylaminofluorene	110	360		U
92-67-1	4-Aminobiphenyl	110	360		U
62-53-3	Aniline	44	360		U
140-57-8	Aramite	110	360		U
120-12-7	Anthracene	29	360		U
56-55-3	Benzo(a)anthracene	39	360	270	I
205-99-2	Benzo(b)fluoranthene	34	360	380	
207-08-9	Benzo(k)fluoranthene	42	360	150	I
191-24-2	Benzo(g,h,i)perylene	76	360	220	I
50-32-8	Benzo(a)pyrene	25	360	280	I
100-51-6	Benzyl alcohol	48	360		U
111-44-4	bis(2-Chloroethyl)ether	44	360		U
108-60-1	bis(2-Chloroisopropyl)ether	55	360		U
117-81-7	Bis(2-ethylhexyl)phthalate	39	360		U
101-55-3	4-Bromophenyl-phenylether	28	360		U
85-68-7	Butylbenzylphthalate	32	360		U
106-47-8	4-Chloroaniline	52	360		U
510-15-6	Chlorobenzilate	110	360		U
59-50-7	4-Chloro-3-methylphenol	30	360		U
91-58-7	2-Chloronaphthalene	34	360		U
95-57-8	2-Chlorophenol	44	360		U
7005-72-3	4-Chlorophenyl-phenylether	33	360		U
218-01-9	Chrysene	33	360	300	I
2303-16-4	Diallate	110	360		U
53-70-3	Dibenz(a,h)anthracene	65	360		U
132-64-9	Dibenzofuran	26	360		U
91-94-1	3,3'-Dichlorobenzidine	34	360		U
120-83-2	2,4-Dichlorophenol	20	360		U
87-65-0	2,6-Dichlorophenol	110	360		U
84-66-2	Diethylphthalate	36	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325113

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/17/09 12:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 01:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	110	360		U
60-11-7	p-(Dimethylamino)azobenzene	110	360		U
57-97-6	7,12-Dimethylbenz[a]anthrace	110	360		U
119-93-7	3,3'-Dimethylbenzidine	110	360		U
122-09-8	a,a-Dimethyl-phenethylamine	110	360		U
105-67-9	2,4-Dimethylphenol	23	1400		U
131-11-3	Dimethylphthalate	33	360		U
84-74-2	Di-n-butylphthalate	33	360		U
99-65-0	m-Dinitrobenzene	110	360		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3600		U
121-14-2	2,4-Dinitrotoluene	26	360		U
606-20-2	2,6-Dinitrotoluene	41	360		U
117-84-0	Di-n-octylphthalate	29	360		U
122-39-4	Diphenylamine	110	360		U
298-04-4	Disulfoton	110	360		U
62-50-0	Ethyl methanesulfonate	110	360		U
52-85-7	Famphur	110	360		U
206-44-0	Fluoranthene	58	360	380	
86-73-7	Fluorene	28	360		U
118-74-1	Hexachlorobenzene	37	360		U
87-68-3	Hexachlorobutadiene	35	360		U
77-47-4	Hexachlorocyclopentadiene	66	360		U
67-72-1	Hexachloroethane	42	360		U
70-30-4	Hexachlorophene	110	7200		U
1888-71-7	Hexachloropropene	110	360		U
193-39-5	Indeno(1,2,3-cd)pyrene	50	360	220	I
465-73-6	Isodrin	110	360		U
78-59-1	Isophorone	30	360		U
120-58-1	Isosafrole	110	360		U
91-80-5	Methapyrilene	110	360		U
56-49-5	3-Methylcholanthrene	110	360		U
66-27-3	Methyl methanesulfonate	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325113

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/17/09 12:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 01:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	38	360		U
298-00-0	Methyl parathion	110	360		U
95-48-7	2-Methylphenol	42	360		U
108-39-4	3-Methylphenol	29	360		U
91-20-3	Naphthalene	35	360		U
106-44-5	4-Methylphenol	28	360		U
130-15-4	1,4-Naphthoquinone	110	360		U
134-32-7	1-Naphthylamine	110	360		U
91-59-8	2-Naphthylamine	110	360		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	51	1400		U
100-01-6	4-Nitroaniline	110	1400		U
98-95-3	Nitrobenzene	37	360		U
88-75-5	2-Nitrophenol	24	360		U
100-02-7	4-Nitrophenol	87	1400		U
56-57-5	4-Nitroquinoline-1-oxide	110	360		U
924-16-3	N-Nitrosodi-n-butylamine	110	360		U
55-18-5	N-Nitrosodiethylamine	110	360		U
62-75-9	N-Nitroso-di-methylamine	100	360		U
86-30-6	N-Nitrosodiphenylamine (1)	34	360		U
621-64-7	N-Nitroso-di-n-propylamine	59	360		U
10595-95-6	N-Nitrosomethylethylamine	110	360		U
59-89-2	N-Nitrosomorpholine	110	360		U
100-75-4	N-Nitrosopiperidine	110	360		U
930-55-2	N-Nitrosopyrrolidine	110	360		U
99-55-8	5-Nitro-o-toluidine	110	360		U
56-38-2	Parathion	110	360		U
608-93-5	Pentachlorobenzene	110	360		U
76-01-7	Pentachloroethane	110	360		U
82-68-8	Pentachloronitrobenzene	110	360		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	110	360		U
85-01-8	Phenanthrene	24	360	260	I

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS10-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325113

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/17/09 12:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 01:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	39	360		U
106-50-3	p-Phenylenediamine	110	360		U
298-02-2	Phorate	110	360		U
109-06-8	2-Picoline	110	360		U
23950-58-5	Pronamide	110	360		U
129-00-0	Pyrene	43	360	500	
110-86-1	Pyridine	58	1400		U
94-59-7	Safrole	110	360		U
3689-24-5	Sulfotepp	110	360		U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	110	360		U
297-97-2	Thionazin	110	360		U
95-53-4	o-Toluidine	110	360		U
120-82-1	1,2,4-Trichlorobenzene	28	360		U
95-95-4	2,4,5-Trichlorophenol	29	360		U
88-06-2	2,4,6-Trichlorophenol	38	360		U
126-68-1	O,O,O-Triethylphosphorothioa	110	360		U
99-35-4	sym-Trinitrobenzene	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS11-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325115

% Moisture: 0 decanted: (Y/N) N Date Sampled: 03/17/09 12:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	26	330		U
208-96-8	Acenaphthylene	20	330		U
98-86-2	Acetophenone	41	330		U
53-96-3	2-Acetylaminofluorene	100	330		U
92-67-1	4-Aminobiphenyl	100	330		U
62-53-3	Aniline	41	330		U
140-57-8	Aramite	100	330		U
120-12-7	Anthracene	27	330		U
56-55-3	Benzo(a)anthracene	36	330		U
205-99-2	Benzo(b)fluoranthene	32	330		U
207-08-9	Benzo(k)fluoranthene	39	330		U
191-24-2	Benzo(g,h,i)perylene	70	330		U
50-32-8	Benzo(a)pyrene	23	330		U
100-51-6	Benzyl alcohol	45	330		U
111-44-4	bis(2-Chloroethyl)ether	41	330		U
108-60-1	bis(2-Chloroisopropyl)ether	51	330		U
117-81-7	Bis(2-ethylhexyl)phthalate	36	330		U
101-55-3	4-Bromophenyl-phenylether	26	330		U
85-68-7	Butylbenzylphthalate	30	330		U
106-47-8	4-Chloroaniline	48	330		U
510-15-6	Chlorobenzilate	100	330		U
59-50-7	4-Chloro-3-methylphenol	28	330		U
91-58-7	2-Chloronaphthalene	32	330		U
95-57-8	2-Chlorophenol	41	330		U
7005-72-3	4-Chlorophenyl-phenylether	31	330		U
218-01-9	Chrysene	31	330		U
2303-16-4	Diallate	100	330		U
53-70-3	Dibenz(a,h)anthracene	60	330		U
132-64-9	Dibenzofuran	24	330		U
91-94-1	3,3'-Dichlorobenzidine	31	330		U
120-83-2	2,4-Dichlorophenol	19	330		U
87-65-0	2,6-Dichlorophenol	100	330		U
84-66-2	Diethylphthalate	34	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS11-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325115

% Moisture: 0 decanted: (Y/N) N Date Sampled: 03/17/09 12:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	330		U
60-11-7	p-(Dimethylamino)azobenzene	100	330		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	330		U
119-93-7	3,3'-Dimethylbenzidine	100	330		U
122-09-8	a,a-Dimethyl-phenethylamine	100	330		U
105-67-9	2,4-Dimethylphenol	21	1300		U
131-11-3	Dimethylphthalate	30	330		U
84-74-2	Di-n-butylphthalate	30	330		U
99-65-0	m-Dinitrobenzene	100	330		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1300		U
51-28-5	2,4-Dinitrophenol	130	3300		U
121-14-2	2,4-Dinitrotoluene	24	330		U
606-20-2	2,6-Dinitrotoluene	38	330		U
117-84-0	Di-n-octylphthalate	27	330		U
122-39-4	Diphenylamine	100	330		U
298-04-4	Disulfoton	100	330		U
62-50-0	Ethyl methanesulfonate	100	330		U
52-85-7	Famphur	100	330		U
206-44-0	Fluoranthene	54	330		U
86-73-7	Fluorene	26	330		U
118-74-1	Hexachlorobenzene	35	330		U
87-68-3	Hexachlorobutadiene	33	330		U
77-47-4	Hexachlorocyclopentadiene	61	330		U
67-72-1	Hexachloroethane	39	330		U
70-30-4	Hexachlorophene	100	6700		U
1888-71-7	Hexachloropropene	100	330		U
193-39-5	Indeno(1,2,3-cd)pyrene	46	330		U
465-73-6	Isodrin	100	330		U
78-59-1	Isophorone	28	330		U
120-58-1	Isosafrole	100	330		U
91-80-5	Methapyrilene	100	330		U
56-49-5	3-Methylcholanthrene	100	330		U
66-27-3	Methyl methanesulfonate	100	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS11-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325115

% Moisture: 0 decanted: (Y/N) N Date Sampled: 03/17/09 12:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	35	330		U
298-00-0	Methyl parathion	100	330		U
95-48-7	2-Methylphenol	39	330		U
108-39-4	3-Methylphenol	27	330		U
91-20-3	Naphthalene	32	330		U
106-44-5	4-Methylphenol	26	330		U
130-15-4	1,4-Naphthoquinone	100	330		U
134-32-7	1-Naphthylamine	100	330		U
91-59-8	2-Naphthylamine	100	330		U
88-74-4	2-Nitroaniline	32	1300		U
99-09-2	3-Nitroaniline	47	1300		U
100-01-6	4-Nitroaniline	100	1300		U
98-95-3	Nitrobenzene	34	330		U
88-75-5	2-Nitrophenol	22	330		U
100-02-7	4-Nitrophenol	81	1300		U
56-57-5	4-Nitroquinoline-1-oxide	100	330		U
924-16-3	N-Nitrosodi-n-butylamine	100	330		U
55-18-5	N-Nitrosodiethylamine	100	330		U
62-75-9	N-Nitroso-di-methylamine	95	330		U
86-30-6	N-Nitrosodiphenylamine (1)	32	330		U
621-64-7	N-Nitroso-di-n-propylamine	55	330	310	I
10595-95-6	N-Nitrosomethylethylamine	100	330		U
59-89-2	N-Nitrosomorpholine	100	330		U
100-75-4	N-Nitrosopiperidine	100	330		U
930-55-2	N-Nitrosopyrrolidine	100	330		U
99-55-8	5-Nitro-o-toluidine	100	330		U
56-38-2	Parathion	100	330		U
608-93-5	Pentachlorobenzene	100	330		U
76-01-7	Pentachloroethane	100	330		U
82-68-8	Pentachloronitrobenzene	100	330		U
87-86-5	Pentachlorophenol	34	1300		U
62-44-2	Phenacetin	100	330		U
85-01-8	Phenanthrene	23	330		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-SS11-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325115

% Moisture: 0 decanted: (Y/N) N Date Sampled: 03/17/09 12:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
108-95-2	Phenol	36	330		U
106-50-3	p-Phenylenediamine	100	330		U
298-02-2	Phorate	100	330		U
109-06-8	2-Picoline	100	330		U
23950-58-5	Pronamide	100	330		U
129-00-0	Pyrene	40	330		U
110-86-1	Pyridine	54	1300		U
94-59-7	Safrole	100	330		U
3689-24-5	Sulfotepp	100	330		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	330		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	330		U
297-97-2	Thionazin	100	330		U
95-53-4	o-Toluidine	100	330		U
120-82-1	1,2,4-Trichlorobenzene	26	330		U
95-95-4	2,4,5-Trichlorophenol	27	330		U
88-06-2	2,4,6-Trichlorophenol	35	330		U
126-68-1	O,O,O-Triethylphosphorothioa	100	330		U
99-35-4	sym-Trinitrobenzene	100	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS12-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325117

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 12:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:08

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	37	340		U
205-99-2	Benzo(b)fluoranthene	32	340		U
207-08-9	Benzo(k)fluoranthene	40	340		U
191-24-2	Benzo(g,h,i)perylene	72	340		U
50-32-8	Benzo(a)pyrene	23	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	52	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	26	340		U
85-68-7	Butylbenzylphthalate	30	340		U
106-47-8	4-Chloroaniline	49	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	28	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS12-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325117

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 12:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:08

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	31	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	40	340		U
70-30-4	Hexachlorophene	100	6800		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	47	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS12-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325117

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 12:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:08

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	33	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	48	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	35	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	83	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	97	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	56	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	23	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS12-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325117

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 12:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:08

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	55	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	26	340		U
95-95-4	2,4,5-Trichlorophenol	27	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325119

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 13:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	38	340		U
205-99-2	Benzo(b)fluoranthene	33	340		U
207-08-9	Benzo(k)fluoranthene	41	340		U
191-24-2	Benzo(g,h,i)perylene	73	340		U
50-32-8	Benzo(a)pyrene	24	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	53	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	27	340		U
85-68-7	Butylbenzylphthalate	31	340		U
106-47-8	4-Chloroaniline	50	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	29	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325119

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 13:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	41	340		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325119

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 13:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	34	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	98	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	57	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	24	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS13-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0325119

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 13:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 20:44

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	27	340		U
95-95-4	2,4,5-Trichlorophenol	28	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0325121

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 03/17/09 11:42

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 15:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.58	1.8		U
208-96-8	Acenaphthylene	0.44	0.92		U
98-86-2	Acetophenone	0.69	4.6		U
53-96-3	2-Acetylaminofluorene	1.8	4.6		U
92-67-1	4-Aminobiphenyl	1.8	4.6		U
62-53-3	Aniline	0.52	4.6		U
140-57-8	Aramite	0.92	4.6		U
120-12-7	Anthracene	0.71	1.8		U
56-55-3	Benzo(a)anthracene	0.84	4.6		U
205-99-2	Benzo(b)fluoranthene	0.66	4.6		U
207-08-9	Benzo(k)fluoranthene	0.46	1.8		U
191-24-2	Benzo(g,h,i)perylene	1.4	2.8		U
50-32-8	Benzo(a)pyrene	0.56	1.8		U
100-51-6	Benzyl alcohol	0.69	4.6		U
111-44-4	bis(2-Chloroethyl)ether	0.42	4.6		U
108-60-1	bis(2-Chloroisopropyl)ether	0.79	4.6		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2	4.6	6.4	V
101-55-3	4-Bromophenyl-phenylether	0.53	4.6		U
85-68-7	Butylbenzylphthalate	0.76	4.6		U
106-47-8	4-Chloroaniline	0.88	4.6		U
510-15-6	Chlorobenzilate	0.92	4.6		U
59-50-7	4-Chloro-3-methylphenol	0.54	4.6		U
91-58-7	2-Chloronaphthalene	0.54	4.6		U
95-57-8	2-Chlorophenol	0.55	4.6		U
7005-72-3	4-Chlorophenyl-phenylether	0.82	4.6		U
218-01-9	Chrysene	0.94	1.8		U
2303-16-4	Diallate	0.92	4.6		U
53-70-3	Dibenz(a,h)anthracene	1.6	4.6		U
132-64-9	Dibenzofuran	0.60	1.8		U
91-94-1	3,3'-Dichlorobenzidine	0.82	1.8		U
120-83-2	2,4-Dichlorophenol	0.41	0.92		U
87-65-0	2,6-Dichlorophenol	0.92	4.6		U
84-66-2	Diethylphthalate	0.94	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0325121

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 03/17/09 11:42

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 15:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	3.7	9.2		U
60-11-7	p-(Dimethylamino)azobenzene	0.92	4.6		U
57-97-6	7,12-Dimethylbenz[a]anthrace	0.92	4.6		U
119-93-7	3,3'-Dimethylbenzidine	39	92		U
122-09-8	a,a-Dimethyl-phenethylamine	0.92	4.6		U
105-67-9	2,4-Dimethylphenol	0.66	18		U
131-11-3	Dimethylphthalate	0.68	4.6		U
84-74-2	Di-n-butylphthalate	1.2	4.6		U
99-65-0	m-Dinitrobenzene	2.8	4.6		U
534-52-1	4,6-Dinitro-2-methylphenol	0.68	18		U
51-28-5	2,4-Dinitrophenol	0.79	46		U
121-14-2	2,4-Dinitrotoluene	0.45	4.6		U
606-20-2	2,6-Dinitrotoluene	0.61	4.6		U
117-84-0	Di-n-octylphthalate	0.30	4.6		U
122-39-4	Diphenylamine	0.92	4.6		U
298-04-4	Disulfoton	2.8	4.6		U
62-50-0	Ethyl methanesulfonate	0.92	4.6		U
52-85-7	Famphur	1.8	4.6		U
206-44-0	Fluoranthene	0.65	4.6		U
86-73-7	Fluorene	0.51	4.6		U
118-74-1	Hexachlorobenzene	0.44	4.6		U
87-68-3	Hexachlorobutadiene	0.86	4.6		U
77-47-4	Hexachlorocyclopentadiene	0.82	4.6		U
67-72-1	Hexachloroethane	0.42	4.6		U
70-30-4	Hexachlorophene	23	92		U
1888-71-7	Hexachloropropene	3.7	4.6		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	4.6		U
465-73-6	Isodrin	1.8	4.6		U
78-59-1	Isophorone	0.51	4.6		U
120-58-1	Isosafrole	0.92	4.6		U
91-80-5	Methapyrilene	0.92	4.6		U
56-49-5	3-Methylcholanthrene	0.92	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0325121

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 03/17/09 11:42

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 15:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	0.92	4.6		U
91-57-6	2-Methylnaphthalene	0.63	1.8		U
298-00-0	Methyl parathion	2.8	4.6		U
95-48-7	2-Methylphenol	0.77	4.6		U
108-39-4	3-Methylphenol	0.71	4.6		U
106-44-5	4-Methylphenol	0.71	4.6		U
91-20-3	Naphthalene	0.42	0.92		U
130-15-4	1,4-Naphthoquinone	0.92	4.6		U
134-32-7	1-Naphthylamine	0.92	4.6		U
91-59-8	2-Naphthylamine	0.92	4.6		U
88-74-4	2-Nitroaniline	1.1	18		U
99-09-2	3-Nitroaniline	0.97	18		U
100-01-6	4-Nitroaniline	1.9	18		U
98-95-3	Nitrobenzene	0.57	4.6		U
88-75-5	2-Nitrophenol	0.68	4.6		U
100-02-7	4-Nitrophenol	0.77	18		U
56-57-5	4-Nitroquinoline-1-oxide	0.92	4.6		U
924-16-3	N-Nitrosodi-n-butylamine	0.92	4.6		U
55-18-5	N-Nitrosodiethylamine	0.92	4.6		U
62-75-9	N-Nitroso-di-methylamine	0.83	4.6		U
86-30-6	N-Nitrosodiphenylamine (1)	0.42	4.6		U
621-64-7	N-Nitroso-di-n-propylamine	0.83	4.6		U
10595-95-6	N-Nitrosomethylethylamine	3.7	4.6		U
59-89-2	N-Nitrosomorpholine	0.92	4.6		U
100-75-4	N-Nitrosopiperidine	0.92	4.6		U
930-55-2	N-Nitrosopyrrolidine	0.92	4.6		U
99-55-8	5-Nitro-o-toluidine	1.8	4.6		U
56-38-2	Parathion	2.8	4.6		U
608-93-5	Pentachlorobenzene	3.7	9.2		U
76-01-7	Pentachloroethane	3.7	9.2		U
82-68-8	Pentachloronitrobenzene	3.7	9.2		U
87-86-5	Pentachlorophenol	0.92	9.2		U
62-44-2	Phenacetin	0.92	4.6		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0325121

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 03/17/09 11:42

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 15:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.71	1.8		U
108-95-2	Phenol	0.42	4.6		U
106-50-3	p-Phenylenediamine	0.92	4.6		U
298-02-2	Phorate	3.7	4.6		U
109-06-8	2-Picoline	6.5	6.5		U
23950-58-5	Pronamide	0.92	4.6		U
129-00-0	Pyrene	0.60	1.8		U
110-86-1	Pyridine	0.98	18		U
94-59-7	Safrole	0.92	4.6		U
3689-24-5	Sulfotepp	3.7	4.6		U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.8	4.6		U
58-90-2	2,3,4,6-Tetrachlorophenol	0.92	4.6		U
297-97-2	Thionazin	3.7	4.6		U
95-53-4	o-Toluidine	3.7	9.2		U
120-82-1	1,2,4-Trichlorobenzene	0.33	0.92		U
95-95-4	2,4,5-Trichlorophenol	0.46	0.92		U
88-06-2	2,4,6-Trichlorophenol	0.68	1.8		U
126-68-1	O,O,O-Triethylphosphorothioa	2.8	4.6		U
99-35-4	sym-Trinitrobenzene	2.8	4.6		U

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	SBLK0320BS2	57	68	62	67	70	68			0
02	SBLK0320BS2L	54	61	56	62	64	60			0
03	MPT-AOCF-SS1	52	60	57	63	67	65			0
04	MPT-AOCF-SS0	39	48	44	51	51	48			0
05	MPT-AOCF-SS0	71	82	70	74	82	82			0
06	MPT-AOCF-SS0	38	45	49	50	49	45			0
07	MPT-AOCF-SS0	56	68	59	66	67	63			0
08	MPT-AOCF-SS0	47	56	50	54	55	59			0
09	MPT-AOCF-SS0	48	52	51	56	58	56			0
10	MPT-AOCF-SS1	39	48	48	54	55	60			0
11	MPT-AOCF-SS1	49	61	56	59	63	61			0
12	MPT-AOCF-SS1	39	51	50	51	52	66			0
13										
14										
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16										
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23										
24										
25										
26										
27										
28										
29										
30										

	EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (2FP) = 2-Fluorophenol	(25-110)	6700
S2 (PHL) = Phenol-d6	(30-110)	6700
S3 (NBZ) = Nitrobenzene-d5	(30-110)	3300
S4 (FBP) = 2-Fluorobiphenyl	(35-110)	3300
S5 (TBP) = 2,4,6-Tribromophenol	(30-115)	6700
S6 (TPH) = Terphenyl-d14	(40-120)	3300

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

	CLIENT SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	SBLK0323BW1	28	20	71	78	92	95			0
02	SBLK0323BW1L	29	19	73	82	89	90			0
03	MPT-AOCF-RIN	16	12*	50	56	65	78			1
04										
05										
06										
07										
08										
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30										

	EL QC LIMITS	SPIKE CONC (UG/L)
S1 (2FP) = 2-Fluorophenol	(15-110)	100
S2 (PHL) = Phenol-d6	(15-110)	100
S3 (NBZ) = Nitrobenzene-d5	(30-110)	50
S4 (FBP) = 2-Fluorobiphenyl	(35-110)	50
S5 (TBP) = 2,4,6-Tribromophenol	(45-125)	100
S6 (TPH) = Terphenyl-d14	(55-125)	50

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0320BS2 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2390	72	45-110
Acenaphthylene	3333	0.0000	2931	88	45-105
Acetophenone	3333	0.0000	1942	58	35-110
Aniline	3333	0.0000	4258	128*	10-110
Anthracene	3333	0.0000	2229	67	55-105
Benzo(a)anthracene	3333	0.0000	2366	71	50-110
Benzo(b)fluoranthene	3333	0.0000	2526	76	45-115
Benzo(k)fluoranthene	3333	0.0000	2516	75	45-125
Benzo(g,h,i)perylene	3333	0.0000	2735	82	40-125
Benzo(a)pyrene	3333	0.0000	2695	81	50-110
Benzyl alcohol	3333	0.0000	2421	73	20-125
bis(2-Chloroethyl)ether	3333	0.0000	1776	53	40-105
bis(2-Chloroisopropyl)e	3333	0.0000	2095	63	20-115
Bis(2-ethylhexyl)phthal	3333	0.0000	2262	68	45-125
4-Bromophenyl-phenyleth	3333	0.0000	1739	52	45-115
Butylbenzylphthalate	3333	0.0000	2344	70	50-125
4-Chloroaniline	3333	0.0000	2594	78	10- 95
4-Chloro-3-methylphenol	3333	0.0000	2227	67	45-115
2-Chloronaphthalene	3333	0.0000	2303	69	45-105
2-Chlorophenol	3333	0.0000	2497	75	45-105
4-Chlorophenyl-phenylet	3333	0.0000	2261	68	45-110
Chrysene	3333	0.0000	2327	70	55-110
Dibenz(a,h)anthracene	3333	0.0000	2816	84	40-125
Dibenzofuran	3333	0.0000	2320	70	50-105
3,3'-Dichlorobenzidine	3333	0.0000	1702	51	19-130
2,4-Dichlorophenol	3333	0.0000	2080	62	45-110
Diethylphthalate	3333	0.0000	2193	66	50-115
2,4-Dimethylphenol	3333	0.0000	3232	97	30-105

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0320BS2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	3333	0.0000	2098	63	50-110
Di-n-butylphthalate	3333	0.0000	2024	61	55-110
4,6-Dinitro-2-methylphe	3333	0.0000	2152	64	30-135
2,4-Dinitrophenol	3333	0.0000	2232	67	15-130
2,4-Dinitrotoluene	3333	0.0000	2196	66	50-115
2,6-Dinitrotoluene	3333	0.0000	2103	63	50-110
Di-n-octylphthalate	3333	0.0000	2219	66	40-130
Fluoranthene	3333	0.0000	2244	67	55-115
Fluorene	3333	0.0000	2376	71	50-110
Hexachlorobenzene	3333	0.0000	2154	65	45-120
Hexachlorobutadiene	3333	0.0000	2086	62	30-110
Hexachlorocyclopentadie	3333	0.0000	2793	84	10-110
Hexachloroethane	3333	0.0000	1822	55	35-110
Indeno(1,2,3-cd)pyrene	3333	0.0000	2646	79	40-120
Isophorone	3333	0.0000	2214	66	45-110
2-Methylnaphthalene	3333	0.0000	2091	63	40-110
2-Methylphenol	3333	0.0000	2313	69	40-105
Naphthalene	3333	0.0000	2250	68	40-105
4-Methylphenol	3333	0.0000	2270	68	40-105
2-Nitroaniline	3333	0.0000	2612	78	45-120
3-Nitroaniline	3333	0.0000	2457	74	25-110
4-Nitroaniline	3333	0.0000	2266	68	35-115
Nitrobenzene	3333	0.0000	2025	61	40-115
2-Nitrophenol	3333	0.0000	2050	62	40-110
4-Nitrophenol	3333	0.0000	2553	76	15-140
N-Nitroso-di-methylamin	3333	0.0000	1932	58	20-115
N-Nitrosodiphenylamine	3333	0.0000	1974	59	50-115
N-Nitroso-di-n-prop.(1)	3333	0.0000	2056	62	40-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0320BS2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Pentachlorophenol	3333	0.0000	2596	78	25-120
Phenanthrene	3333	0.0000	2265	68	50-110
Phenol	3333	0.0000	2067	62	40-100
Pyrene	3333	0.0000	2580	77	45-125
Pyridine	3333	0.0000	1872	56	10-110
1,2,4,5-Tetrachlorobenz	3333	0.0000	2123	64	50-150
1,2,4-Trichlorobenzene	3333	0.0000	1895	57	45-110
2,4,5-Trichlorophenol	3333	0.0000	2470	74	50-110
2,4,6-Trichlorophenol	3333	0.0000	2578	77	45-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 65 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0323BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	50.00	0.0000	44.43	89	45-110
Acenaphthylene	50.00	0.0000	51.54	103	50-105
Acetophenone	50.00	0.0000	35.53	71	50-110
Aniline	50.00	0.0000	38.80	78	10-110
Anthracene	50.00	0.0000	46.40	93	55-110
Benzo(a)anthracene	50.00	0.0000	50.41	101	55-110
Benzo(b)fluoranthene	50.00	0.0000	49.82	100	45-120
Benzo(k)fluoranthene	50.00	0.0000	49.18	98	45-125
Benzo(g,h,i)perylene	50.00	0.0000	53.32	107	40-125
Benzo(a)pyrene	50.00	0.0000	56.04	112*	55-110
Benzyl alcohol	50.00	0.0000	30.00	60	30-110
bis(2-Chloroethyl)ether	50.00	0.0000	28.89	58	35-110
bis(2-Chloroisopropyl)e	50.00	0.0000	36.10	72	25-130
Bis(2-ethylhexyl)phthal	50.00	33.15	50.34	34*	40-125
4-Bromophenyl-phenyleth	50.00	0.0000	34.30	69	50-115
Butylbenzylphthalate	50.00	0.0000	46.89	94	45-115
4-Chloroaniline	50.00	0.0000	39.34	79	15-110
4-Chloro-3-methylphenol	50.00	0.0000	42.51	85	45-110
2-Chloronaphthalene	50.00	0.0000	44.30	89	50-105
2-Chlorophenol	50.00	0.0000	36.79	74	35-105
4-Chlorophenyl-phenylet	50.00	0.0000	46.00	92	50-110
Chrysene	50.00	0.0000	51.16	102	55-110
Dibenz(a,h)anthracene	50.00	0.0000	54.90	110	40-125
Dibenzofuran	50.00	0.0000	45.11	90	55-105
3,3'-Dichlorobenzidine	50.00	0.0000	41.99	84	20-110
2,4-Dichlorophenol	50.00	0.0000	38.65	77	50-105
Diethylphthalate	50.00	0.0000	42.54	85	40-120
2,4-Dimethylphenol	50.00	0.0000	44.76	90	30-110

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0323BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50.00	0.0000	40.70	81	25-125
Di-n-butylphthalate	50.00	0.0000	39.54	79	55-115
4,6-Dinitro-2-methylphe	50.00	0.0000	44.10	88	40-130
2,4-Dinitrophenol	50.00	0.0000	51.82	104	15-140
2,4-Dinitrotoluene	50.00	0.0000	45.24	90	50-120
2,6-Dinitrotoluene	50.00	0.0000	44.54	89	50-115
Di-n-octylphthalate	50.00	0.0000	40.12	80	35-135
Fluoranthene	50.00	0.0000	44.31	89	55-115
Fluorene	50.00	0.0000	44.77	90	50-110
Hexachlorobenzene	50.00	0.0000	43.00	86	50-110
Hexachlorobutadiene	50.00	0.0000	33.59	67	25-105
Hexachlorocyclopentadie	50.00	0.0000	51.11	102	10-110
Hexachloroethane	50.00	0.0000	30.39	61	30- 95
Indeno(1,2,3-cd)pyrene	50.00	0.0000	59.88	120	45-125
Isophorone	50.00	0.0000	42.46	85	50-110
2-Methylnaphthalene	50.00	0.0000	36.77	74	45-105
2-Methylphenol	50.00	0.0000	28.67	57	40-110
4-Methylphenol	50.00	0.0000	26.71	53	30-110
Naphthalene	50.00	0.0000	38.30	77	40-100
2-Nitroaniline	50.00	0.0000	50.03	100	50-115
3-Nitroaniline	50.00	0.0000	45.55	91	20-125
4-Nitroaniline	50.00	0.0000	47.80	96	35-120
Nitrobenzene	50.00	0.0000	39.87	80	45-110
2-Nitrophenol	50.00	0.0000	38.84	78	40-115
4-Nitrophenol	50.00	0.0000	15.25	30	0-125
N-Nitroso-di-methylamin	50.00	0.0000	14.73	29	25-110
N-Nitrosodiphenylamine	50.00	0.0000	39.29	78	50-110
N-Nitroso-di-n-prop.(1)	50.00	0.0000	39.87	80	35-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix Spike - Client Sample No.: SBLK0323BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Pentachlorophenol	50.00	0.0000	49.07	98	40-115
Phenanthrene	50.00	0.0000	44.94	90	50-115
Phenol	50.00	0.0000	10.72	21	0-115
Pyrene	50.00	0.0000	47.88	96	50-130
Pyridine	50.00	0.0000	7.559	15	0-110
1,2,4,5-Tetrachlorobenz	50.00	0.0000	38.86	78	50-125
2,3,4,6-Tetrachlorophen	50.00	0.0000	58.81	118	50-125
1,2,4-Trichlorobenzene	50.00	0.0000	31.60	63	35-105
2,4,5-Trichlorophenol	50.00	0.0000	47.26	94	50-110
2,4,6-Trichlorophenol	50.00	0.0000	43.82	88	50-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 66 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: S2BS0320 Lab Sample ID: SBLK0320BS2

Instrument ID: BNA1 Date Extracted: 03/20/09

Matrix: (soil/water) SOIL Date Analyzed: 03/31/09

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1759

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0320BS2L	SBLK0320BS2LCS	S2LS0320	03/31/09
02	MPT-AOCF-SS0	0903251-01	0325101	04/01/09
03	MPT-AOCF-SS0	0903251-03	0325103	04/01/09
04	MPT-AOCF-SS0	0903251-05	0325105	04/01/09
05	MPT-AOCF-SS0	0903251-07	0325107	04/01/09
06	MPT-AOCF-SS0	0903251-09	0325109	04/01/09
07	MPT-AOCF-SS0	0903251-11	0325111	04/01/09
08	MPT-AOCF-SS1	0903251-17	0325117	04/01/09
09	MPT-AOCF-SS1	0903251-19	0325119	04/01/09
10	MPT-AOCF-SS1	0903251-13	0325113	04/02/09
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	26	330		U
208-96-8	Acenaphthylene	20	330		U
98-86-2	Acetophenone	41	330		U
53-96-3	2-Acetylaminofluorene	100	330		U
92-67-1	4-Aminobiphenyl	100	330		U
62-53-3	Aniline	41	330		U
140-57-8	Aramite	100	330		U
120-12-7	Anthracene	27	330		U
56-55-3	Benzo(a)anthracene	36	330		U
205-99-2	Benzo(b)fluoranthene	32	330		U
207-08-9	Benzo(k)fluoranthene	39	330		U
191-24-2	Benzo(g,h,i)perylene	70	330		U
50-32-8	Benzo(a)pyrene	23	330		U
100-51-6	Benzyl alcohol	45	330		U
111-44-4	bis(2-Chloroethyl)ether	41	330		U
108-60-1	bis(2-Chloroisopropyl)ether	51	330		U
117-81-7	Bis(2-ethylhexyl)phthalate	36	330		U
101-55-3	4-Bromophenyl-phenylether	26	330		U
85-68-7	Butylbenzylphthalate	30	330		U
106-47-8	4-Chloroaniline	48	330		U
510-15-6	Chlorobenzilate	100	330		U
59-50-7	4-Chloro-3-methylphenol	28	330		U
91-58-7	2-Chloronaphthalene	32	330		U
95-57-8	2-Chlorophenol	41	330		U
7005-72-3	4-Chlorophenyl-phenylether	31	330		U
218-01-9	Chrysene	31	330		U
2303-16-4	Diallate	100	330		U
53-70-3	Dibenz(a,h)anthracene	60	330		U
132-64-9	Dibenzofuran	24	330		U
91-94-1	3,3'-Dichlorobenzidine	31	330		U
120-83-2	2,4-Dichlorophenol	19	330		U
87-65-0	2,6-Dichlorophenol	100	330		U
84-66-2	Diethylphthalate	34	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	330		U
60-11-7	p-(Dimethylamino)azobenzene	100	330		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	330		U
119-93-7	3,3'-Dimethylbenzidine	100	330		U
122-09-8	a,a-Dimethyl-phenethylamine	100	330		U
105-67-9	2,4-Dimethylphenol	21	1300		U
131-11-3	Dimethylphthalate	30	330		U
84-74-2	Di-n-butylphthalate	30	330		U
99-65-0	m-Dinitrobenzene	100	330		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1300		U
51-28-5	2,4-Dinitrophenol	130	3300		U
121-14-2	2,4-Dinitrotoluene	24	330		U
606-20-2	2,6-Dinitrotoluene	38	330		U
117-84-0	Di-n-octylphthalate	27	330		U
122-39-4	Diphenylamine	100	330		U
298-04-4	Disulfoton	100	330		U
62-50-0	Ethyl methanesulfonate	100	330		U
52-85-7	Famphur	100	330		U
206-44-0	Fluoranthene	54	330		U
86-73-7	Fluorene	26	330		U
118-74-1	Hexachlorobenzene	35	330		U
87-68-3	Hexachlorobutadiene	33	330		U
77-47-4	Hexachlorocyclopentadiene	61	330		U
67-72-1	Hexachloroethane	39	330		U
70-30-4	Hexachlorophene	100	6700		U
1888-71-7	Hexachloropropene	100	330		U
193-39-5	Indeno(1,2,3-cd)pyrene	46	330		U
465-73-6	Isodrin	100	330		U
78-59-1	Isophorone	28	330		U
120-58-1	Isosafrole	100	330		U
91-80-5	Methapyrilene	100	330		U
56-49-5	3-Methylcholanthrene	100	330		U
66-27-3	Methyl methanesulfonate	100	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
91-57-6	2-Methylnaphthalene	35	330		U
298-00-0	Methyl parathion	100	330		U
95-48-7	2-Methylphenol	39	330		U
108-39-4	3-Methylphenol	27	330		U
91-20-3	Naphthalene	32	330		U
106-44-5	4-Methylphenol	26	330		U
130-15-4	1,4-Naphthoquinone	100	330		U
134-32-7	1-Naphthylamine	100	330		U
91-59-8	2-Naphthylamine	100	330		U
88-74-4	2-Nitroaniline	32	1300		U
99-09-2	3-Nitroaniline	47	1300		U
100-01-6	4-Nitroaniline	100	1300		U
98-95-3	Nitrobenzene	34	330		U
88-75-5	2-Nitrophenol	22	330		U
100-02-7	4-Nitrophenol	81	1300		U
56-57-5	4-Nitroquinoline-1-oxide	100	330		U
924-16-3	N-Nitrosodi-n-butylamine	100	330		U
55-18-5	N-Nitrosodiethylamine	100	330		U
62-75-9	N-Nitroso-di-methylamine	95	330		U
86-30-6	N-Nitrosodiphenylamine (1)	32	330		U
621-64-7	N-Nitroso-di-n-propylamine	55	330		U
10595-95-6	N-Nitrosomethylethylamine	100	330		U
59-89-2	N-Nitrosomorpholine	100	330		U
100-75-4	N-Nitrosopiperidine	100	330		U
930-55-2	N-Nitrosopyrrolidine	100	330		U
99-55-8	5-Nitro-o-toluidine	100	330		U
56-38-2	Parathion	100	330		U
608-93-5	Pentachlorobenzene	100	330		U
76-01-7	Pentachloroethane	100	330		U
82-68-8	Pentachloronitrobenzene	100	330		U
87-86-5	Pentachlorophenol	34	1300		U
62-44-2	Phenacetin	100	330		U
85-01-8	Phenanthrene	23	330		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	36	330		U
106-50-3	p-Phenylenediamine	100	330		U
298-02-2	Phorate	100	330		U
109-06-8	2-Picoline	100	330		U
23950-58-5	Pronamide	100	330		U
129-00-0	Pyrene	40	330		U
110-86-1	Pyridine	54	1300		U
94-59-7	Safrole	100	330		U
3689-24-5	Sulfotepp	100	330		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	330		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	330		U
297-97-2	Thionazin	100	330		U
95-53-4	o-Toluidine	100	330		U
120-82-1	1,2,4-Trichlorobenzene	26	330		U
95-95-4	2,4,5-Trichlorophenol	27	330		U
88-06-2	2,4,6-Trichlorophenol	35	330		U
126-68-1	O,O,O-Triethylphosphorothioa	100	330		U
99-35-4	sym-Trinitrobenzene	100	330		U

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0323BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: S1BW0323 Lab Sample ID: SBLK0323BW1

Instrument ID: BNA1 Date Extracted: 03/23/09

Matrix: (soil/water) WATER Date Analyzed: 03/31/09

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1421

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0323BW1L	SBLK0323BW1LCS	S1LW0323	03/31/09
02	MPT-AOCF-RIN	0903251-21	0325121	03/31/09
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0323BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: SBLK0323BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0323

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 14:21

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.63	2.0		U
208-96-8	Acenaphthylene	0.47	1.0		U
98-86-2	Acetophenone	0.75	5.0		U
53-96-3	2-Acetylaminofluorene	2.0	5.0		U
92-67-1	4-Aminobiphenyl	2.0	5.0		U
62-53-3	Aniline	0.56	5.0		U
140-57-8	Aramite	1.0	5.0		U
120-12-7	Anthracene	0.77	2.0		U
56-55-3	Benzo(a)anthracene	0.91	5.0		U
205-99-2	Benzo(b)fluoranthene	0.71	5.0		U
207-08-9	Benzo(k)fluoranthene	0.50	2.0		U
191-24-2	Benzo(g,h,i)perylene	1.5	3.0		U
50-32-8	Benzo(a)pyrene	0.60	2.0		U
100-51-6	Benzyl alcohol	0.75	5.0		U
111-44-4	bis(2-Chloroethyl)ether	0.45	5.0		U
108-60-1	bis(2-Chloroisopropyl)ether	0.85	5.0		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	5.0	33	
101-55-3	4-Bromophenyl-phenylether	0.57	5.0		U
85-68-7	Butylbenzylphthalate	0.82	5.0		U
106-47-8	4-Chloroaniline	0.95	5.0		U
510-15-6	Chlorobenzilate	1.0	5.0		U
59-50-7	4-Chloro-3-methylphenol	0.58	5.0		U
91-58-7	2-Chloronaphthalene	0.58	5.0		U
95-57-8	2-Chlorophenol	0.59	5.0		U
7005-72-3	4-Chlorophenyl-phenylether	0.89	5.0		U
218-01-9	Chrysene	1.0	2.0		U
2303-16-4	Diallate	1.0	5.0		U
53-70-3	Dibenz(a,h)anthracene	1.7	5.0		U
132-64-9	Dibenzofuran	0.65	2.0		U
91-94-1	3,3'-Dichlorobenzidine	0.89	2.0		U
120-83-2	2,4-Dichlorophenol	0.44	1.0		U
87-65-0	2,6-Dichlorophenol	1.0	5.0		U
84-66-2	Diethylphthalate	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0323BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: SBLK0323BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0323

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 14:21

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	4.0	10		U
60-11-7	p-(Dimethylamino)azobenzene	1.0	5.0		U
57-97-6	7,12-Dimethylbenz[a]anthrace	1.0	5.0		U
119-93-7	3,3'-Dimethylbenzidine	42	100		U
122-09-8	a,a-Dimethyl-phenethylamine	1.0	5.0		U
105-67-9	2,4-Dimethylphenol	0.71	20		U
131-11-3	Dimethylphthalate	0.74	5.0		U
84-74-2	Di-n-butylphthalate	1.3	5.0		U
99-65-0	m-Dinitrobenzene	3.0	5.0		U
534-52-1	4,6-Dinitro-2-methylphenol	0.74	20		U
51-28-5	2,4-Dinitrophenol	0.85	50		U
121-14-2	2,4-Dinitrotoluene	0.49	5.0		U
606-20-2	2,6-Dinitrotoluene	0.66	5.0		U
117-84-0	Di-n-octylphthalate	0.33	5.0		U
122-39-4	Diphenylamine	1.0	5.0		U
298-04-4	Disulfoton	3.0	5.0		U
62-50-0	Ethyl methanesulfonate	1.0	5.0		U
52-85-7	Famphur	2.0	5.0		U
206-44-0	Fluoranthene	0.70	5.0		U
86-73-7	Fluorene	0.55	5.0		U
118-74-1	Hexachlorobenzene	0.47	5.0		U
87-68-3	Hexachlorobutadiene	0.93	5.0		U
77-47-4	Hexachlorocyclopentadiene	0.89	5.0		U
67-72-1	Hexachloroethane	0.46	5.0		U
70-30-4	Hexachlorophene	25	100		U
1888-71-7	Hexachloropropene	4.0	5.0		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	5.0		U
465-73-6	Isodrin	2.0	5.0		U
78-59-1	Isophorone	0.55	5.0		U
120-58-1	Isosafrole	1.0	5.0		U
91-80-5	Methapyrilene	1.0	5.0		U
56-49-5	3-Methylcholanthrene	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0323BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: SBLK0323BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0323

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 14:21

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	1.0	5.0		U
91-57-6	2-Methylnaphthalene	0.68	2.0		U
298-00-0	Methyl parathion	3.0	5.0		U
95-48-7	2-Methylphenol	0.83	5.0		U
108-39-4	3-Methylphenol	0.77	5.0		U
106-44-5	4-Methylphenol	0.77	5.0		U
91-20-3	Naphthalene	0.45	1.0		U
130-15-4	1,4-Naphthoquinone	1.0	5.0		U
134-32-7	1-Naphthylamine	1.0	5.0		U
91-59-8	2-Naphthylamine	1.0	5.0		U
88-74-4	2-Nitroaniline	1.2	20		U
99-09-2	3-Nitroaniline	1.0	20		U
100-01-6	4-Nitroaniline	2.0	20		U
98-95-3	Nitrobenzene	0.62	5.0		U
88-75-5	2-Nitrophenol	0.74	5.0		U
100-02-7	4-Nitrophenol	0.83	20		U
56-57-5	4-Nitroquinoline-1-oxide	1.0	5.0		U
924-16-3	N-Nitrosodi-n-butylamine	1.0	5.0		U
55-18-5	N-Nitrosodiethylamine	1.0	5.0		U
62-75-9	N-Nitroso-di-methylamine	0.90	5.0		U
86-30-6	N-Nitrosodiphenylamine (1)	0.46	5.0		U
621-64-7	N-Nitroso-di-n-propylamine	0.90	5.0		U
10595-95-6	N-Nitrosomethylethylamine	4.0	5.0		U
59-89-2	N-Nitrosomorpholine	1.0	5.0		U
100-75-4	N-Nitrosopiperidine	1.0	5.0		U
930-55-2	N-Nitrosopyrrolidine	1.0	5.0		U
99-55-8	5-Nitro-o-toluidine	2.0	5.0		U
56-38-2	Parathion	3.0	5.0		U
608-93-5	Pentachlorobenzene	4.0	10		U
76-01-7	Pentachloroethane	4.0	10		U
82-68-8	Pentachloronitrobenzene	4.0	10		U
87-86-5	Pentachlorophenol	1.0	10		U
62-44-2	Phenacetin	1.0	5.0		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0323BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Matrix: (soil/water) WATER Lab Sample ID: SBLK0323BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0323

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/23/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 14:21

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.77	2.0		U
108-95-2	Phenol	0.46	5.0		U
106-50-3	p-Phenylenediamine	1.0	5.0		U
298-02-2	Phorate	4.0	5.0		U
109-06-8	2-Picoline	7.0	7.0		U
23950-58-5	Pronamide	1.0	5.0		U
129-00-0	Pyrene	0.65	2.0		U
110-86-1	Pyridine	1.1	20		U
94-59-7	Safrole	1.0	5.0		U
3689-24-5	Sulfotepp	4.0	5.0		U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.0	5.0		U
58-90-2	2,3,4,6-Tetrachlorophenol	1.0	5.0		U
297-97-2	Thionazin	4.0	5.0		U
95-53-4	o-Toluidine	4.0	10		U
120-82-1	1,2,4-Trichlorobenzene	0.36	1.0		U
95-95-4	2,4,5-Trichlorophenol	0.50	1.0		U
88-06-2	2,4,6-Trichlorophenol	0.73	2.0		U
126-68-1	O,O,O-Triethylphosphorothioa	3.0	5.0		U
99-35-4	sym-Trinitrobenzene	3.0	5.0		U

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA21205

Lab File ID: DF0724B2 DFTPP Injection Date: 07/24/08

Instrument ID: BNA1 DFTPP Injection Time: 2241

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.8
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	1.59
441	Present, but less than mass 443	9.1
442	Greater than 40.0% of mass 198	55.6
443	17.0 - 23.0% of mass 442	11.5 (20.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNACAL080PPM	BNACAL080PPM	CALB080	07/24/08	2302
02	BNACAL100PPM	BNACAL100PPM	CALB100	07/24/08	2338
03	BNAICV050PPM	BNAICV050PPM	ICVEX	07/25/08	0014
04	BNAICV050PPM	BNAICV050PPM	ICVMAIN	07/25/08	0050
05	BNAICV050PPM	BNAICV050PPM	ICV02	07/25/08	0126
06	BNAICV050PPM	BNAICV050PPM	ICV03	07/25/08	0202
07	CALAP9C001PP	CALAP9C001PPM	CAP9C001	07/25/08	0238
08	CALAP9C002PP	CALAP9C002PPM	CAP9C002	07/25/08	0314
09	CALAP9C005PP	CALAP9C005PPM	CAP9C005	07/25/08	0349
10	CALAP9C010PP	CALAP9C010PPM	CAP9C010	07/25/08	0425
11	CALAP9C020PP	CALAP9C020PPM	CAP9C020	07/25/08	0501
12	CALAP9C030PP	CALAP9C030PPM	CAP9C030	07/25/08	0537
13	CALAP9C050PP	CALAP9C050PPM	CAP9C050	07/25/08	0612
14	CALAP9C070PP	CALAP9C070PPM	CAP9C070	07/25/08	0648
15	CALAP9C100PP	CALAP9C100PPM	CAP9C100	07/25/08	0724
16	CALAP9A001PP	CALAP9A001PPM	CAP9A001	07/25/08	0800
17	CALAP9A002PP	CALAP9A002PPM	CAP9A002	07/25/08	0836
18	CALAP9A005PP	CALAP9A005PPM	CAP9A005	07/25/08	0912
19	CALAP9A010PP	CALAP9A010PPM	CAP9A010	07/25/08	0948
20	BNAICV050PPM	BNAICV050PPM	ICVEX1	07/25/08	1024
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA21205

Lab File ID: DF0724B3 DFTPP Injection Date: 07/25/08

Instrument ID: BNA1 DFTPP Injection Time: 1056

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.7
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1.0% of mass 198	1.80
441	Present, but less than mass 443	7.5
442	Greater than 40.0% of mass 198	52.7
443	17.0 - 23.0% of mass 442	10.3 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CALAP9A020PP	CALAP9A020PPM	CAP9A020	07/25/08	1117
02	CALAP9A030PP	CALAP9A030PPM	CAP9A030	07/25/08	1152
03	CALAP9A050PP	CALAP9A050PPM	CAP9A050	07/25/08	1228
04	CALAP9A070PP	CALAP9A070PPM	CAP9A070	07/25/08	1304
05	CALAP9A100PP	CALAP9A100PPM	CAP9A100	07/25/08	1340
06	CALAP9B001PP	CALAP9B001PPM	CAP9B001	07/25/08	1416
07	CALAP9B002PP	CALAP9B002PPM	CAP9B002	07/25/08	1453
08	CALAP9B005PP	CALAP9B005PPM	CAP9B005	07/25/08	1529
09	CALAP9B010PP	CALAP9B010PPM	CAP9B010	07/25/08	1605
10	CALAP9B020PP	CALAP9B020PPM	CAP9B020	07/25/08	1641
11	CALAP9B030PP	CALAP9B030PPM	CAP9B030	07/25/08	1717
12	CALAP9B050PP	CALAP9B050PPM	CAP9B050	07/25/08	1753
13	CALAP9B070PP	CALAP9B070PPM	CAP9B070	07/25/08	1830
14	CALAP9B100PP	CALAP9B100PPM	CAP9B100	07/25/08	1906
15					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA21205

Lab File ID: DF0728B1 DFTPP Injection Date: 07/28/08

Instrument ID: BNA1 DFTPP Injection Time: 0948

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	18.9
365	Greater than 1.0% of mass 198	1.84
441	Present, but less than mass 443	8.3
442	Greater than 40.0% of mass 198	47.6
443	17.0 - 23.0% of mass 442	9.4 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CALAP9C080PP	CALAP9C080PPM	CAP9C080	07/28/08	1122
02					
03					
04					
05					
06					
07					
08					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Lab File ID: DFO303B1 DFTPP Injection Date: 03/03/09

Instrument ID: BNA1 DFTPP Injection Time: 1649

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	44.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.0
365	Greater than 1.0% of mass 198	1.67
441	Present, but less than mass 443	8.3
442	Greater than 40.0% of mass 198	50.0
443	17.0 - 23.0% of mass 442	10.0 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNACAL001PPM	CAL001	03/03/09	1711
02		BNACAL002PPM	CAL002	03/03/09	1747
03		BNACAL005PPM	CAL005	03/03/09	1823
04		BNACAL010PPM	CAL010	03/03/09	1859
05		BNACAL020PPM	CAL020	03/03/09	1935
06		BNACAL040PPM	CAL040	03/03/09	2011
07		BNACAL050PPM	CAL050	03/03/09	2047
08		BNACAL060PPM	CAL060	03/03/09	2122
09		BNACAL080PPM	CAL080	03/03/09	2158
10		BNACAL100PPM	CAL100	03/03/09	2234
11		BNACAL001PPM	CALB001	03/03/09	2310
12		BNACAL002PPM	CALB002	03/03/09	2346
13		BNACAL005PPM	CALB005	03/04/09	0022
14		BNACAL010PPM	CALB010	03/04/09	0058
15		BNACAL020PPM	CALB020	03/04/09	0134
16		BNACAL040PPM	CALB040	03/04/09	0209
17		BNACAL050PPM	CALB050	03/04/09	0245
18		BNACAL060PPM	CALB060	03/04/09	0321
19		BNACAL080PPM	CALB080	03/04/09	0357
20					
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22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Lab File ID: DF0303B2 DFTPP Injection Date: 03/04/09

Instrument ID: BNA1 DFTPP Injection Time: 0429

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.4
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	17.3
365	Greater than 1.0% of mass 198	1.67
441	Present, but less than mass 443	6.8
442	Greater than 40.0% of mass 198	49.6
443	17.0 - 23.0% of mass 442	9.7 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNACAL100PPM	CALB100	03/04/09	0451
02		BNAICV050PPM	ICV01	03/04/09	0527
03		BNAICV050PPM	ICV03	03/04/09	0639
04		BNAICV050PPM	ICV01A	03/04/09	0715
05		BNAICV050PPM	ICV02A	03/04/09	0751
06					
07					
08					
09					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: DF0331B1 DFTPP Injection Date: 03/31/09

Instrument ID: BNA1 DFTPP Injection Time: 1134

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.1
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 1.0% of mass 198	2.05
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	62.1
443	17.0 - 23.0% of mass 442	12.6 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050W	03/31/09	1156
02	SBLK0323BW1	SBLK0323BW1	S1BW0323	03/31/09	1421
03	SBLK0323BW1L	SBLK0323BW1LCS	S1LW0323	03/31/09	1458
04	MPT-AOCF-RIN	0903251-21	0325121	03/31/09	1534
05	SBLK0320BS2	SBLK0320BS2	S2BS0320	03/31/09	1759
06	SBLK0320BS2L	SBLK0320BS2LCS	S2LS0320	03/31/09	1835
07	MPT-AOCF-SS1	0903251-15	0325115	03/31/09	2059
08					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID: DF0401B1 DFTPP Injection Date: 04/01/09

Instrument ID: BNA1 DFTPP Injection Time: 1328

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.0
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.9
365	Greater than 1.0% of mass 198	2.06
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	62.1
443	17.0 - 23.0% of mass 442	12.5 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	04/01/09	1403
02	MPT-AOCF-SS0	0903251-01	0325101	04/01/09	1629
03	MPT-AOCF-SS0	0903251-03	0325103	04/01/09	1706
04	MPT-AOCF-SS0	0903251-05	0325105	04/01/09	1743
05	MPT-AOCF-SS0	0903251-07	0325107	04/01/09	1819
06	MPT-AOCF-SS0	0903251-09	0325109	04/01/09	1855
07	MPT-AOCF-SS0	0903251-11	0325111	04/01/09	1932
08	MPT-AOCF-SS1	0903251-17	0325117	04/01/09	2008
09	MPT-AOCF-SS1	0903251-19	0325119	04/01/09	2044
10	MPT-AOCF-SS1	0903251-13	0325113	04/02/09	0134
11					
12					
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): CCV050W Date Analyzed: 03/31/09

Instrument ID: BNA1 Time Analyzed: 1156

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	719448		5.49		2263703		6.85		1140576		9.98	
	UPPER LIMIT	1438896		5.99		4527406		7.35		2281152		10.48	
	LOWER LIMIT	359724		4.99		1131852		6.35		570288		9.48	
	CLIENT SAMPLE NO.												
01	SBLK0323BW1	805411		5.49		2537228		6.84		1245246		9.97	
02	SBLK0323BW1L	825759		5.49		2544201		6.84		1281372		9.98	
03	MPT-AOCF-RIN	793421		5.49		2386181		6.84		1181947		9.97	
04	SBLK0320BS2	781144		5.49		2439959		6.84		1232793		9.97	
05	SBLK0320BS2L	762713		5.49		2253377		6.84		1148700		9.98	
06	MPT-AOCF-SS1	840484		5.49		2608554		6.84		1279907		9.97	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): CCV050W Date Analyzed: 03/31/09

Instrument ID: BNA1 Time Analyzed: 1156

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1801227		13.75		1238508		21.40		818409		25.42	
	UPPER LIMIT	3602454		14.25		2477016		21.90		1636818		25.92	
	LOWER LIMIT	900614		13.25		619254		20.90		409205		24.92	
	CLIENT SAMPLE NO.												
01	SBLK0323BW1	1879674		13.74		1369381		21.39		1027215		25.42	
02	SBLK0323BW1L	2064952		13.75		1533812		21.41		1205701		25.42	
03	MPT-AOCF-RIN	1715826		13.74		1163747		21.38		904191		25.41	
04	SBLK0320BS2	1831328		13.74		1258190		21.38		904944		25.42	
05	SBLK0320BS2L	1871913		13.75		1334810		21.40		942226		25.42	
06	MPT-AOCF-SS1	1898126		13.74		1318526		21.39		950545		25.41	
07													
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22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): CCV050 Date Analyzed: 04/01/09

Instrument ID: BNA1 Time Analyzed: 1403

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	702933		5.48		2213326		6.83		1016562		9.96	
	UPPER LIMIT	1405866		5.98		4426652		7.33		2033124		10.46	
	LOWER LIMIT	351467		4.98		1106663		6.33		508281		9.46	
	CLIENT SAMPLE NO.												
01	MPT-AOCF-SS0	682948		5.48		2210502		6.83		1072559		9.96	
02	MPT-AOCF-SS0	708823		5.48		2326117		6.83		1120670		9.96	
03	MPT-AOCF-SS0	735763		5.48		2208644		6.83		1128992		9.95	
04	MPT-AOCF-SS0	728552		5.48		2300316		6.82		1157849		9.95	
05	MPT-AOCF-SS0	757027		5.48		2526086		6.83		1217357		9.96	
06	MPT-AOCF-SS0	781672		5.48		2509458		6.83		1193669		9.96	
07	MPT-AOCF-SS1	798225		5.48		2465390		6.83		1208095		9.96	
08	MPT-AOCF-SS1	763044		5.48		2383345		6.83		1241583		9.96	
09	MPT-AOCF-SS1	795294		5.48		2480352		6.83		1243943		9.96	
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Lab File ID (Standard): CCV050 Date Analyzed: 04/01/09

Instrument ID: BNA1 Time Analyzed: 1403

		IS4(PHN) AREA #	IS4(PHN) RT #	IS5(CRY) AREA #	IS5(CRY) RT #	IS6(PRY) AREA #	IS6(PRY) RT #
	12 HOUR STD	1764802	13.74	1192229	21.38	924651	25.40
	UPPER LIMIT	3529604	14.24	2384458	21.88	1849302	25.90
	LOWER LIMIT	882401	13.24	596115	20.88	462326	24.90
	CLIENT SAMPLE NO.						
01	MPT-AOCF-SS0	1573442	13.72	974336	21.36	665335	25.39
02	MPT-AOCF-SS0	1655396	13.72	983397	21.36	655103	25.39
03	MPT-AOCF-SS0	1618206	13.72	1096829	21.37	763623	25.40
04	MPT-AOCF-SS0	1724371	13.72	1168616	21.36	792934	25.40
05	MPT-AOCF-SS0	1869008	13.72	1066308	21.36	776359	25.40
06	MPT-AOCF-SS0	1813891	13.72	1125493	21.36	750820	25.40
07	MPT-AOCF-SS1	1782767	13.72	972480	21.36	606254	25.40
08	MPT-AOCF-SS1	1708521	13.72	1146887	21.36	769392	25.40
09	MPT-AOCF-SS1	1791801	13.72	807158	21.37	486225	25.39
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0800 1340

LAB FILE ID: RF1: CAP9A001 RF2: CAP9A002 RF5: CAP9A005
RF10: CAP9A010 RF20: CAP9A020

COMPOUND	RF1	RF2	RF5	RF10	RF20
2-Acetylaminofluorene	0.081	0.080	0.119	0.241	0.333
4-Aminobiphenyl	0.581	0.599	0.696	0.877	0.936
m-Dinitrobenzene	0.093	0.087	0.150	0.238	0.245
Hexachloropropene	0.124	0.127	0.143	0.176	0.167
Isodrin	0.160	0.155	0.157	0.223	0.191
Kepone	0.046	0.041	0.048	0.083	0.080
5-Nitro-o-toluidine	0.179	0.158	0.257	0.384	0.394
Pentachlorobenzene	0.504	0.511	0.514	0.626	0.533
Pentachloronitrobenzene	0.041	0.043	0.062	0.085	0.085
Pentachloroethane	0.466	0.578	0.525	0.589	0.535
o-Toluidine	1.690	1.672	1.832	2.115	1.904
sym-Trinitrobenzene	0.050	0.046	0.047	0.092	0.142

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0800 1340

LAB FILE ID: RF30: CAP9A030 RF40: RF50: CAP9A050
RF60: RF70: CAP9A070

COMPOUND	RF30	RF40	RF50	RF60	RF70
2-Acetylaminofluorene	0.366		0.425		0.385
4-Aminobiphenyl	0.914		0.851		0.823
m-Dinitrobenzene	0.269		0.257		0.286
Hexachloropropene	0.167		0.168		0.155
Isodrin	0.181		0.180		0.164
Kepone	0.092		0.085		0.086
5-Nitro-o-toluidine	0.461		0.430		0.459
Pentachlorobenzene	0.511		0.492		0.488
Pentachloronitrobenzene	0.083		0.083		0.080
Pentachloroethane	0.516		0.472		0.453
o-Toluidine	1.824		1.687		1.519
sym-Trinitrobenzene	0.164		0.189		0.191

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0800 1340

LAB FILE ID: RF80: RF90: RF100: CAP9A100

COMPOUND	RF80	RF90	RF100
2-Acetylaminofluorene			0.395
4-Aminobiphenyl			
m-Dinitrobenzene			0.267
Hexachloropropene			0.141
Isodrin			0.156
Kepone			0.085
5-Nitro-o-toluidine			0.404
Pentachlorobenzene			0.435
Pentachloronitrobenzene			
Pentachloroethane			0.429
o-Toluidine			1.307
sym-Trinitrobenzene			0.186

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0800 1340

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
2-Acetylaminofluorene	2ORDR	0.00000000	2.63840829	-0.1232039	0.996
4-Aminobiphenyl	LINR	0.00000000	0.84691759		0.996
m-Dinitrobenzene	LINR	0.00000000	0.27067772		0.996
Hexachloropropene	AVRG		0.15191381		12.6
Isodrin	AVRG		0.17420214		12.8
Kepone	LINR	0.00000000	8.546e-002		0.998
5-Nitro-o-toluidine	2ORDR	0.00000000	2.11186462	0.28703356	0.995
Pentachlorobenzene	AVRG		0.51260300		9.9
Pentachloronitrobenzene	LINR	0.00000000	8.169e-002		0.998
Pentachloroethane	AVRG		0.50704517		11.0
o-Toluidine	AVRG		1.72789411		13.4
sym-Trinitrobenzene	2ORDR	0.00000000	5.83324231	-1.2096322	0.996

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1416 1906

LAB FILE ID: RF1: CAP9B001 RF2: CAP9B002 RF5: CAP9B005
RF10: CAP9B010 RF20: CAP9B020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Aramite		0.023	0.031	0.046	0.051
Chlorobenzilate	0.135	0.169	0.233	0.298	0.304
Diallate	0.385	0.427	0.458	0.536	0.470
2,6-Dichlorophenol	0.259	0.249	0.291	0.311	0.301
p-(Dimethylamino)azobenzene	0.079	0.129	0.197	0.205	0.230
7,12-Dimethylbenz[a]anthrace	0.264	0.321	0.399	0.409	0.424
3,3'-Dimethylbenzidine	0.066	0.119	0.264	0.381	0.447
Dinoseb		0.016	0.022	0.042	0.053
Diphenylamine	0.813	0.940	0.909	1.060	1.000
Ethyl methanesulfonate	1.171	1.068	1.220	1.457	1.276
Isosafrole	0.507	0.530	0.572	0.558	0.558
Methapyrilene	0.158	0.178	0.327	0.453	0.457
3-Methylcholanthrene	0.272	0.279	0.372	0.473	0.473
Methyl methanesulfonate	0.665	0.693	0.801	0.909	0.832
1,4-Naphthoquinone	0.208	0.303	0.311	0.390	0.373
1-Naphthylamine	0.739	0.837	0.838	1.041	0.960
2-Naphthylamine	0.603	0.729	0.909	1.022	1.099
4-Nitroquinoline-1-oxide	0.009	0.009	0.007	0.010	0.008
N-Nitrosodi-n-butylamine	0.192	0.177	0.213	0.237	0.224
N-Nitrosodiethylamine	0.621	0.617	0.702	0.800	0.753
N-Nitrosomethylethylamine	0.770	0.631	0.718	0.893	0.753
N-Nitrosomorpholine	0.542	0.577	0.594	0.692	0.633
N-Nitrosopiperidine	0.199	0.210	0.224	0.261	0.240
N-Nitrosopyrrolidine	0.536	0.546	0.559	0.728	0.746
Phenacetin	0.186	0.209	0.309	0.388	0.350
2-Picoline	1.342	1.562	1.511	1.777	1.715
Pronamide	0.167	0.148	0.219	0.310	0.307
Safrole	0.238	0.270	0.273	0.271	0.258

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1416 1906

LAB FILE ID: RF30: CAP9B030 RF40: RF50: CAP9B050
RF60: RF70: CAP9B070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Aramite	0.066		0.060		0.063
Chlorobenzilate	0.335		0.344		0.380
Diallate	0.472		0.431		0.453
2,6-Dichlorophenol	0.281		0.302		0.288
p-(Dimethylamino)azobenzene	0.238		0.239		0.255
7,12-Dimethylbenz[a]anthrace	0.478		0.456		0.485
3,3'-Dimethylbenzidine	0.496		0.544		0.495
Dinoseb	0.074		0.129		
Diphenylamine	1.009		1.013		0.888
Ethyl methanesulfonate	1.098		1.130		1.080
Isosafrole	0.528		0.491		0.466
Methapyrilene	0.533		0.534		0.574
3-Methylcholanthrene	0.497		0.566		0.504
Methyl methanesulfonate	0.742		0.752		0.719
1,4-Naphthoquinone	0.357		0.366		0.319
1-Naphthylamine	0.987		1.028		0.984
2-Naphthylamine	1.114		1.153		1.040
4-Nitroquinoline-1-oxide	0.013		0.022		
N-Nitrosodi-n-butylamine	0.211		0.223		0.215
N-Nitrosodiethylamine	0.668		0.674		0.680
N-Nitrosomethylethylamine	0.678		0.660		0.743
N-Nitrosomorpholine	0.533		0.541		0.486
N-Nitrosopiperidine	0.242		0.224		0.232
N-Nitrosopyrrolidine	0.674		0.730		0.680
Phenacetin	0.391		0.397		0.430
2-Picoline	1.504		1.500		1.415
Pronamide	0.356		0.372		0.365
Safrole	0.234		0.239		0.243

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1416 1906

LAB FILE ID: RF80: RF90: RF100: CAP9B100

COMPOUND	RF80	RF90	RF100
Aramite			0.062
Chlorobenzilate			0.336
Diallate			0.364
2,6-Dichlorophenol			0.265
p-(Dimethylamino)azobenzene			0.238
7,12-Dimethylbenz[a]anthrace			
3,3'-Dimethylbenzidine			0.431
Dinoseb			
Diphenylamine			0.938
Ethyl methanesulfonate			0.990
Isosafrole			0.434
Methapyrilene			0.548
3-Methylcholanthrene			0.490
Methyl methanesulfonate			0.678
1,4-Naphthoquinone			0.306
1-Naphthylamine			0.977
2-Naphthylamine			1.041
4-Nitroquinoline-1-oxide			
N-Nitrosodi-n-butylamine			0.194
N-Nitrosodiethylamine			0.619
N-Nitrosomethylethylamine			0.742
N-Nitrosomorpholine			0.506
N-Nitrosopiperidine			0.216
N-Nitrosopyrrolidine			0.645
Phenacetin			0.391
2-Picoline			1.391
Pronamide			0.343
Safrole			0.229

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/25/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1416 1906

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Aramite	LINR	0.00000000	6.192e-002		0.996
Chlorobenzilate	2ORDR	0.00000000	2.84937751	2.564e-002	0.994
Diallate	AVRG		0.44393061		11.4
2,6-Dichlorophenol	AVRG		0.28309427		7.5
p-(Dimethylamino)azobenzene	LINR	0.00000000	0.24248405		0.998
7,12-Dimethylbenz[a]anthrace	LINR	0.00000000	0.47282432		0.997
3,3'-Dimethylbenzidine	2ORDR	0.00000000	1.63826209	0.55382789	0.993
Dinoseb	2ORDR	0.00000000	18.3242494	-65.817664	0.993
Diphenylamine	AVRG		0.95228054		8.0
Ethyl methanesulfonate	AVRG		1.16554515		11.9
Isosafrole	AVRG		0.51594204		8.9
Methapyrilene	LINR	0.00000000	0.55023013		0.996
3-Methylcholanthrene	2ORDR	0.00000000	1.81022974	0.17412201	0.996
Methyl methanesulfonate	AVRG		0.75463859		10.6
1,4-Naphthoquinone	2ORDR	0.00000000	2.40968964	1.11745537	0.998
1-Naphthylamine	AVRG		0.93223045		11.0
2-Naphthylamine	LINR	0.00000000	1.06173203		0.997
4-Nitroquinoline-1-oxide	2ORDR	0.00000000	104.603007	-2143.3509	0.990
N-Nitrosodi-n-butylamine	AVRG		0.20983356		9.0
N-Nitrosodiethylamine	AVRG		0.68164069		9.2
N-Nitrosomethylethylamine	AVRG		0.73184894		10.4
N-Nitrosomorpholine	AVRG		0.56722611		11.4
N-Nitrosopiperidine	AVRG		0.22756875		8.2
N-Nitrosopyrrolidine	AVRG		0.64954183		12.8
Phenacetin	LINR	0.00000000	0.40187338		0.996
2-Picoline	AVRG		1.52411104		9.4
Pronamide	LINR	0.00000000	0.35243241		0.996
Safrole	AVRG		0.25065049		7.0

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/28/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0238 1122

LAB FILE ID: RF1: CAP9C001 RF2: CAP9C002 RF5: CAP9C005
RF10: CAP9C010 RF20: CAP9C020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Dimethoate	0.145	0.209	0.231	0.244	0.245
a,a-Dimethyl-phenethylamine		0.453	0.560	0.562	0.609
Disulfoton	0.248	0.291	0.336	0.342	0.367
Famphur	0.096	0.135	0.166	0.186	0.144
Hexachlorophene					0.005
Methyl parathion	0.053	0.066	0.082	0.102	0.139
Parathion		0.038	0.047	0.061	0.088
p-Phenylenediamine		0.060	0.047	0.071	0.116
Phorate	0.392	0.424	0.460	0.462	0.493
Sulfotepp	0.099	0.114	0.120	0.114	0.120
Thionazin	0.098	0.122	0.155	0.151	0.151
O,O,O-Triethylphosphorothioa	0.120	0.124	0.129	0.109	0.118

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/28/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0238 1122

LAB FILE ID: RF30: CAP9C030 RF40: RF50: CAP9C050
RF60: RF70: CAP9C070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Dimethoate	0.221		0.198		0.247
a,a-Dimethyl-phenethylamine	0.641		0.649		0.684
Disulfoton	0.394		0.360		0.448
Famphur	0.131		0.110		
Hexachlorophene	0.016		0.036		0.052
Methyl parathion	0.165		0.171		0.244
Parathion	0.107		0.146		0.173
p-Phenylenediamine	0.151		0.226		
Phorate	0.517		0.511		0.565
Sulfotepp	0.123		0.130		0.139
Thionazin	0.161		0.168		0.185
O,O,O-Triethylphosphorothioa	0.125		0.114		0.126

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/28/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0238 1122

LAB FILE ID: RF80: CAP9C080 RF90: RF100: CAP9C100

COMPOUND	RF80	RF90	RF100
Dimethoate	0.257		0.228
a,a-Dimethyl-phenethylamine	0.698		0.592
Disulfoton	0.422		0.406
Famphur			
Hexachlorophene	0.050		0.058
Methyl parathion	0.270		
Parathion	0.185		
p-Phenylenediamine			
Phorate	0.524		0.473
Sulfotepp	0.140		0.124
Thionazin	0.200		0.172
O,O,O-Triethylphosphorothioa	0.122		0.109

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA81969

Instrument ID: BNA1 Calibration Date(s): 07/25/08 07/28/08

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 0238 1122

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Dimethoate	AVRG		0.22265287		14.7
a,a-Dimethyl-phenethylamine	AVRG		0.60526224		12.4
Disulfoton	2ORDR	0.00000000	2.64731283	-0.2759535	0.993
Famphur	2ORDR	0.00000000	4.35262442	33.8164093	0.999
Hexachlorophene	2ORDR	2.58701451	15.7807754	-2.9469889	0.994
Methyl parathion	2ORDR	0.00000000	7.00508808	-6.2936970	0.996
Parathion	2ORDR	0.00000000	9.27577597	-10.865897	0.994
p-Phenylenediamine	2ORDR	0.00000000	8.90135406	-6.3740158	0.992
Phorate	AVRG		0.48203406		10.6
Sulfotepp	AVRG		0.12241669		10.0
Thionazin	2ORDR	0.00000000	6.17520390	-1.8122743	0.990
O,O,O-Triethylphosphorothioa	AVRG		0.11947986		6.0

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Acenaphthene	1.311	1.267	1.258	1.192	1.158
Acenaphthylene	1.832	1.754	1.690	1.656	1.603
Acetophenone	1.683	1.835	1.598	1.589	1.448
Aniline	2.065	2.004	1.639	1.334	0.994
Anthracene	1.219	1.222	1.177	1.072	1.004
Benzoic acid		0.180	0.224	0.246	0.271
Benzo(a)anthracene	1.160	1.084	1.123	1.090	1.040
Benzo(b)fluoranthene	1.084	1.072	1.094	1.210	1.084
Benzo(k)fluoranthene	1.222	1.130	1.230	1.176	1.157
Benzo(g,h,i)perylene	0.674	0.678	0.644	0.623	0.499
Benzo(a)pyrene	0.971	0.962	0.982	0.999	0.893
Benzyl alcohol	0.816	0.818	0.833	0.923	0.867
bis(2-Chloroethoxy)methane	0.590	0.600	0.624	0.591	0.531
1,1'-Biphenyl	1.839	1.666	1.654	1.502	1.543
bis(2-Chloroethyl)ether	2.034	1.988	1.831	1.834	1.608
bis(2-Chloroisopropyl)ether	2.653	2.580	2.380	2.368	2.068
Bis(2-ethylhexyl)phthalate	1.317	1.370	1.411	1.502	1.300
4-Bromophenyl-phenylether	0.286	0.275	0.302	0.279	0.237
Butylbenzylphthalate	1.009	0.927	1.015	1.094	1.012
Carbazole	1.169	1.141	1.180	1.037	1.013
4-Chloroaniline	0.436	0.438	0.435	0.420	0.380
Caprolactam	0.142	0.139	0.148	0.152	0.134
4-Chloro-3-methylphenol	0.309	0.334	0.310	0.326	0.314
2-Chloronaphthalene	1.410	1.294	1.249	1.171	1.190
2-Chlorophenol	1.548	1.597	1.446	1.559	1.313
4-Chlorophenyl-phenylether	0.648	0.606	0.621	0.538	0.573
Chrysene	1.013	1.041	1.008	1.007	0.991
Dibenz(a,h)anthracene	0.555	0.531	0.618	0.572	0.499
Dibenzofuran	1.994	1.827	1.823	1.679	1.633
1,4-Dichlorobenzene	1.760	1.720	1.676	1.639	1.495
1,2-Dichlorobenzene	1.968	1.779	1.650	1.688	1.391
1,3-Dichlorobenzene	1.897	1.897	1.865	1.858	1.641
2,4-Dichlorophenol	0.311	0.348	0.395	0.386	0.339
Diethylphthalate	1.980	1.829	1.904	1.640	1.617
2,4-Dimethylphenol	0.263	0.239	0.246	0.250	0.249
Dimethylphthalate	2.005	1.887	1.800	1.609	1.543
Di-n-butylphthalate	2.169	2.074	2.256	2.066	1.828

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FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
4,6-Dinitro-2-methylphenol			0.115	0.146	0.169
2,4-Dinitrophenol			0.058	0.097	0.153
2,4-Dinitrotoluene	0.484	0.487	0.524	0.504	0.500
2,6-Dinitrotoluene	0.453	0.422	0.424	0.413	0.432
Di-n-octylphthalate	2.330	2.515	2.800	3.087	2.990
1,2-Diphenylhydrazine	1.310	1.293	1.322	1.217	1.086
Fluoranthene	1.223	1.199	1.288	1.158	1.119
Fluorene	1.511	1.437	1.435	1.304	1.298
Hexachlorobenzene	0.314	0.279	0.296	0.258	0.258
Hexachlorobutadiene	0.229	0.216	0.212	0.210	0.185
Hexachlorocyclopentadiene	0.184	0.197	0.217	0.218	0.237
Hexachloroethane	0.837	0.738	0.745	0.755	0.635
Indeno(1,2,3-cd)pyrene	0.573	0.585	0.592	0.580	0.491
Isophorone	0.962	0.980	0.958	1.008	0.852
2-Methylnaphthalene	0.701	0.703	0.721	0.703	0.615
1-Methylnaphthalene	0.697	0.643	0.659	0.657	0.560
4-Methylphenol	1.217	1.135	1.177	1.193	1.103
2-Methylphenol	1.308	1.195	1.155	1.245	1.059
Naphthalene	1.249	1.207	1.226	1.101	0.985
3-Methylphenol	1.173	1.134	1.177	1.193	1.103
2-Nitroaniline	0.391	0.363	0.387	0.362	0.391
3-Nitroaniline	0.342	0.360	0.391	0.385	0.417
4-Nitroaniline	0.291	0.260	0.246	0.272	0.335
Nitrobenzene	0.542	0.551	0.476	0.510	0.405
2-Nitrophenol	0.270	0.260	0.304	0.313	0.292
4-Nitrophenol		0.138	0.163	0.202	0.210
N-Nitroso-di-methylamine	0.911	0.877	0.856	0.859	0.834
N-Nitrosodiphenylamine	0.727	0.710	0.700	0.704	0.628
N-Nitroso-di-n-propylamine	1.164	1.189	1.122	1.042	0.947
Pentachlorophenol				0.072	0.101
Phenanthrene	1.253	1.168	1.175	1.151	1.058
Phenol	2.306	2.220	2.091	2.122	1.779
Pyrene	1.336	1.412	1.456	1.419	1.345
Pyridine	2.022	1.878	1.945	1.838	1.761
1,2,4,5-Tetrachlorobenzene	0.350	0.321	0.339	0.332	0.307
1,2,4-Trichlorobenzene	0.452	0.438	0.414	0.425	0.387
2,4,5-Trichlorophenol	0.355	0.359	0.425	0.399	0.431

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
2,4,6-Trichlorophenol	0.367	0.379	0.413	0.399	0.399
2-Fluorophenol	1.751	1.698	1.606	1.659	1.477
Phenol-d6	2.020	2.033	1.933	1.953	1.626
Nitrobenzene-d5	0.502	0.502	0.478	0.505	0.408
2-Fluorobiphenyl	1.650	1.442	1.421	1.322	1.266
2,4,6-Tribromophenol	0.104	0.120	0.133	0.135	0.131
Terphenyl-d14	0.864	0.867	0.947	0.980	0.876

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Acenaphthene		1.109	1.080	1.003	
Acenaphthylene		1.535	1.448	1.363	
Acetophenone		1.296	1.263	1.238	
Aniline		0.930	0.886	0.812	
Anthracene		1.028	1.016	0.988	
Benzoic acid		0.282	0.289	0.332	
Benzo(a)anthracene		1.082	1.068	1.060	
Benzo(b)fluoranthene		1.099	1.178	1.163	
Benzo(k)fluoranthene		1.135	1.196	1.138	
Benzo(g,h,i)perylene		0.617	0.536	0.475	
Benzo(a)pyrene		0.938	1.004	0.889	
Benzyl alcohol		0.809	0.756	0.699	
bis(2-Chloroethoxy)methane		0.491	0.446	0.428	
1,1'-Biphenyl		1.410	1.365	1.241	
bis(2-Chloroethyl)ether		1.433	1.546	1.479	
bis(2-Chloroisopropyl)ether		1.937	1.820	1.686	
Bis(2-ethylhexyl)phthalate		1.446	1.336	1.245	
4-Bromophenyl-phenylether		0.275	0.253	0.250	
Butylbenzylphthalate		1.106	0.998	1.079	
Carbazole		1.046	0.976	0.936	
4-Chloroaniline		0.398	0.390	0.384	
Caprolactam		0.131	0.118	0.121	
4-Chloro-3-methylphenol		0.320	0.302	0.308	
2-Chloronaphthalene		1.102	1.138	1.023	
2-Chlorophenol		1.142	1.034	1.021	
4-Chlorophenyl-phenylether		0.545	0.545	0.530	
Chrysene		1.042	0.987	0.960	
Dibenz(a,h)anthracene		0.646	0.560	0.517	
Dibenzofuran		1.503	1.523	1.362	
1,4-Dichlorobenzene		1.346	1.256	1.218	
1,2-Dichlorobenzene		1.282	1.229	1.109	
1,3-Dichlorobenzene		1.501	1.440	1.293	
2,4-Dichlorophenol		0.332	0.323	0.333	
Diethylphthalate		1.512	1.492	1.349	
2,4-Dimethylphenol		0.260	0.244	0.258	
Dimethylphthalate		1.484	1.502	1.379	
Di-n-butylphthalate		1.726	1.754	1.604	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
4,6-Dinitro-2-methylphenol		0.188	0.197	0.195	
2,4-Dinitrophenol		0.203	0.232	0.232	
2,4-Dinitrotoluene		0.466	0.509	0.459	
2,6-Dinitrotoluene		0.413	0.426	0.399	
Di-n-octylphthalate		2.918	3.498	3.613	
1,2-Diphenylhydrazine		1.020	0.964	0.948	
Fluoranthene		1.138	1.074	1.029	
Fluorene		1.226	1.209	1.123	
Hexachlorobenzene		0.258	0.253	0.248	
Hexachlorobutadiene		0.184	0.171	0.179	
Hexachlorocyclopentadiene		0.251	0.240	0.234	
Hexachloroethane		0.606	0.596	0.559	
Indeno(1,2,3-cd)pyrene		0.584	0.540	0.485	
Isophorone		0.818	0.740	0.714	
2-Methylnaphthalene		0.546	0.524	0.526	
1-Methylnaphthalene		0.563	0.512	0.474	
4-Methylphenol		1.142	1.080	1.104	
2-Methylphenol		1.058	1.049	0.958	
Naphthalene		0.890	0.845	0.781	
3-Methylphenol		1.142	1.080	1.094	
2-Nitroaniline		0.352	0.372	0.339	
3-Nitroaniline		0.404	0.421	0.391	
4-Nitroaniline		0.348	0.394	0.350	
Nitrobenzene		0.418	0.378	0.371	
2-Nitrophenol		0.284	0.284	0.269	
4-Nitrophenol		0.218	0.229	0.218	
N-Nitroso-di-methylamine		0.796	0.777	0.712	
N-Nitrosodiphenylamine		0.636	0.613	0.616	
N-Nitroso-di-n-propylamine		0.787	0.749	0.742	
Pentachlorophenol		0.151	0.163	0.166	
Phenanthrene		1.035	1.026	0.952	
Phenol		1.580	1.509	1.404	
Pyrene		1.391	1.322	1.416	
Pyridine		1.719	1.655	1.686	
1,2,4,5-Tetrachlorobenzene		0.299	0.271	0.272	
1,2,4-Trichlorobenzene		0.356	0.338	0.329	
2,4,5-Trichlorophenol		0.419	0.422	0.394	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
2,4,6-Trichlorophenol		0.406	0.405	0.371	
2-Fluorophenol		1.309	1.232	1.081	
Phenol-d6		1.456	1.377	1.292	
Nitrobenzene-d5		0.410	0.377	0.400	
2-Fluorobiphenyl		1.177	1.184	1.061	
2,4,6-Tribromophenol		0.137	0.132	0.133	
Terphenyl-d14		0.908	0.878	0.945	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
Acenaphthene	0.964		0.905
Acenaphthylene	1.346		1.206
Acetophenone			
Aniline	0.691		
Anthracene	0.863		0.931
Benzoic acid	0.309		0.298
Benzo(a)anthracene	1.006		1.012
Benzo(b)fluoranthene	1.214		1.212
Benzo(k)fluoranthene	1.151		1.235
Benzo(g,h,i)perylene	0.565		0.491
Benzo(a)pyrene	0.928		0.967
Benzyl alcohol	0.621		
bis(2-Chloroethoxy)methane			
1,1'-Biphenyl			
bis(2-Chloroethyl)ether			
bis(2-Chloroisopropyl)ether	1.635		1.419
Bis(2-ethylhexyl)phthalate	1.235		1.305
4-Bromophenyl-phenylether	0.224		0.250
Butylbenzylphthalate	1.031		1.071
Carbazole	0.900		0.926
4-Chloroaniline	0.343		0.286
Caprolactam	0.103		0.107
4-Chloro-3-methylphenol	0.274		0.284
2-Chloronaphthalene	0.942		0.907
2-Chlorophenol			
4-Chlorophenyl-phenylether	0.472		0.492
Chrysene	0.932		0.927
Dibenz(a,h)anthracene	0.571		0.530
Dibenzofuran	1.399		1.246
1,4-Dichlorobenzene			
1,2-Dichlorobenzene	0.998		
1,3-Dichlorobenzene			
2,4-Dichlorophenol	0.283		0.270
Diethylphthalate	1.318		
2,4-Dimethylphenol	0.231		0.229
Dimethylphthalate	1.327		
Di-n-butylphthalate	1.504		

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
4,6-Dinitro-2-methylphenol	0.198		0.212
2,4-Dinitrophenol	0.248		0.253
2,4-Dinitrotoluene	0.482		0.469
2,6-Dinitrotoluene	0.394		0.381
Di-n-octylphthalate	3.420		
1,2-Diphenylhydrazine			
Fluoranthene	0.939		1.002
Fluorene	1.100		1.088
Hexachlorobenzene	0.225		0.246
Hexachlorobutadiene	0.147		
Hexachlorocyclopentadiene	0.237		0.218
Hexachloroethane			
Indeno(1,2,3-cd)pyrene	0.544		0.476
Isophorone	0.668		
2-Methylnaphthalene			
1-Methylnaphthalene			
4-Methylphenol	0.983		0.792
2-Methylphenol	1.000		0.964
Naphthalene	0.678		0.625
3-Methylphenol	0.982		0.794
2-Nitroaniline	0.342		0.330
3-Nitroaniline	0.400		0.378
4-Nitroaniline	0.354		0.398
Nitrobenzene	0.318		0.308
2-Nitrophenol	0.241		0.236
4-Nitrophenol	0.229		0.235
N-Nitroso-di-methylamine	0.786		0.703
N-Nitrosodiphenylamine	0.560		0.563
N-Nitroso-di-n-propylamine	0.659		0.568
Pentachlorophenol	0.170		0.178
Phenanthrene	0.912		0.887
Phenol			
Pyrene	1.303		1.404
Pyridine	1.773		1.664
1,2,4,5-Tetrachlorobenzene	0.239		0.230
1,2,4-Trichlorobenzene	0.288		
2,4,5-Trichlorophenol	0.401		0.393

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
2,4,6-Trichlorophenol	0.350		0.342
2-Fluorophenol			
Phenol-d6			
Nitrobenzene-d5	0.335		
2-Fluorobiphenyl			
2,4,6-Tribromophenol	0.127		0.131
Terphenyl-d14	0.915		0.956

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acenaphthene	AVRG		1.12476844		12.2
Acenaphthylene	AVRG		1.54330785		13.0
Acetophenone	AVRG		1.49376744		14.6
Aniline	2ORDR	1.796e-002	0.43995798	0.67369863	0.993
Anthracene	AVRG		1.05199860		11.5
Benzoic acid	LINR	4.394e-002	0.31171568		0.995
Benzo(a)anthracene	AVRG		1.07248148		4.4
Benzo(b)fluoranthene	AVRG		1.14106649		5.2
Benzo(k)fluoranthene	AVRG		1.17725805		3.5
Benzo(g,h,i)perylene	AVRG		0.58035905		13.3
Benzo(a)pyrene	AVRG		0.95336952		4.2
Benzyl alcohol	AVRG		0.79351577		11.4
bis(2-Chloroethoxy)methane	AVRG		0.53756629		13.9
1,1'-Biphenyl	AVRG		1.52744255		12.5
bis(2-Chloroethyl)ether	AVRG		1.71941904		13.5
bis(2-Chloroisopropyl)ether	2ORDR	1.737e-002	0.32529054	9.786e-002	0.996
Bis(2-ethylhexyl)phthalate	AVRG		1.34666770		6.4
4-Bromophenyl-phenylether	AVRG		0.26327168		9.3
Butylbenzylphthalate	AVRG		1.03408471		5.2
Carbazole	AVRG		1.03242714		9.9
4-Chloroaniline	AVRG		0.39118261		12.2
Caprolactam	AVRG		0.12943445		12.9
4-Chloro-3-methylphenol	AVRG		0.30812941		5.9
2-Chloronaphthalene	AVRG		1.14254719		13.7
2-Chlorophenol	2ORDR	0.00000000	0.58868509	0.26467485	0.998
4-Chlorophenyl-phenylether	AVRG		0.55684664		10.0
Chrysene	AVRG		0.99090535		4.1
Dibenz(a,h)anthracene	AVRG		0.56002636		8.1
Dibenzofuran	AVRG		1.59882057		14.8
1,4-Dichlorobenzene	AVRG		1.51369077		14.3
1,2-Dichlorobenzene	2ORDR	2.281e-002	0.40546438	0.28555008	0.998
1,3-Dichlorobenzene	AVRG		1.67402954		14.3
2,4-Dichlorophenol	AVRG		0.33184302		11.9
Diethylphthalate	AVRG		1.62680916		14.5
2,4-Dimethylphenol	AVRG		0.24694694		4.6
Dimethylphthalate	AVRG		1.61518286		14.4
Di-n-butylphthalate	AVRG		1.88673550		14.0

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
4,6-Dinitro-2-methylphenol	LINR	9.622e-002	0.21403517		0.998
2,4-Dinitrophenol	LINR	0.17583436	0.26934481		0.997
2,4-Dinitrotoluene	AVRG		0.48856655		4.3
2,6-Dinitrotoluene	AVRG		0.41586497		4.9
Di-n-octylphthalate	AVRG		3.01882180		14.5
1,2-Diphenylhydrazine	AVRG		1.14519372		13.9
Fluoranthene	AVRG		1.11690314		9.6
Fluorene	AVRG		1.27313975		11.8
Hexachlorobenzene	AVRG		0.26360346		9.9
Hexachlorobutadiene	AVRG		0.19263365		13.5
Hexachlorocyclopentadiene	LINR	-1.56e-002	0.22822564		0.995
Hexachloroethane	AVRG		0.68390330		14.3
Indeno(1,2,3-cd)pyrene	AVRG		0.54510111		8.3
Isophorone	AVRG		0.85552403		14.9
2-Methylnaphthalene	AVRG		0.62990110		13.8
1-Methylnaphthalene	AVRG		0.59565811		13.3
4-Methylphenol	AVRG		1.09263185		11.4
2-Methylphenol	AVRG		1.09901017		11.0
Naphthalene	2ORDR	3.941e-002	0.44567284	0.71673462	0.998
3-Methylphenol	AVRG		1.08726860		11.0
2-Nitroaniline	AVRG		0.36290545		6.1
3-Nitroaniline	AVRG		0.38875625		6.2
4-Nitroaniline	2ORDR	1.817e-002	2.98757028	-0.4619996	0.996
Nitrobenzene	2ORDR	1.85e-002	1.57529040	2.17158771	0.996
2-Nitrophenol	AVRG		0.27528396		9.2
4-Nitrophenol	LINR	4.713e-002	0.23543788		0.999
N-Nitroso-di-methylamine	AVRG		0.81111877		8.5
N-Nitrosodiphenylamine	AVRG		0.64569708		9.5
N-Nitroso-di-n-propylamine	2ORDR	2.857e-002	0.57342267	0.75939788	0.994
Pentachlorophenol	LINR	0.19891481	0.19167337		0.999
Phenanthrene	AVRG		1.06166124		11.6
Phenol	2ORDR	1.993e-003	0.41982898	0.13462245	0.999
Pyrene	AVRG		1.38025498		3.6
Pyridine	AVRG		1.79414105		6.9
1,2,4,5-Tetrachlorobenzene	AVRG		0.29602625		14.1
1,2,4-Trichlorobenzene	AVRG		0.38099771		14.8
2,4,5-Trichlorophenol	AVRG		0.39980127		6.5

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
2,4,6-Trichlorophenol	AVRG		0.38314696		6.5
2-Fluorophenol	2ORDR	4.245e-002	0.40612717	0.14105971	0.994
Phenol-d6	2ORDR	4.229e-003	0.45763171	7.987e-002	1.000
Nitrobenzene-d5	AVRG		0.43528444		14.4
2-Fluorobiphenyl	AVRG		1.31527146		14.2
2,4,6-Tribromophenol	AVRG		0.12846058		7.6
Terphenyl-d14	AVRG		0.91359863		4.6

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF1: CALB001 RF2: CALB002 RF5: CALB005
RF10: CALB010 RF20: CALB020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Atrazine	0.256	0.238	0.246	0.252	0.236
Benzaldehyde	1.372	1.255	1.210	1.291	1.105
Benzidine			0.429	0.572	0.683
3,3'-Dichlorobenzidine	0.217	0.223	0.298	0.316	0.343
2,3,4,6-Tetrachlorophenol			0.115	0.185	0.230

SComp-Srb

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF30: CALB030 RF40: CALB040 RF50: CALB050
RF60: CALB060 RF70: CALB070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Atrazine		0.244	0.218	0.228	
Benzaldehyde		1.176	1.049	0.962	
Benzidine		0.624	0.623	0.646	
3,3'-Dichlorobenzidine		0.357	0.383	0.368	
2,3,4,6-Tetrachlorophenol		0.271	0.281	0.243	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF80: CALB080 RF90: RF100: CALB100

COMPOUND	RF80	RF90	RF100
Atrazine	0.220		0.217
Benzaldehyde			
Benzidine	0.567		0.581
3,3'-Dichlorobenzidine	0.358		0.348
2,3,4,6-Tetrachlorophenol	0.237		0.249

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Atrazine	AVRG		0.23562876		6.0
Benzaldehyde	AVRG		1.17752713		11.4
Benzidine	AVRG		0.59068011		12.9
3,3'-Dichlorobenzidine	LINR	8.142e-003	0.35947172		0.998
2,3,4,6-Tetrachlorophenol	2ORDR	8.191e-002	3.31685216	1.01478033	0.992

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acenaphthene	1.125	1.018	50.00	45.24		AVRG	-9.5	25.0	
Acenaphthylene	1.543	1.682	50.00	54.51		AVRG	9.0	25.0	
Aniline	1.262	1.127	50.00	79.04		2ORDR	58.1	25.0	<
Anthracene	1.052	1.022	50.00	48.55		AVRG	-2.9	25.0	
Benzoic acid	0.270	0.275	50.00	45.90		LINR	-8.2	25.0	
Benzo(a)anthracene	1.072	1.038	50.00	48.39		AVRG	-3.2	25.0	
Benzo(b)fluoranthene	1.141	1.206	50.00	52.84		AVRG	5.7	25.0	
Benzo(k)fluoranthene	1.177	1.159	50.00	49.22		AVRG	-1.6	25.0	
Benzo(g,h,i)perylene	0.580	0.546	50.00	47.00		AVRG	-6.0	25.0	
Benzo(a)pyrene	0.953	0.921	50.00	48.30		AVRG	-3.4	25.0	
Benzyl alcohol	0.794	0.758	50.00	47.75		AVRG	-4.5	25.0	
bis(2-Chloroethoxy)methane	0.538	0.503	50.00	46.79		AVRG	-6.4	25.0	
bis(2-Chloroethyl)ether	1.719	1.500	50.00	43.62		AVRG	-12.8	25.0	
bis(2-Chloroisopropyl)ether	2.055	1.933	50.00	54.98		2ORDR	10.0	25.0	
Bis(2-ethylhexyl)phthalate	1.347	1.289	50.00	47.85		AVRG	-4.3	25.0	
4-Bromophenyl-phenylether	0.263	0.203	50.00	38.61		AVRG	-22.8	25.0	
Butylbenzylphthalate	1.034	1.010	50.00	48.81		AVRG	-2.4	25.0	
Carbazole	1.032	0.856	50.00	41.46		AVRG	-17.1	25.0	
4-Chloroaniline	0.391	0.323	50.00	41.33		AVRG	-17.3	25.0	
4-Chloro-3-methylphenol	0.308	0.275	50.00	44.60		AVRG	-10.8	25.0	
2-Chloronaphthalene	1.143	1.153	50.00	50.47		AVRG	0.9	25.0	
2-Chlorophenol	1.332	1.296	50.00	65.96		2ORDR	31.9	25.0	<
4-Chlorophenyl-phenylether	0.557	0.504	50.00	45.25		AVRG	-9.5	25.0	
Chrysene	0.991	0.951	50.00	47.99		AVRG	-4.0	25.0	
Dibenz(a,h)anthracene	0.560	0.594	50.00	53.06		AVRG	6.1	25.0	
Dibenzofuran	1.599	1.474	50.00	46.11		AVRG	-7.8	25.0	
1,2-Dichlorobenzene	1.455	1.286	50.00	56.51		2ORDR	13.0	25.0	
1,4-Dichlorobenzene	1.514	1.234	50.00	40.75		AVRG	-18.5	25.0	
1,3-Dichlorobenzene	1.674	1.482	50.00	44.26		AVRG	-11.5	25.0	
2,4-Dichlorophenol	0.332	0.318	50.00	47.98		AVRG	-4.0	25.0	

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Diethylphthalate	1.627	1.325	50.00	40.72		AVRG	-18.6	25.0	
2,4-Dimethylphenol	0.247	0.353	50.00	71.54		AVRG	43.1	25.0	<
Dimethylphthalate	1.615	1.318	50.00	40.78		AVRG	-18.4	25.0	
Di-n-butylphthalate	1.887	1.604	50.00	42.51		AVRG	-15.0	25.0	
4,6-Dinitro-2-methylphenol	0.178	0.183	50.00	46.69		LINR	-6.6	25.0	
2,4-Dinitrophenol	0.184	0.200	50.00	44.18	0.050	LINR	-11.6	25.0	
2,4-Dinitrotoluene	0.488	0.421	50.00	43.08		AVRG	-13.8	25.0	
2,6-Dinitrotoluene	0.416	0.366	50.00	44.05		AVRG	-11.9	25.0	
1,2-Diphenylhydrazine	1.145	0.864	50.00	37.74		AVRG	-24.5	25.0	
Di-n-octylphthalate	3.019	3.344	50.00	55.39		AVRG	10.8	25.0	
Fluoranthene	1.117	1.081	50.00	48.40		AVRG	-3.2	25.0	
Fluorene	1.273	1.164	50.00	45.70		AVRG	-8.6	25.0	
Hexachlorobenzene	0.264	0.247	50.00	46.84		AVRG	-6.3	25.0	
Hexachlorobutadiene	0.192	0.182	50.00	47.24		AVRG	-5.5	25.0	
Hexachlorocyclopentadiene	0.223	0.282	50.00	61.27	0.050	LINR	22.5	25.0	
Hexachloroethane	0.684	0.552	50.00	40.36		AVRG	-19.3	25.0	
Indeno(1,2,3-cd)pyrene	0.545	0.526	50.00	48.26		AVRG	-3.5	25.0	
Isophorone	0.856	0.699	50.00	40.85		AVRG	-18.3	25.0	
1-Methylnaphthalene	0.596	0.516	50.00	43.28		AVRG	-13.4	25.0	
2-Methylnaphthalene	0.630	0.566	50.00	44.97		AVRG	-10.0	25.0	
3-Methylphenol	1.087	1.190	50.00	54.75		AVRG	9.5	25.0	
4-Methylphenol	1.093	1.190	50.00	54.48		AVRG	9.0	25.0	
2-Methylphenol	1.099	1.032	50.00	46.96		AVRG	-6.1	25.0	
Naphthalene	0.959	0.911	50.00	59.10		2ORDR	18.2	25.0	
2-Nitroaniline	0.363	0.336	50.00	46.30		AVRG	-7.4	25.0	
3-Nitroaniline	0.389	0.336	50.00	43.19		AVRG	-13.6	25.0	
4-Nitroaniline	0.325	0.294	50.00	42.22		2ORDR	-15.6	25.0	
Nitrobenzene	0.428	0.384	50.00	50.92		2ORDR	1.8	25.0	
2-Nitrophenol	0.275	0.266	50.00	48.30		AVRG	-3.4	25.0	
4-Nitrophenol	0.205	0.183	50.00	40.71	0.050	LINR	-18.6	25.0	
N-Nitroso-di-methylamine	0.811	0.752	50.00	46.39		AVRG	-7.2	25.0	
N-Nitrosodiphenylamine(1)	0.646	0.550	50.00	42.57		AVRG	-14.8	25.0	
Pentachlorophenol	0.143	0.151	50.00	47.43		LINR	-5.1	25.0	
Phenanthrene	1.062	0.982	50.00	46.22		AVRG	-7.5	25.0	
Phenol	1.876	1.745	50.00	62.33		2ORDR	24.7	25.0	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.469	50.00	53.22		AVRG	6.4	25.0
Pyridine	1.794	1.570	50.00	43.76		AVRG	-12.5	25.0
1,2,4-Trichlorobenzene	0.381	0.330	50.00	43.26		AVRG	-13.5	25.0
2,4,5-Trichlorophenol	0.400	0.386	50.00	48.22		AVRG	-3.6	25.0
2,4,6-Trichlorophenol	0.383	0.367	50.00	47.94		AVRG	-4.1	25.0

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0715

Lab File ID: ICV01A Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
N-Nitroso-di-n-propylamine	0.897	0.859	50.00	60.80	0.050	2ORDR	21.6	25.0

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0639

Lab File ID: ICV03 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Benzidine	0.591	0.573	50.00	48.48		AVRG	-3.0	25.0
3,3'-Dichlorobenzidine	0.321	0.336	50.00	47.10		LINR	-5.8	25.0

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0751

Lab File ID: ICV02A Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetophenone	1.494	1.346	50.00	45.07		AVRG	-9.9	25.0
Atrazine	0.236	0.230	50.00	48.80		AVRG	-2.4	25.0
Benzaldehyde	1.178	1.062	50.00	45.10		AVRG	-9.8	25.0
1,1'-Biphenyl	1.528	1.367	50.00	44.75		AVRG	-10.5	25.0
Caprolactam	0.130	0.124	50.00	47.78		AVRG	-4.4	25.0
1,2,4,5-Tetrachlorobenzene	0.296	0.286	50.00	48.37		AVRG	-3.3	25.0
2,3,4,6-Tetrachlorophenol	0.226	0.271	50.00	52.80		2ORDR	5.6	25.0

ICV SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050W Init. Calib. Date(s): 07/24/08 04/01/09

Init. Calib. Times: 1046 0302

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.125	1.082	50.00	48.09		AVRG	-3.8	20.0
Acenaphthylene	1.543	1.534	50.00	49.68		AVRG	-0.6	
Acetophenone	1.494	1.241	50.00	41.55		AVRG	-16.9	
Aniline	1.262	1.172	50.00	84.37		2ORDR	68.7	
Anthracene	1.052	0.988	50.00	46.96		AVRG	-6.1	
Atrazine	0.236	0.214	50.00	45.30		AVRG	-9.4	
Benzaldehyde	1.178	1.066	50.00	45.26		AVRG	-9.5	
Benzidine	0.591	0.426	50.00	36.02		AVRG	-28.0	
Benzoic acid	0.270	0.270	50.00	45.08		LINR	-9.8	
Benzo(a)anthracene	1.072	1.049	50.00	48.92		AVRG	-2.2	
Benzo(b)fluoranthene	1.141	1.176	50.00	51.51		AVRG	3.0	
Benzo(k)fluoranthene	1.177	1.159	50.00	49.24		AVRG	-1.5	
Benzo(g,h,i)perylene	0.580	0.650	50.00	56.03		AVRG	12.0	
Benzo(a)pyrene	0.953	0.969	50.00	50.83		AVRG	1.7	20.0
Benzyl alcohol	0.794	0.893	50.00	56.26		AVRG	12.5	
1,1'-Biphenyl	1.528	1.357	50.00	44.42		AVRG	-11.2	
bis(2-Chloroethoxy)methane	0.538	0.463	50.00	43.04		AVRG	-13.9	
bis(2-Chloroethyl)ether	1.719	1.580	50.00	45.95		AVRG	-8.1	
bis(2-Chloroisopropyl)ether	2.055	1.781	50.00	49.06		2ORDR	-1.9	
Bis(2-ethylhexyl)phthalate	1.347	1.380	50.00	51.26		AVRG	2.5	
4-Bromophenyl-phenylether	0.263	0.249	50.00	47.21		AVRG	-5.6	
Butylbenzylphthalate	1.034	1.102	50.00	53.29		AVRG	6.6	
Caprolactam	0.130	0.119	50.00	46.10		AVRG	-7.8	
Carbazole	1.032	0.986	50.00	47.77		AVRG	-4.4	
4-Chloroaniline	0.391	0.421	50.00	53.81		AVRG	7.6	
4-Chloro-3-methylphenol	0.308	0.312	50.00	50.64		AVRG	1.3	20.0
2-Chloronaphthalene	1.143	1.109	50.00	48.54		AVRG	-2.9	
2-Chlorophenol	1.332	1.277	50.00	64.57		2ORDR	29.1	
4-Chlorophenyl-phenylether	0.557	0.541	50.00	48.60		AVRG	-2.8	
Chrysene	0.991	1.006	50.00	50.74		AVRG	1.5	
Dibenz(a,h)anthracene	0.560	0.626	50.00	55.94		AVRG	11.9	
Dibenzofuran	1.599	1.468	50.00	45.90		AVRG	-8.2	
1,2-Dichlorobenzene	1.455	1.344	50.00	60.40		2ORDR	20.8	
1,4-Dichlorobenzene	1.514	1.368	50.00	45.18		AVRG	-9.6	20.0
1,3-Dichlorobenzene	1.674	1.445	50.00	43.16		AVRG	-13.7	
3,3'-Dichlorobenzidine	0.321	0.368	50.00	51.59		LINR	3.2	
2,4-Dichlorophenol	0.332	0.303	50.00	45.69		AVRG	-8.6	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050W Init. Calib. Date(s): 07/24/08 04/01/09

Init. Calib. Times: 1046 0302

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.627	1.508	50.00	46.35		AVRG	-7.3	
2,4-Dimethylphenol	0.247	0.295	50.00	59.71		AVRG	19.4	
Dimethylphthalate	1.615	1.498	50.00	46.38		AVRG	-7.2	
Di-n-butylphthalate	1.887	1.709	50.00	45.30		AVRG	-9.4	
4,6-Dinitro-2-methylphenol	0.178	0.180	50.00	45.79		LINR	-8.4	
2,4-Dinitrophenol	0.184	0.208	50.00	45.74	0.050	LINR	-8.5	
2,4-Dinitrotoluene	0.488	0.480	50.00	49.08		AVRG	-1.8	
2,6-Dinitrotoluene	0.416	0.413	50.00	49.69		AVRG	-0.6	
1,2-Diphenylhydrazine	1.145	1.051	50.00	45.88		AVRG	-8.2	
Di-n-octylphthalate	3.019	2.967	50.00	49.15		AVRG	-1.7	20.0
Fluoranthene	1.117	1.007	50.00	45.09		AVRG	-9.8	20.0
Fluorene	1.273	1.201	50.00	47.16		AVRG	-5.7	
Hexachlorobenzene	0.264	0.255	50.00	48.30		AVRG	-3.4	
Hexachlorobutadiene	0.192	0.188	50.00	48.68		AVRG	-2.6	20.0
Hexachlorocyclopentadiene	0.223	0.227	50.00	49.18	0.050	LINR	-1.6	
Hexachloroethane	0.684	0.657	50.00	48.03		AVRG	-3.9	
Indeno(1,2,3-cd)pyrene	0.545	0.647	50.00	59.35		AVRG	18.7	
Isophorone	0.856	0.813	50.00	47.51		AVRG	-5.0	
1-Methylnaphthalene	0.596	0.511	50.00	42.88		AVRG	-14.2	
2-Methylnaphthalene	0.630	0.552	50.00	43.80		AVRG	-12.4	
3-Methylphenol	1.087	1.020	50.00	46.89		AVRG	-6.2	
4-Methylphenol	1.093	1.020	50.00	46.66		AVRG	-6.7	
2-Methylphenol	1.099	1.114	50.00	50.70		AVRG	1.4	
Naphthalene	0.959	0.884	50.00	56.29		2ORDR	12.6	
2-Nitroaniline	0.363	0.398	50.00	54.88		AVRG	9.8	
3-Nitroaniline	0.389	0.417	50.00	53.67		AVRG	7.3	
4-Nitroaniline	0.325	0.366	50.00	51.59		2ORDR	3.2	
Nitrobenzene	0.428	0.421	50.00	57.88		2ORDR	15.8	
2-Nitrophenol	0.275	0.281	50.00	51.10		AVRG	2.2	20.0
4-Nitrophenol	0.205	0.245	50.00	53.98	0.050	LINR	8.0	
N-Nitroso-di-methylamine	0.811	0.739	50.00	45.56		AVRG	-8.9	
N-Nitrosodiphenylamine(1)	0.646	0.619	50.00	47.95		AVRG	-4.1	20.0
N-Nitroso-di-n-propylamine	0.897	0.809	50.00	55.44	0.050	2ORDR	10.9	
Pentachlorophenol	0.143	0.181	50.00	55.30		LINR	10.6	20.0
Phenanthrene	1.062	0.960	50.00	45.24		AVRG	-9.5	
Phenol	1.876	1.552	50.00	52.94		2ORDR	5.9	20.0

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050W Init. Calib. Date(s): 07/24/08 04/01/09

Init. Calib. Times: 1046 0302

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.465	50.00	53.08		AVRG	6.2	
Pyridine	1.794	1.710	50.00	47.66		AVRG	-4.7	
1,2,4,5-Tetrachlorobenzene	0.296	0.284	50.00	47.93		AVRG	-4.1	
2,3,4,6-Tetrachlorophenol	0.226	0.341	50.00	67.29		2ORDR	34.6	
1,2,4-Trichlorobenzene	0.381	0.353	50.00	46.32		AVRG	-7.4	
2,4,5-Trichlorophenol	0.400	0.431	50.00	53.86		AVRG	7.7	
2,4,6-Trichlorophenol	0.383	0.416	50.00	54.33		AVRG	8.7	20.0
2-Fluorophenol	1.477	1.349	100.0	120.6		2ORDR	20.6	
Phenol-d6	1.711	1.471	100.0	110.7		2ORDR	10.7	
Nitrobenzene-d5	0.435	0.409	50.00	47.01		AVRG	-6.0	
2-Fluorobiphenyl	1.315	1.237	50.00	47.02		AVRG	-6.0	
2,4,6-Tribromophenol	0.128	0.136	100.0	105.7		AVRG	5.7	
Terphenyl-d14	0.914	1.030	50.00	56.35		AVRG	12.7	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1232

Lab File ID: CCVAP9WA Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 0800 1340

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.269	0.413	50.00	53.15		2ORDR	6.3	20.0
4-Aminobiphenyl	0.785	0.774	50.00	45.71		LINR	-8.6	20.0
m-Dinitrobenzene	0.210	0.293	50.00	54.17		LINR	8.3	20.0
Hexachloropropene	0.152	0.167	50.00	54.91		AVRG	9.8	20.0
Isodrin	0.174	0.195	50.00	56.10		AVRG	12.2	20.0
Kepone	0.072	0.110	50.00	64.65		LINR	29.3	20.0
5-Nitro-o-toluidine	0.347	0.454	50.00	51.70		2ORDR	3.4	20.0
Pentachlorobenzene	0.513	0.494	50.00	48.14		AVRG	-3.7	20.0
Pentachloronitrobenzene	0.070	0.086	50.00	52.86		LINR	5.7	20.0
Pentachloroethane	0.507	0.497	50.00	49.04	0.050	AVRG	-1.9	20.0
o-Toluidine	1.728	1.585	50.00	45.88		AVRG	-8.2	20.0
sym-Trinitrobenzene	0.123	0.221	50.00	60.77		2ORDR	21.5	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1309

Lab File ID: CCVAP9WB Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 1416 1906

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aramite	0.050	0.072	50.00	58.06		LINR	16.1	
Chlorobenzilate	0.282	0.387	50.00	55.44		2ORDR	10.9	
Diallate	0.444	0.381	100.0	85.89		AVRG	-14.1	
2,6-Dichlorophenol	0.283	0.282	50.00	49.89		AVRG	-0.2	
p-(Dimethylamino)azobenzene	0.201	0.259	50.00	53.40		LINR	6.8	
7,12-Dimethylbenz[a]anthrace	0.404	0.364	50.00	38.55		LINR	-22.9	
3,3'-Dimethylbenzidine	0.360	0.461	50.00	45.16		2ORDR	-9.7	
Dinoseb	0.056	0.175	50.00	34.46		2ORDR	-31.1	
Diphenylamine	0.952	0.967	50.00	50.79		AVRG	1.6	
Ethyl methanesulfonate	1.166	1.040	50.00	44.60		AVRG	-10.8	
Isosafrole	0.516	0.084	100.0	16.32		AVRG	-83.7	
Methapyrilene	0.418	0.521	50.00	47.33		LINR	-5.3	
3-Methylcholanthrene	0.436	0.474	50.00	45.32		2ORDR	-9.4	
Methyl methanesulfonate	0.754	0.589	50.00	39.01		AVRG	-22.0	
1,4-Naphthoquinone	0.326	0.215	50.00	29.11		2ORDR	-41.8	
1-Naphthylamine	0.932	0.814	50.00	43.68		AVRG	-12.6	
2-Naphthylamine	0.968	0.654	50.00	30.79		LINR	-38.4	
4-Nitroquinoline-1-oxide	0.011	0.030	50.00	35.10		2ORDR	-29.8	
N-Nitrosodi-n-butylamine	0.210	0.219	50.00	52.11		AVRG	4.2	
N-Nitrosodiethylamine	0.682	0.654	50.00	47.95		AVRG	-4.1	
N-Nitrosomethylethylamine	0.732	0.595	50.00	40.67		AVRG	-18.7	
N-Nitrosomorpholine	0.567	0.502	50.00	44.22		AVRG	-11.5	
N-Nitrosopiperidine	0.228	0.210	50.00	46.26		AVRG	-7.5	
N-Nitrosopyrrolidine	0.649	0.714	50.00	54.98		AVRG	10.0	
Phenacetin	0.339	0.413	50.00	51.41		LINR	2.8	
2-Picoline	1.524	1.297	50.00	42.54		AVRG	-14.9	
Pronamide	0.287	0.396	50.00	56.15		LINR	12.3	
Safrole	0.250	0.250	50.00	49.95		AVRG	-0.1	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1345

Lab File ID: CCVAP9WC Init. Calib. Date(s): 07/24/08 04/01/09

Init. Calib. Times: 1046 0302

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Dimethoate	0.222	0.311	50.00	69.84		AVRG	39.7	20.0
a,a-Dimethyl-phenethylamine	0.605	0.638	125.0	131.7		AVRG	5.4	20.0
Disulfoton	0.361	0.444	50.00	55.36		2ORDR	10.7	20.0
Famphur	0.138	0.281	50.00	228.4		2ORDR	356.7	20.0
Hexachlorophene	0.036	0.026	250.0	204.0		2ORDR	-18.4	20.0
Methyl parathion	0.144	0.438	50.00	77.95		2ORDR	55.9	20.0
Parathion	0.106	0.263	50.00	75.05		2ORDR	50.1	20.0
p-Phenylenediamine	0.112	0.028	125.0	28.84		2ORDR	-76.9	20.0
Phorate	0.482	0.570	50.00	59.08		AVRG	18.2	20.0
Sulfotepp	0.122	0.164	50.00	66.89		AVRG	33.8	20.0
Thionazin	0.156	0.217	50.00	61.75		2ORDR	23.5	20.0
O,O,O-Triethylphosphorothioa	0.120	0.139	50.00	58.16		AVRG	16.3	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.125	1.189	50.00	52.85		AVRG	5.7	20.0
Acenaphthylene	1.543	1.696	50.00	54.93		AVRG	9.9	
Acetophenone	1.494	1.234	50.00	41.31		AVRG	-17.4	
Aniline	1.262	1.159	50.00	82.74		2ORDR	65.5	
Anthracene	1.052	0.959	50.00	45.59		AVRG	-8.8	
Atrazine	0.236	0.206	50.00	43.62		AVRG	-12.8	
Benzaldehyde	1.178	1.123	50.00	47.68		AVRG	-4.6	
Benzidine	0.591	0.570	50.00	48.24		AVRG	-3.5	
Benzoic acid	0.270	0.233	50.00	39.09		LINR	-21.8	
Benzo(a)anthracene	1.072	1.066	50.00	49.72		AVRG	-0.6	
Benzo(b)fluoranthene	1.141	1.208	50.00	52.93		AVRG	5.8	
Benzo(k)fluoranthene	1.177	1.170	50.00	49.70		AVRG	-0.6	
Benzo(g,h,i)perylene	0.580	0.741	50.00	63.87		AVRG	27.7	
Benzo(a)pyrene	0.953	1.027	50.00	53.86		AVRG	7.7	20.0
Benzyl alcohol	0.794	0.812	50.00	51.17		AVRG	2.3	
1,1'-Biphenyl	1.528	1.494	50.00	48.91		AVRG	-2.2	
bis(2-Chloroethoxy)methane	0.538	0.457	50.00	42.48		AVRG	-15.0	
bis(2-Chloroethyl)ether	1.719	1.465	50.00	42.60		AVRG	-14.8	
bis(2-Chloroisopropyl)ether	2.055	1.698	50.00	45.93		2ORDR	-8.1	
Bis(2-ethylhexyl)phthalate	1.347	1.337	50.00	49.63		AVRG	-0.7	
4-Bromophenyl-phenylether	0.263	0.225	50.00	42.66		AVRG	-14.7	
Butylbenzylphthalate	1.034	1.052	50.00	50.89		AVRG	1.8	
Caprolactam	0.130	0.128	50.00	49.62		AVRG	-0.8	
Carbazole	1.032	0.910	50.00	44.05		AVRG	-11.9	
4-Chloroaniline	0.391	0.394	50.00	50.33		AVRG	0.7	
4-Chloro-3-methylphenol	0.308	0.283	50.00	45.96		AVRG	-8.1	20.0
2-Chloronaphthalene	1.143	1.119	50.00	48.98		AVRG	-2.0	
2-Chlorophenol	1.332	1.239	50.00	61.85		2ORDR	23.7	
4-Chlorophenyl-phenylether	0.557	0.622	50.00	55.82		AVRG	11.6	
Chrysene	0.991	1.034	50.00	52.19		AVRG	4.4	
Dibenz(a,h)anthracene	0.560	0.710	50.00	63.34		AVRG	26.7	
Dibenzofuran	1.599	1.626	50.00	50.86		AVRG	1.7	
1,2-Dichlorobenzene	1.455	1.209	50.00	51.53		2ORDR	3.1	
1,4-Dichlorobenzene	1.514	1.371	50.00	45.30		AVRG	-9.4	20.0
1,3-Dichlorobenzene	1.674	1.421	50.00	42.46		AVRG	-15.1	
3,3'-Dichlorobenzidine	0.321	0.422	50.00	59.05		LINR	18.1	
2,4-Dichlorophenol	0.332	0.321	50.00	48.44		AVRG	-3.1	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.627	1.696	50.00	52.14		AVRG	4.3	
2,4-Dimethylphenol	0.247	0.274	50.00	55.44		AVRG	10.9	
Dimethylphthalate	1.615	1.652	50.00	51.14		AVRG	2.3	
Di-n-butylphthalate	1.887	1.657	50.00	43.92		AVRG	-12.2	
4,6-Dinitro-2-methylphenol	0.178	0.162	50.00	41.66		LINR	-16.7	
2,4-Dinitrophenol	0.184	0.210	50.00	46.13	0.050	LINR	-7.7	
2,4-Dinitrotoluene	0.488	0.534	50.00	54.66		AVRG	9.3	
2,6-Dinitrotoluene	0.416	0.443	50.00	53.22		AVRG	6.4	
1,2-Diphenylhydrazine	1.145	0.974	50.00	42.53		AVRG	-14.9	
Di-n-octylphthalate	3.019	2.811	50.00	46.56		AVRG	-6.9	20.0
Fluoranthene	1.117	0.942	50.00	42.16		AVRG	-15.7	20.0
Fluorene	1.273	1.324	50.00	52.00		AVRG	4.0	
Hexachlorobenzene	0.264	0.242	50.00	45.90		AVRG	-8.2	
Hexachlorobutadiene	0.192	0.173	50.00	44.90		AVRG	-10.2	20.0
Hexachlorocyclopentadiene	0.223	0.262	50.00	56.68	0.050	LINR	13.4	
Hexachloroethane	0.684	0.632	50.00	46.23		AVRG	-7.5	
Indeno(1,2,3-cd)pyrene	0.545	0.702	50.00	64.45		AVRG	28.9	
Isophorone	0.856	0.820	50.00	47.92		AVRG	-4.1	
1-Methylnaphthalene	0.596	0.525	50.00	44.09		AVRG	-11.8	
2-Methylnaphthalene	0.630	0.521	50.00	41.33		AVRG	-17.3	
3-Methylphenol	1.087	1.010	50.00	46.44		AVRG	-7.1	
4-Methylphenol	1.093	1.010	50.00	46.22		AVRG	-7.6	
2-Methylphenol	1.099	1.095	50.00	49.83		AVRG	-0.3	
Naphthalene	0.959	0.870	50.00	54.89		2ORDR	9.8	
2-Nitroaniline	0.363	0.397	50.00	54.73		AVRG	9.5	
3-Nitroaniline	0.389	0.454	50.00	58.36		AVRG	16.7	
4-Nitroaniline	0.325	0.410	50.00	57.17		2ORDR	14.3	
Nitrobenzene	0.428	0.388	50.00	51.75		2ORDR	3.5	
2-Nitrophenol	0.275	0.270	50.00	49.03		AVRG	-1.9	20.0
4-Nitrophenol	0.205	0.276	50.00	60.51	0.050	LINR	21.0	
N-Nitroso-di-methylamine	0.811	0.774	50.00	47.71		AVRG	-4.6	
N-Nitrosodiphenylamine(1)	0.646	0.586	50.00	45.41		AVRG	-9.2	20.0
N-Nitroso-di-n-propylamine	0.897	0.776	50.00	51.97	0.050	2ORDR	3.9	
Pentachlorophenol	0.143	0.161	50.00	49.96		LINR	-0.1	20.0
Phenanthrene	1.062	0.965	50.00	45.43		AVRG	-9.1	
Phenol	1.876	1.513	50.00	51.11		2ORDR	2.2	20.0

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.392	50.00	50.44		AVRG	0.9	
Pyridine	1.794	1.583	50.00	44.12		AVRG	-11.8	
1,2,4,5-Tetrachlorobenzene	0.296	0.276	50.00	46.54		AVRG	-6.9	
2,3,4,6-Tetrachlorophenol	0.226	0.359	50.00	70.93		2ORDR	41.9	
1,2,4-Trichlorobenzene	0.381	0.346	50.00	45.36		AVRG	-9.3	
2,4,5-Trichlorophenol	0.400	0.446	50.00	55.77		AVRG	11.5	
2,4,6-Trichlorophenol	0.383	0.432	50.00	56.33		AVRG	12.6	20.0
2-Fluorophenol	1.477	1.253	100.0	108.0		2ORDR	8.0	
Phenol-d6	1.711	1.470	100.0	110.6		2ORDR	10.6	
Nitrobenzene-d5	0.435	0.373	50.00	42.86		AVRG	-14.3	
2-Fluorobiphenyl	1.315	1.399	50.00	53.18		AVRG	6.4	
2,4,6-Tribromophenol	0.128	0.132	100.0	102.7		AVRG	2.7	
Terphenyl-d14	0.914	0.976	50.00	53.42		AVRG	6.8	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1439

Lab File ID: CCVAP9A Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 0800 1340

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.269	0.406	50.00	52.24		2ORDR	4.5	20.0
4-Aminobiphenyl	0.785	0.742	50.00	43.78		LINR	-12.4	20.0
m-Dinitrobenzene	0.210	0.273	50.00	50.40		LINR	0.8	20.0
Hexachloropropene	0.152	0.171	50.00	56.28		AVRG	12.6	20.0
Isodrin	0.174	0.228	50.00	65.58		AVRG	31.2	20.0
Kepone	0.072	0.110	50.00	64.52		LINR	29.0	20.0
5-Nitro-o-toluidine	0.347	0.424	50.00	48.03		2ORDR	-3.9	20.0
Pentachlorobenzene	0.513	0.476	50.00	46.44		AVRG	-7.1	20.0
Pentachloronitrobenzene	0.070	0.076	50.00	46.61		LINR	-6.8	20.0
Pentachloroethane	0.507	0.490	50.00	48.30	0.050	AVRG	-3.4	20.0
o-Toluidine	1.728	1.693	50.00	48.99		AVRG	-2.0	20.0
sym-Trinitrobenzene	0.123	0.208	50.00	57.46		2ORDR	14.9	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1516

Lab File ID: CCVAP9B Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 1416 1906

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aramite	0.050	0.072	50.00	57.97		LINR	15.9	
Chlorobenzilate	0.282	0.368	50.00	52.62		2ORDR	5.2	
Diallate	0.444	0.398	100.0	89.54		AVRG	-10.4	
2,6-Dichlorophenol	0.283	0.277	50.00	48.96		AVRG	-2.1	
p-(Dimethylamino)azobenzene	0.201	0.267	50.00	55.07		LINR	10.1	
7,12-Dimethylbenz[a]anthrace	0.404	0.393	50.00	41.56		LINR	-16.9	
3,3'-Dimethylbenzidine	0.360	0.523	50.00	52.29		2ORDR	4.6	
Dinoseb	0.056	0.177	50.00	33.04		2ORDR	-33.9	
Diphenylamine	0.952	0.970	50.00	50.91		AVRG	1.8	
Ethyl methanesulfonate	1.166	1.006	50.00	43.14		AVRG	-13.7	
Isosafrole	0.516	0.438	100.0	84.83		AVRG	-15.2	
Methapyrilene	0.418	0.551	50.00	50.10		LINR	0.2	
3-Methylcholanthrene	0.436	0.485	50.00	46.47		2ORDR	-7.0	
Methyl methanesulfonate	0.754	0.594	50.00	39.39		AVRG	-21.2	
1,4-Naphthoquinone	0.326	0.200	50.00	26.88		2ORDR	-46.2	
1-Naphthylamine	0.932	0.779	50.00	41.80		AVRG	-16.4	
2-Naphthylamine	0.968	0.617	50.00	29.06		LINR	-41.9	
4-Nitroquinoline-1-oxide	0.011	0.081	50.00	454.0		2ORDR	-99.9	
N-Nitrosodi-n-butylamine	0.210	0.218	50.00	51.99		AVRG	4.0	
N-Nitrosodiethylamine	0.682	0.610	50.00	44.75		AVRG	-10.5	
N-Nitrosomethylethylamine	0.732	0.652	50.00	44.56		AVRG	-10.9	
N-Nitrosomorpholine	0.567	0.525	50.00	46.27		AVRG	-7.4	
N-Nitrosopiperidine	0.228	0.193	50.00	42.44		AVRG	-15.1	
N-Nitrosopyrrolidine	0.649	0.680	50.00	52.37		AVRG	4.7	
Phenacetin	0.339	0.418	50.00	51.99		LINR	4.0	
2-Picoline	1.524	1.267	50.00	41.57		AVRG	-16.9	
Pronamide	0.287	0.404	50.00	57.36		LINR	14.7	
Safrole	0.250	0.238	50.00	47.38		AVRG	-5.2	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_003

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1553

Lab File ID: CCVAP9C Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Dimethoate	0.222	0.327	50.00	73.42		AVRG	46.8	20.0
a,a-Dimethyl-phenethylamine	0.605	0.872	125.0	180.1		AVRG	44.1	20.0
Disulfoton	0.361	0.420	50.00	52.60		2ORDR	5.2	20.0
Famphur	0.138	0.318	50.00	283.3		2ORDR	466.6	20.0
Hexachlorophene	0.036	0.022	250.0	187.5		2ORDR	-25.0	20.0
Methyl parathion	0.144	0.429	50.00	77.86		2ORDR	55.7	20.0
Parathion	0.106	0.266	50.00	75.30		2ORDR	50.6	20.0
p-Phenylenediamine	0.112	0.028	125.0	29.63		2ORDR	-76.3	20.0
Phorate	0.482	0.540	50.00	56.04		AVRG	12.1	20.0
Sulfotepp	0.122	0.164	50.00	67.16		AVRG	34.3	20.0
Thionazin	0.156	0.210	50.00	59.87		2ORDR	19.7	20.0
O,O,O-Triethylphosphorothioa	0.120	0.144	50.00	60.06		AVRG	20.1	20.0

Sequence Name: C:\HPCHEM\1\SEQUENCE\072408B1.S
Comment: clp/8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\072408B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

6979

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

M 7/24/18
I 7/28/18

DWA | APP 9 Calibs.

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPBN1	
2	CCal	99	CCV050	IXBN1	BNACAL050PPM;;;;;;SV4451
3	ICal	14	CHK100	IXBN1	BNACAL100PPM;;;;;;SV4413-13
4	ICal	4	CHK005	IXBN1	BNACAL005PPM;;;;;;SV4413-3
5	QC	1	DF0724B1	DFTPPBN1	DF0724B1;;;;;SV4405 10:25, 7/24
6	ICal	2	CAL001	IXBN1	BNACAL001PPM;;;;;;SV4413-1
7	ICal	3	CAL002	IXBN1	BNACAL002PPM;;;;;;SV4413-2
8	ICal	4	CAL005	IXBN1	BNACAL005PPM;;;;;;SV4413-3
9	ICal	5	CAL010	IXBN1	BNACAL010PPM;;;;;;SV4413-4
10	ICal	6	CAL020	IXBN1	BNACAL020PPM;;;;;;SV4413-5
11	ICal	7	CAL030	IXBN1	BNACAL030PPM;;;;;;SV4413-6
12	ICal	8	CAL040	IXBN1	BNACAL040PPM;;;;;;SV4413-7
13	ICal	9	CAL050	IXBN1	BNACAL050PPM;;;;;;SV4413-8
14	ICal	10	CAL060	IXBN1	BNACAL060PPM;;;;;;SV4413-9
15	ICal	11	CAL070	IXBN1	BNACAL070PPM;;;;;;SV4413-10
16	ICal	12	CAL080	IXBN1	BNACAL080PPM;;;;;;SV4413-11
17	ICal	13	CAL090	IXBN1	BNACAL090PPM;;;;;;SV4413-12
18	ICal	14	CAL100	IXBN1	BNACAL100PPM;;;;;;SV4413-13
19	ICal	15	CALB001	IXBN1	BNACAL001PPM;;;;;;SV4415-1
20	ICal	16	CALB002	IXBN1	BNACAL002PPM;;;;;;SV4415-2
21	ICal	17	CALB005	IXBN1	BNACAL005PPM;;;;;;SV4415-3
22	ICal	18	CALB010	IXBN1	BNACAL010PPM;;;;;;SV4415-4
23	ICal	19	CALB020	IXBN1	BNACAL020PPM;;;;;;SV4415-5
24	ICal	20	CALB050	IXBN1	BNACAL050PPM;;;;;;SV4415-8
25	ICal	21	CALB070	IXBN1	BNACAL070PPM;;;;;;SV4415-10
26	Sample	1	DF0724B2	DFTPPBN1	DF0724B2;;;;;SV4405 22:41,7/24
27	ICal	22	CALB080	IXBN1	BNACAL080PPM;;;;;;SV4415-11
28	ICal	23	CALB100	IXBN1	BNACAL100PPM;;;;;;SV4415-13
29	QC	24	ICVEX	IXBN1	BNAICV050PPM;;;;;;SV4304
30	QC	25	ICVMAIN	IXBN1	BNAICV050PPM;;;;;;SV4444-A(main)
31	QC	26	ICV02	IXBN1	BNAICV050PPM;;;;;;SV4444-B
32	QC	27	ICV03	IXBN1	BNAICV050PPM;;;;;;SV4445
33	Sample	28	CAP9C001	IXBN1	CALAP9C001PPM;;;;;;SV4457-1
34	Sample	29	CAP9C002	IXBN1	CALAP9C002PPM;;;;;;SV4457-2
35	Sample	30	CAP9C005	IXBN1	CALAP9C005PPM;;;;;;SV4457-3
36	Sample	31	CAP9C010	IXBN1	CALAP9C010PPM;;;;;;SV4457-4
37	Sample	32	CAP9C020	IXBN1	CALAP9C020PPM;;;;;;SV4457-5
38	Sample	33	CAP9C030	IXBN1	CALAP9C030PPM;;;;;;SV4457-6
39	Sample	34	CAP9C050	IXBN1	CALAP9C050PPM;;;;;;SV4457-8
40	Sample	35	CAP9C070	IXBN1	CALAP9C070PPM;;;;;;SV4457-10
41	Sample	36	CAP9C100	IXBN1	CALAP9C100PPM;;;;;;SV4457-13
42	Sample	37	CAP9A001	IXBN1	CALAP9A001PPM;;;;;;SV4455-1
43	Sample	38	CAP9A002	IXBN1	CALAP9A002PPM;;;;;;SV4455-2

ppbna3 → scomp → ppbna → app9c → app9a

ppbna3, scomp, app9c, app9a, app9b. subs used
1xBN1.m (H2O)
1xSU1.m (SO11)

Sequence Name: C:\HPCHEM\1\SEQUENCE\072408B1.S

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Line	Type		Vial	DataFile	Method	Sample Name
44	Sample	app9a	39	CAP9A005	IXBN1	CALAP9A005PPM;;;;;;SV4455-3
45	Sample		40	CAP9A010	IXBN1	CALAP9A010PPM;;;;;;SV4455-4
46	QC	ppbna	98	ICVEX1	IXBN1	BNAICV050PPM;;;;;;SV4459
47	Sample		1	DF0724B3	DFTPPBN1	DF0724B3;;;;;SV4405 10:56, 7/25
48	Sample	app9a	41	CAP9A020	IXBN1	CALAP9A020PPM;;;;;;SV4455-5
49	Sample		42	CAP9A030	IXBN1	CALAP9A030PPM;;;;;;SV4455-6
50	Sample		43	CAP9A050	IXBN1	CALAP9A050PPM;;;;;;SV4455-8
51	Sample		44	CAP9A070	IXBN1	CALAP9A070PPM;;;;;;SV4455-10
52	Sample		45	CAP9A100	IXBN1	CALAP9A100PPM;;;;;;SV4455-13
53	Sample	app9b	46	CAP9B001	IXBN1	CALAP9B001PPM;;;;;;SV4456-1
54	Sample		47	CAP9B002	IXBN1	CALAP9B002PPM;;;;;;SV4456-2
55	Sample		48	CAP9B005	IXBN1	CALAP9B005PPM;;;;;;SV4456-3
56	Sample		49	CAP9B010	IXBN1	CALAP9B010PPM;;;;;;SV4456-4
57	Sample		50	CAP9B020	IXBN1	CALAP9B020PPM;;;;;;SV4456-5
58	Sample		51	CAP9B030	IXBN1	CALAP9B030PPM;;;;;;SV4456-6
59	Sample		52	CAP9B050	IXBN1	CALAP9B050PPM;;;;;;SV4456-8
60	Sample		53	CAP9B070	IXBN1	CALAP9B070PPM;;;;;;SV4456-10
61	Sample		54	CAP9B100	IXBN1	CALAP9B100PPM;;;;;;SV4456-13
62	Sample		100	BLANK	DFTPPBN1	
63	Sample		1	DF0728B1	DFTPPBN1	DF0728B1;;;;;SV4405 7/28, 9:48
64	Sample	ap9c	55	CAP9C060	IXBN1	CALAP9C060PPM;;;;;;SV4457-9 X
65	Sample		56	CAP9C70R	IXBN1	CALAP9C070PPM;;;;;;SV4457-10 X
66	Sample		57	CAP9C080	IXBN1	CALAP9C080PPM;;;;;;SV4457-11 -OK
67	Sample		58	CAP9C090	IXBN1	CALAP9C090PPM;;;;;;SV4457-12 X
68	Sample		59	CA9C100R	IXBN1	CALAP9C100PPM;;;;;;SV4457-13 X

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Sequence Name: C:\HPCHEM\1\SEQUENCE\072408B1.S
      Comment: clp/8270/625
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\072408B1.b\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample
    Vial: 100
    Meth: DFTPPBN1.M   Barcode:
    Data: BLANK.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: CCal         BNACAL050PPM;;;;;;SV4451
    Vial: 99           ;2;;;;;ppbna.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CCV050.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: ICal         BNACAL100PPM;;;;;;SV4413-13
    Vial: 14           ;1;;;13;;ppbna1.sub;4392
    Meth: IXBN1.M      Barcode:
    Data: CHK100.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: ICal         BNACAL005PPM;;;;;;SV4413-3
    Vial: 4            ;1;;;3;;ppbna1.sub;4392
    Meth: IXBN1.M      Barcode:
    Data: CHK005.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: QC           DF0724B1;;;;;SV4405
    Vial: 1            ;;;;;;all.sub;
    Meth: DFTPPBN1.M   Barcode:
    Data: DF0724B1.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: ICal         BNACAL001PPM;;;;;;SV4413-1
    Vial: 2            ;1;;;1;;ppbna3.sub;4392
    Meth: IXBN1.M      Barcode:
    Data: CAL001.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: ICal         BNACAL002PPM;;;;;;SV4413-2
    Vial: 3            ;1;;;2;;ppbna3.sub;4392
    Meth: IXBN1.M      Barcode:
    Data: CAL002.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: ICal         BNACAL005PPM;;;;;;SV4413-3
    Vial: 4            ;1;;;3;;ppbna3.sub;4392
    Meth: IXBN1.M      Barcode:

Sequence: 072408B1.S   Last Modified: Mon Jul 28 11:39:48 2008   Page: 1
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    Data: CAL005.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: ICal        BNACAL010PPM;;;;;;SV4413-4
    Vial: 5           ;1;;;4;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL010.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: ICal        BNACAL020PPM;;;;;;SV4413-5
    Vial: 6           ;1;;;5;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL020.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: ICal        BNACAL030PPM;;;;;;SV4413-6
    Vial: 7           ;1;;;6;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL030.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: ICal        BNACAL040PPM;;;;;;SV4413-7
    Vial: 8           ;1;;;7;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL040.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: ICal        BNACAL050PPM;;;;;;SV4413-8
    Vial: 9           ;1;;;8;;ppbna3.sub;4352
    Meth: IXBN1.M     Barcode:
    Data: CAL050.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: ICal        BNACAL060PPM;;;;;;SV4413-9
    Vial: 10          ;1;;;9;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL060.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: ICal        BNACAL070PPM;;;;;;SV4413-10
    Vial: 11          ;1;;;10;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL070.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: ICal        BNACAL080PPM;;;;;;SV4413-11
    Vial: 12          ;1;;;11;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL080.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default         Lib. Search Rep.:Default
    Quant Report     :Default         Post-Quant Macro:Default
    CR Database      :Default         CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: ICal        BNACAL090PPM;;;;;;SV4413-12
    Vial: 13          ;1;;;12;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL090.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18  Type: ICal        BNACAL100PPM;;;;;;SV4413-13
    Vial: 14          ;1;;;13;;ppbna3.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CAL100.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: ICal        BNACAL001PPM;;;;;;SV4415-1
    Vial: 15          ;1;;;1;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB001.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: ICal        BNACAL002PPM;;;;;;SV4415-2
    Vial: 16          ;1;;;2;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB002.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: ICal        BNACAL005PPM;;;;;;SV4415-3
    Vial: 17          ;1;;;3;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB005.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: ICal        BNACAL010PPM;;;;;;SV4415-4
    Vial: 18          ;1;;;4;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB010.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: ICal        BNACAL020PPM;;;;;;SV4415-5
    Vial: 19          ;1;;;5;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB020.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24  Type: ICal        BNACAL050PPM;;;;;;SV4415-8
    Vial: 20          ;1;;;8;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB050.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25  Type: ICal        BNACAL070PPM;;;;;;SV4415-10
    Vial: 21          ;1;;;10;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB070.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
26  Type: Sample      DF0724B2;;;;;SV4405
    Vial: 1           ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: DF0724B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

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```
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
27  Type: ICal        BNACAL080PPM;;;;;;SV4415-11
    Vial: 22          ;1;;;11;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB080.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
28  Type: ICal        BNACAL100PPM;;;;;;SV4415-13
    Vial: 23          ;1;;;13;;5comp.sub;4392
    Meth: IXBN1.M     Barcode:
    Data: CALB100.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
29  Type: QC          BNAICV050PPM;;;;;;SV4304
    Vial: 24          ;3;;;;;ppbna.sub;4292
    Meth: IXBN1.M     Barcode:
    Data: ICVEX.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
30  Type: QC          BNAICV050PPM;;;;;;SV4444-A(main)
    Vial: 25          ;3;;;;;ppbna.sub;4441
    Meth: IXBN1.M     Barcode:
    Data: ICVMAIN.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
31  Type: QC          BNAICV050PPM;;;;;;SV4444-B
    Vial: 26          ;3;;;;;ppbna.sub;4441
    Meth: IXBN1.M     Barcode:
    Data: ICV02.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
32  Type: QC          BNAICV050PPM;;;;;;SV4445
    Vial: 27          ;3;;;;;ppbna.sub;4441
    Meth: IXBN1.M     Barcode:
    Data: ICV03.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
33  Type: Sample      CALAP9C001PPM;;;;;;SV4457-1
    Vial: 28          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C001.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
34  Type: Sample      CALAP9C002PPM;;;;;;SV4457-2
    Vial: 29          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C002.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
35  Type: Sample      CALAP9C005PPM;;;;;;SV4457-3
    Vial: 30          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C005.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default

Sequence: 072408B1.S   Last Modified: Mon Jul 28 11:39:48 2008   Page: 4
```

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```
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
36  Type: Sample      CALAP9C010PPM;;;;;;SV4457-4
    Vial: 31          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C010.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
37  Type: Sample      CALAP9C020PPM;;;;;;SV4457-5
    Vial: 32          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C020.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
38  Type: Sample      CALAP9C030PPM;;;;;;SV4457-6
    Vial: 33          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C030.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
39  Type: Sample      CALAP9C050PPM;;;;;;SV4457-8
    Vial: 34          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C050.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
40  Type: Sample      CALAP9C070PPM;;;;;;SV4457-10
    Vial: 35          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C070.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
41  Type: Sample      CALAP9C100PPM;;;;;;SV4457-13
    Vial: 36          ;;;;;;app9c.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9C100.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
42  Type: Sample      CALAP9A001PPM;;;;;;SV4455-1
    Vial: 37          ;;;;;;app9a.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9A001.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
43  Type: Sample      CALAP9A002PPM;;;;;;SV4455-2
    Vial: 38          ;;;;;;app9a.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9A002.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
44  Type: Sample      CALAP9A005PPM;;;;;;SV4455-3
    Vial: 39          ;;;;;;app9a.sub;4449
    Meth: IXBN1.M     Barcode:
    Data: CAP9A005.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
```

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```
45  Type: Sample       CALAP9A010PPM;;;;;;SV4455-4
    Vial: 40           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A010.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
46  Type: QC           BNAICV050PPM;;;;;;SV4459
    Vial: 98           ;3;;;;;ppbna.sub;4454A
    Meth: IXBN1.M      Barcode:
    Data: ICVEX1.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
47  Type: Sample       DF0724B3;;;;;SV4405
    Vial: 1            ;;;;;;all.sub;
    Meth: DFTPPBN1.M   Barcode:
    Data: DF0724B3.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
48  Type: Sample       CALAP9A020PPM;;;;;;SV4455-5
    Vial: 41           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A020.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
49  Type: Sample       CALAP9A030PPM;;;;;;SV4455-6
    Vial: 42           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A030.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
50  Type: Sample       CALAP9A050PPM;;;;;;SV4455-8
    Vial: 43           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A050.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
51  Type: Sample       CALAP9A070PPM;;;;;;SV4455-10
    Vial: 44           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A070.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
52  Type: Sample       CALAP9A100PPM;;;;;;SV4455-13
    Vial: 45           ;;;;;;app9a.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9A100.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
53  Type: Sample       CALAP9B001PPM;;;;;;SV4456-1
    Vial: 46           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B001.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

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```
54  Type: Sample       CALAP9B002PPM;;;;;;SV4456-2
    Vial: 47           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B002.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
55  Type: Sample       CALAP9B005PPM;;;;;;SV4456-3
    Vial: 48           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B005.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
56  Type: Sample       CALAP9B010PPM;;;;;;SV4456-4
    Vial: 49           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B010.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
57  Type: Sample       CALAP9B020PPM;;;;;;SV4456-5
    Vial: 50           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B020.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
58  Type: Sample       CALAP9B030PPM;;;;;;SV4456-6
    Vial: 51           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B030.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
59  Type: Sample       CALAP9B050PPM;;;;;;SV4456-8
    Vial: 52           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B050.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
60  Type: Sample       CALAP9B070PPM;;;;;;SV4456-10
    Vial: 53           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B070.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
61  Type: Sample       CALAP9B100PPM;;;;;;SV4456-13
    Vial: 54           ;;;;;;app9b.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9B100.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
62  Type: Sample
    Vial: 100
    Meth: DFTPPBN1.M   Barcode:
    Data: BLANK.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
63  Type: Sample       DF0728B1;;;;;SV4405
```

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```
    Vial: 1            ;;;;;;all.sub;
    Meth: DFTPPBN1.M   Barcode:
    Data: DF0728B1.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
64  Type: Sample       CALAP9C060PPM;;;;;;SV4457-9
    Vial: 55           ;;;;;;app9c.sub;4454A
    Meth: IXBN1.M      Barcode:
    Data: CAP9C060.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
65  Type: Sample       CALAP9C070PPM;;;;;;SV4457-10
    Vial: 56           ;;;;;;app9c.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CAP9C70R.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
66  Type: Sample       CALAP9C080PPM;;;;;;SV4457-11
    Vial: 57           ;;;;;;app9c.sub;4454A
    Meth: IXBN1.M      Barcode:
    Data: CAP9C080.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
67  Type: Sample       CALAP9C090PPM;;;;;;SV4457-12
    Vial: 58           ;;;;;;app9c.sub;4454A
    Meth: IXBN1.M      Barcode:
    Data: CAP9C090.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
68  Type: Sample       CALAP9C100PPM;;;;;;SV4457-13
    Vial: 59           ;;;;;;app9c.sub;4449
    Meth: IXBN1.M      Barcode:
    Data: CA9C100R.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
--------------------------------------------------------------------------
```

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Chromatographic flags for Manual Integrations

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.

C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak. The wrong peak was identified in the original.

E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

Sequence ID	File ID	Analyte	Code
030309B1	CAL001	3-Methylphenol	D
030309B1	CAL001	4-Methylphenol	D
030309B1	CAL001	Hexachlorocyclopentadiene	A
030309B1	CAL002	3-Methylphenol	D
030309B1	CAL002	4-Methylphenol	D
030309B1	CAL002	Benzoic acid	A
030309B1	CAL002	4-Nitrophenol	A
030309B1	CAL002	Pentachlorophenol	A
030309B1	CAL005	Benzoic acid	A
030309B1	CAL005	2,4-Dinitrophenol	E
030309B1	CAL005	4-Nitrophenol	C
030309B1	CAL005	Pentachlorophenol	E
030309B1	CAL010	Benzoic acid	A
030309B1	CAL020	Benzoic acid	A
030309B1	CAL060	3-Methylphenol	D
030309B1	CAL060	4-Methylphenol	D
030309B1	CAL080	3-Methylphenol	D
030309B1	CAL080	4-Methylphenol	D
030309B1	CAL100	3-Methylphenol	D
030309B1	CAL100	4-Methylphenol	D
030309B1	CALB001	3,3'-Dichlorobenzidine	A
030309B1	ICV03	3,3'-Dichlorobenzidine	A

Sequence Name: C:\HPCHEM\1\SEQUENCE\030309B1.S
Comment: clp/8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\030309B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7393
M
3/3/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	DF0303B1	DFTPPBN1	DF0303B1;;;;;SV4242 16:49, 3/3
2	ICal	2	CAL001	IXBN1	BNACAL001PPM;;;;;;SV4703-2
3	ICal	3	CAL002	IXBN1	BNACAL002PPM;;;;;;SV4703-3
4	ICal	4	CAL005	IXBN1	BNACAL005PPM;;;;;;SV4703-4
5	ICal	5	CAL010	IXBN1	BNACAL010PPM;;;;;;SV4703-5
6	ICal	6	CAL020	IXBN1	BNACAL020PPM;;;;;;SV4703-6
7	ICal	7	CAL040	IXBN1	BNACAL040PPM;;;;;;SV4703-7
8	ICal	8	CAL050	IXBN1	BNACAL050PPM;;;;;;SV4703-8
9	ICal	9	CAL060	IXBN1	BNACAL060PPM;;;;;;SV4703-9
10	ICal	10	CAL080	IXBN1	BNACAL080PPM;;;;;;SV4703-10
11	ICal	11	CAL100	IXBN1	BNACAL100PPM;;;;;;SV4703-11
12	ICal	12	CALB001	IXBN1	BNACAL001PPM;;;;;;SV4690A
13	ICal	13	CALB002	IXBN1	BNACAL002PPM;;;;;;SV4690B
14	ICal	14	CALB005	IXBN1	BNACAL005PPM;;;;;;SV4671-1
15	ICal	15	CALB010	IXBN1	BNACAL010PPM;;;;;;SV4671-2
16	ICal	16	CALB020	IXBN1	BNACAL020PPM;;;;;;SV4671-3
17	ICal	17	CALB040	IXBN1	BNACAL040PPM;;;;;;SV4671-5
18	ICal	18	CALB050	IXBN1	BNACAL050PPM;;;;;;SV4671-6
19	ICal	19	CALB060	IXBN1	BNACAL060PPM;;;;;;SV4671-7
20	ICal	20	CALB080	IXBN1	BNACAL080PPM;;;;;;SV4671-9
21	Sample	1	DF0303B2	DFTPPBN1	DF0303B2;;;;;SV4755 4:29, 3/4
22	ICal	21	CALB100	IXBN1	BNACAL100PPM;;;;;;SV4671-10
23	QC	22	ICV01	IXBN1	BNAICV050PPM;;;;;;SV4704(LCS1)
24	QC	23	ICV02	IXBN1	BNAICV050PPM;;;;;;SV4705(LCS2)
25	QC	24	ICV03	IXBN1	BNAICV050PPM;;;;;;SV4677
26	QC	25	ICV01A	IXBN1	BNAICV050PPM;;;;;;SV4651(LCS1)
27	QC	26	ICV02A	IXBN1	BNAICV050PPM;;;;;;SV4754(LCS2)
28	QC	27	ICV01C	IXBN1	BNAICV050PPM;;;;;;SV4653(LCS1)
29	Sample	100	BNACCV	IXBN1	BNACCV050PPM;;;;;;SV4756
30	QC	28	MDLW1	IXBN1	MDLCHK1;;;;;;5UL
31	QC	29	MDLW2	IXBN1	MDLCHK2;;;;;;10UL
32	QC	30	MDLW3	IXBN1	MDLCHK3;;;;;;20UL
33	QC	31	MDLW4	IXBN1	MDLCHK4;;;;;;50UL
34	QC	32	MDLS1	IXBN1	MDLCHK1;;;;;;
35	QC	33	MDLS2	IXBN1	MDLCHK2;;;;;;
36	QC	34	MDLS3	IXBN1	MDLCHK3;;;;;;
37	QC	35	MDLS4	IXBN1	MDLCHK4;;;;;;

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\030309B1.S
      Comment: clp/8270/625
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\030309B1.b\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run        On A Barcode Mismatch
 (X) Full Method                (X) Inject Anyway
 ( ) Reprocessing Only          ( ) Don't Inject

-------------------------------------------------------------------------
Line                  Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample      DF0303B1;;;;;SV4242
    Vial: 1           ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: DF0303B1.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: ICal        BNACAL001PPM;;;;;;SV4703-2
    Vial: 2           ;1;;;1;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL001.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: ICal        BNACAL002PPM;;;;;;SV4703-3
    Vial: 3           ;1;;;2;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL002.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: ICal        BNACAL005PPM;;;;;;SV4703-4
    Vial: 4           ;1;;;3;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL005.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: ICal        BNACAL010PPM;;;;;;SV4703-5
    Vial: 5           ;1;;;4;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL010.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: ICal        BNACAL020PPM;;;;;;SV4703-6
    Vial: 6           ;1;;;5;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL020.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: ICal        BNACAL040PPM;;;;;;SV4703-7
    Vial: 7           ;1;;;7;;ppbna3.sub;4092
    Meth: IXBN1.M     Barcode:
    Data: CAL040.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: ICal        BNACAL050PPM;;;;;;SV4703-8
    Vial: 8           ;1;;;8;;ppbna3.sub;4052
    Meth: IXBN1.M     Barcode:

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 1
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     Data: CAL050.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9   Type: ICal          BNACAL060PPM;;;;;;SV4703-9
     Vial: 9             ;1;;;9;;ppbna3.sub;4092
     Meth: IXBN1.M       Barcode:
     Data: CAL060.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 10  Type: ICal          BNACAL080PPM;;;;;;SV4703-10
     Vial: 10            ;1;;;11;;ppbna3.sub;4092
     Meth: IXBN1.M       Barcode:
     Data: CAL080.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 11  Type: ICal          BNACAL100PPM;;;;;;SV4703-11
     Vial: 11            ;1;;;13;;ppbna3.sub;4092
     Meth: IXBN1.M       Barcode:
     Data: CAL100.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 12  Type: ICal          BNACAL001PPM;;;;;;SV4690A
     Vial: 12            ;1;;;1;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB001.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 13  Type: ICal          BNACAL002PPM;;;;;;SV4690B
     Vial: 13            ;1;;;2;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB002.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 14  Type: ICal          BNACAL005PPM;;;;;;SV4671-1
     Vial: 14            ;1;;;3;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB005.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 15  Type: ICal          BNACAL010PPM;;;;;;SV4671-2
     Vial: 15            ;1;;;4;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB010.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 16  Type: ICal          BNACAL020PPM;;;;;;SV4671-3
     Vial: 16            ;1;;;5;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB020.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 17  Type: ICal          BNACAL040PPM;;;;;;SV4671-5
     Vial: 17            ;1;;;7;;5comp.sub;4052
     Meth: IXBN1.M       Barcode:
     Data: CALB040.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 2
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    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18  Type: ICal          BNACAL050PPM;;;;;;SV4671-6
    Vial: 18            ;1;;;8;;5comp.sub;4052
    Meth: IXBN1.M       Barcode:
    Data: CALB050.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: ICal          BNACAL060PPM;;;;;;SV4671-7
    Vial: 19            ;1;;;9;;5comp.sub;4052
    Meth: IXBN1.M       Barcode:
    Data: CALB060.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: ICal          BNACAL080PPM;;;;;;SV4671-9
    Vial: 20            ;1;;;11;;5comp.sub;4052
    Meth: IXBN1.M       Barcode:
    Data: CALB080.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: Sample        DF0303B2;;;;;SV4755
    Vial: 1             ;;;;;;all.sub;
    Meth: DFTPPBN1.M    Barcode:
    Data: DF0303B2.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: ICal          BNACAL100PPM;;;;;;SV4671-10
    Vial: 21            ;1;;;13;;5comp.sub;4052
    Meth: IXBN1.M       Barcode:
    Data: CALB100.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: QC            BNAICV050PPM;;;;;;SV4704(LCS1)
    Vial: 22            ;3;;;;;ppbna.sub;4751
    Meth: IXBN1.M       Barcode:
    Data: ICV01.D       LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24  Type: QC            BNAICV050PPM;;;;;;SV4705(LCS2)
    Vial: 23            ;3;;;;;ppbna.sub;4751
    Meth: IXBN1.M       Barcode:
    Data: ICV02.D       LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25  Type: QC            BNAICV050PPM;;;;;;SV4677
    Vial: 24            ;3;;;;;ppbna.sub;
    Meth: IXBN1.M       Barcode:
    Data: ICV03.D       LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default
    Quant Report      :Default          Post-Quant Macro:Default
    CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
26  Type: QC            BNAICV050PPM;;;;;;SV4651(LCS1)
    Vial: 25            ;3;;;;;ppbna.sub;4751
    Meth: IXBN1.M       Barcode:
    Data: ICV01A.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default          Lib. Search Rep.:Default

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 3
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     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 27  Type: QC           BNAICV050PPM;;;;;;SV4754(LCS2)
     Vial: 26           ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M      Barcode:
     Data: ICV02A.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 28  Type: QC           BNAICV050PPM;;;;;;SV4653(LCS1)
     Vial: 27           ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M      Barcode:
     Data: ICV01C.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 29  Type: Sample       BNACCV050PPM;;;;;;SV4756
     Vial: 100          ;;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: BNACCV.D     Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 30  Type: QC           MDLCHK1;;;;;;5UL
     Vial: 28           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLW1.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 31  Type: QC           MDLCHK2;;;;;;10UL
     Vial: 29           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLW2.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 32  Type: QC           MDLCHK3;;;;;;20UL
     Vial: 30           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLW3.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 33  Type: QC           MDLCHK4;;;;;;50UL
     Vial: 31           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLW4.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 34  Type: QC           MDLCHK1;;;;;;
     Vial: 32           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLS1.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
 35  Type: QC           MDLCHK2;;;;;;
     Vial: 33           ;3;;;;;ppbna.sub;
     Meth: IXBN1.M      Barcode:
     Data: MDLS2.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 4
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    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
                      MDLCHK3;;;;;;
36  Type: QC          ;3;;;;;ppbna.sub;
    Vial: 34          Barcode:
    Meth: IXBN1.M     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Data: MDLS3.D    :Default           Lib. Search Rep.:Default
    Area% Report     :Default           Post-Quant Macro:Default
    Quant Report     :Default           CR Spreadsheet  :Default
    CR Database      :Default
-------------------------------------------------------------------------
                      MDLCHK4;;;;;;
37  Type: QC          ;3;;;;;ppbna.sub;
    Vial: 35          Barcode:
    Meth: IXBN1.M     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Data: MDLS4.D    :Default           Lib. Search Rep.:Default
    Area% Report     :Default           Post-Quant Macro:Default
    Quant Report     :Default           CR Spreadsheet  :Default
    CR Database      :Default
-------------------------------------------------------------------------
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Sequence Name: C:\HPCHEM\1\SEQUENCE\033109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\033109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7464

3/31/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPBN1	CCV050PPM;;;;;;SV4718
2	Sample	1	DF0331B1	DFTPPBN1	DF0331B1;;;;;SV4796 11:34, 3/31
3	CCal	2	PRIMER	IXBN1	CCV050PPM;;;;;;SV4797b
4	Sample	1	DF0331B1	DFTPPBN1	DF0331B1;;;;;SV4796
5	CCal	2	CCV050	IXBN1	CCV050PPM;;;;;;SV4797b
6	Sample	3	CCVAP9A	IXBN1	ap9A50PPM;;;;;;SV4800a
7	Sample	4	CCVAP9B	IXBN1	ap9B50PPM;;;;;;SV4800b
8	Sample	5	CCVAP9C	IXBN1	ap9C50PPM;;;;;;SV4800c
9	QC	6	S1BW0323	IXBN1	SBLK0323BW1;;1000;1000;;UG/L;23-MAR-2
10	QC	7	S1LW0323	IXBN1	SBLK0323BW1LCS;;1000;1000;;UG/L;23-MA
11	Sample	8	0325121	IXBN1	0903251-21;;1080;1000;;UG/L;23-MAR-20
12	Sample	9	0324501	IXBN1	0903245-01;;850;1000;;UG/L;23-MAR-200
13	Sample	10	0324601	IXBN1	0903246-01;;1000;1000;;UG/L;23-MAR-20
14	Sample	11	0324701	IXBN1	0903247-01;;1000;1000;;UG/L;23-MAR-20
15	QC	12	S2BS0320	IXSOX1	SBLK0320BS2;;15;1000;;UG/KG;20-MAR-20
16	QC	13	S2LS0320	IXSOX1	SBLK0320BS2LCS;;15;1000;;UG/KG;20-MAR
17	Sample	14	0326201	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200
18	Sample	15	0326205	IXSOX1	0903262-05;;15;1000;;UG/KG;20-MAR-200
19	Sample	16	0326207	IXSOX1	0903262-07;;15;1000;;UG/KG;20-MAR-200
20	Sample	17	0325115	IXSOX1	0903251-15;;15;1000;;UG/KG;20-MAR-200
21	Sample	18	0325901	IXBN1	0903259-01;;1080;1000;;UG/L;23-MAR-20
22	Sample	19	0325902	IXBN1	0903259-02;;1080;1000;;UG/L;23-MAR-20
23	Sample	20	0325903	IXBN1	0903259-03;;1080;1000;;UG/L;23-MAR-20
24	Sample	21	0325904	IXBN1	0903259-04;;1080;1000;;UG/L;23-MAR-20 23:24, 3/31
25	QC	22	0326201M	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200 Sort of fine
26	QC	23	0326201S	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200
27	Sample	625 24	0328002D	IXBN1	0903280-01;5;980;2000;;UG/L;23-MAR-20
28	Sample	100	BLANK	DFTPPBN1	CCV050PPM;;;;;;SV4718
29	Sample	2	PRIMER	IXBN1	CCV050PPM;;;;;;SV4797b
30	Sample	1	DF0331B2	DFTPPBN1	DF0331B2;;;;;SV4796 2:39, 4/1
31	Sample	2	CCV050E	IXBN1	CCV050PPM;;;;;;SV4797b
32	Sample	25	0326704	IXBN1	0903267-04;;1070;1000;;UG/L;23-MAR-20
33	Sample	26	0326501	IXBN1	0903265-01;;1020;1000;;UG/L;23-MAR-20
34	Sample	27	0327401	IXBN1	0903274-01;;1070;1000;;UG/L;23-MAR-20
35	Sample	28	0327402	IXBN1	0903274-02;;1080;1000;;UG/L;23-MAR-20
36	Sample	29	0327403	IXBN1	0903274-03;;1060;1000;;UG/L;23-MAR-20
37	Sample	30	0327404	IXBN1	0903274-04;;1065;1000;;UG/L;23-MAR-20
38	Sample	31	0329201	IXBN1	0903292-01;;1080;1000;;UG/L;23-MAR-20
39	Sample	32	0329202	IXBN1	0903292-02;;1080;1000;;UG/L;23-MAR-20
40	Sample	33	0329203	IXBN1	0903292-03;;1080;1000;;UG/L;23-MAR-20
41	Sample	34	0329204	IXBN1	0903292-04;;1080;1000;;UG/L;23-MAR-20
42	QC	35	0326704M	IXBN1	0903267-04;;1080;1000;;UG/L;23-MAR-20
43	QC	36	0326704S	IXBN1	0903267-04;;1070;1000;;UG/L;23-MAR-20 2:40, 4/1

Last Modified: Wed Apr 01 06:29:00 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\033109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\033109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7465

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: Sample	CCV050PPM;;;;;;SV4718	
	Vial: 100	;;;;;;ppbna.sub;4719	
	Meth: DFTPPBN1.M	Barcode:	
	Data: BLANK.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
2	Type: Sample	DF0331B1;;;;;SV4796	
	Vial: 1	;;;;;;all.sub;	
	Meth: DFTPPBN1.M	Barcode:	
	Data: DF0331B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
3	Type: CCal	CCV050PPM;;;;;SV4797b	
	Vial: 2	;;;;;;ppbna.sub;4794	
	Meth: IXBN1.M	Barcode:	
	Data: PRIMER.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
4	Type: Sample	DF0331B1;;;;;SV4796	
	Vial: 1	;;;;;;all.sub;	
	Meth: DFTPPBN1.M	Barcode:	
	Data: DF0331B1.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
5	Type: CCal	CCV050PPM;;;;;SV4797b	
	Vial: 2	;;;;;;ppbna.sub;4794	
	Meth: IXBN1.M	Barcode:	
	Data: CCV050.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
6	Type: Sample	ap9A50PPM;;;;;SV4800a	
	Vial: 3	;;;;;;app9a.sub;4794	
	Meth: IXBN1.M	Barcode:	
	Data: CCVAP9A.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
7	Type: Sample	ap9B50PPM;;;;;SV4800b	
	Vial: 4	;;;;;;app9b.sub;4794	
	Meth: IXBN1.M	Barcode:	
	Data: CCVAP9B.D	Samp Amt: 0	Multiplr: 1
	Area% Report :Default		Lib. Search Rep.:Default
	Quant Report :Default		Post-Quant Macro:Default
	CR Database :Default		CR Spreadsheet :Default
8	Type: Sample	ap9C50PPM;;;;;SV4800c	
	Vial: 5	;;;;;;app9c.sub;4794	
	Meth: IXBN1.M	Barcode:	

```
    Data: CCVAP9C.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: QC          SBLK0323BW1;;1000;1000;;UG/L;23-MAR-2009
    Vial: 6           ;3;BLANK;;;032309BW1;all.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: S1BW0323.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: QC          SBLK0323BW1LCS;;1000;1000;;UG/L;23-MAR-2009
    Vial: 7           ;3;LCS;;;032309BW1;all.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: S1LW0323.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample      0903251-21;;1080;1000;;UG/L;23-MAR-2009
    Vial: 8           tet.b03251;0;;;;032309BW1;all.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0325121.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      0903245-01;;850;1000;;UG/L;23-MAR-2009
    Vial: 9           ch2.b03245;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0324501.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample      0903246-01;;1000;1000;;UG/L;23-MAR-2009
    Vial: 10          ch2.b03246;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0324601.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample      0903247-01;;1000;1000;;UG/L;23-MAR-2009
    Vial: 11          ch2.b03247;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0324701.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: QC          SBLK0320BS2;;15;1000;;UG/KG;20-MAR-2009
    Vial: 12          ;3;BLANK;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: S2BS0320.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: QC          SBLK0320BS2LCS;;15;1000;;UG/KG;20-MAR-2009
    Vial: 13          ;3;LCS;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: S2LS0320.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      0903262-01;;15;1000;;UG/KG;20-MAR-2009
    Vial: 14          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326201.D   Samp Amt: 0          Multiplr: 1
```

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    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0903262-05;;15;1000;;UG/KG;20-MAR-2009
    Vial: 15          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326205.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0903262-07;;15;1000;;UG/KG;20-MAR-2009
    Vial: 16          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326207.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0903251-15;;15;1000;;UG/KG;20-MAR-2009
    Vial: 17          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325115.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      0903259-01;;1080;1000;;UG/L;23-MAR-2009
    Vial: 18          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0325901.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample      0903259-02;;1080;1000;;UG/L;23-MAR-2009
    Vial: 19          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0325902.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample      0903259-03;;1080;1000;;UG/L;23-MAR-2009
    Vial: 20          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0325903.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      0903259-04;;1080;1000;;UG/L;23-MAR-2009
    Vial: 21          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0325904.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: QC          0903262-01;;15;1000;;UG/KG;20-MAR-2009
    Vial: 22          tet.b03262;3;MS;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326201M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: QC          0903262-01;;15;1000;;UG/KG;20-MAR-2009
    Vial: 23          tet.b03262;3;MSD;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326201S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
```

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    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
27  Type: Sample       0903280-01;5;980;2000;;UG/L;23-MAR-2009
    Vial: 24           ;3;LCS;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M      Barcode:
    Data: 0328002D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
28  Type: Sample       CCV050PPM;;;;;;SV4718
    Vial: 100          ;;;;;;ppbna.sub;4719
    Meth: DFTPPBN1.M   Barcode:
    Data: BLANK.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
29  Type: Sample       CCV050PPM;;;;;;SV4797b
    Vial: 2            ;;;;;;ppbna.sub;4794
    Meth: IXBN1.M      Barcode:
    Data: PRIMER.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
30  Type: Sample       DF0331B2;;;;;SV4796
    Vial: 1            ;;;;;;all.sub;
    Meth: DFTPPBN1.M   Barcode:
    Data: DF0331B2.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
31  Type: Sample       CCV050PPM;;;;;;SV4797b
    Vial: 2            ;;;;;;ppbna.sub;4794
    Meth: IXBN1.M      Barcode:
    Data: CCV050E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
32  Type: Sample       0903267-04;;1070;1000;;UG/L;23-MAR-2009
    Vial: 25           sha.b03267;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M      Barcode:
    Data: 0326704.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
33  Type: Sample       0903265-01;;1020;1000;;UG/L;23-MAR-2009
    Vial: 26           sha.b03265;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M      Barcode:
    Data: 0326501.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
34  Type: Sample       0903274-01;;1070;1000;;UG/L;23-MAR-2009
    Vial: 27           nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M      Barcode:
    Data: 0327401.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
35  Type: Sample       0903274-02;;1080;1000;;UG/L;23-MAR-2009
    Vial: 28           nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M      Barcode:
    Data: 0327402.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
```

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```
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
36  Type: Sample      0903274-03;;1060;1000;;UG/L;23-MAR-2009
    Vial: 29          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327403.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
37  Type: Sample      0903274-04;;1065;1000;;UG/L;23-MAR-2009
    Vial: 30          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327404.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
38  Type: Sample      0903292-01;;1080;1000;;UG/L;23-MAR-2009
    Vial: 31          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329201.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
39  Type: Sample      0903292-02;;1080;1000;;UG/L;23-MAR-2009
    Vial: 32          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329202.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
40  Type: Sample      0903292-03;;1080;1000;;UG/L;23-MAR-2009
    Vial: 33          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329203.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
41  Type: Sample      0903292-04;;1080;1000;;UG/L;23-MAR-2009
    Vial: 34          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329204.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
42  Type: QC          0903267-04;;1080;1000;;UG/L;23-MAR-2009
    Vial: 35          sha.b03267;3;MS;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326704M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
43  Type: QC          0903267-04;;1070;1000;;UG/L;23-MAR-2009
    Vial: 36          sha.b03267;3;MSD;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326704S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

7469

Sequence Name: C:\HPCHEM\1\SEQUENCE\040109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7470

MH 1/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	DF0401B1	DFTPPBN1	DF0401B1;;;;;SV4796
2	CCal	2	CCV050	IXSOX1	CCV050PPM;;;;;;SV4797b
3	Sample	3	CCVAP9A	IXSOX1	ap9A50PPM;;;;;;SV4800a
4	Sample	4	CCVAP9B	IXSOX1	ap9B50PPM;;;;;;SV4800b
5	Sample	5	CCVAP9C	IXSOX1	ap9C50PPM;;;;;;SV4800c
6	Sample	6	0325101	IXSOX1	0903251-01;;15;1000;;UG/KG;20-MAR-200
7	Sample	7	0325103	IXSOX1	0903251-03;;15;1000;;UG/KG;20-MAR-200
8	Sample	8	0325105	IXSOX1	0903251-05;;15;1000;;UG/KG;20-MAR-200
9	Sample	9	0325107	IXSOX1	0903251-07;;15;1000;;UG/KG;20-MAR-200
10	Sample	10	0325109	IXSOX1	0903251-09;;15;1000;;UG/KG;20-MAR-200
11	Sample	11	0325111	IXSOX1	0903251-11;;15;1000;;UG/KG;20-MAR-200
12	Sample	12	0325117	IXSOX1	0903251-17;;15;1000;;UG/KG;20-MAR-200
13	Sample	13	0325119	IXSOX1	0903251-19;;15;1000;;UG/KG;20-MAR-200
14	Sample	14	0326203	IXSOX1	0903262-03;;15;1000;;UG/KG;20-MAR-200
15	Sample	15	0326209	IXSOX1	0903262-09;;15;1000;;UG/KG;20-MAR-200
16	Sample	16	0326211	IXSOX1	0903262-11;;15;1000;;UG/KG;20-MAR-200
17	Sample	17	0326213	IXSOX1	0903262-13;;15;1000;;UG/KG;20-MAR-200
18	Sample	18	0326215	IXSOX1	0903262-15;;15;1000;;UG/KG;20-MAR-200
19	Sample	19	0326217	IXSOX1	0903262-17;;15;1000;;UG/KG;20-MAR-200
20	Sample	20	0326219	IXSOX1	0903262-19;;15;1000;;UG/KG;20-MAR-200
21	Sample	21	0325113	IXSOX1	0903251-13;;15;1000;;UG/KG;20-MAR-200
22	Sample	100	BLANK	DFTPPBN1	DF0401B2;;;;;SV4796
23	Sample	2	PRIMER	IXSOX1	CCV050PPM;;;;;;SV4797b
24	Sample	1	DF0401B2	DFTPPBN1	DF0401B2;;;;;SV4796
25	Sample	2	CCV050E	IXSOX1	CCV050PPM;;;;;;SV4797b
26	Sample	3	CVAP9AE	IXSOX1	ap9A50PPM;;;;;;SV4800a
27	Sample	4	CVAP9BE	IXSOX1	ap9B50PPM;;;;;;SV4800b
28	Sample	5	CVAP9CE	IXSOX1	ap9C50PPM;;;;;;SV4800c
29	Sample	22	0326219D	IXSOX1	0903262-19;5;15;1000;;UG/KG;20-MAR-20
30	Sample	23	0325113D	IXSOX1	0903251-13;5;15;1000;;UG/KG;20-MAR-20

13:28, 4/1

all OK

1:34, 4/2

NR

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\040109B1.S
      Comment: 8270/625
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\040109B1.b\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: Sample        DF0401B1;;;;;SV4796
    Vial: 1             ;;;;;;all.sub;
    Meth: DFTPPBN1.M    Barcode:
    Data: DF0401B1.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
2   Type: CCal          CCV050PPM;;;;;;SV4797b
    Vial: 2             ;;;;;;ppbna.sub;4794
    Meth: IXSOX1.M      Barcode:
    Data: CCV050.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
3   Type: Sample        ap9A50PPM;;;;;;SV4800a
    Vial: 3             ;;;;;;app9a.sub;4794
    Meth: IXSOX1.M      Barcode:
    Data: CCVAP9A.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
4   Type: Sample        ap9B50PPM;;;;;;SV4800b
    Vial: 4             ;;;;;;app9b.sub;4794
    Meth: IXSOX1.M      Barcode:
    Data: CCVAP9B.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
5   Type: Sample        ap9C50PPM;;;;;;SV4800c
    Vial: 5             ;;;;;;app9c.sub;4794
    Meth: IXSOX1.M      Barcode:
    Data: CCVAP9C.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
6   Type: Sample        0903251-01;;15;1000;;UG/KG;20-MAR-2009
    Vial: 6             tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M      Barcode:
    Data: 0325101.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
7   Type: Sample        0903251-03;;15;1000;;UG/KG;20-MAR-2009
    Vial: 7             tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M      Barcode:
    Data: 0325103.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
8   Type: Sample        0903251-05;;15;1000;;UG/KG;20-MAR-2009
    Vial: 8             tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M      Barcode:

Sequence: 040109B1.S   Last Modified: Wed Apr 01 14:17:55 2009   Page: 1
```

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    Data: 0325105.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample      0903251-07;;15;1000;;UG/KG;20-MAR-2009
    Vial: 9           tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325107.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: Sample      0903251-09;;15;1000;;UG/KG;20-MAR-2009
    Vial: 10          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325109.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: Sample      0903251-11;;15;1000;;UG/KG;20-MAR-2009
    Vial: 11          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325111.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      0903251-17;;15;1000;;UG/KG;20-MAR-2009
    Vial: 12          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325117.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample      0903251-19;;15;1000;;UG/KG;20-MAR-2009
    Vial: 13          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325119.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample      0903262-03;;15;1000;;UG/KG;20-MAR-2009
    Vial: 14          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326203.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      0903262-09;;15;1000;;UG/KG;20-MAR-2009
    Vial: 15          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326209.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample      0903262-11;;15;1000;;UG/KG;20-MAR-2009
    Vial: 16          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326211.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      0903262-13;;15;1000;;UG/KG;20-MAR-2009
    Vial: 17          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326213.D   Samp Amt: 0          Multiplr: 1
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    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: Sample      0903262-15;;15;1000;;UG/KG;20-MAR-2009
    Vial: 18          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326215.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: Sample      0903262-17;;15;1000;;UG/KG;20-MAR-2009
    Vial: 19          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326217.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: Sample      0903262-19;;15;1000;;UG/KG;20-MAR-2009
    Vial: 20          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326219.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      0903251-13;;15;1000;;UG/KG;20-MAR-2009
    Vial: 21          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325113.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample      DF0401B2;;;;;SV4796
    Vial: 100         ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: BLANK.D     Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: PRIMER.D    Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      DF0401B2;;;;;SV4796
    Vial: 1           ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: DF0401B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      ap9A50PPM;;;;;;SV4800a
    Vial: 3           ;;;;;;app9a.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: CVAP9AE.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
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    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
27  Type: Sample       ap9B50PPM;;;;;;SV4800b
    Vial: 4            ;;;;;;app9b.sub;4794
    Meth: IXSOX1.M     Barcode:
    Data: CVAP9BE.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
28  Type: Sample       ap9C50PPM;;;;;;SV4800c
    Vial: 5            ;;;;;;app9c.sub;4794
    Meth: IXSOX1.M     Barcode:
    Data: CVAP9CE.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
29  Type: Sample       0903262-19;5;15;1000;;UG/KG;20-MAR-2009
    Vial: 22           tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M     Barcode:
    Data: 0326219D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
30  Type: Sample       0903251-13;5;15;1000;;UG/KG;20-MAR-2009
    Vial: 23           tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M     Barcode:
    Data: 0325113D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
```

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS04-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 005F0501

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 13:24

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	26	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS05-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 006F0601

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 13:51

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	18	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS06-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 007F0701

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 14:18

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	21	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS07-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 008F0801

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 14:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	17	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS08-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 009F0901

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/17/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 15:11

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	18	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS09-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 010F1001

% Moisture: 5 decanted: (Y/N) N Date Sampled: 03/17/09 11:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 15:38

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	19	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS10-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 011F1101

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/17/09 12:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 16:05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	18	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS11-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 012F1201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/17/09 12:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 16:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	16	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS12-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 013F1301

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 12:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 16:58

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	20	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS13-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: 0903251-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 014F1401

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/17/09 13:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 17:25

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	18	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF-RINSATE 2

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) WATER Lab Sample ID: 0903251-21

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 021F2101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 03/17/09 11:42

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/24/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 18:05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47		U

FORM I PRO

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Column(1): ZB-5MS ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	FBP %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0324	104	134					0
02	FW1BLK0324LC	101	130					0
03	FW1BLK0324LC	108	137					0
04	MPT-AOCF-RIN	86	114					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	EL QC LIMITS	SPIKE CONC (mg/L)
S1 = Ortho-Terphenyl	(30-140)	0.050
S2 (FBP) = 2-Fluorobiphenyl	(50-150)	0.050

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Column(1): ZB-5MS ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	FBP %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0327	83	96					0
02	FS1BLK0327LC	85	104					0
03	MPT-AOCF-SS0	73	95					0
04	MPT-AOCF-SS0	80	104					0
05	MPT-AOCF-SS0	78	103					0
06	MPT-AOCF-SS0	92	119					0
07	MPT-AOCF-SS0	82	106					0
08	MPT-AOCF-SS0	64	84					0
09	MPT-AOCF-SS1	72	92					0
10	MPT-AOCF-SS1	83	107					0
11	MPT-AOCF-SS1	87	109					0
12	MPT-AOCF-SS1	88	108					0
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	EL QC LIMITS	SPIKE CONC (mg/Kg)
S1 = Ortho-Terphenyl	(45-135)	3.3
S2 (FBP) = 2-Fluorobiphenyl	(50-150)	3.3

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix Spike - Client Sample No.: FW1BLK0324

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.0000	2.646	83	55-118

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	3.200	2.864	90	8	30	55-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix Spike - Client Sample No.: FS1BLK0327

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	213.3	0.0000	141.4	66	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0324

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Lab Sample ID: FW1BLK0324 Lab File ID: 018F1801

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 03/24/09

Date Analyzed (1): 04/02/09 Date Analyzed (2):

Time Analyzed (1): 1645 Time Analyzed (2):

Instrument ID (1): GCFID2 Instrument ID (2):

Column (1): ZB-5MS ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0324LC	FW1BLK0324LCS	04/02/09	
02	FW1BLK0324LC	FW1BLK0324LCSD	04/02/09	
03	MPT-AOCF-RIN	0903251-21	04/02/09	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0324

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0324

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 018F1801

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:03/24/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 16:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.50		U

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0327

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Lab Sample ID: FS1BLK0327 Lab File ID: 003F0301

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SOXH

Sulfur Cleanup (Y/N) N Date Extracted: 03/27/09

Date Analyzed (1): 04/01/09 Date Analyzed (2):

Time Analyzed (1): 1231 Time Analyzed (2):

Instrument ID (1): GCFID2 Instrument ID (2):

Column (1): ZB-5MS ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0327LC	FS1BLK0327LCS	04/01/09	
02	MPT-AOCF-SS0	0903251-01	04/01/09	
03	MPT-AOCF-SS0	0903251-03	04/01/09	
04	MPT-AOCF-SS0	0903251-05	04/01/09	
05	MPT-AOCF-SS0	0903251-07	04/01/09	
06	MPT-AOCF-SS0	0903251-09	04/01/09	
07	MPT-AOCF-SS0	0903251-11	04/01/09	
08	MPT-AOCF-SS1	0903251-13	04/01/09	
09	MPT-AOCF-SS1	0903251-15	04/01/09	
10	MPT-AOCF-SS1	0903251-17	04/01/09	
11	MPT-AOCF-SS1	0903251-19	04/01/09	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0327

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0327

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 003F0301

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/01/09 12:31

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	11	33		U

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

LAB FILE ID: RF8500: 004R0201 RF5950: 005R0201 RF4250: 006R0201
RF2550: 007R0201 RF850: 008R0201

COMPOUND	RF8500	RF5950	RF4250	RF2550	RF850
Petroleum Range	2182.362	2370.860	2362.004	2870.301	2206.867
Ortho-Terphenyl	2789.960	2824.600	2900.240	3038.960	2830.440
2-Fluorobiphenyl	1861.480	2021.320	2014.520	2153.800	1947.240

3.12.09

3/18/09

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ @ 3.12.09 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

RF85: 009R0201

COMPOUND	RF85	CURVE	COEFFICENT A1	%RSD OR R^2
Petroleum Range	2710.000	AVRG	2450.39900	11.4
Ortho-Terphenyl	2980.600	AVRG	2894.13333	3.4
2-Fluorobiphenyl	1956.280	AVRG	1992.44000	4.9

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 3.12.09 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

LAB FILE ID: RT1: 004R0201 RT2: 005R0201 RT3: 006R0201
RT4: 007R0201 RT5: 008R0201

COMPOUND	RT1	RT2	RT3	RT4	RT5
Petroleum Range	9.575	9.575	9.575	9.575	9.575
Ortho-Terphenyl	8.917	8.917	8.913	8.913	8.913
2-Fluorobiphenyl	6.210	6.210	6.210	6.210	6.213

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 03/11/09 (D) 3.12.09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

RT6: 009R0201

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Petroleum Range	9.575	9.575	2.213	16.937
Ortho-Terphenyl	8.913	8.914	8.773	9.053
2-Fluorobiphenyl	6.213	6.211	6.163	6.263

Empirical Laboratories, LLC

ICV
~~CONTINUING CALIBRATION~~ COMPOUNDS

JJ 3.12.09

Instrument ID: gcfid2.i Injection Date: 11-MAR-2009 00:14
Lab File ID: 024F2101.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO ICV 7364 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\031009.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	2450	2028	0.010	-17.2	25.0

DLM 3/15/09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 01-APR-2009 11:54
Lab File ID: 002F0201.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0057 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040109.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	2450	1920	0.010	-21.7	25.0
$	2 2-Fluorobiphenyl	1992	2312	0.010	16.0	25.0
$	3 Ortho-Terphenyl	2894	2739	0.010	-5.4	25.0

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CONTINUING CALIBRATION COMPOUNDS

JLB 4.3.09

Instrument ID: gcfid2.i Injection Date: 01-APR-2009 17:52
Lab File ID: 015F1501.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0057 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040109.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	2450	2030	0.010	-17.2	25.0
$	2 2-Fluorobiphenyl	1992	2426	0.010	21.8	25.0
$	3 Ortho-Terphenyl	2894	2807	0.010	-3.0	25.0

BM 040609

JLS 4.3.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 02-APR-2009 16:18
Lab File ID: 017F1701.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0069 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040209.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	2450	2356	0.010	-3.9	25.0
$ 2 2-Fluorobiphenyl	1992	2409	0.010	20.9	25.0
$ 3 Ortho-Terphenyl	2894	3163	0.010	9.3	25.0

BM 040609

JLB 4.3.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 02-APR-2009 18:31
Lab File ID: 022F2201.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0057 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040209.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	2450	2602	0.010	6.2	25.0
$	2 2-Fluorobiphenyl	1992	2442	0.010	22.6	25.0
$	3 Ortho-Terphenyl	2894	3592	0.010	24.1	25.0

KM 040609

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 03/10/09 - 03/11/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.91 S2 : 6.21					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 8500 08J	03/10/09	2134	8.92	6.21
02		PRO 5950 08J	03/10/09	2201	8.92	6.21
03		PRO 4250 08J	03/10/09	2227	8.91	6.21
04		PRO 2550 08J	03/10/09	2254	8.91	6.21
05		PRO 850 08J0	03/11/09	2321	8.91	6.21
06		PRO 85 08J01	03/11/09	2348	8.91	6.21
07		PRO ICV 7364	03/11/09	0014		
08						
09						
10						
11						
12						
13						
14						
15						
16						
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18						
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28						
29						
30						
31						
32						

	QC LIMITS
S1 = Ortho-Terphenyl	(+/- 0.14 MINUTES)
S2 = 2-Fluorobiphenyl	(+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 04/01/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.56 S2 : 5.88					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 4250 9A0	04/01/09	1154	8.56	5.88
02	FS1BLK0327	FS1BLK0327	04/01/09	1231	8.56	5.88
03	FS1BLK0327LC	FS1BLK0327LC	04/01/09	1258	8.56	5.88
04	MPT-AOCF-SS0	0903251-01	04/01/09	1324	8.56	5.88
05	MPT-AOCF-SS0	0903251-03	04/01/09	1351	8.56	5.88
06	MPT-AOCF-SS0	0903251-05	04/01/09	1418	8.56	5.88
07	MPT-AOCF-SS0	0903251-07	04/01/09	1445	8.56	5.88
08	MPT-AOCF-SS0	0903251-09	04/01/09	1511	8.56	5.88
09	MPT-AOCF-SS0	0903251-11	04/01/09	1538	8.55	5.88
10	MPT-AOCF-SS1	0903251-13	04/01/09	1605	8.55	5.88
11	MPT-AOCF-SS1	0903251-15	04/01/09	1632	8.56	5.88
12	MPT-AOCF-SS1	0903251-17	04/01/09	1658	8.56	5.88
13	MPT-AOCF-SS1	0903251-19	04/01/09	1725	8.56	5.88
14		PRO 4250 9A0	04/01/09	1752	8.56	5.88
15						
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17						
18						
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21						
22						
23						
24						
25						
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27						
28						
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30						
31						
32						

		QC LIMITS
S1	= Ortho-Terphenyl	(+/- 0.14 MINUTES)
S2	= 2-Fluorobiphenyl	(+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03251

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 04/02/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

		SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.57 S2 : 5.89					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 4250 9A0	04/02/09	1618	8.56	5.88
02	FW1BLK0324	FW1BLK0324	04/02/09	1645	8.56	5.88
03	FW1BLK0324LC	FW1BLK0324LC	04/02/09	1712	8.56	5.88
04	FW1BLK0324LC	FW1BLK0324LC	04/02/09	1738	8.56	5.88
05	MPT-AOCF-RIN	0903251-21	04/02/09	1805	8.56	5.88
06		PRO 4250 9A0	04/02/09	1831	8.56	5.88
07						
08						
09						
10						
11						
12						
13						
14						
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19						
20						
21						
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26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = 2-Fluorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
03251-21	AF 10:00 3/24/09			FLPRO
03253-1-4	↓	14:20 AF 3/24/09		PCB
03297-01-02	1 9:00 KBG 3/24/09	10:15 KBG 3/24/09	From log-in	Anions
03161-01-11, 14 sol. 03164-02, 04, 07	KH 3/24/09 10:20	KH 3/24/09 12:35		metals
10 CSol, 03123-10-11 sol,				
03159-02-03, 05-12 03186-01-08 sol.				
03227-01-04 sol	↓	↓		↓
03224-01, 02 03255-01, 02	10:25 KBG 3/24/09	—	used all	Sulfide
03261-01-07 03283-01-07	↓	—	↓	↓
3149-01-04 3253-01-04	JG 3/24/09 11:45	JG 3/24/09 19:45		COD
3259-01-04 3274-01-04	JG 3/24/09 11:48	JG 3/24/09 19:30		TDS
03173-01-04 03224-01-02	KH 3/24/09 12:40	KH 3/24/09 1:16		metals
03227-01-07, 10	↓	↓		↓
3136-11 3144-01	VM 3-24-09 1325			VOA+G
3145-01 3146-01	↓			↓
3149-05 3168-01	↓			↓
03152-01-02 03153-01 03154-01-02 03155-01-02 03156-02	KH 3/24/09 15:15	RF 3/24/09 4:00		metals
03157-01 03178-02	↓	↓		↓
3403113-01 0903170-04 0403257-01	JG 3/24/09 16:13	JG 3/24/09 20:44		NH_3

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
~~KMV~~ 03288-1-20	KMV 3/24/09 14:30	KMV 3/24/09 15:10		Exp
03281-01 03285-01→05 03288-01→20	14:45 KBG 3/24/09	15:30 KBG 3/24/09		% Solids
03290-02,03 03293-01→03	↓	↓		↓
0903214 28-32 0963223 01-03	JC 3/24/09 15:05	JC 3/24/09 17:29		TCLP
0903281-01	↓	↓		↓
0903188-18	AF 3/24/09 15:30	AF 3/24/09 15:45		Herb
0903281-01	KBG 09:20 3/25/09	KBG 09:30 3/25/09		React S.
03285-01-05; 03293-01-3; 03301-1-2	KMV 3/25/09 10:20			Pest
03282-1-4; 03310-1-6; 03122-01-03	↓			Pest
3290-02-03 3293-01-03	RF 3/25/09 12:42	RF 3/25/09 2:15		
3301-01-02				
3290 (2-3)	3-25-09 2:45pm	3-25-09 3:20pm		VOA
0903281	JC 3/25/09 15:54	JC 3/25/09 16:00		TCLP
3281-01	3/25/09 17:24 TAT	3/25/09 12:50 TAT		Flashpts
03303-4-3 03301-1-2 03312-1-4	AF 3/25/09 18:20	AF 3/25/09 18:32		Exp
03304-3-4	YMS 3/26/09 08:10	KBG 3/26/09 12:15		DRO
03311-1-2 03312-1-4	YMS 3/26/09 08:10			Pest/PCB
03301-01,02 03304-01→04	KBG 11:40 3/26/09			% Solids
03311-01,02 03312-01→04	↓	↓		↓
03251-1,3,5,7,9,11,13,15,17,19 03262-1,3,5,7,9,11,13,15,17,19	YMS 12:00 3/26/09	YMS 3/26/09 14:35		FL Pro

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #'s	Location	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reasons for Inserting/Removal: Screening/Cleanup	Re-Analysis	Arrest	Dilution	Transferred to Inserted in Project	Inserted Inserted Completed
3152:01,02, 3153:01 3154:01,02, 3155:01-02	BKD	1200p WL 3/23/09	11:30 WL 3/23/09			X			
3156:01-02, 3157:01 3166:03-12, 3178:02		12:00p WL 3/23/09	11:30a WL 3/23/09			X			
3185:13. 3186:01-05		↓	↓			X			
3123:10-11, 3141:01 3140:01-04		12:00 WL 3/23/09	11:00a WL 3/23/09			X			
3159:02-12 3160:01-02		↓	↓			X			
3250-11 3250.53	BKD	L.M. 3/23/09 2:15pm	L.M. 3/23/09 2:00pm		✓		X		
3050-20; 3078-1-2 3135-2; 3162-1; 3177-1-2 3188-8; 3200-1	HKBS	L.M. 3/23/09 2:30pm	L.M. 2:00pm 3/23/09			X			
3251-1,3,5,7,9,11,13,15, 17,19; 3262-1,3,5,7,9,11, 13,15,17,19	PRO	L.M. 3/23/09 5:00 pm	L.M. 3/23/09 4:00pm			X			
3250.55-61	DRO	L.M. 3/23/09 4:00pm	↓			X			X
3245-01 3259-1-4 3280-01 3246-01 3265-01 3292-1-4 3247-01 3267-04 3251-21 3274-1-4	B.NA	GL 3/23/09 4:20pm							X
03245-6-7, 03286-1-8 03246-1-2, 03268-1-8	EXP	AF 3123109 17:00							
03284-1-4; 03282-1; 03284-1-12	PATH	KMV 3/23/09 17:46							X
03286-6-9 03289-1-4 03296-2-8	Pest	YMS 3/24/09 10:55							X
03253-1-4	PCB BNA	KMV 3/24/09 15:15							X
03251	PIO PRO	↓							X

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #'s	Fraction	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reasons for Inserting/Removal: Screening Criteria	Re-Analysis	Analysis	Dilution	Extraction Interruption	Extract Inserted Completed
3313-2-10	pest	3:05 GI 3/26/09							X
03311-01,2,03312-01-04	Post	KMV 3/26/09 15:40							X
03304-03,04	DRO	↓							X
3236:01 C. 3219-01	pest	4:00 WL 3/26/09	3:20 WL 3/26/09						X
3234:01-02 C. 3263:01-02	↓	↓	↓						X
3188:06-07 3201:01-02	PCB	2:05 WL Acid 3/27/09	1:30 WL Acid 3/27/09						X
03298-3 03301-1-2 03312-1-4	PCB	AF 14:37 3/27/09							
3188-1,20 3140-1-4 3039-1 3065-1 3062-3 3039-1,2,3,4	EXPL	↓	M.M. 3/27/09 12:00 PM			X			
3043-1-3 3082-1-3 3093-4,5 3082-3 3067-8,15,17 3081-1,2-11	↓		↓			X			
3205-7-9 3158-1-4 3208 4,5 3187-2-7 3221-2-35 3188-20 3207-1	↓					X			
3290-2-3	BNA	AF 17:00 3/27/09							X
03251-1 3,5,7,9,11,13,15 17,19 03262-1-19 odd	FLPRO	↓							X
03215-1	PCB		AF 17:00 3/27/09			X			
03326-4 5,7-21	PAH	AF 17:00 3/27/09							X
03325-1-6 03334-2-10	EXP	↓							X

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #	Method	Time/Date/Initials		Reasons for Inserting/Removal					
		Inserted	Removed	Screening/ Cleanup	Re-analysis	Aliquots	Dilution	Thawed/ Inserted in Process	Extract Inserted/ Completed
3215-01, 3311:01 3188-07	PCB	3/31/09 WL 5:20	3/31/09 WL 5:00 3/31/09		X				
3251-1,3,5,7,9,11,13, 15,17,19	FL PRO	H.M. 3/31/09 5:30pm	H.M. 3/31/09 5:00pm			X			
3251-1,3,5,7,9,11,13 17,19,	BNA	5:45 4/1/09 M	6:10 4/1/09 M			✓			
3262-3,9,11,13,15, 17,19	↓	↓ ↓ ↓	↓			✓			
03332-01-05	EXP	KMV 4/1/09 10:13							X
03360-911; 03365-02-08	EXP	KMV 4/1/09 14:45							X
3188-18, 08 3281-1	Herb	H.M. 4/1/09 5:15 pm	H.M. 4/1/09 5:00pm		X				
3262-1,3,5,7,9,11,13 15,17,19	FL PRO	H.M. 4/2/09 8:40AM	H.M. 4/2/09 8:30AM			X			
3251-21	↓	↓	↓			X			
03288-1-20	DRO		AF 41209 10:52 taken to analyst			X			
3052-9 3052-12,13 ~~3188-1; 320~~	EXP		H.M. 12:00pm 4/2/09			X			
3188-1; 3205-7-9 3208-2-6; 3221-2-4 3211-1-5,7	EXP	H.M. 4/2/09 12:30 pm							
3286-9 3296-2,-8 3302-2-8	EXP	H.M. 4/2/09 2:00pm	H.M. 1:30pm 4/2/09			X			
~~D~~3309-1 3310-1-5 3313-2-10	↓	↓	↓			↓			
03345-1	BNA	AF 41209 15:00							Y

EMLB

323

microwave

Fraction: EPH / PRO / DRO Matrix: Water / Soil Logbook # EX089 Supervisor Af 4/1/09

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
1	TetraTech	0903251-01	9/26/09	KMV	NA	15.0	2.0	1.0	KMV	NA	NA	PR15	NA	NA	AF	086197	N/A						re-extract.!	1
2		-03	3/27/09					090086		NA	NA	U7												2
3		-05	9:50							NA	NA	P39												3
4		-07								NA	NA	G25												4
5		-09								NA	NA	SL2												5
6		-11								NA	NA	PR9												6
7		-13								NA	NA	U17												7
8		-15								NA	NA	U3												8
9		-17								NA	NA	PR7												9
10		-19								NA	NA	PR1												10
11		0903262-01								NA	NA	P122												11
12		-03								NA	NA	P1												12
13		-05								NA	NA	G11												13
14		-07								NA	NA	R48												14
15		-09								NA	NA	R31												15
16		-11								NA	NA	R40												16
17		-13								NA	NA	R30												17
18		-15								NA	NA	R36												18
19		-17								NA	NA	P13												19
20		-19								NA	NA	R15												20
	MB	1-20	SAS	SAS	NA	15.0	2.0	SAS	SAS	—	—	PR8	↑	↑	PRB/	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCS	↓	SAS	SAS				SAS	SAS	1.0	KMV	P10	NA	NA	P10	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MS	0903262-01	SAS	SAS				SAS	SAS	090086		R22			R22	SAS	SAS	SAS	SAS	SAS	SAS	SAS	GH,G	
	MSD	↓	SAS	SAS	↓	↓	↓	SAS	SAS	↓	↓	P133	↓	↓	P133	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

Note: All volumes are in milliliters and weights are in grams.

EMPIRICAL LABORATORIES

Fraction: EPH / PRO / DRO Matrix: Water / Soil Logbook # EX085 Supervisor AF 4/1/09

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
1	TetraTech	090355-21	3/24/09	KMW	2	1060	2.0	~~2.0~~ 0.2	KMW	NA	NA	U11	NA	NA	KMW	DB060917	N14						F	1
2			9C23023					0.2		NA	NA													2
3			11:30					09C0023		NA	NA													3
4										NA	NA													4
5										NA	NA													5
6										NA	NA													6
7										NA	NA													7
8										NA	NA													8
9										NA	NA													9
10										NA	NA													10
11										NA	NA													11
12										NA	NA													12
13										NA	NA													13
14										NA	NA													14
15										NA	NA													15
16										NA	NA													16
17										NA	NA													17
18										NA	NA													18
19										NA	NA													19
20										NA	NA													20
	MB	↓	SAS	SAS	2	1000	20	SAS	SAS	—	—	U17	NA	NA	KMW	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCS		SAS	SAS	↓	↓	↓	SAS	SAS	0.2	KMW	U10				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCSD		SAS	SAS				SAS	SAS	09A0062	↓	912	↓	↓	↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

Note: All volumes are in milliliters and weights are in grams.

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 4250 08J0128				
3	Vial 3	DRO 1000 08K0087				
4	Vial 4	DRO 5000 08K0078				
5	Vial 5	DRO 2500 08K0079				
6	Vial 6	DRO 1000 08K0079				
7	Vial 7	DRO 500 08K0095				
8	Vial 8	DRO 250 08L0156				
9	Vial 9	DRO100 08L0156				
10	Vial 10	DRO ICV 08K0094				
11	Vial 11	DRO 1000 08K0087				
12	Vial 12	DW1BLK0310				
13	Vial 13	DW1BLK0310LCS				
14	Vial 14	DW1BLK0310LCSD				
15	Vial 15	0903111-01				
16	Vial 16	0903111-02				
17	Vial 17	DRO 1000 08K0083				
18	Vial 18	PRO 8500 08J0126				
19	Vial 19	PRO 5950 08J0127				
20	Vial 20	PRO 4250 08J0128				
21	Vial 21	PRO 2550 08J0129				
22	Vial 22	PRO 850 08J0131				
23	Vial 23	PRO 85 08J0136				
24	Vial 24	PRO ICV 7364				
25	Vial 25	PW1BLK0306				
26	Vial 26	MDL01;H2O				
27	Vial 27	MDL02;H2O				
28	Vial 28	PRO 4250 09A0066				
29	Vial 29	PW1BLK0309				
30	Vial 30	PW1BLK0309LCS				
31	Vial 31	PW1BLK0309LCSD				
32	Vial 32	0903037-02				
33	Vial 33	0903037-03				
34	Vial 34	0903055-02				
35	Vial 35	0903055-03				
36	Vial 36	0903055-04				
37	Vial 37	0903055-05				
38	Vial 38	0903075-02				
39	Vial 39	0903075-03				
40	Vial 40	0903075-04				
41	Vial 41	PRO 4250 09A0065				

311·1-2 X1

MDLV H_2O 1-2 X1

3037·2-3; 3055·2-3,4,5; 3075·2,3,4 X1

flow
Mona
3/11/09

Sequence Table (Back Injector):

No entries — empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 4250 9A0069				
3	Vial 3	FS1BLK0327				
4	Vial 4	FS1BLK0327LCS				
5	Vial 5	0903262-01				
6	Vial 6	0903262-01;MS				
7	Vial 7	0903262-01;MSD				
8	Vial 8	0903262-03				
9	Vial 9	0903262-05				
10	Vial 10	0903262-07				
11	Vial 11	0903262-09				
12	Vial 12	0903262-11				
13	Vial 13	0903262-13				
14	Vial 14	0903262-15				
15	Vial 15	0903262-17				
16	Vial 16	0903262-19				
17	Vial 17	PRO 4250 9A0069				
18	Vial 18	FW1BLK0324				
19	Vial 19	FW1BLK0324LCS				
20	Vial 20	FW1BLK0324LCSD				
21	Vial 21	0903251-21				
22	Vial 22	PRO 4250 9A0057				

3262 · 1,3,5,7,9,11,13,15,17,19 X1

3251 · 21 X1

4/3/09

~~Sequence Table (Back Injector)~~:

~~No entries~~ - empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 4250 9A0057				
3	Vial 3	FS1BLK0327				
4	Vial 4	FS1BLK0327LCS				
5	Vial 5	0903251-01				
6	Vial 6	0903251-03				
7	Vial 7	0903251-05				
8	Vial 8	0903251-07				
9	Vial 9	0903251-09				
10	Vial 10	0903251-11				
11	Vial 11	0903251-13				
12	Vial 12	0903251-15				
13	Vial 13	0903251-17				
14	Vial 14	0903251-19				
15	Vial 15	PRO 4250 9A0057				
~~16~~	~~Vial 15~~	~~DRO 1000~~				

3251-1,3,5,7,9,11,13,15,17,19 x1

RE-EXTRACTS

Line Move 4/2/09

→ DIDN'T USE; NOT RELEVANT TO RUN

H.M. 4/2/09

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

%SOLIDS

Client(s):
TT NUS

Empirical Laboratories

Analyst: KBG
Method #: 2540
Method Type: Gravimetric

Date on: 3/20/2009
Time on: 11:30

Date off: 3/23/2009
Time off: 9:10

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	0903251-17		TT NUS	1.0079	5.6907	6.5587	97.5			
2	Sample	0903251-18		TT NUS	0.9849	5.4681	6.3017	97.2			
3	Sample	0903251-19		TT NUS	0.9805	6.0210	6.8018	96.7			
4	Sample	0903251-20		TT NUS	0.9966	5.1127	5.9098	96.1			
5	Sample	0903262-01			0.9890	5.8840	6.6595	96.4			
6	Duplicate	0903262-01			0.9913	5.0091	5.8177	96.4	0.01959	+/-20%	
7	Sample	0903262-02			0.9969	5.6763	6.5013	97.0			
8	Duplicate	0903262-02			0.9761	5.7029	6.4973	96.8	0.16277	+/-20%	
9	Sample	0903262-03			0.9685	6.1246	6.8602	96.2			
10	Sample	0903262-04			1.0066	5.4648	6.2528	96.0			
11	Sample	0903262-05			1.0015	6.4409	7.2808	97.5			
12	Sample	0903262-06			0.9787	6.0400	6.8524	97.2			
13	Sample	0903262-07			0.9800	5.7053	6.4630	96.1			
14	Sample	0903262-08			0.9970	5.3779	6.0418	93.8			
15	Sample	0903262-09			0.9934	5.3123	6.0137	94.5			
16	Sample	0903262-10			1.0068	5.4509	5.7867	87.7			
17	Sample	0903262-11			0.9862	5.5002	6.2761	96.2			
18	Sample	0903262-12			0.9770	5.9407	6.6865	96.1			
19	Sample	0903262-13			0.9740	5.4485	6.2632	97.1			
20	Sample	0903262-14			0.9974	5.9915	6.8161	97.1			
21	Sample	0903262-15			0.9820	6.1007	6.8950	96.9			

Comments:

Batch: 9C20011

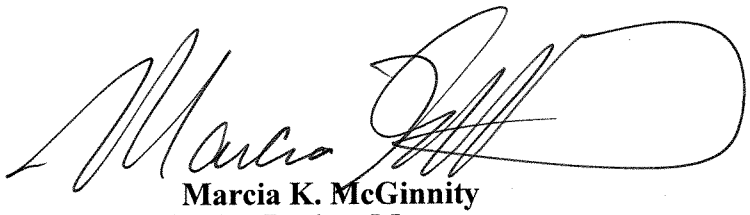
Anlaytical Report

Main Data Package - Inorganic

Tetra Tech NUS, Inc.

SDG #Mayport003

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

April 28, 2009

THIS DOCUMENT MEETS NELAC STANDARDS

NELAC Certification #TN473

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INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport003
Work Order # 0903251
March, 2009

Empirical Laboratories ID	Client ID
0903251-01	MPT-AOCF-SS04-0.5
0903251-03	MPT-AOCF-SS05-0.5
0903251-05	MPT-AOCF-SS06-0.5
0903251-07	MPT-AOCF-SS07-0.5
0903251-09	MPT-AOCF-SS8-0.5
0903251-11	MPT-AOCF-SS09-0.5
0903251-13	MPT-AOCF-SS10-0.5
0903251-15	MPT-AOCF-SS11-0.5
0903251-17	MPT-AOCF-SS12-0.5
0903251-19	MPT-AOCF-SS13-0.5
0903251-21	MPT-AOCF Rinsate

I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Betty DeVille
Inorganic Lab Manager

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

The samples were digested for ICAP metals by USEPA SW846 Method 3050B for soils and 3005A for waters and analyzed by method 6010B. Method 7471A was used to digest and analyze soil mercury and method 7470A was used for water samples. Standard Methods method 2540B was used to analyze percent solids. Note: The "I" flag indicates that the analyte result is between the laboratory reporting limit and the laboratory MDL. All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport003
Work Order # 0903251
March, 2009

IV. PREPARATION

All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

V. ANALYSIS:

A. Calibration: All calibration criteria were met.

B. Blanks: All blank criteria were met.

C. Spikes: All matrix spikes quality control criteria were met.

D. Duplicates: All duplicate quality control criteria were met.

E. Samples: All sample analysis proceeded normally.

F. Laboratory Control Samples: All percent recovery quality control criteria were met.

Tetra Tech NUS, Inc.

Parameters Requested

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0903251-01	MPT-AOCF-SS04-0.5	Soil	03/17/2009 10:20	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-02	MPT-AOCF-SS04-1.0	Soil	03/17/2009 10:25	% Solids
0903251-03	MPT-AOCF-SS05-0.5	Soil	03/17/2009 10:40	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-04	MPT-AOCF-SS05-1.0	Soil	03/17/2009 10:45	% Solids
0903251-05	MPT-AOCF-SS06-0.5	Soil	03/17/2009 10:55	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-06	MPT-AOCF-SS06-1.0	Soil	03/17/2009 11:00	% Solids
0903251-07	MPT-AOCF-SS07-0.5	Soil	03/17/2009 11:10	% Solids
				Arsenic

Lab Sample ID	Field ID	Matrix	Date_Time Sampled	Parameters requested
0903251-07	MPT-AOCF-SS07-0.5	Soil	03/17/2009 11:10	Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-08	MPT-AOCF-SS07-1.0	Soil	03/17/2009 11:15	% Solids
0903251-09	MPT-AOCF-SS08-0.5	Soil	03/17/2009 11:20	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-10	MPT-AOCF-SS08-1.0	Soil	03/17/2009 11:25	% Solids
0903251-11	MPT-AOCF-SS09-0.5	Soil	03/17/2009 11:50	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-12	MPT-AOCF-SS09-1.0	Soil	03/17/2009 11:55	% Solids
0903251-13	MPT-AOCF-SS10-0.5	Soil	03/17/2009 12:10	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver

Lab Sample ID	Field ID	Matrix	Date_Time Sampled	Parameters requested
0903251-14	MPT-AOCF-SS10-1.0	Soil	03/17/2009 12:15	% Solids
0903251-15	MPT-AOCF-SS11-0.5	Soil	03/17/2009 12:30	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-16	MPT-AOCF-SS11-1.0	Soil	03/17/2009 12:35	% Solids
0903251-17	MPT-AOCF-SS12-0.5	Soil	03/17/2009 12:50	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-18	MPT-AOCF-SS12-1.0	Soil	03/17/2009 12:55	% Solids
0903251-19	MPT-AOCF-SS13-0.5	Soil	03/17/2009 13:10	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903251-20	MPT-AOCF-SS13-1.0	Soil	03/17/2009 13:15	% Solids
0903251-21	MPT-AOCF-Rinsate 2	Water	03/17/2009 11:42	Arsenic
				Barium
				Cadmium
				Chromium
				Lead

Lab Sample ID	Field ID	Matrix	Date_Time Sampled	Parameters requested
0903251-21	MPT-AOCF-Rinsate 2	Water	03/17/2009 11:42	Mercury
				Selenium
				Silver

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0836 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00538	Ceal / AOC-F	Mark Peterson	904-334-7260	Empirical Laboratory
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		David Siefken	904 334-7260	621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed-Ex #		Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2009)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8 RCRA MGTALS 6010 (Appendix IX)	TRPH - FL PRO	8270 BNA (Appendix IX)	VOC 8260 (Appendix IX)	$CH_2OH + H_2O$				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G					
PRESERVATIVE USED									-	-	-						0903251
3/17	1020	MPT-AOCF-SS04-0.5				SO	G	3	X	X	X						Cool to 4°C -01
3/17	1025	MPT-AOC-F-SS04-~~0~~1.0					G	4				4					-02
3/17	1040	MPT-AOC-F SS05-0.5					G	3	1	1	1						-03
3/17	1045	MPT-AOC-F SS05-0.1					G	4				4					-04
3/17	1055	MPT-AOC F-SS06-0.5					G	3	1	1	1						-05
3/17	1100	MPT AOC F-SS06-1.0					G	4				4					-06
3/17	1110	MPT AOC F SS07-0.5					G	3	1	1	1						-07
3/17	1115	MPT AOC F SS07-1.0					G	4				4					-08
3/17	1120	MPT AOC F-SS08-0.5					G	3	1	1	1						-09
3/17	1125	MPT AOC F SS08 1.0					G	4				4					-10
3/17	1150	MPT AOC F SS09 0.5					G	3	1	1	1						-11
3/17	1155	MPT AOC F SS09 1.0					G	4				4					-12

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3.17.09	1600	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	3/18/09	09:00

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26403 | **PAGE** ___ **OF** ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00538	NAUSTA MPT / AOC-F	Mark Peterson	904 334-7260	Empirical Laboratory
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
		David Siefken	904 334-7260	621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		Fed Ex #		Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2009)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									PRESERVATIVE USED									COMMENTS
									G	G	G	G															0903251
									—	—	—	CH2Cl2 + H2O															
									TYPE OF ANALYSIS																		
									~~BRCRA~~ Metals (6010 (Appendix IX)	TRPH - FL-PRO	~~SVOC~~ 8270 BNA (Appendix IX)	8260 VOC (Appendix IX)															
3/17	1210	MPT-AOC-F-SS10-0.5				SO	G	3	1	1	1																Cool to 4°C - 13
3/17	1215	MPT.AOC-F.SS10-1.0				SO	G	4				4															- 14
3/17	1230	MPT AOCF-SS11-0.5				SO	G	3	1	1	1																- 15
3/17	1235	MPT AOCF SS11 1.0				SO	G	4				4															- 16
3/17	1250	MPT-AOCF SS12 0.5																									- 17
3/17	1255	MPT.AOCF SS12 1.0																									- 18
3/17	1310	MPT AOCF SS13 0.5																									- 19
3/17	1315	MPT AOCF SS13 1.0																									- 20
3/17	1142	MPT AOCF Rinsate 2				QC			1	2	2	3															- 21
	~~1247~~	~~MPT AOCF Rinsate 3~~ Paul				~~QC~~			~~1~~	~~2~~	~~2~~	~~3~~															
3/17	1500	Trip Blank #6829A				QC						1															- 22
3/17	1530	Trip Blank #6829B				QC						1															- 23

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3-17-09	1600	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	3/18/09	09:00

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903251 Number of Coolers: 1 of 2

Client: Tetra Tech NUS Project: CTO-050

Date/Time Received: **03/18/09 09:00** Date cooler(s) opened: **03/18/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4864

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/17/09 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 2-1°C

Dates samples were logged-in: **03/18/09**

9. Initial this form to acknowledge login of sample(s): (Name): Will Schwab (Initial): WS

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
17. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: 2 of 2

Client: Tetra Tech NUS Project: _____

Date/Time Received: **03/18/09 09:00** Date cooler(s) opened: **03/18/09**

Opened By (print): **WILLIAM SCHWAB** (signature): _____

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
   EL Courier Other: _____

If applicable, enter airbill number here: 4327

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/17/09 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 4.9c

Dates samples were logged-in: **03/18/09**

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
17. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

Sample Delivery Group Assignment Form

Matrix: Water / Soil.
QC LEVEL: Level III/EDD
Analyt. Due: 03/27/09
Report Due: 04/01/09 10BD TAT

Client: TetraTech NUS, Inc.
Project Name: NAS Mayport CTO050
SDG #: Mayport_003

Sample Type/count	Date Sampled	Date Received	Work Order	Client ID	VOA 8260B	SVOC 8270C	PRO	Metals 6010B
1	03/17/09	03/18/09	0903251-01	MPT-AOCF-SS04-0.5	X	X	X	X
2	03/17/09	03/18/09	0903251-02	MPT-AOCF-SS04-1.0	X			
3	03/17/09	03/18/09	0903251-03	MPT-AOCF-SS05-0.5	X	X	X	X
4	03/17/09	03/18/09	0903251-04	MPT-AOCF-SS05-1.0	X			
5	03/17/09	03/18/09	0903251-05	MPT-AOCF-SS06-0.5	X	X	X	X
6	03/17/09	03/18/09	0903251-06	MPT-AOCF-SS06-1.0	X			
7	03/17/09	03/18/09	0903251-07	MPT-AOCF-SS07-0.5	X	X	X	X
8	03/17/09	03/18/09	0903251-08	MPT-AOCF-SS07-1.0	X			
9	03/17/09	03/18/09	0903251-09	MPT-AOCF-SS08-0.5	X	X	X	X
10	03/17/09	03/18/09	0903251-10	MPT-AOCF-SS08-1.0	X			
11	03/17/09	03/18/09	0903251-11	MPT-AOCF-SS09-0.5	X	X	X	X
12	03/17/09	03/18/09	0903251-12	MPT-AOCF-SS09-1.0	X			
13	03/17/09	03/18/09	0903251-13	MPT-AOCF-SS10-0.5	X	X	X	X
14	03/17/09	03/18/09	0903251-14	MPT-AOCF-SS10-1.0	X			
15	03/17/09	03/18/09	0903251-15	MPT-AOCF-SS11-0.5	X	X	X	X
16	03/17/09	03/18/09	0903251-16	MPT-AOCF-SS11-1.0	X			
17	03/17/09	03/18/09	0903251-17	MPT-AOCF-SS12-0.5	X	X	X	X
18	03/17/09	03/18/09	0903251-18	MPT-AOCF-SS12-1.0	X			
19	03/17/09	03/18/09	0903251-19	MPT-AOCF-SS13-0.5	X	X	X	X
20	03/17/09	03/18/09	0903251-20	MPT-AOCF-SS13-1.0	X			
21	03/17/09	03/18/09	0903251-21	MPT-AOCF Rinsate	X	X	X	X
22	03/17/09	03/18/09	0903251-22	Trip Blank #6829A	X			
23	03/17/09	03/18/09	0903251-23	Trip Blank #6829B	X			

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MPT-AOCF-SS04-0.5	0903251-01
MPT-AOCF-SS04-0.5S	0903251-01S
MPT-AOCF-SS04-0.5SD	0903251-01SD
MPT-AOCF-SS05-0.5	0903251-03
MPT-AOCF-SS06-0.5	0903251-05
MPT-AOCF-SS07-0.5	0903251-07
MPT-AOCF-SS08-0.5	0903251-09
MPT-AOCF-SS09-0.5	0903251-11
MPT-AOCF-SS10-0.5	0903251-13
MPT-AOCF-SS11-0.5	0903251-15
MPT-AOCF-SS12-0.5	0903251-17
MPT-AOCF-SS13-0.5	0903251-19
MPT-AOCF-Rinsate 2	0903251-21

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: D. Rick Davis

Date: _____ Title: Vice President

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS04-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-01

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.5 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.61	2.0	0.79	I		P
7440-39-3	Barium	1.0	8.1	8.7			P
7440-43-9	Cadmium	0.20	1.0	0.28	I		P
7440-47-3	Chromium	0.41	2.0	2.0	I		P
7439-92-1	Lead	0.30	0.61	0.92			P
7782-49-2	Selenium	0.61	1.0	0.84	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS04-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-01

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.5 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.033		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

_____

_____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS05-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-03

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.3 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1	0.71	I		P
7440-39-3	Barium	1.0	8.3	5.9	I		P
7440-43-9	Cadmium	0.21	1.0	0.29	I		P
7440-47-3	Chromium	0.42	2.1	2.1			P
7439-92-1	Lead	0.31	0.62	0.72			P
7782-49-2	Selenium	0.62	1.0	0.76	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS05-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-03

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.3 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS06-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-05

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 95.3 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.63	2.1	1.2	I		P
7440-39-3	Barium	1.0	8.4	7.0	I		P
7440-43-9	Cadmium	0.21	1.0	0.32	I		P
7440-47-3	Chromium	0.42	2.1	3.2			P
7439-92-1	Lead	0.31	0.63	2.0			P
7782-49-2	Selenium	0.63	1.0	0.73	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS06-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-05

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 95.3 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.032		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

_____

_____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS07-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-07

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 94.8 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1	0.97	I		P
7440-39-3	Barium	1.0	8.3	4.2	I		P
7440-43-9	Cadmium	0.21	1.0		U		P
7440-47-3	Chromium	0.41	2.1	2.4			P
7439-92-1	Lead	0.31	0.62	1.9			P
7782-49-2	Selenium	0.62	1.0	0.68	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS07-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-07

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 94.8 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

_____

_____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS08-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-09

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 93.8 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.63	2.1	1.2	I		P
7440-39-3	Barium	1.1	8.4	5.5	I		P
7440-43-9	Cadmium	0.21	1.1	0.21	I		P
7440-47-3	Chromium	0.42	2.1	2.9			P
7439-92-1	Lead	0.32	0.63	2.6			P
7782-49-2	Selenium	0.63	1.1	0.80	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS08-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-09

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 93.8 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

_____

_____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS09-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-11

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 94.9 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.63	2.1	1.3	I		P
7440-39-3	Barium	1.0	8.3	6.5	I		P
7440-43-9	Cadmium	0.21	1.0	0.24	I		P
7440-47-3	Chromium	0.42	2.1	2.8			P
7439-92-1	Lead	0.31	0.63	2.6			P
7782-49-2	Selenium	0.63	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS09-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-11

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 94.9 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.034	0.015	I		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS10-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-13

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 92.9 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.64	2.1	1.6	I		P
7440-39-3	Barium	1.1	8.5	177			P
7440-43-9	Cadmium	0.21	1.1	0.62	I		P
7440-47-3	Chromium	0.43	2.1	6.9			P
7439-92-1	Lead	0.32	0.64	5.6			P
7782-49-2	Selenium	0.64	1.1	1.2			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS10-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-13

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 92.8 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.035		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

_____

_____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS11-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-15

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.0 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1	0.81	I		P
7440-39-3	Barium	1.0	8.3	6.0	I		P
7440-43-9	Cadmium	0.21	1.0	0.27	I		P
7440-47-3	Chromium	0.41	2.1	2.0	I		P
7439-92-1	Lead	0.31	0.62	0.97			P
7782-49-2	Selenium	0.62	1.0	0.88	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS11-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-15

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.0 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS12-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-17

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 97.5 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.60	2.0	0.91	I		P
7440-39-3	Barium	1.00	8.0	13.8			P
7440-43-9	Cadmium	0.20	1.00	0.30	I		P
7440-47-3	Chromium	0.40	2.0	1.5	I		P
7439-92-1	Lead	0.30	0.60	6.4			P
7782-49-2	Selenium	0.60	1.00	0.63	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS12-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-17

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 97.5 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.033		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS13-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-19

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.7 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.61	2.0	0.79	I		P
7440-39-3	Barium	1.0	8.2	6.7	I		P
7440-43-9	Cadmium	0.20	1.0	0.33	I		P
7440-47-3	Chromium	0.41	2.0	2.3			P
7439-92-1	Lead	0.31	0.61	0.97			P
7782-49-2	Selenium	0.61	1.0	0.93	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS13-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: SOIL Lab Sample ID: 0903251-19

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 96.7 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.033		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-Rinsate 2

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: WATER Lab Sample ID: 0903251-21

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 0.0 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	1.0	10.0		U		P
7440-38-2	Arsenic	3.0	10.0		U		P
7440-39-3	Barium	5.0	40.0		U		P
7440-43-9	Cadmium	1.0	5.0		U		P
7440-47-3	Chromium	2.0	10.0		U		P
7439-92-1	Lead	1.5	3.0		U		P
7782-49-2	Selenium	3.0	5.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7470A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-Rinsate 2

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 003

Matrix: WATER Lab Sample ID: 0903251-21

Level (low/med): LOW Date Sampled: 03/17/09

% Solids: 0.0 Date Received: 03/18/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.080	0.20		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000.0	1012.10	101.2	1000.0	1000.30	100.0	1012.20	101.2	P
Barium	1000.0	1032.70	103.3	1000.0	1035.60	103.6	1047.00	104.7	P
Cadmium	1000.0	1039.10	103.9	1000.0	1027.20	102.7	1037.50	103.8	P
Chromium	1000.0	962.77	96.3	1000.0	967.21	96.7	967.52	96.8	P
Lead	1000.0	966.01	96.6	1000.0	972.73	97.3	985.12	98.5	P
Mercury	2.0	2.13	106.5	4.0	3.91	97.8	3.91	97.8	AV
Selenium	1000.0	1021.70	102.2	1000.0	996.34	99.6	1009.70	101.0	P
Silver	500.0	479.60	95.9	500.0	481.98	96.4	483.82	96.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000.0	1019.50	102.0	1018.90	101.9	P
Barium				1000.0	1054.10	105.4	1063.50	106.4	P
Cadmium				1000.0	1045.20	104.5	1047.90	104.8	P
Chromium				1000.0	928.81	92.9	931.95	93.2	P
Lead				1000.0	1001.00	100.1	1011.50	101.2	P
Selenium				1000.0	1015.60	101.6	1024.80	102.5	P
Silver				500.0	479.27	95.9	479.03	95.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1014.60	101.5			P
Barium				1000.0	1066.90	106.7			P
Cadmium				1000.0	1047.80	104.8			P
Chromium				1000.0	958.06	95.8			P
Lead				1000.0	1013.80	101.4			P
Selenium				1000.0	1026.80	102.7			P
Silver				500.0	476.31	95.3			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000.0	998.79	99.9	1000.0	987.94	98.8	979.47	97.9	P
Barium	1000.0	1005.30	100.5	1000.0	1001.00	100.1	990.00	99.0	P
Cadmium	1000.0	1036.70	103.7	1000.0	1017.40	101.7	1006.40	100.6	P
Chromium	1000.0	983.51	98.4	1000.0	1004.00	100.4	999.88	100.0	P
Lead	1000.0	962.81	96.3	1000.0	959.56	96.0	944.57	94.5	P
Mercury	4.0	3.89	97.2	4.0	3.88	97.0			AV
Selenium	1000.0	1007.40	100.7	1000.0	986.11	98.6	974.24	97.4	P
Silver	500.0	484.51	96.9	500.0	483.80	96.8	483.96	96.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Arsenic				20.0	19.89	99.4		
Barium								
Cadmium				10.0	9.44	94.4		
Chromium				20.0	20.32	101.6		
Lead				6.0	5.65	94.2		
Selenium				10.0	8.59	85.9		
Silver				20.0	18.91	94.6		

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	19.39	97.0		
Barium								
Cadmium				10.0	10.36	103.6		
Chromium				20.0	20.69	103.4		
Lead				6.0	5.83	97.2		
Selenium				10.0	9.97	99.7		
Silver				20.0	19.48	97.4		

Control Limits: no limits have been established by EPA at this time

3

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Lead	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	P
Mercury	0.080	U	0.080	U	0.080	U			0.013	U	AV
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P

3

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.0	U	3.0	U			0.600	U	P
Barium			5.0	U	5.0	U			1.000	U	P
Cadmium			1.0	U	1.0	U			0.200	U	P
Chromium			2.0	U	2.0	U			0.400	U	P
Lead			1.5	U	1.5	U			0.300	U	P
Selenium			3.0	U	3.0	U			0.600	U	P
Silver			1.0	U	1.0	U			0.200	U	P

3

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U			3.000	U	P
Barium	5.0	U	5.0	U	5.0	U			5.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U			1.000	U	P
Chromium	2.0	U	2.0	U	2.0	U			2.000	U	P
Lead	1.5	U	1.5	U	1.5	U			1.500	U	P
Mercury	0.080	U	0.080	U					0.080	U	AV
Selenium	3.0	U	3.0	U	3.0	U			3.000	U	P
Silver	1.0	U	1.0	U	1.0	U			1.000	U	P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	100	-3	113.3	113.3			
Barium	0	500	2	573.6	114.7			
Cadmium	0	1000	0	1189.4	118.9			
Chromium	0	500	-2	449.5	89.9			
Lead	0	50	5	50.7	101.4			
Selenium	0	50	6	57.6	115.2			
Silver	0	200	0	201.0	100.5			

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	100	-1	111.8	111.8			
Barium	0	500	0	543.8	108.8			
Cadmium	0	1000	1	1162.6	116.3			
Chromium	0	500	-2	430.8	86.2			
Lead	0	50	4	51.4	102.8			
Selenium	0	50	4	58.0	116.0			
Silver	0	200	0	199.6	99.8			

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS04-0.5S

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	60.4915		0.7901		51.30	116.4		P
Barium	75 - 125	487.1082		8.6902		410.40	116.6		P
Cadmium	75 - 125	30.5361		0.2816		25.65	118.0		P
Chromium	75 - 125	41.1963		1.9596		41.04	95.6		P
Lead	75 - 125	54.4360		0.9223		51.30	104.3		P
Mercury	75 - 125	0.3391		0.0134	U	0.32	106.0		AV
Selenium	75 - 125	57.9757		0.8380		51.30	111.4		P
Silver	75 - 125	52.3142		0.2032	U	51.30	102.0		P

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS04-0.5SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	60.3896		0.7901		51.81	115.0		P
Barium	75 - 125	490.4663		8.6902		414.51	116.2		P
Cadmium	75 - 125	30.8456		0.2816		25.91	118.0		P
Chromium	75 - 125	41.4280		1.9596		41.45	95.2		P
Lead	75 - 125	55.1876		0.9223		51.81	104.7		P
Mercury	75 - 125	0.3531		0.0134	U	0.35	100.9		AV
Selenium	75 - 125	58.1617		0.8380		51.81	110.6		P
Silver	75 - 125	53.6207		0.2032	U	51.81	103.5		P

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS04-0.5A

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic		318.82		3.89		250.0	126.0		P
Barium		2478.40		42.77		2000.0	121.8		P
Cadmium		159.22		1.39		125.0	126.3		P
Chromium		204.77		9.64		200.0	97.6		P
Lead		277.24		4.54		250.0	109.1		P
Selenium		299.45		4.12		250.0	118.1		P
Silver		263.84		1.00	U	250.0	105.5		P

Comments: _____

6

DUPLICATES

SAMPLE NO.

MPT-AOCF-SS04-0.5SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.5 % Solids for Duplicate: 96.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		60.4915		60.3896		0.2		P
Barium		487.1082		490.4663		0.7		P
Cadmium		30.5361		30.8456		1.0		P
Chromium		41.1963		41.4280		0.6		P
Lead		54.4360		55.1876		1.4		P
Mercury		0.3391		0.3531		4.0		AV
Selenium		57.9757		58.1617		0.3		P
Silver		52.3142		53.6207		2.5		P

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				50.0	49.7		40.0	60.0	99.4
Barium				400.0	433.2		320.0	480.0	108.3
Cadmium				25.0	25.7		20.0	30.0	102.8
Chromium				40.0	40.4		32.0	48.0	101.0
Lead				50.0	49.9		40.0	60.0	99.8
Mercury				0.33	0.35		0.3	0.4	106.1
Selenium				50.0	47.7		40.0	60.0	95.4
Silver				50.0	49.7		40.0	60.0	99.4

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				50.0	49.6		40.0	60.0	99.2
Barium				400.0	441.1		320.0	480.0	110.3
Cadmium				25.0	25.9		20.0	30.0	103.6
Chromium				40.0	39.7		32.0	48.0	99.2
Lead				50.0	51.0		40.0	60.0	102.0
Selenium				50.0	48.4		40.0	60.0	96.8
Silver				50.0	49.0		40.0	60.0	98.0

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	250.0	246.54	98.6						
Barium	2000.0	2005.50	100.3						
Cadmium	125.0	127.60	102.1						
Chromium	200.0	205.75	102.9						
Lead	250.0	243.43	97.4						
Mercury	2.00	1.97	98.5						
Selenium	250.0	246.98	98.8						
Silver	250.0	247.98	99.2						

9
ICP SERIAL DILUTIONS

SAMPLE NO.

MPT-AOCF-SS04-0.5L

Lab Name: Empirical Laboratories Contract: TetraTech N

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	3.89	I	15.00	U	100.0		P
Barium	42.77		44.88	I	4.9		P
Cadmium	1.39	I	5.00	U	100.0		P
Chromium	9.64	I	11.46	I	18.9		P
Lead	4.54		7.50	U	100.0		P
Selenium	4.12	I	15.00	U	100.0		P
Silver	1.00	U	5.00	U			P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	RDL (ug/L)	MDL (ug/L)	M
Arsenic	189.0		10.0	3.0	P
Barium	233.5		40.0	5.0	P
Cadmium	228.8		5.0	1.0	P
Chromium	267.7		10.0	2.0	P
Lead	220.3		3.0	1.5	P
Selenium	196.0		5.0	3.0	P
Silver	328.0		10.0	1.0	P

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

ICP ID Number: _____ Date: 03/18/08

Flame AA ID Number: PE CVAA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	RDL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.08	AV

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	396.1	0.0000000	0.0000000	-0.0000600	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0014470	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0209590	0.0000000
Vanadium	292.4	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	K	Mn
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0002290	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	-0.0023860	0.0000000	0.0000000	-0.0003500
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Aluminum	396.1	0.0317300	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	-0.0001730	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	-0.0012520	0.0000000	0.0001940	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	-0.0001060	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000030
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Cobalt	228.6	0.0000000	0.0000000	0.0021640	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001550
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Sodium	589.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0006540	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Aluminum	396.1	0.0000000				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Boron	249.7	0.0000000				
Cadmium	228.8	0.0000000				
Calcium	317.9	0.0000000				
Chromium	267.7	0.0000000				
Cobalt	228.6	0.0000000				
Copper	224.7	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000000				
Potassium	766.4	0.0000000				
Selenium	196.0	0.0000000				
Silicon	251.6	0.0000000				
Silver	328.0	0.0000000				
Sodium	589.5	0.0000000				
Sodium	330.2	0.0000000				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0000000				
Tin	189.9	0.0000000				
Titanium	334.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments: _____

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	15.00	10000.0	P
Barium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Chromium	15.00	10000.0	P
Lead	15.00	10000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	2000.0	P

Comments: _____

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Method: P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
PBS032709B	03/27/09	1.00	200.0
LCSS032709B	03/27/09	1.00	200.0
MPT-AOCF-SS04-0.5	03/27/09	1.02	200.0
MPT-AOCF-SS04-0.5S	03/27/09	1.01	200.0
MPT-AOCF-SS04-0.5SD	03/27/09	1.00	200.0
MPT-AOCF-SS05-0.5	03/27/09	1.00	200.0
MPT-AOCF-SS06-0.5	03/27/09	1.00	200.0
MPT-AOCF-SS07-0.5	03/27/09	1.02	200.0
MPT-AOCF-SS08-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS09-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS10-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS11-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS12-0.5	03/27/09	1.03	200.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Method: P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
PBS032709C	03/27/09	1.00	200.0
LCSS032709C	03/27/09	1.00	200.0
MPT-AOCF-SS13-0.5	03/27/09	1.01	200.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Method: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
PBW041609D	04/16/09	50.0	50.0
LCSW041609D	04/16/09	50.0	50.0
MPT-AOCF-Rinsate 2	04/16/09	50.0	50.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Method: CV

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
LCSS040209A	04/02/09	0.30	50.0
PBS040209A	04/02/09	0.30	50.0
MPT-AOCF-SS04-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS04-0.5S	04/02/09	0.32	50.0
MPT-AOCF-SS04-0.5SD	04/02/09	0.30	50.0
MPT-AOCF-SS05-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS06-0.5	04/02/09	0.33	50.0
MPT-AOCF-SS07-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS08-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS09-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS10-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS11-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS12-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS13-0.5	04/02/09	0.31	50.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_003

Method: CV

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCSW041609A	04/16/09	30.0	30.0
PBW041609A	04/16/09	30.0	30.0
MPT-AOCF-Rinsate 2	04/16/09	30.0	30.0

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1146				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1151																									
S	1.00	1155				X	X		X		X				X						X	X					
S	1.00	1200					X																				
S	1.00	1205																				X					
S	1.00	1211				X			X		X				X						X						
ZZZZZZ	1.00	1223																									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1233																									
ZZZZZZ	1.00	1238																									
ZZZZZZ	1.00	1243																									
ZZZZZZ	1.00	1249																									
ZZZZZZ	1.00	1257																									
ZZZZZZ	1.00	1304																									
ICV1	1.00	1313				X	X		X		X				X						X	X					
ICB1	1.00	1320				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1325																									
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1334																									
ZZZZZZ	1.00	1338																									
ZZZZZZ	1.00	1343																									
ZZZZZZ	1.00	1348																									
ZZZZZZ	1.00	1352																									
ZZZZZZ	1.00	1357																									
CRDL1	1.00	1405				X	X		X		X				X						X	X					
ICSA	1.00	1409				X	X		X		X				X						X	X					
ICSAB	1.00	1414				X	X		X		X				X						X	X					
CCV1	1.00	1423				X	X		X		X				X						X	X					
CCB1	1.00	1430				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1435																									
ZZZZZZ	1.00	1439																									
ZZZZZZ	1.00	1446																									
ZZZZZZ	1.00	1450																									
ZZZZZZ	1.00	1455																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1504																									
ZZZZZZ	1.00	1508																									
ZZZZZZ	1.00	1513																									

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1517																								
ZZZZZZ	1.00	1522																								
ZZZZZZ	1.00	1526																								
ZZZZZZ	1.00	1531																								
ZZZZZZ	1.00	1539																								
ZZZZZZ	1.00	1543																								
ZZZZZZ	1.00	1548																								
ZZZZZZ	1.00	1552																								
ZZZZZZ	1.00	1557																								
ZZZZZZ	1.00	1601																								
ZZZZZZ	1.00	1606																								
ZZZZZZ	1.00	1610																								
ZZZZZZ	5.00	1616																								
ZZZZZZ	1.00	1621																								
ZZZZZZ	1.00	1625																								
ZZZZZZ	1.00	1630																								
ZZZZZZ	1.00	1635																								
ZZZZZZ	1.00	1639																								
ZZZZZZ	1.00	1644																								
CCV2	1.00	1650				X	X		X		X				X						X	X					
CCB2	1.00	1657				X	X		X		X				X						X	X					
PBS032709B	1.00	1701				X	X		X		X				X						X	X					
LCSS032709B	1.00	1706				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1713																								
ZZZZZZ	1.00	1717																								
ZZZZZZ	1.00	1722																								
MPT-AOCF-SS04-0.5	1.00	1727				X	X		X		X				X						X	X					
MPT-AOCF-SS04-0.5S	1.00	1731				X	X		X		X				X						X	X					
MPT-AOCF-SS04-0.5SD	1.00	1736				X	X		X		X				X						X	X					
MPT-AOCF-SS04-0.5A	1.00	1740				X	X		X		X				X						X	X					
MPT-AOCF-SS04-0.5L	5.00	1746				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1751																								
MPT-AOCF-SS05-0.5	1.00	1755				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1800																								
MPT-AOCF-SS06-0.5	1.00	1805				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1809																								
MPT-AOCF-SS07-0.5	1.00	1814				X	X		X		X				X						X	X					
CCV3	1.00	1820				X	X		X		X				X						X	X					

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
CCB3	1.00	1827				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1831																												
MPT-AOCF-SS08-0.5	1.00	1836				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1841																												
MPT-AOCF-SS09-0.5	1.00	1845				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1850																												
MPT-AOCF-SS10-0.5	1.00	1855				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1859																												
MPT-AOCF-SS11-0.5	1.00	1904				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1909																												
MPT-AOCF-SS12-0.5	1.00	1913				X	X		X		X				X						X	X								
CCV4	1.00	1919				X	X		X		X				X						X	X								
CCB4	1.00	1926				X	X		X		X				X						X	X								
PBS032709C	1.00	1931				X	X		X		X				X						X	X								
LCSS032709C	1.00	1936				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1942																												
MPT-AOCF-SS13-0.5	1.00	1947				X	X		X		X				X						X	X								
ZZZZZZ	1.00	1951																												
ZZZZZZ	1.00	1956																												
ZZZZZZ	1.00	2000																												
ZZZZZZ	1.00	2004																												
ZZZZZZ	5.00	2010																												
ZZZZZZ	1.00	2014																												
ZZZZZZ	1.00	2019																												
ZZZZZZ	1.00	2023																												
ZZZZZZ	1.00	2028																												
ZZZZZZ	1.00	2032																												
ZZZZZZ	1.00	2037																												
ZZZZZZ	1.00	2041																												
CCV5	1.00	2047				X	X		X		X				X						X	X								
CCB5	1.00	2054				X	X		X		X				X						X	X								

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/20/09 End Date: 04/20/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1010				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1014																									
S	1.00	1019				X	X		X		X				X						X	X					
S	1.00	1025					X																				
S	1.00	1033																				X					
S	1.00	1039				X			X		X				X						X						
ZZZZZZ	1.00	1047																									
ZZZZZZ	1.00	1055																									
ZZZZZZ	1.00	1107																									
ZZZZZZ	1.00	1114																									
ZZZZZZ	1.00	1122																									
ICV2	1.00	1130				X	X		X		X				X						X	X					
ICB2	1.00	1137				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1142																									
ZZZZZZ	1.00	1146																									
ZZZZZZ	1.00	1151																									
ZZZZZZ	1.00	1156																									
ZZZZZZ	1.00	1201																									
ZZZZZZ	1.00	1206																									
ZZZZZZ	1.00	1210																									
CRDL1	1.00	1218				X	X		X		X				X						X	X					
ICSA	1.00	1223				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1227																									
ICSAB	1.00	1234				X	X		X		X				X						X	X					
CCV1	1.00	1242				X	X		X		X				X						X	X					
CCB1	1.00	1249				X	X		X		X				X						X	X					
PBW041609D	1.00	1254				X	X		X		X				X						X	X					
LCSW041609D	1.00	1259				X	X		X		X				X						X	X					
MPT-AOCF-Rinsate 2	1.00	1305				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1309																									
ZZZZZZ	1.00	1314																									
ZZZZZZ	5.00	1319																									
ZZZZZZ	1.00	1323																									
ZZZZZZ	1.00	1328																									
ZZZZZZ	1.00	1334																									
ZZZZZZ	1.00	1339																									
ZZZZZZ	1.00	1343																									
ZZZZZZ	1.00	1350																									

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/20/09 End Date: 04/20/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1354																								
ZZZZZZ	1.00	1359																								
ZZZZZZ	1.00	1404																								
ZZZZZZ	1.00	1408																								
ZZZZZZ	1.00	1412																								
ZZZZZZ	1.00	1417																								
ZZZZZZ	5.00	1422																								
CCV2	1.00	1428				X	X		X		X				X						X	X					
CCB2	1.00	1435				X	X		X		X				X						X	X					

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/06/09 End Date: 04/06/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1559																X									
S0.20	1.00	1600																X									
S0.50	1.00	1601																X									
S1.0	1.00	1602																X									
S2.0	1.00	1603																X									
S4.0	1.00	1605																X									
S6.0	1.00	1606																X									
S10.0	1.00	1607																X									
ICV1	1.00	1641																X									
ICB1	1.00	1642																X									
ZZZZZZ	1.00	1644																									
LCSS040209A	1.00	1645																X									
PBS040209A	1.00	1646																X									
MPT-AOCF-SS04-0.5	1.00	1647																X									
MPT-AOCF-SS04-0.5S	1.00	1648																X									
MPT-AOCF-SS04-0.5SD	1.00	1650																X									
MPT-AOCF-SS05-0.5	1.00	1651																X									
MPT-AOCF-SS06-0.5	1.00	1652																X									
MPT-AOCF-SS07-0.5	1.00	1653																X									
MPT-AOCF-SS08-0.5	1.00	1655																X									
CCV1	1.00	1656																X									
CCB1	1.00	1657																X									
MPT-AOCF-SS09-0.5	1.00	1658																X									
MPT-AOCF-SS10-0.5	1.00	1659																X									
MPT-AOCF-SS11-0.5	1.00	1701																X									
MPT-AOCF-SS12-0.5	1.00	1702																X									
MPT-AOCF-SS13-0.5	1.00	1703																X									
ZZZZZZ	1.00	1705																									
ZZZZZZ	1.00	1706																									
ZZZZZZ	1.00	1707																									
ZZZZZZ	1.00	1709																									
ZZZZZZ	1.00	1710																									
CCV2	1.00	1711																X									
CCB2	1.00	1712																X									

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 003

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/17/09 End Date: 04/17/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0757																X									
S0.20	1.00	0758																X									
S0.50	1.00	0759																X									
S1.0	1.00	0800																X									
S2.0	1.00	0801																X									
S4.0	1.00	0803																X									
S6.0	1.00	0804																X									
S10.0	1.00	0805																X									
ICV2	1.00	0807																X									
ICB2	1.00	0809																X									
LCSW041609A	1.00	0810																X									
PBW041609A	1.00	0811																X									
MPT-AOCF-Rinsate 2	1.00	0812																X									
ZZZZZZ	1.00	0813																									
CCV1	1.00	0814																X									
CCB1	1.00	0816																X									

Supervisor Check_____

Metals Digestion Log SOP#100

Empirical Laboratories

200

Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
3-27-09	KH	PBS 032709B	QC	3050	—	200ml	Soil	B	95.0 i.t. #30	
		LCSS 032709B	ISM080302		1.00g					
		0903262-15	Tetra Tech		1.03g					
		0903262-17			1.01g					
		0903262-19			1.00g					
		0903251-01			1.02g					
		0903251-01 MS			1.01g					
		0903251-01 MSD			1.00g					
		0903251-02			1.02g					
		0903251-03			1.00g					
		0903251-04			1.02g					
		0903251-05			1.00g					
		0903251-06			1.01g					
		0903251-07			1.02g					
		0903251-08			1.01g					
		0903251-09			1.01g					
		0903251-10			1.02g					
		0903251-11			1.01g					
		0903251-12			1.01g					
		0903251-13			1.01g					
		0903251-14			1.01g					
		0903251-15			1.01g					
		0903251-16			1.01g					
		0903251-17			1.03g					

Comments: We Thermm 49 was used for temp check

See p. 153 for H_2O_2 + Acid Lot #'s

See p. 198 for spike prep details

Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
3-27-09	KH	PBS 032709c	QC	3050	—	200ml	Soil	A	95.3c #30	
		LCSS 032709c	ISA080302		1.00g					
		0903251-18	Tetra Tech		1.03g					
		0903251-19	↓		1.01g					
		0903301-01			1.00g					
		0903301-01 [MS]			1.00g					
		0903301-01 [MSD]			1.00g					
		0903301-02			1.06g					
		0903312-01			1.02g					
		0903312-02			1.05g					
		0903312-03			1.07g					
		0903312-04			1.05g					
		0903332-01			1.05g					
		0903332-02			1.03g					
		0903332-03			1.08g					
		0903332-04			1.06g					
		0903332-05	↓	↓	1.00g	↓	↓	↓	↓	

Comments: WL Thermo 49 was used for temp check
See p. 153 for HNO3 + Acid Lot #'s

See p. 199 for spike prep details

Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
4-16-09	KH	PBS 041609C	QC	3050	—	100ml	Soil	B	94.7°C #7	4-20-09 RD
		LCSS 041609C	ISA080302		2.00g					
		0904055-11	TetrA Tech		2.04g					
		0904055-12			2.02g					
		0904055-13			2.04g					
		0904055-13 [MS] RB			2.04g					
		0904055-13 [MSD] RB			2.04g					
4-16-09	KH	PBW 041609D	QC	200.7/3005	50ml	50ml	H_2O	B	94.7°C #7	4-20-09 RB
		LCSW 041609D	ISA080024							
		0903251-21	TetrA Tech							
		0903265-01								

Comments: We Therm 49 was used for temp check
See p.208 for H_2O_2 + Acid Lot #'s

see p.232 for spike prep details

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0.0	H_2O	SC	DI H_2O	7471A		50ml	94.5°C	0°C	A	4/2/09 KH	16:45	17:15	4/6/09 KH
0.2			USA90006										
0.5													
1.0													
2.0													
4.0													
6.0													
10.0													
ICV			USA080303										
ICB			DI H_2O										
0.2 Std.	↓		USA90006										
LCSS040209A	Soil		USA080303		0.30								
PBS040209A		✓	DI H_2O		0.30								
0903251-01		Tetra			0.31								
-01MS			USA080303		0.32								
-01MSD			↓		0.30								
-03					0.31								
-05					0.33								
-07					0.31								
-09					0.31								
-11					0.31								
-13					0.31								
-15					0.31								
-17					0.31								
-19					0.31								
0903262-03					0.31								
-05					0.32								
-07					0.32								
-09					0.30								
-11					0.33								

Reagents:

HNO3 lot# 082911

(Water Only) H2SO4 lot#

(Soil Only) HCL lot# 085026

KMnO4:IRLAHg 090040

(Water Only) K2S2O8:IRLAHg ~~090041~~ DEF

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0.0	H_2O	QC	DI H_2O	7470A		30ml/s	95°C	0°C	A	4/16/09 KH	13:21	15:21	4/16/09
0.2			ISA090006										
0.5													
1.0													
2.0													
4.0													
6.0													
10.0													
ICV			ISA080303										
ICB			DI H_2O										
LCSW041609A			ISA080303										
PBW041609A			DI H_2O										
0903251-21		Tetra											
0903265-01											15:30	17:30	

Reagents:
HNO3 lot# 082911
(Water Only) H2SO4 lot# 067675
(Soil Only) HCL lot#
KMnO4:IRLAHg 090055
(Water Only) K2S2O8:IRLAHg 090258

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
03194-1-5	AF 7:45 3/18/09			DRO
0903177-02	8:11 3-18-09 RGT	9:17 3-18-09 RGT		Flashpoint
0903223 01-09	JC 3/18/09 13:45	JC 3/19/09 17:26		TCLP
0903214 03-11	~ 3/18/09 JC 15:53	3/19/09 JC 17:26		↓
0902295-01-17 0903039-02 3/04	KH 3/18/09 6:01	KH 3/18/09 6:35		~~Metal~~ Mercury.
0903088-01-05	↓	↓		↓
03250-1-3, 8-21, 26-28	MS 3/19/08 07:40	MS 3/19/08 11:20		DRO
03250-29, 32-37, 42-54	↓	↓		↓
03188 21-24-28	3-19-09 RGT 8:46 AM	3-19-09 RGT 9:20 AM		
03187 02-07	3-19-09 RGT 9:23 AM	3-19-09 RGT 10:17 am		
03192	3-19-09 RGT 10:35 AM	3-19-09 RGT 10:46 AM		
03207 03210 01-02	3-19-09 RGT 10:49 AM	3-19-09 RGT 11:20 AM		
03219 01-04	3-19-09 RGT 11:23 AM	3-19-09 RGT 11:46 AM		
03234	3-19-09 RGT 11:50 AM	3-19-09 RGT 12:05 pm		
03251 (2,4,6,8 10,12,14,16,18 20)	3-19-09 RGT 12:10 AM	3-19-09 RGT 1:06 pm		
0903214-12-18	14:40 KBG 3/19/09	16:20 KBG 3/19/09		ZHE
3203-2,3 3134-1-7	JJ 3.19.09 7:56 pm	JJ 3.19.09 8:42pm		VPH
3234-01,02 3250-01-61	07:25 KBG 3/20/09	10:30 KBG 3/20/09		% Solids
3251-01-20 3242-01-20	↓	↓	TO-extractions	↓
3138-21,24-28	GI 9:00 3/20/09	AF 16:00 3/20/09		LL PAH

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3219-1-4 3234-1,2 3263-1-2	G.I 9:00 3/20/09	AF 3/20/09 16:00		PCB
3251-1,3,5,6,7,9,11,13, 15,17,19,3262-1-19	↓	↓		BNA
↓	↓	↓		FLPRO
3135-03 3222-03	VM 3-20-09 9:00	3-20-09 1730 VM		CN
3162-01-20 3163-01,02	10:30 KBG 3/20/09	12:00 KBG 3/20/09		% Solids
03036-1	AF 10:45 3/20/09	AF 3/20/09 16:00		PCB
3134 (1-7) 3179-01	3-21-09 8:00AM (BN)	—	not A-viole	UOA
3138 (25-27)	3-23-09 7:15AM (BN)			UOA
03288-1-20	GI 3/23/09 9:30	GI 3/23/09 11:10		BNA
03250-SS-6.1	↓	↓		DRO
3179 & 3187-03/07	RF 3/23/09 10:07	3/23/09 11:00		METALS
3281-01	3-23-09 VM 1045	3-23-09 VM 1630		pH
3207-01 3234 3219-01-04	11:10 3/23/09 RF	11:25 3/23/09		METALS
3263 & 3285	11:30 3/23/09 RF	12:45 3/23/09		METALS
03214-1-4 03285-1-5 03234-1-2 03263-1-2	AF 11:45 3/23/09	AF 3/23/09 16:50		EXP
3179 + 3187	RF 3/23/09 1:37PM	2:04 3/23/09 RF		METALS
0403214 14-27 0403223 01-03	JC 3/23/09 14:33	3/23/09 16:42 JC		TCLP
03188-6-7	MS 3/24/09 08:05			PestPCB
3251	RF 3/24/09 10:33	3/24/09 12:27		Metals
3262 3293-01-03	12:27 3/24/09	3/24/09 2:00		

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
04111-01-14	KAW 4/15/09 9:05			PAH
4105-01	JC 4/15/09 9:12	JC 4/15/09 13:41		BOD
4114 03, 04	↓	↓		↓
4077-01 4113-01	VM 4-15-09 1100	VM 4-15-09 1610		NO_3 NO_2
4117-01→05 4118-02→05	KBG 12:00 4-15-09	KBG 20:25 4/15/09	From log-in	Anions
4127-01→08 4130-01→05	↓	↓	↓	↓
0904114	8:05 4-15-09 RB	9:45 4-15-09 RB		Sol. Metals
0904127 0904130	8:11 4-15-09 RB	8:50 4-15-09 RB		Metals
04127-01-08; 04130-01-05	~~4/15/09~~ 4/16/09 KAW 9:05			PAH
04113-01; 04124-01; 04125-01; 04126-01	KAW 4/16/09 9:05			DNT
4130 01, 02	JC 4/16/09 9:30	JC 4/16/09 17:06		BOD
4138-01→09	10:15 KBG 4/16/09	17:10 KBG 4/16/09	From log-in	Anions
~~4025-01-30~~ 3251-21	KH 12:10 4/16/09	KH 12:30 4/16/09		Metals / Hg
4117-01-05, 4118-02-05	MS 10:15 4/16/09	ALL sample used		Exp
4136-01-09	MS 13:10 4/16/09	ALL sample used		Exp
4105-01	JC 4/16/09 13:11			NH_3
~~3265~~-01)	KH 3:15 4/16/09	4/16/09 4:03		~~Hg~~/metals
4077-01 4086-01-07 4086-01→04	JC 4/16/09 17:10	JC 4/16/09 21:05		NH_3
4101-01 ~~4105-01~~	↓	↓		↓
4109 01-02	↓	↓		↓

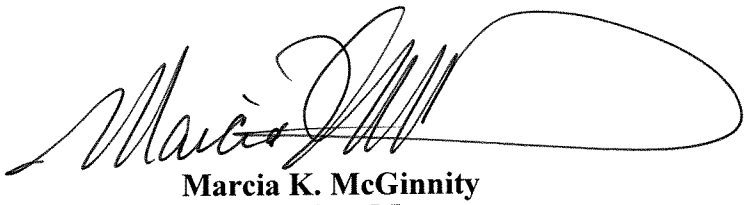
Analytical Report

Main Data Package – Organics

Tetra Tech NUS, Inc.

SDG #Mayport004

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

April 27, 2009
Revised May 18, 2009
by Christine Gramada

THIS DOCUMENT MEETS NELAC STANDARDS

NELAC Certification #TN473

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SDG #Mayport004

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ORGANIC CASE NARRATIVE
Tetra Tech NUS, Inc./NSA Mayport CTO050
SDG: Mayport004

Sampled	Received	Lab ID	Client ID
03/18/09	03/19/09	0903262-01	MPT-AOCF-SS14-0.5
03/18/09	03/19/09	0903262-02	MPT-AOCF-SS14-1.0
03/18/09	03/19/09	0903262-03	MPT-AOCF-SS15-0.5
03/18/09	03/19/09	0903262-04	MPT-AOCF-SS15-1.0
03/18/09	03/19/09	0903262-05	MPT-AOCF-SS16-0.5
03/18/09	03/19/09	0903262-06	MPT-AOCF-SS16-1.0
03/18/09	03/19/09	0903262-07	MPT-AOCF-SS17-0.5
03/18/09	03/19/09	0903262-08	MPT-AOCF-SS17-1.0
03/18/09	03/19/09	0903262-09	MPT-AOCF-SS18-0.5
03/18/09	03/19/09	0903262-10	MPT-AOCF-SS18-1.0
03/18/09	03/19/09	0903262-11	MPT-AOCF-SS19-0.5
03/18/09	03/19/09	0903262-12	MPT-AOCF-SS19-1.0
03/18/09	03/19/09	0903262-13	MPT-AOCF-SS20-0.5
03/18/09	03/19/09	0903262-14	MPT-AOCF-SS20-1.0
03/18/09	03/19/09	0903262-15	MPT-AOCF-SS21-0.5
03/18/09	03/19/09	0903262-16	MPT-AOCF-SS21-1.0
03/18/09	03/19/09	0903262-17	MPT-AOCF-SS22-0.5
03/18/09	03/19/09	0903262-18	MPT-AOCF-SS22-1.0
03/18/09	03/19/09	0903262-19	MPT-AOCF-SS23-0.5
03/18/09	03/19/09	0903262-20	MPT-AOCF-SS23-1.0
03/18/09	03/19/09	0903262-21	Trip Blank #5872
03/18/09	03/19/09	0903262-22	Trip Blank #6830
04/01/09	4/2/2009	0904026-01	MPT-AOC-F-MW1
03/30/09	4/2/2009	0904026-02	MPT-AOC-F-TRIPBLANK

Volatiles

Method: The samples were analyzed by USEPA SW-846 Methods 5030B/8260B (purge and trap then capillary column GC/MS) for waters or 5035B/8260B
(purge and trap followed by capillary column GC/MS) for solids upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The continuing calibration compounds 1,2-dichloropropane, chloroform, and 1,1-dichloroethene exceeded the 20% difference with a positive bias in the continuing calibration verification analyzed 3/29/09 at 2332. Evaluating all other compounds against the 20% difference limit (including the appendix IX CCV analyzed 3/30/09 at 0010), several analytes exceeded with positive and negative biases. Analytes exceeding with a negative bias were qualified "J1" in the associated samples for a potential negative bias. Analytes detected above the quantitation limit and exceeding limits with a positive bias are qualified "J2" for a potential positive bias in the associated samples.
- One or more analytes were detected at concentrations below ½ the quantitation limits in one or more of the method blanks. Reported concentrations in the associated samples are qualified with a "B".
- In spike sample V1BLK0329ELCS, 7 of 60 recoveries were below the acceptance limits. See form 3.
- In spike sample V3BLK0405LCS, 5 of 60 recoveries exceeded the acceptance limits with a positive bias. See form 3.

- In spike samples MPT-AOC-SS14-1.0MS/MSD, 9 of 60 relative percent differences and 18 of 120 recoveries were outside the acceptance limits. See form 3. Analysis of the MSD was started 12 hours 7 minutes after the associated tuning standard.

Semivolatile Samples

Method: The samples were analyzed by USEPA SW-846 Methods 3541/8270C or 3510C/8270C (automated soxhlet or separatory funnel extraction followed by capillary column GC/MS) for soils or waters upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Recovery of the surrogate phenol-d6 was below the limit of 15% at 14% in MPT-AOC-F-MW1. All other recoveries were within limits.
- In spike sample SBLK0320BS2LCS, 1 of 65 recoveries exceeded the established limits. In spike samples SBLK0403BW1LCS/LCSD, 3 of 132 recoveries and 14 of 66 relative percent differences were outside the established limits. See form 3.
- In spike samples MPT-AOCF-SS14-0.5MS/MSD, recoveries of aniline exceeded the limit of 110% at (96%)/124% while all other recoveries and relative percent differences were within limits.

Petroleum Range Organics

Method: The samples were analyzed by the Florida Petroleum Range Organics Method (FL-PRO, separatory funnel or sonication extraction followed by capillary column GC/FID) for waters or soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as the reporting limit (RL), is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

I: The presence of an "I" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL/RL.

L: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with a "L". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

V: The presence of a "V" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

J1: The reported analyte concentration may have a low bias as the CCV exceeded the limit on the low side.

J2: The reported analyte concentration may have a high bias as the CCV exceeded the limit on the high side.

M: The presence of an "M" to the right of an analytical result indicates that the sample matrix interfered with the quantitation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

I: The presence of an "I" to the right of an analytical result that the presence of a qualitative interference could have caused a false positive or over estimation of the analyte. In GC and HPLC, results are reported from the column with the lower concentration.

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0831 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00538	MPT / AOC-F	David Siefken	904-334-7260	Empirical Laboratory / J. Shilling
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS: 621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE: Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

09032622

	DATE (YEAR 2009)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
										PRESERVATIVE USED	—	—	—						
										TYPE OF ANALYSIS	RCRA METALS 6010 (Appendix IX)	TRPH - FL PRO	8270 BNA (Appendix IX)	8260 VOC (Appendix IX)					
-01	3/18	0910	MPT-AOC-F-SS14-0.5				SO	G	9	3	3	3							Cool to 4°C
-02	3/18	0915	MPT AOC F SS14 ~~0.5~~ 1.0				SO	G	12				12						
-03	3/18	0940	MPT AOC F-SS15-0.5				SO	G	3	1	1	1							MS/MSD = AOC-F-SS14
-04	3/18	0945	MPT AOC F-SS15-1.0				SO		4				4						
-05	3/18	0950	MPT AOC F SS16-~~1.0~~ 0.5				SO		3	1	1	1							
-06	3/18	0955	MPT AOC F SS16-1.0				SO		4				4						
-07	3/18	1000	MPT AOC F SS17 0.5				SO		3	1	1	1							
-08	3/18	1005	MPT AOC F SS17 1.0				SO		4				4						
-09	3/18	1010	MPT-AOC F SS18 0.5				SO		3	1	1	1							
-10	3/18	1015	MPT AOC F SS18 1.0				SO		4				4						
-11	3/18	1030	MPT AOC F SS19 0.5				SO		3	1	1	1							
-12	3/18	1035	MPT AOC F SS19 1.0				SO		4				4						

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 3-19-09	TIME 0900

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26404 | **PAGE** ___ **OF** ___

PROJECT NO: 112G00538	**FACILITY:** MPT / AOC-F	**PROJECT MANAGER** David Siefker	**PHONE NUMBER** 904-334-7260	**LABORATORY NAME AND CONTACT:** Empirical Lab / J Skilling
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS** 621 Mainstream Dr, Suite 280
		CARRIER/WAYBILL NUMBER		**CITY, STATE** Nashville, FL 37228

STANDARD TAT ☒ **RUSH TAT** ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

0903262

	DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: RCRA Metals 6010 (Appendix IX)	TRPH - FL Pro	8270 BNA (Appendix IX)	8260 VOC (Appendix IX)	COMMENTS
-13	3/18	1040	MPT-AOCF SS20 0.5				So	G	3			1	1	1		Ice to 4°C
-14	3/18	1045	MPT AOCF SS20 1.0				So	G	4						4	
-15	3/18	1050	MPT-AOCF SS21 0.5				So	G	3			1	1	1		
-16	3/18	1055	MPT AOCF SS21 1.0				So	G	4						4	
-17	3/18	1100	MPT AOCF SS22 0.5				So	G	3			1	1	1		
-18	3/18	1105	MPT AOCF SS22 1.0				So	G	4						4	
-19	3/18	1120	MPT AOCF SS23 0.5				So	G	3			1	1	1		
-20	3/18	1125	MPT AOCF SS23 1.0				So	G	4						4	
-21	3/18	1400	Trip Blank #5872				QC	QC	2						2	Liquid
-22	3/18	1408	Trip Blank 6830				QC	QC	2						2	

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 3-19-09	TIME 0900

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903262 Number of Coolers: 1 of 2

Client: TetraTech NUS Project: CTO-050

Date/Time Received: **03/19/09 09:00** Date cooler(s) opened: **03/19/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
   EL Courier Other: _____

If applicable, enter airbill number here: 2997

2. Were custody seals on outside of cooler(s)? ..... (Yes) No ?

How many: 2 Seal date: 3/18/09 Seal Initials: _____

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 0.5°C

Dates samples were logged-in: **03/19/09**

9. Initial this form to acknowledge login of sample(s): (Name): E.J. Overby (Initial): EJO

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
17. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903262 Number of Coolers: 2 of 2

Client: Tetra Tech NUS Project: CTO-050

Date/Time Received: **03/19/09 09:00** Date cooler(s) opened: **03/19/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2986

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/18/09 Seal Initials: T

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 1.8°C

Dates samples were logged-in: **03/19/09**

9. Initial this form to acknowledge login of sample(s): (Name): E.J. Overby (Initial): EJO

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
17. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

Sample Delivery Group Assignment Form

Matrix: Water / Soil.
QC LEVEL: Level III/EDD
Analyt. Due: 3/30/2009
Report Due: 4/2/2009 10BD TAT

Client: TetraTech NUS, Inc.
Project Name: NAS Mayport CTO050
SDG #: Mayport_004

Sample Type/count	Date Sampled	Date Received	Work Order	Client ID	VOA 8260B	SVOC 8270C	PRO	Metals 6010B
1	3/18/09 0:00	03/19/09	0903262-01	MPT-AOCF-SS14-0.5	X	X	X	X
2	3/18/09 0:00	03/19/09	0903262-02	MPT-AOCF-SS14-1.0	X			
3	3/18/09 0:00	03/19/09	0903262-03	MPT-AOCF-SS15-0.5	X	X	X	X
4	3/18/09 0:00	03/19/09	0903262-04	MPT-AOCF-SS15-1.0	X			
5	3/18/09 0:00	03/19/09	0903262-05	MPT-AOCF-SS16-0.5	X	X	X	X
6	3/18/09 0:00	03/19/09	0903262-06	MPT-AOCF-SS16-1.0	X			
7	3/18/09 0:00	03/19/09	0903262-07	MPT-AOCF-SS17-0.5	X	X	X	X
8	3/18/09 0:00	03/19/09	0903262-08	MPT-AOCF-SS17-1.0	X			
9	3/18/09 0:00	03/19/09	0903262-09	MPT-AOCF-SS18-0.5	X	X	X	X
10	3/18/09 0:00	03/19/09	0903262-10	MPT-AOCF-SS18-1.0	X			
11	3/18/09 0:00	03/19/09	0903262-11	MPT-AOCF-SS19-0.5	X	X	X	X
12	3/18/09 0:00	03/19/09	0903262-12	MPT-AOCF-SS19-1.0	X			
13	3/18/09 0:00	03/19/09	0903262-13	MPT-AOCF-SS20-0.5	X	X	X	X
14	3/18/09 0:00	03/19/09	0903262-14	MPT-AOCF-SS20-1.0	X			
15	3/18/09 0:00	03/19/09	0903262-15	MPT-AOCF-SS21-0.5	X	X	X	X
16	3/18/09 0:00	03/19/09	0903262-16	MPT-AOCF-SS21-1.0	X			
17	3/18/09 0:00	03/19/09	0903262-17	MPT-AOCF-SS22-0.5	X	X	X	X
18	3/18/09 0:00	03/19/09	0903262-18	MPT-AOCF-SS22-1.0	X			
19	3/18/09 0:00	03/19/09	0903262-19	MPT-AOCF-SS23-0.5	X	X	X	X
20	3/18/09 0:00	03/19/09	0903262-20	MPT-AOCF-SS23-1.0	X			
TB	3/18/09 0:00	03/19/09	0903262-21	Trip Blank #5872	X			
TB	3/18/09 0:00	03/19/09	0903262-22	Trip Blank #6830	X			

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF-SS14-1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-02

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 0326202A

Level: (low/med) LOW Date Sampled: 03/18/09 09:15

% Moisture: not dec. 3 Date Analyzed: 03/30/09 02:45

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.3	11	10	I
75-05-8	Acetonitrile	0.57	28		UJ1
107-02-8	Acrolein	5.9	11		U
107-13-1	Acrylonitrile	1.6	11		U
107-05-1	Allyl chloride	0.57	5.7		UJ1
71-43-2	Benzene	0.53	2.3	2.3	J2
75-27-4	Bromodichloromethane	0.34	2.3		U
75-25-2	Bromoform	1.1	2.3		U
74-83-9	Bromomethane	0.82	2.3		U
78-93-3	2-Butanone (methyl ethyl ket	1.6	5.7		U
75-15-0	Carbon disulfide	1.5	2.3		U
56-23-5	Carbon tetrachloride	1.0	2.3		U
108-90-7	Chlorobenzene	0.39	2.3		U
75-00-3	Chloroethane	1.2	2.3		U
67-66-3	Chloroform	0.62	2.3		U
74-87-3	Chloromethane	0.59	2.3		U
126-99-8	Chloroprene	0.57	5.7		UJ1
106-93-4	1,2-Dibromoethane	0.49	2.3		U
74-95-3	Dibromomethane	0.47	2.3		U
95-50-1	1,2-Dichlorobenzene	0.42	2.3		U
541-73-1	1,3-Dichlorobenzene	0.96	2.3		U
106-46-7	1,4-Dichlorobenzene	0.62	2.3		U
110-57-6	trans-1,4-Dichloro-2-butene	9.1	28		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.3		U
75-34-3	1,1-Dichloroethane	0.61	2.3		U
107-06-2	1,2-Dichloroethane	0.52	2.3		U
75-35-4	1,1-Dichloroethene	1.4	2.3		U
156-59-2	cis-1,2-Dichloroethene	1.4	2.3		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.3		U
78-87-5	1,2-Dichloropropane	0.52	2.3		U
10061-01-5	cis-1,3-Dichloropropene	0.57	2.3		U
10061-02-6	trans-1,3-Dichloropropene	0.36	2.3		U
123-91-1	1,4-Dioxane	0.57	57		UJ1
100-41-4	Ethylbenzene	0.85	2.3	2.3	
97-63-2	Ethyl methacrylate	0.30	5.7		U
591-78-6	2-Hexanone	2.6	5.7		U
74-88-4	Iodomethane	0.94	11		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF-SS14-1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-02

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 0326202A

Level: (low/med) LOW Date Sampled: 03/18/09 09:15

% Moisture: not dec. 3 Date Analyzed: 03/30/09 02:45

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.57	57		UJ1
126-98-7	Methacrylonitrile	0.57	28		UJ1
75-09-2	Methylene chloride	0.70	2.3	2.9	VJ2
80-62-6	Methyl methacrylate	0.51	5.7		U
108-10-1	4-Methyl-2-pentanone	0.66	5.7		U
107-12-0	Propionitrile	0.57	28		UJ1
100-42-5	Styrene	0.40	2.3		U
630-20-6	1,1,1,2-Tetrachloroethane	0.36	2.3		U
79-34-5	1,1,2,2-Tetrachloroethane	0.49	2.3		U
127-18-4	Tetrachloroethene	1.1	2.3		U
108-88-3	Toluene	0.98	2.3	1.8	I
120-82-1	1,2,4-Trichlorobenzene	0.20	2.3		U
71-55-6	1,1,1-Trichloroethane	1.0	2.3		U
79-00-5	1,1,2-Trichloroethane	0.40	2.3		U
79-01-6	Trichloroethene	0.97	2.3		U
75-69-4	Trichlorofluoromethane	1.1	2.3		U
96-18-4	1,2,3-Trichloropropane	0.80	2.3		U
75-01-4	Vinyl chloride	1.2	2.3		U
1330-20-7	Xylene(total)	0.80	5.7		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-04

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0326204A

Level: (low/med) LOW Date Sampled: 03/18/09 09:45

% Moisture: not dec. 4 Date Analyzed: 03/30/09 03:23

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11	15	J2
75-05-8	Acetonitrile	0.53	26		UJ1
107-02-8	Acrolein	5.5	11		U
107-13-1	Acrylonitrile	1.5	11		U
107-05-1	Allyl chloride	0.53	5.3		UJ1
71-43-2	Benzene	0.50	2.1	1.6	I
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		U
74-83-9	Bromomethane	0.76	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.3	14	J2
75-15-0	Carbon disulfide	1.4	2.1		U
56-23-5	Carbon tetrachloride	0.94	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.55	2.1		U
126-99-8	Chloroprene	0.53	5.3		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		U
106-93-4	1,2-Dibromoethane	0.46	2.1		U
74-95-3	Dibromomethane	0.44	2.1		U
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.89	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.5	26		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.57	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.53	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	0.53	53		UJ1
100-41-4	Ethylbenzene	0.80	2.1	1.5	I
97-63-2	Ethyl methacrylate	0.28	5.3		U
591-78-6	2-Hexanone	2.4	5.3		U
74-88-4	Iodomethane	0.88	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-04

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0326204A

Level: (low/med) LOW Date Sampled: 03/18/09 09:45

% Moisture: not dec. 4 Date Analyzed: 03/30/09 03:23

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.53	53		UJ1
126-98-7	Methacrylonitrile	0.53	26		UJ1
75-09-2	Methylene chloride	0.66	2.1	1.9	IV
80-62-6	Methyl methacrylate	0.48	5.3		U
108-10-1	4-Methyl-2-pentanone	0.62	5.3		U
107-12-0	Propionitrile	0.53	26		UJ1
100-42-5	Styrene	0.37	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.91	2.1	1.3	I
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.96	2.1		U
79-00-5	1,1,2-Trichloroethane	0.37	2.1		U
79-01-6	Trichloroethene	0.90	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.74	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
1330-20-7	Xylene(total)	0.74	5.3		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-06

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0326206A

Level: (low/med) LOW Date Sampled: 03/18/09 09:55

% Moisture: not dec. 3 Date Analyzed: 03/30/09 04:02

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	10	11	J2
75-05-8	Acetonitrile	0.52	26		UJ1
107-02-8	Acrolein	5.4	10		U
107-13-1	Acrylonitrile	1.5	10		U
107-05-1	Allyl chloride	0.52	5.2		UJ1
71-43-2	Benzene	0.49	2.1	4.6	J2
75-27-4	Bromodichloromethane	0.31	2.1		U
75-25-2	Bromoform	1.0	2.1		U
74-83-9	Bromomethane	0.75	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.2	15	J2
75-15-0	Carbon disulfide	1.4	2.1	2.6	
56-23-5	Carbon tetrachloride	0.92	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.58	2.1		U
74-87-3	Chloromethane	0.54	2.1		U
126-99-8	Chloroprene	0.52	5.2		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.1		U
106-93-4	1,2-Dibromoethane	0.45	2.1		U
74-95-3	Dibromomethane	0.43	2.1		U
95-50-1	1,2-Dichlorobenzene	0.39	2.1		U
541-73-1	1,3-Dichlorobenzene	0.88	2.1		U
106-46-7	1,4-Dichlorobenzene	0.58	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.4	26		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.56	2.1		U
107-06-2	1,2-Dichloroethane	0.48	2.1		U
75-35-4	1,1-Dichloroethene	1.2	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.48	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.52	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.33	2.1		U
123-91-1	1,4-Dioxane	0.52	52		UJ1
100-41-4	Ethylbenzene	0.78	2.1	3.1	
97-63-2	Ethyl methacrylate	0.27	5.2		U
591-78-6	2-Hexanone	2.4	5.2		U
74-88-4	Iodomethane	0.87	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-06

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0326206A

Level: (low/med) LOW Date Sampled: 03/18/09 09:55

% Moisture: not dec. 3 Date Analyzed: 03/30/09 04:02

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.52	52		UJ1
126-98-7	Methacrylonitrile	0.52	26		UJ1
75-09-2	Methylene chloride	0.65	2.1	1.3	IV
80-62-6	Methyl methacrylate	0.47	5.2		U
108-10-1	4-Methyl-2-pentanone	0.61	5.2		U
107-12-0	Propionitrile	0.52	26		UJ1
100-42-5	Styrene	0.36	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.33	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.90	2.1	2.1	I
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.94	2.1		U
79-00-5	1,1,2-Trichloroethane	0.36	2.1		U
79-01-6	Trichloroethene	0.89	2.1		U
75-69-4	Trichlorofluoromethane	0.99	2.1		U
96-18-4	1,2,3-Trichloropropane	0.73	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
1330-20-7	Xylene(total)	0.73	5.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-08

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0326208A

Level: (low/med) LOW Date Sampled: 03/18/09 10:05

% Moisture: not dec. 6 Date Analyzed: 03/30/09 04:40

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.2	11	14	J2
75-05-8	Acetonitrile	0.55	28		UJ1
107-02-8	Acrolein	5.8	11		U
107-13-1	Acrylonitrile	1.5	11		U
107-05-1	Allyl chloride	0.55	5.5		UJ1
71-43-2	Benzene	0.52	2.2	2.6	J2
75-27-4	Bromodichloromethane	0.33	2.2		U
75-25-2	Bromoform	1.1	2.2		U
74-83-9	Bromomethane	0.80	2.2		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.5		U
75-15-0	Carbon disulfide	1.4	2.2	2.2	I
56-23-5	Carbon tetrachloride	0.97	2.2		U
108-90-7	Chlorobenzene	0.38	2.2		U
75-00-3	Chloroethane	1.2	2.2		U
67-66-3	Chloroform	0.61	2.2		U
74-87-3	Chloromethane	0.58	2.2		U
126-99-8	Chloroprene	0.55	5.5		UJ1
124-48-1	Dibromochloromethane	0.38	2.2		U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.2		U
106-93-4	1,2-Dibromoethane	0.48	2.2		U
74-95-3	Dibromomethane	0.45	2.2		U
95-50-1	1,2-Dichlorobenzene	0.41	2.2		U
541-73-1	1,3-Dichlorobenzene	0.93	2.2		U
106-46-7	1,4-Dichlorobenzene	0.61	2.2		U
110-57-6	trans-1,4-Dichloro-2-butene	8.8	28		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.2		U
75-34-3	1,1-Dichloroethane	0.60	2.2		U
107-06-2	1,2-Dichloroethane	0.51	2.2		U
75-35-4	1,1-Dichloroethene	1.3	2.2		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.2		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.2		U
78-87-5	1,2-Dichloropropane	0.51	2.2		U
10061-01-5	cis-1,3-Dichloropropene	0.55	2.2		U
10061-02-6	trans-1,3-Dichloropropene	0.35	2.2		U
123-91-1	1,4-Dioxane	0.55	55		UJ1
100-41-4	Ethylbenzene	0.83	2.2	5.0	
97-63-2	Ethyl methacrylate	0.29	5.5		U
591-78-6	2-Hexanone	2.5	5.5		U
74-88-4	Iodomethane	0.92	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-08

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0326208A

Level: (low/med) LOW Date Sampled: 03/18/09 10:05

% Moisture: not dec. 6 Date Analyzed: 03/30/09 04:40

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.55	55		UJ1
126-98-7	Methacrylonitrile	0.55	28		UJ1
75-09-2	Methylene chloride	0.68	2.2	1.4	IV
80-62-6	Methyl methacrylate	0.50	5.5		U
108-10-1	4-Methyl-2-pentanone	0.64	5.5		U
107-12-0	Propionitrile	0.55	28		UJ1
100-42-5	Styrene	0.39	2.2		U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	2.2		U
79-34-5	1,1,2,2-Tetrachloroethane	0.48	2.2		U
127-18-4	Tetrachloroethene	1.1	2.2		U
108-88-3	Toluene	0.95	2.2	2.8	
120-82-1	1,2,4-Trichlorobenzene	0.20	2.2		U
71-55-6	1,1,1-Trichloroethane	1.00	2.2		U
79-00-5	1,1,2-Trichloroethane	0.39	2.2		U
79-01-6	Trichloroethene	0.94	2.2		U
75-69-4	Trichlorofluoromethane	1.0	2.2		U
96-18-4	1,2,3-Trichloropropane	0.77	2.2		U
75-01-4	Vinyl chloride	1.2	2.2		U
1330-20-7	Xylene(total)	0.77	5.5		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-10

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0326210A

Level: (low/med) LOW Date Sampled: 03/18/09 10:15

% Moisture: not dec. 12 Date Analyzed: 03/30/09 05:19

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.2	11	21	J2
75-05-8	Acetonitrile	0.54	27		UJ1
107-02-8	Acrolein	5.6	11		U
107-13-1	Acrylonitrile	1.5	11		U
107-05-1	Allyl chloride	0.54	5.4		UJ1
71-43-2	Benzene	0.51	2.2	2.6	J2
75-27-4	Bromodichloromethane	0.32	2.2		U
75-25-2	Bromoform	1.1	2.2		U
74-83-9	Bromomethane	0.78	2.2		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.4		U
75-15-0	Carbon disulfide	1.4	2.2	3.2	
56-23-5	Carbon tetrachloride	0.95	2.2		U
108-90-7	Chlorobenzene	0.37	2.2		U
75-00-3	Chloroethane	1.2	2.2		U
67-66-3	Chloroform	0.59	2.2		U
74-87-3	Chloromethane	0.56	2.2		U
126-99-8	Chloroprene	0.54	5.4		UJ1
124-48-1	Dibromochloromethane	0.37	2.2		U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.2		U
106-93-4	1,2-Dibromoethane	0.46	2.2		U
74-95-3	Dibromomethane	0.44	2.2		U
95-50-1	1,2-Dichlorobenzene	0.40	2.2		U
541-73-1	1,3-Dichlorobenzene	0.91	2.2		U
106-46-7	1,4-Dichlorobenzene	0.59	2.2		U
110-57-6	trans-1,4-Dichloro-2-butene	8.6	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.2		U
75-34-3	1,1-Dichloroethane	0.58	2.2		U
107-06-2	1,2-Dichloroethane	0.50	2.2		U
75-35-4	1,1-Dichloroethene	1.3	2.2		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.2		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.2		U
78-87-5	1,2-Dichloropropane	0.50	2.2		U
10061-01-5	cis-1,3-Dichloropropene	0.54	2.2		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.2		U
123-91-1	1,4-Dioxane	0.54	54		UJ1
100-41-4	Ethylbenzene	0.81	2.2	5.1	
97-63-2	Ethyl methacrylate	0.28	5.4		U
591-78-6	2-Hexanone	2.5	5.4		U
74-88-4	Iodomethane	0.90	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-10

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0326210A

Level: (low/med) LOW Date Sampled: 03/18/09 10:15

% Moisture: not dec. 12 Date Analyzed: 03/30/09 05:19

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.54	54		UJ1
126-98-7	Methacrylonitrile	0.54	27		UJ1
75-09-2	Methylene chloride	0.67	2.2	2.3	VJ2
80-62-6	Methyl methacrylate	0.48	5.4		UJ1
108-10-1	4-Methyl-2-pentanone	0.63	5.4		U
107-12-0	Propionitrile	0.54	27		U
100-42-5	Styrene	0.38	2.2		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.2		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.2		U
127-18-4	Tetrachloroethene	1.0	2.2		U
108-88-3	Toluene	0.93	2.2	2.5	
120-82-1	1,2,4-Trichlorobenzene	0.19	2.2		U
71-55-6	1,1,1-Trichloroethane	0.97	2.2		U
79-00-5	1,1,2-Trichloroethane	0.38	2.2		U
79-01-6	Trichloroethene	0.92	2.2		U
75-69-4	Trichlorofluoromethane	1.0	2.2		U
96-18-4	1,2,3-Trichloropropane	0.76	2.2		U
75-01-4	Vinyl chloride	1.2	2.2		U
1330-20-7	Xylene(total)	0.76	5.4		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-12

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0326212A

Level: (low/med) LOW Date Sampled: 03/18/09 10:35

% Moisture: not dec. 4 Date Analyzed: 03/30/09 05:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.1	11	14	J2
75-05-8	Acetonitrile	0.54	27		UJ1
107-02-8	Acrolein	5.6	11		U
107-13-1	Acrylonitrile	1.5	11		U
107-05-1	Allyl chloride	0.54	5.4		UJ1
71-43-2	Benzene	0.50	2.1	1.4	I
75-27-4	Bromodichloromethane	0.32	2.1		U
75-25-2	Bromoform	1.1	2.1		U
74-83-9	Bromomethane	0.77	2.1		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.4		U
75-15-0	Carbon disulfide	1.4	2.1	2.0	I
56-23-5	Carbon tetrachloride	0.94	2.1		U
108-90-7	Chlorobenzene	0.36	2.1		U
75-00-3	Chloroethane	1.2	2.1		U
67-66-3	Chloroform	0.59	2.1		U
74-87-3	Chloromethane	0.56	2.1		U
126-99-8	Chloroprene	0.54	5.4		UJ1
124-48-1	Dibromochloromethane	0.36	2.1		U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.1		U
106-93-4	1,2-Dibromoethane	0.46	2.1		U
74-95-3	Dibromomethane	0.44	2.1		U
95-50-1	1,2-Dichlorobenzene	0.40	2.1		U
541-73-1	1,3-Dichlorobenzene	0.90	2.1		U
106-46-7	1,4-Dichlorobenzene	0.59	2.1		U
110-57-6	trans-1,4-Dichloro-2-butene	8.6	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.1		U
75-34-3	1,1-Dichloroethane	0.58	2.1		U
107-06-2	1,2-Dichloroethane	0.49	2.1		U
75-35-4	1,1-Dichloroethene	1.3	2.1		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.1		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.1		U
78-87-5	1,2-Dichloropropane	0.49	2.1		U
10061-01-5	cis-1,3-Dichloropropene	0.54	2.1		U
10061-02-6	trans-1,3-Dichloropropene	0.34	2.1		U
123-91-1	1,4-Dioxane	0.54	54		UJ1
100-41-4	Ethylbenzene	0.81	2.1	2.8	
97-63-2	Ethyl methacrylate	0.28	5.4		U
591-78-6	2-Hexanone	2.5	5.4		U
74-88-4	Iodomethane	0.89	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-12

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0326212A

Level: (low/med) LOW Date Sampled: 03/18/09 10:35

% Moisture: not dec. 4 Date Analyzed: 03/30/09 05:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.54	54		UJ1
126-98-7	Methacrylonitrile	0.54	27		UJ1
75-09-2	Methylene chloride	0.67	2.1	2.0	IV
80-62-6	Methyl methacrylate	0.48	5.4		U
108-10-1	4-Methyl-2-pentanone	0.62	5.4		U
107-12-0	Propionitrile	0.54	27		UJ1
100-42-5	Styrene	0.38	2.1		U
630-20-6	1,1,1,2-Tetrachloroethane	0.34	2.1		U
79-34-5	1,1,2,2-Tetrachloroethane	0.46	2.1		U
127-18-4	Tetrachloroethene	1.0	2.1		U
108-88-3	Toluene	0.92	2.1	1.8	I
120-82-1	1,2,4-Trichlorobenzene	0.19	2.1		U
71-55-6	1,1,1-Trichloroethane	0.97	2.1		U
79-00-5	1,1,2-Trichloroethane	0.38	2.1		U
79-01-6	Trichloroethene	0.91	2.1		U
75-69-4	Trichlorofluoromethane	1.0	2.1		U
96-18-4	1,2,3-Trichloropropane	0.75	2.1		U
75-01-4	Vinyl chloride	1.2	2.1		U
1330-20-7	Xylene(total)	0.75	5.4		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-14

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0326214A

Level: (low/med) LOW Date Sampled: 03/18/09 10:45

% Moisture: not dec. 3 Date Analyzed: 03/30/09 06:35

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) A VIAL

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.2	11	11	J2
75-05-8	Acetonitrile	0.55	27		UJ1
107-02-8	Acrolein	5.7	11		U
107-13-1	Acrylonitrile	1.5	11		U
107-05-1	Allyl chloride	0.55	5.5		UJ1
71-43-2	Benzene	0.51	2.2	1.4	I
75-27-4	Bromodichloromethane	0.33	2.2		U
75-25-2	Bromoform	1.1	2.2		U
74-83-9	Bromomethane	0.79	2.2		U
78-93-3	2-Butanone (methyl ethyl ket	1.5	5.5		U
75-15-0	Carbon disulfide	1.4	2.2	3.0	
56-23-5	Carbon tetrachloride	0.96	2.2		U
108-90-7	Chlorobenzene	0.37	2.2		U
75-00-3	Chloroethane	1.2	2.2		U
67-66-3	Chloroform	0.60	2.2		U
74-87-3	Chloromethane	0.57	2.2		U
126-99-8	Chloroprene	0.55	5.5		UJ1
124-48-1	Dibromochloromethane	0.37	2.2		U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	2.2		U
106-93-4	1,2-Dibromoethane	0.47	2.2		U
74-95-3	Dibromomethane	0.45	2.2		U
95-50-1	1,2-Dichlorobenzene	0.40	2.2		U
541-73-1	1,3-Dichlorobenzene	0.92	2.2		U
106-46-7	1,4-Dichlorobenzene	0.60	2.2		U
110-57-6	trans-1,4-Dichloro-2-butene	8.8	27		UJ1
75-71-8	Dichlorodifluoromethane	1.2	2.2		U
75-34-3	1,1-Dichloroethane	0.59	2.2		U
107-06-2	1,2-Dichloroethane	0.50	2.2		U
75-35-4	1,1-Dichloroethene	1.3	2.2		U
156-59-2	cis-1,2-Dichloroethene	1.3	2.2		U
156-60-5	trans-1,2-Dichloroethene	1.2	2.2		U
78-87-5	1,2-Dichloropropane	0.50	2.2		U
10061-01-5	cis-1,3-Dichloropropene	0.55	2.2		U
10061-02-6	trans-1,3-Dichloropropene	0.35	2.2		U
123-91-1	1,4-Dioxane	0.55	55		UJ1
100-41-4	Ethylbenzene	0.82	2.2	5.7	
97-63-2	Ethyl methacrylate	0.28	5.5		U
591-78-6	2-Hexanone	2.5	5.5		U
74-88-4	Iodomethane	0.91	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-14

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0326214A

Level: (low/med) LOW Date Sampled: 03/18/09 10:45

% Moisture: not dec. 3 Date Analyzed: 03/30/09 06:35

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO.	COMPOUND	MDL	RL	CONC	A VIAL Q
78-83-1	Isobutyl alcohol	0.55	55		UJ1
126-98-7	Methacrylonitrile	0.55	27		UJ1
75-09-2	Methylene chloride	0.68	2.2	1.6	IV
80-62-6	Methyl methacrylate	0.49	5.5		U
108-10-1	4-Methyl-2-pentanone	0.64	5.5		UJ1
107-12-0	Propionitrile	0.55	27		U
100-42-5	Styrene	0.38	2.2		U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	2.2		U
79-34-5	1,1,2,2-Tetrachloroethane	0.47	2.2		U
127-18-4	Tetrachloroethene	1.1	2.2		U
108-88-3	Toluene	0.94	2.2	2.3	
120-82-1	1,2,4-Trichlorobenzene	0.20	2.2		U
71-55-6	1,1,1-Trichloroethane	0.99	2.2		U
79-00-5	1,1,2-Trichloroethane	0.38	2.2		U
79-01-6	Trichloroethene	0.93	2.2		U
75-69-4	Trichlorofluoromethane	1.0	2.2		U
96-18-4	1,2,3-Trichloropropane	0.77	2.2		U
75-01-4	Vinyl chloride	1.2	2.2		U
1330-20-7	Xylene(total)	0.77	5.5		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-16

Sample wt/vol: 4.6 (g/mL) G Lab File ID: 0326216A

Level: (low/med) LOW Date Sampled: 03/18/09 10:55

% Moisture: not dec. 6 Date Analyzed: 03/30/09 07:14

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) A VIAL

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.3	11		U
75-05-8	Acetonitrile	0.57	29		UJ1
107-02-8	Acrolein	6.0	11		U
107-13-1	Acrylonitrile	1.6	11		U
107-05-1	Allyl chloride	0.57	5.7		UJ1
71-43-2	Benzene	0.54	2.3	1.5	I
75-27-4	Bromodichloromethane	0.34	2.3		U
75-25-2	Bromoform	1.1	2.3		U
74-83-9	Bromomethane	0.83	2.3		U
78-93-3	2-Butanone (methyl ethyl ket	1.6	5.7		U
75-15-0	Carbon disulfide	1.5	2.3	4.4	
56-23-5	Carbon tetrachloride	1.0	2.3		U
108-90-7	Chlorobenzene	0.39	2.3		U
75-00-3	Chloroethane	1.3	2.3		U
67-66-3	Chloroform	0.63	2.3		U
74-87-3	Chloromethane	0.60	2.3		U
126-99-8	Chloroprene	0.57	5.7		UJ1
124-48-1	Dibromochloromethane	0.39	2.3		U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	2.3		U
106-93-4	1,2-Dibromoethane	0.49	2.3		U
74-95-3	Dibromomethane	0.47	2.3		U
95-50-1	1,2-Dichlorobenzene	0.42	2.3		U
541-73-1	1,3-Dichlorobenzene	0.96	2.3		U
106-46-7	1,4-Dichlorobenzene	0.63	2.3		U
110-57-6	trans-1,4-Dichloro-2-butene	9.2	29		UJ1
75-71-8	Dichlorodifluoromethane	1.3	2.3		U
75-34-3	1,1-Dichloroethane	0.62	2.3		U
107-06-2	1,2-Dichloroethane	0.53	2.3		U
75-35-4	1,1-Dichloroethene	1.4	2.3		U
156-59-2	cis-1,2-Dichloroethene	1.4	2.3		U
156-60-5	trans-1,2-Dichloroethene	1.3	2.3		U
78-87-5	1,2-Dichloropropane	0.53	2.3		U
10061-01-5	cis-1,3-Dichloropropene	0.57	2.3		U
10061-02-6	trans-1,3-Dichloropropene	0.37	2.3		U
123-91-1	1,4-Dioxane	0.57	57		UJ1
100-41-4	Ethylbenzene	0.86	2.3	1.7	I
97-63-2	Ethyl methacrylate	0.30	5.7		U
591-78-6	2-Hexanone	2.6	5.7		U
74-88-4	Iodomethane	0.95	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-16

Sample wt/vol: 4.6 (g/mL) G Lab File ID: 0326216A

Level: (low/med) LOW Date Sampled: 03/18/09 10:55

% Moisture: not dec. 6 Date Analyzed: 03/30/09 07:14

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO.	COMPOUND	MDL	RL	CONC	A VIAL Q
78-83-1	Isobutyl alcohol	0.57	57		UJ1
126-98-7	Methacrylonitrile	0.57	29		UJ1
75-09-2	Methylene chloride	0.71	2.3	3.5	VJ2
80-62-6	Methyl methacrylate	0.52	5.7		U
108-10-1	4-Methyl-2-pentanone	0.66	5.7		U
107-12-0	Propionitrile	0.57	29		UJ1
100-42-5	Styrene	0.40	2.3		U
630-20-6	1,1,1,2-Tetrachloroethane	0.37	2.3		U
79-34-5	1,1,2,2-Tetrachloroethane	0.49	2.3		U
127-18-4	Tetrachloroethene	1.1	2.3		U
108-88-3	Toluene	0.99	2.3	1.7	I
120-82-1	1,2,4-Trichlorobenzene	0.21	2.3		U
71-55-6	1,1,1-Trichloroethane	1.0	2.3		U
79-00-5	1,1,2-Trichloroethane	0.40	2.3		U
79-01-6	Trichloroethene	0.98	2.3		U
75-69-4	Trichlorofluoromethane	1.1	2.3		U
96-18-4	1,2,3-Trichloropropane	0.80	2.3		U
75-01-4	Vinyl chloride	1.3	2.3		U
1330-20-7	Xylene(total)	0.80	5.7		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-18

Sample wt/vol: 4.2 (g/mL) G Lab File ID: 0326218A

Level: (low/med) LOW Date Sampled: 03/18/09 11:05

% Moisture: not dec. 4 Date Analyzed: 03/30/09 07:53

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) A VIAL

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.5	12	18	J2
75-05-8	Acetonitrile	0.62	31		UJ1
107-02-8	Acrolein	6.4	12		U
107-13-1	Acrylonitrile	1.7	12		U
107-05-1	Allyl chloride	0.62	6.2		UJ1
71-43-2	Benzene	0.58	2.5	0.59	I
75-27-4	Bromodichloromethane	0.37	2.5		U
75-25-2	Bromoform	1.2	2.5		U
74-83-9	Bromomethane	0.89	2.5		U
78-93-3	2-Butanone (methyl ethyl ket	1.7	6.2	17	J2
75-15-0	Carbon disulfide	1.6	2.5		U
56-23-5	Carbon tetrachloride	1.1	2.5		U
108-90-7	Chlorobenzene	0.42	2.5		U
75-00-3	Chloroethane	1.4	2.5		U
67-66-3	Chloroform	0.68	2.5		U
74-87-3	Chloromethane	0.64	2.5		U
126-99-8	Chloroprene	0.62	6.2		UJ1
124-48-1	Dibromochloromethane	0.42	2.5		U
96-12-8	1,2-Dibromo-3-chloropropane	1.5	2.5		U
106-93-4	1,2-Dibromoethane	0.53	2.5		U
74-95-3	Dibromomethane	0.51	2.5		U
95-50-1	1,2-Dichlorobenzene	0.46	2.5		U
541-73-1	1,3-Dichlorobenzene	1.0	2.5		U
106-46-7	1,4-Dichlorobenzene	0.68	2.5		U
110-57-6	trans-1,4-Dichloro-2-butene	9.9	31		UJ1
75-71-8	Dichlorodifluoromethane	1.4	2.5		U
75-34-3	1,1-Dichloroethane	0.67	2.5		U
107-06-2	1,2-Dichloroethane	0.57	2.5		U
75-35-4	1,1-Dichloroethene	1.5	2.5		U
156-59-2	cis-1,2-Dichloroethene	1.5	2.5		U
156-60-5	trans-1,2-Dichloroethene	1.4	2.5		U
78-87-5	1,2-Dichloropropane	0.57	2.5		U
10061-01-5	cis-1,3-Dichloropropene	0.62	2.5		U
10061-02-6	trans-1,3-Dichloropropene	0.40	2.5		U
123-91-1	1,4-Dioxane	0.62	62		UJ1
100-41-4	Ethylbenzene	0.93	2.5	1.5	I
97-63-2	Ethyl methacrylate	0.32	6.2		U
591-78-6	2-Hexanone	2.8	6.2		U
74-88-4	Iodomethane	1.0	12		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-18

Sample wt/vol: 4.2 (g/mL) G Lab File ID: 0326218A

Level: (low/med) LOW Date Sampled: 03/18/09 11:05

% Moisture: not dec. 4 Date Analyzed: 03/30/09 07:53

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO.	COMPOUND	MDL	RL	CONC	A VIAL Q
78-83-1	Isobutyl alcohol	0.62	62		UJ1
126-98-7	Methacrylonitrile	0.62	31		UJ1
75-09-2	Methylene chloride	0.76	2.5	0.77	IV
80-62-6	Methyl methacrylate	0.56	6.2		U
108-10-1	4-Methyl-2-pentanone	0.72	6.2		U
107-12-0	Propionitrile	0.62	31		UJ1
100-42-5	Styrene	0.43	2.5		U
630-20-6	1,1,1,2-Tetrachloroethane	0.40	2.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.53	2.5		U
127-18-4	Tetrachloroethene	1.2	2.5		U
108-88-3	Toluene	1.1	2.5		U
120-82-1	1,2,4-Trichlorobenzene	0.22	2.5		U
71-55-6	1,1,1-Trichloroethane	1.1	2.5		U
79-00-5	1,1,2-Trichloroethane	0.43	2.5		U
79-01-6	Trichloroethene	1.0	2.5		U
75-69-4	Trichlorofluoromethane	1.2	2.5		U
96-18-4	1,2,3-Trichloropropane	0.86	2.5		U
75-01-4	Vinyl chloride	1.4	2.5		U
1330-20-7	Xylene(total)	0.86	6.2		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-20

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0326220A

Level: (low/med) LOW Date Sampled: 03/18/09 11:25

% Moisture: not dec. 7 Date Analyzed: 03/30/09 08:31

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO.	COMPOUND	MDL	RL	CONC	A VIAL Q
67-64-1	Acetone	2.3	11	10	I
75-05-8	Acetonitrile	0.57	29		UJ1
107-02-8	Acrolein	6.0	11		U
107-13-1	Acrylonitrile	1.6	11		U
107-05-1	Allyl chloride	0.57	5.7		UJ1
71-43-2	Benzene	0.54	2.3	1.1	I
75-27-4	Bromodichloromethane	0.34	2.3		U
75-25-2	Bromoform	1.1	2.3		U
74-83-9	Bromomethane	0.83	2.3		U
78-93-3	2-Butanone (methyl ethyl ket	1.6	5.7		U
75-15-0	Carbon disulfide	1.5	2.3	2.8	
56-23-5	Carbon tetrachloride	1.0	2.3		U
108-90-7	Chlorobenzene	0.39	2.3		U
75-00-3	Chloroethane	1.3	2.3		U
67-66-3	Chloroform	0.63	2.3		U
74-87-3	Chloromethane	0.60	2.3		U
126-99-8	Chloroprene	0.57	5.7		UJ1
124-48-1	Dibromochloromethane	0.39	2.3		U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	2.3		U
106-93-4	1,2-Dibromoethane	0.49	2.3		U
74-95-3	Dibromomethane	0.47	2.3		U
95-50-1	1,2-Dichlorobenzene	0.42	2.3		U
541-73-1	1,3-Dichlorobenzene	0.96	2.3		U
106-46-7	1,4-Dichlorobenzene	0.63	2.3		U
110-57-6	trans-1,4-Dichloro-2-butene	9.2	29		UJ1
75-71-8	Dichlorodifluoromethane	1.3	2.3		U
75-34-3	1,1-Dichloroethane	0.62	2.3		U
107-06-2	1,2-Dichloroethane	0.53	2.3		U
75-35-4	1,1-Dichloroethene	1.4	2.3		U
156-59-2	cis-1,2-Dichloroethene	1.4	2.3		U
156-60-5	trans-1,2-Dichloroethene	1.3	2.3		U
78-87-5	1,2-Dichloropropane	0.53	2.3		U
10061-01-5	cis-1,3-Dichloropropene	0.57	2.3		U
10061-02-6	trans-1,3-Dichloropropene	0.37	2.3		U
123-91-1	1,4-Dioxane	0.57	57		UJ1
100-41-4	Ethylbenzene	0.86	2.3	1.7	I
97-63-2	Ethyl methacrylate	0.30	5.7		U
591-78-6	2-Hexanone	2.6	5.7		U
74-88-4	Iodomethane	0.95	11		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-1.0

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-20

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0326220A

Level: (low/med) LOW Date Sampled: 03/18/09 11:25

% Moisture: not dec. 7 Date Analyzed: 03/30/09 08:31

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg)

CAS NO.	COMPOUND	MDL	RL	CONC	A VIAL Q
78-83-1	Isobutyl alcohol	0.57	57		UJ1
126-98-7	Methacrylonitrile	0.57	29		UJ1
75-09-2	Methylene chloride	0.71	2.3	1.9	IV
80-62-6	Methyl methacrylate	0.52	5.7		U
108-10-1	4-Methyl-2-pentanone	0.66	5.7		U
107-12-0	Propionitrile	0.57	29		UJ1
100-42-5	Styrene	0.40	2.3		U
630-20-6	1,1,1,2-Tetrachloroethane	0.37	2.3		U
79-34-5	1,1,2,2-Tetrachloroethane	0.49	2.3		U
127-18-4	Tetrachloroethene	1.1	2.3		U
108-88-3	Toluene	0.99	2.3	1.3	I
120-82-1	1,2,4-Trichlorobenzene	0.21	2.3		U
71-55-6	1,1,1-Trichloroethane	1.0	2.3		U
79-00-5	1,1,2-Trichloroethane	0.40	2.3		U
79-01-6	Trichloroethene	0.98	2.3		U
75-69-4	Trichlorofluoromethane	1.1	2.3		U
96-18-4	1,2,3-Trichloropropane	0.80	2.3		U
75-01-4	Vinyl chloride	1.3	2.3		U
1330-20-7	Xylene(total)	0.80	5.7		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TRIP BLA
NK# 5872

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0903262-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0326221

Level: (low/med) LOW Date Sampled: 03/18/09 14:00

% Moisture: not dec. _____ Date Analyzed: 03/29/09 16:29

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		U
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0	0.90	I
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0	0.86	I
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0	0.67	I
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK# 5872

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0903262-21

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0326221

Level: (low/med) LOW Date Sampled: 03/18/09 14:00

% Moisture: not dec. _____ Date Analyzed: 03/29/09 16:29

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		U
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50	2.0	
127-18-4	Tetrachloroethene	0.16	2.0	0.42	I
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		U
79-01-6	Trichloroethene	0.50	2.0	7.6	
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK# 6830

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0903262-22

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0326222

Level: (low/med) LOW Date Sampled: 03/18/09 14:08

% Moisture: not dec. _____ Date Analyzed: 03/29/09 15:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		U
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0	0.93	I
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0	0.91	I
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0	0.76	I
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK# 6830

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0903262-22

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0326222

Level: (low/med) LOW Date Sampled: 03/18/09 14:08

% Moisture: not dec. _____ Date Analyzed: 03/29/09 15:31

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		U
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50	1.9	
127-18-4	Tetrachloroethene	0.16	2.0	0.43	I
108-88-3	Toluene	0.14	2.0	0.22	I
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		U
79-01-6	Trichloroethene	0.50	2.0	7.6	
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402601

Level: (low/med) LOW Date Sampled: 04/01/09 11:23

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402601

Level: (low/med) LOW Date Sampled: 04/01/09 11:23

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:57

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0		U
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0		U
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOC-F
-TRIPBLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402602

Level: (low/med) LOW Date Sampled: 03/30/09 14:30

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10	1.6	I
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0	0.11	I
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOC-F
-TRIPBLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0402602

Level: (low/med) LOW Date Sampled: 03/30/09 14:30

% Moisture: not dec. _____ Date Analyzed: 04/05/09 13:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0	1.6	I
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0	0.33	I
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0	0.12	IV
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0	0.38	I

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V1BLK0329ELC	100	104	104	101	0
02	V1BLK0329E	101	105	111	99	0
03	MPT-AOCF-SS1	104	112	102	97	0
04	MPT-AOCF-SS1	106	121	104	98	0
05	MPT-AOCF-SS1	103	112	100	96	0
06	MPT-AOCF-SS1	104	113	102	98	0
07	MPT-AOCF-SS1	104	117	103	97	0
08	MPT-AOCF-SS1	107	116	102	98	0
09	MPT-AOCF-SS2	106	119	103	100	0
10	MPT-AOCF-SS2	106	119	102	100	0
11	MPT-AOCF-SS2	112	125	100	99	0
12	MPT-AOCF-SS2	104	115	104	101	0
13	MPT-AOCF-SS1	102	100	99	103	0
14	MPT-AOCF-SS1	104	107	96	100	0
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29						
30						

		EL QC LIMITS	SPIKE CONC (A VIAL MSD)
SMC1 (DFM)	= Dibromofluoromethane	(80-125)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(75-140)	30
SMC3 (TOL)	= Toluene-d8	(80-120)	30
SMC4 (BFB)	= Bromofluorobenzene	(80-125)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V4BLK0328LCS	105	102	97	99	0
02	V4BLK0328	101	96	98	100	0
03	TRIP BLANK#	109	102	100	99	0
04	TRIP BLANK#	105	96	96	92	0
05	V3BLK0405LCS	106	103	98	104	0
06	V3BLK0405	111	104	101	103	0
07	MPT-AOC-F-TR	114	106	102	110	0
08	MPT-AOC-F-MW	110	100	102	103	0
09						
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		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1	(DFM) = Dibromofluoromethane	(85-120)	30
SMC2	(DCE) = 1,2-Dichloroethane-d4	(80-135)	30
SMC3	(TOL) = Toluene-d8	(85-115)	30
SMC4	(BFB) = Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (A VIAL	MS % REC #	QC. LIMITS REC.
Acetone	114.0	10.13	84.33	65	20-160
Acetonitrile	570.2	0.0000	190.4	33*	50-150
Acrolein	285.1	0.0000	172.2	60	10-150
Acrylonitrile	285.1	0.0000	272.0	95	35-180
Allyl chloride	57.02	0.0000	17.33	30*	50-150
Benzene	57.02	2.292	51.23	86	75-125
Bromodichloromethane	57.02	0.0000	53.83	94	70-130
Bromoform	57.02	0.0000	57.36	100	55-135
Bromomethane	57.02	0.0000	42.31	74	30-160
2-Butanone (methyl ethy	114.0	0.0000	85.67	75	30-160
Carbon disulfide	57.02	0.0000	47.92	84	45-160
Carbon tetrachloride	57.02	0.0000	44.09	77	65-135
Chlorobenzene	57.02	0.0000	47.98	84	75-125
Chloroethane	57.02	0.0000	42.58	75	40-155
Chloroform	57.02	0.0000	46.34	81	70-125
Chloromethane	57.02	0.0000	43.06	76	50-130
Chloroprene	57.02	0.0000	19.11	34*	50-150
Dibromochloromethane	57.02	0.0000	58.04	102	65-130
1,2-Dibromo-3-chloropro	57.02	0.0000	66.83	117	40-135
1,2-Dibromoethane	57.02	0.0000	60.42	106	70-125
Dibromomethane	57.02	0.0000	53.63	94	75-130
1,2-Dichlorobenzene	57.02	0.0000	46.14	81	75-120
1,3-Dichlorobenzene	57.02	0.0000	41.00	72	70-125
1,4-Dichlorobenzene	57.02	0.0000	42.92	75	70-125
trans-1,4-Dichloro-2-bu	57.02	0.0000	18.14	32*	50-150
Dichlorodifluoromethane	57.02	0.0000	48.54	85	35-135
1,1-Dichloroethane	57.02	0.0000	47.21	83	75-125
1,2-Dichloroethane	57.02	0.0000	55.40	97	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (A VIAL	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	57.02	0.0000	43.34	76	65-135
cis-1,2-Dichloroethene	57.02	0.0000	48.64	85	65-125
trans-1,2-Dichloroethen	57.02	0.0000	45.82	80	65-135
1,2-Dichloropropane	57.02	0.0000	52.48	92	70-120
cis-1,3-Dichloropropene	57.02	0.0000	50.22	88	70-125
trans-1,3-Dichloroprope	57.02	0.0000	49.73	87	65-125
1,4-Dioxane	1140	0.0000	446.9	39*	50-150
Ethylbenzene	57.02	2.339	47.52	79	75-125
Ethyl methacrylate	114.0	0.0000	119.0	104	45-145
2-Hexanone	114.0	0.0000	125.8	110	45-145
Iodomethane	57.02	0.0000	56.31	99	55-165
Isobutyl alcohol	1140	0.0000	538.5	47*	50-150
Methacrylonitrile	570.2	0.0000	219.8	38*	50-150
Methylene chloride	57.02	2.943	50.41	83	55-140
Methyl methacrylate	114.0	0.0000	125.1	110	65-125
4-Methyl-2-pentanone	114.0	0.0000	144.5	127	45-145
Propionitrile	570.2	0.0000	219.1	38*	50-150
Styrene	57.02	0.0000	47.74	84	75-125
1,1,1,2-Tetrachloroetha	57.02	0.0000	52.61	92	75-125
1,1,2,2-Tetrachloroetha	57.02	0.0000	62.54	110	55-130
Tetrachloroethene	62.72	0.0000	43.31	69	65-140
Toluene	57.02	1.791	48.81	82	70-125
1,2,4-Trichlorobenzene	57.02	0.0000	33.72	59*	65-130
1,1,1-Trichloroethane	57.02	0.0000	43.39	76	70-135
1,1,2-Trichloroethane	57.02	0.0000	56.64	99	60-125
Trichloroethene	57.02	0.0000	46.39	81	75-125
Trichlorofluoromethane	57.02	0.0000	43.89	77	25-185
1,2,3-Trichloropropane	57.02	0.0000	63.96	112	65-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (A VIAL	MS % REC #	QC. LIMITS REC.
Vinyl chloride	57.02	0.0000	41.38	72	60-125
m,p-Xylene	114.0	0.0000	88.87	78*	80-125
o-Xylene	57.02	0.0000	49.83	87	75-125
Xylene(total)	171.1	0.0000	141.3	82	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	MSD CONCENTRATION (A VIAL	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	123.6	110.2	81	26	30	20-160
Acetonitrile	618.1	277.5	45*	37*	30	50-150
Acrolein	309.0	292.4	95	52*	30	10-150
Acrylonitrile	309.0	394.9	128	37*	30	35-180
Allyl chloride	61.81	21.40	35*	21	30	50-150
Benzene	61.81	64.58	101	23	30	75-125
Bromodichloromethane	61.81	64.75	105	18	30	70-130
Bromoform	61.81	76.64	124	29	30	55-135
Bromomethane	61.81	60.15	97	35*	30	30-160
2-Butanone (methyl ethy	123.6	169.9	137	66*	30	30-160
Carbon disulfide	61.81	62.14	100	26	30	45-160
Carbon tetrachloride	61.81	52.91	86	18	30	65-135
Chlorobenzene	61.81	57.10	92	17	30	75-125
Chloroethane	61.81	60.81	98	35*	30	40-155
Chloroform	61.81	56.48	91	20	30	70-125
Chloromethane	61.81	54.37	88	23	30	50-130
Chloroprene	61.81	23.83	38*	22	30	50-150
Dibromochloromethane	61.81	71.48	116	21	30	65-130
1,2-Dibromo-3-chloropro	61.81	80.85	131	19	30	40-135
1,2-Dibromoethane	61.81	74.17	120	20	30	70-125
Dibromomethane	61.81	67.54	109	23	30	75-130
1,2-Dichlorobenzene	61.81	56.13	91	20	30	75-120
1,3-Dichlorobenzene	61.81	50.36	81	20	30	70-125
1,4-Dichlorobenzene	61.81	52.42	85	20	30	70-125
trans-1,4-Dichloro-2-bu	61.81	24.60	40*	30	30	50-150
Dichlorodifluoromethane	61.81	60.41	98	22	30	35-135
1,1-Dichloroethane	61.81	57.96	94	20	30	75-125
1,2-Dichloroethane	61.81	68.86	111	22	30	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	MSD CONCENTRATION (A VIAL	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	61.81	57.53	93	28	30	65-135
cis-1,2-Dichloroethene	61.81	59.08	96	19	30	65-125
trans-1,2-Dichloroethen	61.81	57.91	94	23	30	65-135
1,2-Dichloropropane	61.81	64.90	105	21	30	70-120
cis-1,3-Dichloropropene	61.81	61.82	100	21	30	70-125
trans-1,3-Dichloroprope	61.81	61.96	100	22	30	65-125
1,4-Dioxane	1236	620.8	50	32*	30	50-150
Ethylbenzene	61.81	58.88	91	21	30	75-125
Ethyl methacrylate	123.6	154.1	125	26	30	45-145
2-Hexanone	123.6	165.2	134	27	30	45-145
Iodomethane	61.81	70.20	114	22	30	55-165
Isobutyl alcohol	1236	709.6	57	27	30	50-150
Methacrylonitrile	618.1	304.7	49*	32*	30	50-150
Methylene chloride	61.81	64.04	99	24	30	55-140
Methyl methacrylate	123.6	167.4	135*	29	30	65-125
4-Methyl-2-pentanone	123.6	195.0	158*	30	30	45-145
Propionitrile	618.1	310.2	50	34*	30	50-150
Styrene	61.81	55.38	90	15	30	75-125
1,1,1,2-Tetrachloroetha	61.81	60.68	98	14	30	75-125
1,1,2,2-Tetrachloroetha	61.81	80.27	130	25	30	55-130
Tetrachloroethene	67.99	51.71	76	18	30	65-140
Toluene	61.81	59.54	93	20	30	70-125
1,2,4-Trichlorobenzene	61.81	39.25	64*	15	30	65-130
1,1,1-Trichloroethane	61.81	52.68	85	19	30	70-135
1,1,2-Trichloroethane	61.81	68.98	112	20	30	60-125
Trichloroethene	61.81	55.63	90	18	30	75-125
Trichlorofluoromethane	61.81	56.44	91	25	30	25-185
1,2,3-Trichloropropane	61.81	79.31	128	21	30	65-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-1 Lab Sample ID: 0903262-02

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (A VIAL	MSD CONCENTRATION (A VIAL	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	61.81	53.39	86	25	30	60-125
m,p-Xylene	123.6	105.1	85	17	30	80-125
o-Xylene	61.81	57.28	93	14	30	75-125
Xylene(total)	185.4	165.4	89	16	30	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 9 out of 60 outside limits
Spike Recovery: 18 out of 120 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V1BLK0329E Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	87.15	87	20-160
Acetonitrile	500.0	0.0000	204.8	41*	50-150
Acrolein	250.0	0.0000	336.8	135	10-150
Acrylonitrile	250.0	0.0000	287.8	115	35-180
Allyl chloride	50.00	0.0000	23.14	46*	50-150
Benzene	50.00	0.0000	54.58	109	75-125
Bromodichloromethane	50.00	0.0000	52.35	105	70-130
Bromoform	50.00	0.0000	59.34	119	55-135
Bromomethane	50.00	0.0000	44.93	90	30-160
2-Butanone (methyl ethy	100.0	0.0000	84.23	84	30-160
Carbon disulfide	50.00	0.0000	55.22	110	45-160
Carbon tetrachloride	50.00	0.0000	46.96	94	65-135
Chlorobenzene	50.00	0.0000	55.34	111	75-125
Chloroethane	50.00	0.0000	44.74	89	40-155
Chloroform	50.00	0.0000	47.38	95	70-125
Chloromethane	50.00	0.0000	39.30	79	50-130
Chloroprene	50.00	0.0000	23.72	47*	50-150
Dibromochloromethane	50.00	0.0000	59.43	119	65-130
1,2-Dibromo-3-chloropro	50.00	0.0000	54.17	108	40-135
1,2-Dibromoethane	50.00	0.0000	56.82	114	70-125
Dibromomethane	50.00	0.0000	51.74	103	75-130
1,2-Dichlorobenzene	50.00	0.0000	54.64	109	75-120
1,3-Dichlorobenzene	50.00	0.0000	52.45	105	70-125
1,4-Dichlorobenzene	50.00	0.0000	51.78	104	70-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	22.44	45*	50-150
Dichlorodifluoromethane	50.00	0.0000	45.13	90	35-135
1,1-Dichloroethane	50.00	0.0000	50.68	101	75-125
1,2-Dichloroethane	50.00	0.0000	49.94	100	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V1BLK0329E Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	51.37	103	65-135
cis-1,2-Dichloroethene	50.00	0.0000	51.86	104	65-125
trans-1,2-Dichloroethen	50.00	0.0000	53.57	107	65-135
1,2-Dichloropropane	50.00	0.0000	54.13	108	70-120
cis-1,3-Dichloropropene	50.00	0.0000	53.72	107	70-125
trans-1,3-Dichloroprope	50.00	0.0000	55.20	110	65-125
1,4-Dioxane	1000	0.0000	467.9	47*	50-150
Ethylbenzene	50.00	0.0000	53.01	106	75-125
Ethyl methacrylate	100.0	0.0000	115.7	116	45-145
2-Hexanone	100.0	0.0000	102.4	102	45-145
Iodomethane	50.00	0.0000	58.03	116	55-165
Isobutyl alcohol	1000	0.0000	510.8	51	50-150
Methacrylonitrile	500.0	0.0000	210.3	42*	50-150
Methylene chloride	50.00	0.7653	53.49	105	55-140
Methyl methacrylate	100.0	0.0000	107.5	108	65-125
4-Methyl-2-pentanone	100.0	0.0000	113.7	114	45-145
Propionitrile	500.0	0.0000	235.8	47*	50-150
Styrene	50.00	0.0000	57.98	116	75-125
1,1,1,2-Tetrachloroetha	50.00	0.0000	54.99	110	75-125
1,1,2,2-Tetrachloroetha	50.00	0.0000	59.93	120	55-130
Tetrachloroethene	55.00	0.0000	63.85	116	65-140
Toluene	50.00	0.0000	54.78	110	70-125
1,2,4-Trichlorobenzene	50.00	0.0000	48.37	97	65-130
1,1,1-Trichloroethane	50.00	0.0000	46.61	93	70-135
1,1,2-Trichloroethane	50.00	0.0000	54.72	109	60-125
Trichloroethene	50.00	0.0000	50.85	102	75-125
Trichlorofluoromethane	50.00	0.0000	47.20	94	25-185
1,2,3-Trichloropropane	50.00	0.0000	53.07	106	65-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V1BLK0329E Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	39.19	78	60-125
m,p-Xylene	100.0	0.0000	102.1	102	80-125
o-Xylene	50.00	0.0000	54.16	108	75-125
Xylene(total)	150.0	0.0000	159.2	106	70-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 7 out of 60 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	159.7	160*	40-140
Acetonitrile	500.0	0.0000	1500	300*	50-150
Acrolein	250.0	0.0000	188.1	75	10-200
Acrylonitrile	250.0	0.0000	265.3	106	35-180
Allyl chloride	50.00	0.0000	61.02	122	50-150
Benzene	50.00	0.0000	46.51	93	80-120
Bromodichloromethane	50.00	0.0000	56.62	113	75-120
Bromoform	50.00	0.0000	52.57	105	70-130
Bromomethane	50.00	0.0000	38.47	77	30-145
2-Butanone (methyl ethy	100.0	0.0000	127.6	128	30-150
Carbon disulfide	50.00	0.0000	51.26	102	35-160
Carbon tetrachloride	50.00	0.0000	57.46	115	65-140
Chlorobenzene	50.00	0.0000	47.60	95	80-120
Chloroethane	50.00	0.0000	51.97	104	60-135
Chloroform	50.00	0.0000	45.54	91	65-135
Chloromethane	50.00	0.0000	51.02	102	40-125
Chloroprene	50.00	0.0000	41.35	83	50-150
Dibromochloromethane	50.00	0.0000	63.19	126	60-135
1,2-Dibromo-3-chloropro	50.00	0.0000	45.59	91	50-130
1,2-Dibromoethane	50.00	0.0000	50.75	102	80-120
Dibromomethane	50.00	0.0000	48.81	98	75-125
1,2-Dichlorobenzene	50.00	0.0000	47.20	94	70-120
1,3-Dichlorobenzene	50.00	0.0000	46.88	94	75-125
1,4-Dichlorobenzene	50.00	0.0000	47.62	95	75-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	40.27	80	50-150
Dichlorodifluoromethane	50.00	0.0000	62.30	125	30-155
1,1-Dichloroethane	50.00	0.0000	49.78	100	70-135
1,2-Dichloroethane	50.00	0.0000	51.01	102	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	49.07	98	70-130
cis-1,2-Dichloroethene	50.00	0.0000	48.34	97	70-125
trans-1,2-Dichloroethen	50.00	0.0000	47.98	96	60-140
1,2-Dichloropropane	50.00	0.0000	46.96	94	75-125
cis-1,3-Dichloropropene	50.00	0.0000	53.41	107	70-130
trans-1,3-Dichloroprope	50.00	0.0000	57.32	115	55-140
1,4-Dioxane	1000	0.0000	1026	103	50-150
Ethylbenzene	50.00	0.0000	49.82	100	75-125
Ethyl methacrylate	100.0	0.0000	100.9	101	70-135
2-Hexanone	100.0	0.0000	122.5	122	55-130
Iodomethane	50.00	0.0000	42.89	86	50-140
Isobutyl alcohol	1000	0.0000	3223	322*	50-150
Methacrylonitrile	500.0	0.0000	1011	202*	50-150
Methylene chloride	50.00	0.0000	46.95	94	55-140
Methyl methacrylate	100.0	0.0000	92.19	92	70-135
4-Methyl-2-pentanone	100.0	0.0000	116.1	116	60-135
Propionitrile	500.0	0.0000	1092	218*	50-150
Styrene	50.00	0.0000	53.20	106	65-135
1,1,1,2-Tetrachloroetha	50.00	0.0000	56.31	113	80-130
1,1,2,2-Tetrachloroetha	50.00	0.0000	48.65	97	65-130
Tetrachloroethene	55.00	0.0000	48.17	88	45-150
Toluene	50.00	0.0000	47.03	94	75-120
1,2,4-Trichlorobenzene	50.00	0.2269	57.33	114	65-135
1,1,1-Trichloroethane	50.00	0.0000	48.74	97	65-130
1,1,2-Trichloroethane	50.00	0.0000	45.81	92	75-125
Trichloroethene	50.00	0.0000	46.58	93	70-125
Trichlorofluoromethane	50.00	0.0000	55.58	111	60-145
1,2,3-Trichloropropane	50.00	0.0000	49.01	98	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V3BLK0405

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	47.76	96	50-145
m,p-Xylene	100.0	0.0000	95.00	95	75-130
o-Xylene	50.00	0.0000	50.55	101	80-120
Xylene(total)	150.0	0.0000	143.5	96	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 5 out of 60 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	158.6	159*	40-140
Acetonitrile	500.0	0.0000	285.2	57	50-150
Acrolein	250.0	0.0000	804.4	322*	10-200
Acrylonitrile	250.0	0.0000	316.4	126	35-180
Allyl chloride	50.00	0.0000	21.54	43*	50-150
Benzene	50.00	0.0000	52.41	105	80-120
Bromodichloromethane	50.00	0.0000	51.44	103	75-120
Bromoform	50.00	0.0000	45.11	90	70-130
Bromomethane	50.00	0.0000	46.07	92	30-145
2-Butanone (methyl ethy	100.0	0.0000	84.30	84	30-150
Carbon disulfide	50.00	0.0000	55.38	111	35-160
Carbon tetrachloride	50.00	0.0000	52.31	105	65-140
Chlorobenzene	50.00	0.0000	48.36	97	80-120
Chloroethane	50.00	0.0000	53.52	107	60-135
Chloroform	50.00	0.0000	45.39	91	65-135
Chloromethane	50.00	0.0000	61.33	123	40-125
Chloroprene	50.00	0.0000	28.81	58	50-150
Dibromochloromethane	50.00	0.0000	48.07	96	60-135
1,2-Dibromo-3-chloropro	50.00	0.0000	43.96	88	50-130
1,2-Dibromoethane	50.00	0.0000	46.96	94	80-120
Dibromomethane	50.00	0.0000	47.84	96	75-125
1,2-Dichlorobenzene	50.00	0.0000	49.57	99	70-120
1,3-Dichlorobenzene	50.00	0.0000	47.34	95	75-125
1,4-Dichlorobenzene	50.00	0.0000	50.91	102	75-125
trans-1,4-Dichloro-2-bu	50.00	0.0000	32.71	65	50-150
Dichlorodifluoromethane	50.00	0.0000	63.34	127	30-155
1,1-Dichloroethane	50.00	0.0000	54.27	108	70-135
1,2-Dichloroethane	50.00	0.0000	55.54	111	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.0000	49.95	100	70-130
cis-1,2-Dichloroethene	50.00	0.0000	47.61	95	70-125
trans-1,2-Dichloroethen	50.00	0.0000	48.43	97	60-140
1,2-Dichloropropane	50.00	0.0000	53.24	106	75-125
cis-1,3-Dichloropropene	50.00	0.0000	52.31	105	70-130
trans-1,3-Dichloroprope	50.00	0.0000	52.96	106	55-140
1,4-Dioxane	1000	0.0000	715.8	72	50-150
Ethylbenzene	50.00	0.0000	49.17	98	75-125
Ethyl methacrylate	100.0	0.0000	90.72	91	70-135
2-Hexanone	100.0	0.0000	110.0	110	55-130
Iodomethane	50.00	0.0000	60.14	120	50-140
Isobutyl alcohol	1000	0.0000	717.3	72	50-150
Methacrylonitrile	500.0	0.0000	372.8	74	50-150
Methylene chloride	50.00	0.0000	49.85	100	55-140
Methyl methacrylate	100.0	0.0000	102.1	102	70-135
4-Methyl-2-pentanone	100.0	0.0000	104.6	105	60-135
Propionitrile	500.0	0.0000	340.4	68	50-150
Styrene	50.00	0.0000	50.32	101	65-135
1,1,1,2-Tetrachloroetha	50.00	0.0000	48.89	98	80-130
1,1,2,2-Tetrachloroetha	50.00	0.0000	53.47	107	65-130
Tetrachloroethene	55.00	0.0000	63.96	116	45-150
Toluene	50.00	0.0000	48.74	97	75-120
1,2,4-Trichlorobenzene	50.00	0.0000	49.66	99	65-135
1,1,1-Trichloroethane	50.00	0.0000	46.69	93	65-130
1,1,2-Trichloroethane	50.00	0.0000	39.36	79	75-125
Trichloroethene	50.00	0.0000	49.82	100	70-125
Trichlorofluoromethane	50.00	0.0000	55.10	110	60-145
1,2,3-Trichloropropane	50.00	0.0000	45.88	92	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: V4BLK0328

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl chloride	50.00	0.0000	58.78	118	50-145
m,p-Xylene	100.0	0.0000	98.60	99	75-130
o-Xylene	50.00	0.0000	49.62	99	80-120
Xylene(total)	150.0	0.0000	143.1	95	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 3 out of 60 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1BLK0329E

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V1BLK01E Lab Sample ID: V1BLK0329E

Date Analyzed: 03/30/09 Time Analyzed: 0206

Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1BLK0329ELC	V1BLK0329ELCS	V1LCS01E	0049
02	MPT-AOCF-SS1	0903262-02	0326202A	0245
03	MPT-AOCF-SS1	0903262-04	0326204A	0323
04	MPT-AOCF-SS1	0903262-06	0326206A	0402
05	MPT-AOCF-SS1	0903262-08	0326208A	0440
06	MPT-AOCF-SS1	0903262-10	0326210A	0519
07	MPT-AOCF-SS1	0903262-12	0326212A	0557
08	MPT-AOCF-SS2	0903262-14	0326214A	0635
09	MPT-AOCF-SS2	0903262-16	0326216A	0714
10	MPT-AOCF-SS2	0903262-18	0326218A	0753
11	MPT-AOCF-SS2	0903262-20	0326220A	0831
12	MPT-AOCF-SS1	0903262-02MS	0326202AM	1027
13	MPT-AOCF-SS1	0903262-02MSD	0326202AS	1106
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1BLK0329E

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: V1BLK0329E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01E

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 03/30/09 02:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	2.0	10		U
75-05-8	Acetonitrile	0.50	25		UJ1
107-02-8	Acrolein	5.2	10		U
107-13-1	Acrylonitrile	1.4	10		U
107-05-1	Allyl chloride	0.50	5.0		UJ1
71-43-2	Benzene	0.47	2.0		U
75-27-4	Bromodichloromethane	0.30	2.0		U
75-25-2	Bromoform	1.0	2.0		U
74-83-9	Bromomethane	0.72	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.4	5.0		U
75-15-0	Carbon disulfide	1.3	2.0		U
56-23-5	Carbon tetrachloride	0.88	2.0		U
108-90-7	Chlorobenzene	0.34	2.0		U
75-00-3	Chloroethane	1.1	2.0		U
67-66-3	Chloroform	0.55	2.0		U
74-87-3	Chloromethane	0.52	2.0		U
126-99-8	Chloroprene	0.50	5.0		UJ1
124-48-1	Dibromochloromethane	0.34	2.0		U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	2.0		U
106-93-4	1,2-Dibromoethane	0.43	2.0		U
74-95-3	Dibromomethane	0.41	2.0		U
95-50-1	1,2-Dichlorobenzene	0.37	2.0		U
541-73-1	1,3-Dichlorobenzene	0.84	2.0		U
106-46-7	1,4-Dichlorobenzene	0.55	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	8.0	25		UJ1
75-71-8	Dichlorodifluoromethane	1.1	2.0		U
75-34-3	1,1-Dichloroethane	0.54	2.0		U
107-06-2	1,2-Dichloroethane	0.46	2.0		U
75-35-4	1,1-Dichloroethene	1.2	2.0		U
156-59-2	cis-1,2-Dichloroethene	1.2	2.0		U
156-60-5	trans-1,2-Dichloroethene	1.1	2.0		U
78-87-5	1,2-Dichloropropane	0.46	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.50	2.0		U
10061-02-6	trans-1,3-Dichloropropene	0.32	2.0		U
123-91-1	1,4-Dioxane	0.50	50		UJ1
100-41-4	Ethylbenzene	0.75	2.0		U
97-63-2	Ethyl methacrylate	0.26	5.0		U
591-78-6	2-Hexanone	2.3	5.0		U
74-88-4	Iodomethane	0.83	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1BLK0329E

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: V1BLK0329E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1BLK01E

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 03/30/09 02:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.50	50		UJ1
126-98-7	Methacrylonitrile	0.50	25		UJ1
75-09-2	Methylene chloride	0.62	2.0	0.76	I
80-62-6	Methyl methacrylate	0.45	5.0		U
108-10-1	4-Methyl-2-pentanone	0.58	5.0		U
107-12-0	Propionitrile	0.50	25		UJ1
100-42-5	Styrene	0.35	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.32	2.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.43	2.0		U
127-18-4	Tetrachloroethene	0.97	2.0		U
108-88-3	Toluene	0.86	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.90	2.0		U
79-00-5	1,1,2-Trichloroethane	0.35	2.0		U
79-01-6	Trichloroethene	0.85	2.0		U
75-69-4	Trichlorofluoromethane	0.95	2.0		U
96-18-4	1,2,3-Trichloropropane	0.70	2.0		U
75-01-4	Vinyl chloride	1.1	2.0		U
1330-20-7	Xylene(total)	0.70	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V4BLK01 Lab Sample ID: V4BLK0328

Date Analyzed: 03/29/09 Time Analyzed: 1403

Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V4BLK0328LCS	V4BLK0328LCS	V4LCS01	0936
02	TRIP BLANK#	0903262-22	0326222	1531
03	TRIP BLANK#	0903262-21	0326221	1629
04				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V4BLK0328

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V4BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.8	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	2.2	10		U
107-13-1	Acrylonitrile	0.48	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.12	1.0		U
75-27-4	Bromodichloromethane	0.18	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.27	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.1	5.0		U
75-15-0	Carbon disulfide	0.17	2.0		U
56-23-5	Carbon tetrachloride	0.22	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.25	2.0		U
67-66-3	Chloroform	0.17	2.0		U
74-87-3	Chloromethane	0.36	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.23	0.25		U
106-93-4	1,2-Dibromoethane	0.14	0.25		U
74-95-3	Dibromomethane	0.18	2.0		U
95-50-1	1,2-Dichlorobenzene	0.16	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.20	2.0		U
75-34-3	1,1-Dichloroethane	0.19	2.0		U
107-06-2	1,2-Dichloroethane	0.22	2.0		U
75-35-4	1,1-Dichloroethene	0.24	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.16	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.21	2.0		U
78-87-5	1,2-Dichloropropane	0.17	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.12	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.17	0.50		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.10	2.0		U
97-63-2	Ethyl methacrylate	0.16	5.0		U
591-78-6	2-Hexanone	0.42	5.0		U
74-88-4	Iodomethane	0.11	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4BLK0328

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V4BLK0328

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V4BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/09 14:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	10		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.27	2.0		U
80-62-6	Methyl methacrylate	0.26	5.0		U
108-10-1	4-Methyl-2-pentanone	0.50	5.0		U
107-12-0	Propionitrile	0.20	5.0		U
100-42-5	Styrene	0.11	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.11	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.50		U
127-18-4	Tetrachloroethene	0.16	2.0		U
108-88-3	Toluene	0.14	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.18	2.0		U
71-55-6	1,1,1-Trichloroethane	0.20	2.0		U
79-00-5	1,1,2-Trichloroethane	0.14	2.0		U
79-01-6	Trichloroethene	0.50	2.0		U
75-69-4	Trichlorofluoromethane	0.22	2.0		U
96-18-4	1,2,3-Trichloropropane	0.25	1.0		U
75-01-4	Vinyl chloride	0.19	1.0		U
1330-20-7	Xylene(total)	0.21	5.0		U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V3BLK01 Lab Sample ID: V3BLK0405

Date Analyzed: 04/05/09 Time Analyzed: 1227

Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V3BLK0405LCS	V3BLK0405LCS	V3LCSA9	1058
02	MPT-AOC-F-TR	0904026-02	0402602	1327
03	MPT-AOC-F-MW	0904026-01	0402601	1357
04				
05				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0405

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/09 12:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
75-05-8	Acetonitrile	0.20	5.0		U
107-02-8	Acrolein	5.0	10		U
107-13-1	Acrylonitrile	0.34	10		U
107-05-1	Allyl chloride	0.20	5.0		U
71-43-2	Benzene	0.11	1.0		U
75-27-4	Bromodichloromethane	0.10	0.60		U
75-25-2	Bromoform	0.10	2.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (methyl ethyl ket	1.0	5.0		U
75-15-0	Carbon disulfide	0.13	2.0		U
56-23-5	Carbon tetrachloride	0.15	2.0		U
108-90-7	Chlorobenzene	0.10	2.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	2.0		U
74-87-3	Chloromethane	0.29	2.0		U
126-99-8	Chloroprene	0.20	5.0		U
124-48-1	Dibromochloromethane	0.10	0.40		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.25		U
106-93-4	1,2-Dibromoethane	0.10	0.25		U
74-95-3	Dibromomethane	0.13	2.0		U
95-50-1	1,2-Dichlorobenzene	0.10	2.0		U
541-73-1	1,3-Dichlorobenzene	0.13	2.0		U
106-46-7	1,4-Dichlorobenzene	0.10	2.0		U
110-57-6	trans-1,4-Dichloro-2-butene	0.60	25		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	2.0		U
107-06-2	1,2-Dichloroethane	0.10	2.0		U
75-35-4	1,1-Dichloroethene	0.15	2.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	2.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	2.0		U
78-87-5	1,2-Dichloropropane	0.10	2.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.40		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.40		U
123-91-1	1,4-Dioxane	0.20	50		U
100-41-4	Ethylbenzene	0.13	2.0		U
97-63-2	Ethyl methacrylate	0.23	5.0		U
591-78-6	2-Hexanone	0.30	5.0		U
74-88-4	Iodomethane	0.10	10		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0405

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: V3BLK0405

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 04/05/09 12:27

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
78-83-1	Isobutyl alcohol	0.20	5.0		U
126-98-7	Methacrylonitrile	0.20	25		U
75-09-2	Methylene chloride	0.14	2.0		U
80-62-6	Methyl methacrylate	0.29	5.0		U
108-10-1	4-Methyl-2-pentanone	0.29	5.0		U
107-12-0	Propionitrile	0.20	10		U
100-42-5	Styrene	0.10	2.0		U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.25		U
127-18-4	Tetrachloroethene	0.15	2.0		U
108-88-3	Toluene	0.10	2.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	2.0	0.23	I
71-55-6	1,1,1-Trichloroethane	0.17	2.0		U
79-00-5	1,1,2-Trichloroethane	0.10	2.0		U
79-01-6	Trichloroethene	0.13	2.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
96-18-4	1,2,3-Trichloropropane	0.15	1.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	5.0		U

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA30787A

Lab File ID: V1BFB01E BFB Injection Date: 12/17/08

Instrument ID: VOA1 BFB Injection Time: 2340

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.7
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	4.4 (6.1)1
176	95.0 - 101.0% of mass 174	70.8 (97.4)1
177	5.0 - 9.0% of mass 176	4.4 (6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V1STD2PPB	V1STDAP1	12/18/08	0051
02		V1STD5PPB	V1STDAP2	12/18/08	0130
03		V1STD10PPB	V1STDAP3	12/18/08	0209
04		V1STD20PPB	V1STDAP4	12/18/08	0248
05		V1STD50PPB	V1STDAP5	12/18/08	0327
06	V1BLK1217LCS	V1BLK1217LCS	V1ICVAP9	12/18/08	0406
07		V1STD100PPB	V1STDAP6	12/18/08	0445
08		V1STD200PPB	V1STDAP7	12/18/08	0524
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: CITY

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA25189

Lab File ID: V4BFB01 BFB Injection Date: 04/02/08

Instrument ID: VOA4 BFB Injection Time: 1352

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	41.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	6.1 (7.4)1
176	95.0 - 101.0% of mass 174	78.2 (95.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V4CALIB	V4ASTD09	04/02/08	1649
02		V4CALIB	V4ASTD08	04/02/08	1718
03		V4CALIB	V4ASTD07	04/02/08	1748
04		V4CALIB	V4ASTD06	04/02/08	1847
05		V4CALIB	V4ASTD05	04/02/08	1916
06		V4CALIB	V4ASTD04	04/02/08	1946
07		V4CALIB	V4ASTD03	04/02/08	2015
08		V4CALIB	V4ASTD02	04/02/08	2044
09					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA04575

Lab File ID: V3BFB01 BFB Injection Date: 12/17/08

Instrument ID: VOA3 BFB Injection Time: 1404

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	53.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	Greater than 50.0% of mass 95	90.7
175	5.0 - 9.0% of mass 174	6.4 (7.0)1
176	95.0 - 101.0% of mass 174	89.9 (99.1)1
177	5.0 - 9.0% of mass 176	6.5 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD0.25PPB	V3STD0.25PPB	V3STD01	12/17/08	1502
02	V3STD0.5PPB	V3STD0.5PPB	V3STD02	12/17/08	1532
03	V3STD1PPB	V3STD1PPB	V3STD03	12/17/08	1601
04	V3STD2PPB	V3STD2PPB	V3STD04	12/17/08	1631
05	V3STD10PPB	V3STD10PPB	V3STD05	12/17/08	1701
06	V3STD20PPB	V3STD20PPB	V3STD06	12/17/08	1731
07	V3STD50PPB	V3STD50PPB	V3STD07	12/17/08	1801
08	V3BLK1217LCS	V3BLK1217LCS	V3ICV01	12/17/08	1831
09	V3STD100PPB	V3STD100PPB	V3STD08	12/17/08	1901
10	V3STD200PPB	V3STD200PPB	V3STD09	12/17/08	1931
11	V3STD0.25PPB	V3STD0.25PPB	V3STD01A	12/17/08	2030
12	V3STD0.5PPB	V3STD0.5PPB	V3STD02A	12/17/08	2059
13	V3STD1PPB	V3STD1PPB	V3STD03A	12/17/08	2129
14	V3STD2PPB	V3STD2PPB	V3STD04A	12/17/08	2200
15	V3STD10PPB	V3STD10PPB	V3STD05A	12/17/08	2230
16	V3STD20PPB	V3STD20PPB	V3STD06A	12/17/08	2300
17	V3STD50PPB	V3STD50PPB	V3STD07A	12/17/08	2330
18	V3BLK1217LCS	V3BLK1217LCS	V3ICV01A	12/18/08	0000
19	V3STD100PPB	V3STD100PPB	V3STD08A	12/18/08	0030
20	V3STD200PPB	V3STD200PPB	V3STD09A	12/18/08	0101
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Lab File ID: V3BFB01 BFB Injection Date: 03/14/09

Instrument ID: VOA3 BFB Injection Time: 1148

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.0
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	84.5
175	5.0 - 9.0% of mass 174	6.5 (7.7)1
176	95.0 - 101.0% of mass 174	84.8 (100.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V3STD0.25PPB	V3STD01	03/14/09	1317
02		V3STD0.50PPB	V3STD02	03/14/09	1347
03		V3STD1PPB	V3STD03	03/14/09	1417
04		V3STD2PPB	V3STD04	03/14/09	1447
05		V3STD10PPB	V3STD05	03/14/09	1517
06		V3STD20PPB	V3STD06	03/14/09	1546
07		V3STD50PPB	V3STD07	03/14/09	1616
08	V3BLK0314LCS	V3BLK0314LCS	V3ICV01	03/14/09	1646
09		V3STD100PPB	V3STD08	03/14/09	1726
10		V3STD200PPB	V3STD09	03/14/09	1756
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA95155

Lab File ID: V1BFB01 BFB Injection Date: 03/27/09

Instrument ID: VOA1 BFB Injection Time: 0813

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	31.5
75	30.0 - 60.0% of mass 95	59.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.7
175	5.0 - 9.0% of mass 174	4.3 (6.9)1
176	95.0 - 101.0% of mass 174	61.9 (98.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		V1STD2PPB	V1STD01	03/27/09	0924
02		V1STD5PPB	V1STD02	03/27/09	1003
03		V1STD10PPB	V1STD03	03/27/09	1042
04		V1STD20PPB	V1STD04	03/27/09	1121
05		V1STD50PPB	V1STD05	03/27/09	1159
06	V1BLK0327LCS	V1BLK0327LCS	V1ICV01	03/27/09	1238
07		V1STD100PPB	V1STD06	03/27/09	1317
08		V1STD200PPB	V1STD07	03/27/09	1355
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA29149

Lab File ID: V4BFB01 BFB Injection Date: 03/27/09

Instrument ID: VOA4 BFB Injection Time: 1023

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	43.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.6 (8.2)1
176	95.0 - 101.0% of mass 174	67.5 (99.0)1
177	5.0 - 9.0% of mass 176	4.4 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD0.25PPB	V4STD0.25PPB	V4STD01	03/27/09	1052
02	V4STD0.5PPB	V4STD0.5PPB	V4STD02	03/27/09	1122
03	V4STD1PPB	V4STD1PPB	V4STD03	03/27/09	1201
04	V4STD2PPB	V4STD2PPB	V4STD04	03/27/09	1231
05	V4STD10PPB	V4STD10PPB	V4STD05	03/27/09	1300
06	V4STD20PPB	V4STD20PPB	V4STD06	03/27/09	1330
07	V4STD50PPB	V4STD50PPB	V4STD07	03/27/09	1359
08	V4BLK0327LCS	V4BLK0327LCS	V4ICV01	03/27/09	1429
09	V4STD100PPB	V4STD100PPB	V4STD08	03/27/09	1458
10	V4STD200PPB	V4STD200PPB	V4STD09	03/27/09	1528
11	V4BLK0327LCS	V4BLK0327LCS	V4LCS01	03/27/09	1627
12					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V4BFB01 BFB Injection Date: 03/28/09

Instrument ID: VOA4 BFB Injection Time: 0807

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.0
75	30.0 - 60.0% of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.2 (7.6)1
176	95.0 - 101.0% of mass 174	66.1 (96.6)1
177	5.0 - 9.0% of mass 176	4.2 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4STD100PPB	V4STD100PPB	V4CCV01	03/28/09	0837
02	V4STD100PPB	V4STD100PPB	V4CCVA9	03/28/09	0906
03	V4BLK0328LCS	V4BLK0328LCS	V4LCS01	03/28/09	0936
04	V4BLK0328	V4BLK0328	V4BLK01	03/29/09	1403
05	TRIP BLANK#	0903262-22	0326222	03/29/09	1531
06	TRIP BLANK#	0903262-21	0326221	03/29/09	1629
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V1BFB01E BFB Injection Date: 03/29/09

Instrument ID: VOA1 BFB Injection Time: 2259

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	5.0 (7.0)1
176	95.0 - 101.0% of mass 174	69.6 (96.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1STD100PPB	V1STD100PPB	V1CCV01E	03/29/09	2332
02	V1STD100PPB	V1STD100PPB	V1CCVA9E	03/30/09	0010
03	V1BLK0329ELC	V1BLK0329ELCS	V1LCS01E	03/30/09	0049
04	V1BLK0329E	V1BLK0329E	V1BLK01E	03/30/09	0206
05	MPT-AOCF-SS1	0903262-02	0326202A	03/30/09	0245
06	MPT-AOCF-SS1	0903262-04	0326204A	03/30/09	0323
07	MPT-AOCF-SS1	0903262-06	0326206A	03/30/09	0402
08	MPT-AOCF-SS1	0903262-08	0326208A	03/30/09	0440
09	MPT-AOCF-SS1	0903262-10	0326210A	03/30/09	0519
10	MPT-AOCF-SS1	0903262-12	0326212A	03/30/09	0557
11	MPT-AOCF-SS2	0903262-14	0326214A	03/30/09	0635
12	MPT-AOCF-SS2	0903262-16	0326216A	03/30/09	0714
13	MPT-AOCF-SS2	0903262-18	0326218A	03/30/09	0753
14	MPT-AOCF-SS2	0903262-20	0326220A	03/30/09	0831
15	MPT-AOCF-SS1	0903262-02MS	0326202AM	03/30/09	1027
16	MPT-AOCF-SS1	0903262-02MSD	0326202AS	03/30/09	1106
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: V3BFB01 BFB Injection Date: 04/05/09

Instrument ID: VOA3 BFB Injection Time: 0929

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.9
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	Greater than 50.0% of mass 95	96.7
175	5.0 - 9.0% of mass 174	7.7 (7.9)1
176	95.0 - 101.0% of mass 174	94.0 (97.2)1
177	5.0 - 9.0% of mass 176	6.7 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD100PPB	V3STD100PPB	V3CCV01	04/05/09	0959
02	V3STD100PPB	V3STD100PPB	V3CCVA9	04/05/09	1028
03	V3BLK0405LCS	V3BLK0405LCS	V3LCSA9	04/05/09	1058
04	V3BLK0405	V3BLK0405	V3BLK01	04/05/09	1227
05	MPT-AOC-F-TR	0904026-02	0402602	04/05/09	1327
06	MPT-AOC-F-MW	0904026-01	0402601	04/05/09	1357
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): V4CCV01 Date Analyzed: 03/28/09

Instrument ID: VOA4 Time Analyzed: 0837

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA #	IS1(FLB) RT #	IS2(CBZ) AREA #	IS2(CBZ) RT #	IS3(DCB) AREA #	IS3(DCB) RT #
	12 HOUR STD	911603	13.94	388330	17.21	310624	19.24
	UPPER LIMIT	1823206	14.44	776660	17.71	621248	19.74
	LOWER LIMIT	455802	13.44	194165	16.71	155312	18.74
	CLIENT SAMPLE NO.						
01	V4BLK0328LCS	911647	13.95	374922	17.20	315960	19.24
02	V4BLK0328	818127	13.92	320328	17.19	232129	19.23
03	TRIP BLANK#	738698	13.92	307080	17.19	216197	19.23
04	TRIP BLANK#	734541	13.92	300759	17.19	203640	19.22
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): V1CCV01E Date Analyzed: 03/29/09

Instrument ID: VOA1 Time Analyzed: 2332

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	1252753	13.98	565508	19.66	415131	24.10
	UPPER LIMIT	2505506	14.48	1131016	20.16	830262	24.60
	LOWER LIMIT	626377	13.48	282754	19.16	207566	23.60
	CLIENT SAMPLE NO.						
01	V1BLK0329ELC	1715465	13.97	680850	19.64	489379	24.10
02	V1BLK0329E	1263085	13.98	460392	19.64	315531	24.10
03	MPT-AOCF-SS1	1236134	13.98	496765	19.64	342540	24.10
04	MPT-AOCF-SS1	1285410	13.97	510406	19.64	345391	24.10
05	MPT-AOCF-SS1	1129011	13.97	461068	19.64	316838	24.10
06	MPT-AOCF-SS1	1239703	13.97	509376	19.64	360125	24.10
07	MPT-AOCF-SS1	1125227	13.97	463640	19.64	309880	24.10
08	MPT-AOCF-SS1	1251085	13.97	510155	19.64	361826	24.10
09	MPT-AOCF-SS2	1201184	13.97	484625	19.64	338899	24.09
10	MPT-AOCF-SS2	1045354	13.97	421379	19.64	300674	24.09
11	MPT-AOCF-SS2	839931	13.97	353280	19.64	241125	24.09
12	MPT-AOCF-SS2	1277124	13.96	511535	19.64	360331	24.09
13	MPT-AOCF-SS1	1305573	13.96	552077	19.63	434477	24.08
14	MPT-AOCF-SS1	1044284	13.96	446901	19.64	337202	24.09
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): V3CCV01 Date Analyzed: 04/05/09

Instrument ID: VOA3 Time Analyzed: 0959

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	939328	13.03	493437	16.53	619946	18.55
	UPPER LIMIT	1878656	13.53	986874	17.03	1239892	19.05
	LOWER LIMIT	469664	12.53	246719	16.03	309973	18.05
	CLIENT SAMPLE NO.						
01	V3BLK0405LCS	1010079	13.03	503573	16.53	672946	18.55
02	V3BLK0405	926517	13.03	454559	16.53	612495	18.55
03	MPT-AOC-F-TR	906046	13.03	446595	16.53	625125	18.55
04	MPT-AOC-F-MW	951489	13.03	457750	16.53	599592	18.55
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IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
Acetone	0.094	0.071	0.047	0.030	0.060
Acrolein			0.002	0.008	0.005
Acrylonitrile		0.028	0.040	0.016	0.034
tert-Amyl Methyl Ether			0.819	0.713	0.521
Benzene	0.834	0.728	0.730	0.773	0.661
Bromobenzene	0.785	0.774	0.794	0.760	0.722
Bromochloromethane	0.123	0.100	0.121	0.116	0.108
Bromodichloromethane	0.371	0.287	0.348	0.356	0.316
Bromoform	0.371	0.291	0.330	0.351	0.320
Bromomethane		0.160	0.152	0.143	0.096
2-Butanone			0.110	0.014	0.041
t-Butyl alcohol		0.007	0.004	0.013	0.012
n-Butylbenzene	1.118	0.872	0.754	0.846	0.699
sec-Butylbenzene	1.689	1.374	1.335	1.444	1.229
tert-Butylbenzene	1.680	1.454	1.235	1.375	1.070
Carbon disulfide	0.460	0.401	0.421	0.458	0.402
Carbon tetrachloride	0.374	0.402	0.368	0.408	0.349
Chlorobenzene	1.372	1.273	1.296	1.301	1.210
Chloroethane		0.111	0.091	0.110	0.076
2-Chloroethyl vinyl ether		0.062	0.062	0.070	0.075
Chloroform		0.393	0.420	0.480	0.397
Chloromethane		0.224	0.212	0.214	0.176
2-Chlorotoluene	1.661	1.428	1.646	1.664	1.523
4-Chlorotoluene	1.845	1.287	1.506	1.815	1.504
Cyclohexane		0.190	0.159	0.180	0.150
Dibromochloromethane	0.557	0.423	0.523	0.494	0.500
1,2-Dibromo-3-chloropropane		0.046	0.157	0.121	0.095
1,2-Dibromoethane	0.382	0.402	0.428	0.425	0.388
Dibromomethane	0.145	0.140	0.145	0.149	0.137
1,2-Dichlorobenzene	0.921	0.898	1.019	1.013	0.935
1,3-Dichlorobenzene	1.144	0.934	1.103	1.108	1.076
1,4-Dichlorobenzene	1.273	0.954	1.017	1.159	1.021
Dichlorodifluoromethane	0.288	0.286	0.352	0.358	0.340
1,1-Dichloroethane	0.154	0.163	0.260	0.351	0.294
1,2-Dichloroethane	0.406	0.329	0.370	0.427	0.362
1,1-Dichloroethene		0.137	0.162	0.145	0.127
cis-1,2-Dichloroethene	0.150	0.198	0.196	0.204	0.177

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2-Dichloroethene(total)	0.128	0.188	0.182	0.193	0.163
trans-1,2-Dichloroethene	0.105	0.178	0.168	0.182	0.150
1,2-Dichloropropane	0.162	0.125	0.134	0.164	0.151
1,3-Dichloropropane	0.655	0.682	0.588	0.694	0.574
2,2-Dichloropropane		0.243	0.328	0.351	0.304
1,1-Dichloropropene	0.220	0.306	0.250	0.258	0.230
cis-1,3-Dichloropropene	0.294	0.259	0.292	0.303	0.295
trans-1,3-Dichloropropene	0.476	0.504	0.552	0.592	0.535
Ethylbenzene	1.716	2.036	1.821	1.983	1.784
Ethyl methacrylate			0.126	0.141	0.373
Hexachlorobutadiene		0.257	0.218	0.215	0.179
2-Hexanone		0.031	0.059	0.049	0.078
Iodomethane		0.102	0.080	0.237	0.239
Isopropylbenzene	1.717	1.351	1.202	1.447	1.298
p-Isopropyltoluene	1.488	1.134	1.205	1.252	1.001
Methyl acetate			0.058	0.096	0.083
Methylene chloride		0.500	0.311	0.253	0.178
Methyl cyclohexane	0.188	0.157	0.246	0.216	0.205
Methyl methacrylate			0.084	0.097	0.084
4-Methyl-2-pentanone		0.017	0.021	0.044	0.097
MTBE		0.379	0.374	0.436	0.440
Naphthalene		0.701	0.594	0.608	0.570
n-Propylbenzene	2.078	1.877	1.852	1.960	1.767
Styrene	0.857	0.871	0.946	1.049	1.041
1,1,1,2-Tetrachloroethane	0.564	0.494	0.512	0.536	0.490
1,1,2,2-Tetrachloroethane	0.520	0.467	0.481	0.586	0.489
Tetrachloroethene	0.563	0.527	0.599	0.568	0.478
Tetrahydrofuran				0.026	0.022
Toluene	0.946	1.050	0.980	1.136	0.959
1,2,3-Trichlorobenzene		0.397	0.303	0.373	0.302
1,2,4-Trichlorobenzene	0.564	0.482	0.394	0.435	0.384
1,1,1-Trichloroethane	0.310	0.369	0.419	0.446	0.386
1,1,2-Trichloroethane	0.270	0.221	0.305	0.297	0.262
Trichloroethene		0.144	0.187	0.233	0.216
Trichlorofluoromethane		0.426	0.424	0.500	0.383
Trichlorotrifluoroethane		0.025	0.098	0.177	0.153
1,2,3-Trichloropropane	0.226	0.153	0.151	0.182	0.162

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2,4-Trimethylbenzene	1.522	1.353	1.330	1.393	1.332
1,3,5-Trimethylbenzene	1.551	1.257	1.436	1.536	1.443
Vinyl acetate			0.169	0.194	0.198
Vinyl chloride	0.261	0.290	0.231	0.267	0.235
m,p-Xylene	1.682	1.454	1.398	1.503	1.393
Xylene(total)	1.518	1.443	1.605	1.508	1.463
1-Chlorohexane			0.502	0.483	0.384
Di-isopropyl ether		0.076	0.358	0.127	0.283
ETBE	0.298	0.314	0.402	0.500	0.443
Dibromofluoromethane	0.302	0.304	0.312	0.314	0.293
1,2-Dichloroethane-d4	0.051	0.053	0.054	0.054	0.051
Toluene-d8	2.087	2.112	2.117	2.102	2.069
Bromofluorobenzene	0.881	0.864	0.827	0.844	0.846

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
Acetone	0.053	0.066	0.062	0.056
Acrolein	0.006	0.011	0.010	0.008
Acrylonitrile	0.036	0.038	0.039	0.037
tert-Amyl Methyl Ether	0.551	0.560	0.539	0.521
Benzene	0.735	0.754	0.774	0.754
Bromobenzene	0.769	0.686	0.674	0.634
Bromochloromethane	0.113	0.118	0.114	0.113
Bromodichloromethane	0.370	0.383	0.368	0.346
Bromoform	0.369	0.399	0.404	0.378
Bromomethane	0.146	0.158	0.169	0.170
2-Butanone	0.054	0.059	0.057	0.054
t-Butyl alcohol	0.012	0.014	0.014	0.013
n-Butylbenzene	0.821	0.874	0.908	0.934
sec-Butylbenzene	1.344	1.429	1.433	1.388
tert-Butylbenzene	1.194	1.268	1.275	1.266
Carbon disulfide	0.448	0.460	0.477	0.467
Carbon tetrachloride	0.422	0.440	0.425	0.397
Chlorobenzene	1.283	1.275	1.236	1.109
Chloroethane	0.096	0.098	0.106	0.105
2-Chloroethyl vinyl ether	0.092	0.105	0.107	0.106
Chloroform	0.439	0.426	0.407	0.383
Chloromethane	0.188	0.186	0.193	0.190
2-Chlorotoluene	1.582	1.548	1.538	1.363
4-Chlorotoluene	1.652	1.607	1.566	1.383
Cyclohexane	0.194	0.218	0.222	0.226
Dibromochloromethane	0.548	0.558	0.544	0.512
1,2-Dibromo-3-chloropropane	0.100	0.106	0.105	0.104
1,2-Dibromoethane	0.424	0.422	0.412	0.387
Dibromomethane	0.141	0.148	0.143	0.137
1,2-Dichlorobenzene	1.018	1.018	1.014	0.950
1,3-Dichlorobenzene	1.062	1.054	1.067	0.983
1,4-Dichlorobenzene	1.124	1.106	1.096	1.012
Dichlorodifluoromethane	0.355	0.367	0.380	0.348
1,1-Dichloroethane	0.321	0.324	0.322	0.317
1,2-Dichloroethane	0.398	0.386	0.364	0.331
1,1-Dichloroethene	0.148	0.162	0.158	0.161
cis-1,2-Dichloroethene	0.200	0.199	0.200	0.197

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2-Dichloroethene(total)	0.185	0.188	0.189	0.187
trans-1,2-Dichloroethene	0.171	0.176	0.177	0.177
1,2-Dichloropropane	0.163	0.172	0.182	0.183
1,3-Dichloropropane	0.626	0.615	0.602	0.566
2,2-Dichloropropane	0.355	0.361	0.351	0.335
1,1-Dichloropropene	0.260	0.304	0.312	0.305
cis-1,3-Dichloropropene	0.347	0.363	0.373	0.364
trans-1,3-Dichloropropene	0.628	0.629	0.619	0.584
Ethylbenzene	1.998	2.184	2.110	1.717
Ethyl methacrylate	0.443	0.464	0.470	0.438
Hexachlorobutadiene	0.195	0.195	0.191	0.201
2-Hexanone	0.169	0.192	0.184	0.166
Iodomethane	0.300	0.328	0.322	0.265
Isopropylbenzene	1.442	1.762	1.797	1.546
p-Isopropyltoluene	1.142	1.160	1.175	1.160
Methyl acetate	0.096	0.096	0.095	0.089
Methylene chloride	0.192	0.185	0.196	0.193
Methyl cyclohexane	0.252	0.261	0.276	0.278
Methyl methacrylate	0.128	0.141	0.144	0.140
4-Methyl-2-pentanone	0.119	0.136	0.136	0.129
MTBE	0.504	0.539	0.534	0.511
Naphthalene	0.641	0.689	0.782	0.794
n-Propylbenzene	1.951	2.004	2.037	1.767
Styrene	1.157	1.411	1.442	1.293
1,1,1,2-Tetrachloroethane	0.543	0.536	0.524	0.488
1,1,2,2-Tetrachloroethane	0.519	0.445	0.429	0.399
Tetrachloroethene	0.529	0.532	0.526	0.494
Tetrahydrofuran	0.022	0.028	0.028	0.028
Toluene	1.034	1.002	0.982	0.923
1,2,3-Trichlorobenzene	0.359	0.367	0.400	0.413
1,2,4-Trichlorobenzene	0.429	0.441	0.482	0.499
1,1,1-Trichloroethane	0.441	0.458	0.435	0.406
1,1,2-Trichloroethane	0.283	0.287	0.274	0.267
Trichloroethene	0.234	0.242	0.254	0.250
Trichlorofluoromethane	0.444	0.456	0.442	0.412
Trichlorotrifluoroethane	0.178	0.181	0.180	0.175
1,2,3-Trichloropropane	0.170	0.178	0.169	0.151

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2,4-Trimethylbenzene	1.510	1.536	1.541	1.398
1,3,5-Trimethylbenzene	1.604	1.621	1.593	1.431
Vinyl acetate	0.244	0.267	0.271	0.269
Vinyl chloride	0.242	0.253	0.284	0.279
m,p-Xylene	1.569	1.752	1.657	1.227
Xylene(total)	1.595	1.824	1.803	1.495
1-Chlorohexane	0.429	0.499	0.523	0.488
Di-isopropyl ether	0.342	0.421	0.430	0.437
ETBE	0.496	0.526	0.526	0.524
Dibromofluoromethane	0.309	0.296	0.284	0.273
1,2-Dichloroethane-d4	0.052	0.049	0.051	0.049
Toluene-d8	2.103	1.917	1.882	1.786
Bromofluorobenzene	0.856	0.948	0.937	0.848

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	0.00000000	5.76e-002		0.996
Acrolein	2ORDR	0.00000000	74.1635803	172.943100	0.996
Acrylonitrile	LINR	0.00000000	3.745e-002		0.999
tert-Amyl Methyl Ether	LINR	0.00000000	0.52646955		0.999
Benzene	AVRG		0.74936466		6.2
Bromobenzene	AVRG		0.73319414		7.8
Bromochloromethane	AVRG		0.11403064		6.0
Bromodichloromethane	AVRG		0.34935328		8.7
Bromoform	AVRG		0.35702151		10.5
Bromomethane	LINR	0.00000000	0.16913267		0.999
2-Butanone	LINR	0.00000000	5.487e-002		0.998
t-Butyl alcohol	LINR	0.00000000	1.361e-002		0.999
n-Butylbenzene	AVRG		0.86957740		13.6
sec-Butylbenzene	AVRG		1.40717376		8.8
tert-Butylbenzene	AVRG		1.31307756		13.3
Carbon disulfide	AVRG		0.44386588		6.4
Carbon tetrachloride	AVRG		0.39828929		7.5
Chlorobenzene	AVRG		1.26157735		5.8
Chloroethane	AVRG		9.932e-002		11.7
2-Chloroethyl vinyl ether	LINR	0.00000000	0.10581600		0.999
Chloroform	AVRG		0.41810680		7.4
Chloromethane	AVRG		0.19811570		8.4
2-Chlorotoluene	AVRG		1.55061905		6.7
4-Chlorotoluene	AVRG		1.57407502		11.6
Cyclohexane	AVRG		0.19248588		14.8
Dibromochloromethane	AVRG		0.51771888		8.3
1,2-Dibromo-3-chloropropane	LINR	0.00000000	0.10468469		1.000
1,2-Dibromoethane	AVRG		0.40773760		4.6
Dibromomethane	AVRG		0.14278525		3.0
1,2-Dichlorobenzene	AVRG		0.97636854		5.1
1,3-Dichlorobenzene	AVRG		1.05901106		6.1
1,4-Dichlorobenzene	AVRG		1.08470469		8.9
Dichlorodifluoromethane	AVRG		0.34159696		9.6
1,1-Dichloroethane	LINR	0.00000000	0.31800394		1.000
1,2-Dichloroethane	AVRG		0.37498337		8.8
1,1-Dichloroethene	AVRG		0.14997633		8.7
cis-1,2-Dichloroethene	AVRG		0.19132585		9.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethene(total)	AVRG		0.17809112		11.6
trans-1,2-Dichloroethene	AVRG		0.16485640		14.7
1,2-Dichloropropane	AVRG		0.15959500		12.5
1,3-Dichloropropane	AVRG		0.62224193		7.4
2,2-Dichloropropane	AVRG		0.32839573		12.0
1,1-Dichloropropene	AVRG		0.27152113		13.2
cis-1,3-Dichloropropene	AVRG		0.32107417		12.7
trans-1,3-Dichloropropene	AVRG		0.56875012		9.8
Ethylbenzene	AVRG		1.92786106		9.0
Ethyl methacrylate	LINR	0.00000000	0.44540796		0.998
Hexachlorobutadiene	AVRG		0.20632715		11.6
2-Hexanone	LINR	0.00000000	0.17067238		0.995
Iodomethane	2ORDR	0.00000000	2.49345366	0.70678088	0.998
Isopropylbenzene	AVRG		1.50689745		14.1
p-Isopropyltoluene	AVRG		1.19086732		10.9
Methyl acetate	LINR	0.00000000	9.096e-002		0.999
Methylene chloride	LINR	0.00000000	0.19324012		1.000
Methyl cyclohexane	LINR	0.00000000	0.27646601		1.000
Methyl methacrylate	LINR	0.00000000	0.14090210		0.999
4-Methyl-2-pentanone	LINR	0.00000000	0.13035333		0.999
MTBE	AVRG		0.46464281		14.4
Naphthalene	AVRG		0.67244342		12.5
n-Propylbenzene	AVRG		1.92153577		5.9
Styrene	LINR	0.00000000	1.32803718		0.997
1,1,1,2-Tetrachloroethane	AVRG		0.52069955		5.1
1,1,2,2-Tetrachloroethane	AVRG		0.48163352		11.6
Tetrachloroethene	AVRG		0.53505123		6.9
Tetrahydrofuran	AVRG		2.579e-002		11.6
Toluene	AVRG		1.00157009		6.4
1,2,3-Trichlorobenzene	AVRG		0.36416616		11.6
1,2,4-Trichlorobenzene	AVRG		0.45660783		12.3
1,1,1-Trichloroethane	AVRG		0.40775542		11.5
1,1,2-Trichloroethane	AVRG		0.27413625		9.0
Trichloroethene	LINR	0.00000000	0.25041513		1.000
Trichlorofluoromethane	AVRG		0.43588637		7.9
Trichlorotrifluoroethane	LINR	0.00000000	0.17617907		1.000
1,2,3-Trichloropropane	AVRG		0.17137956		13.6

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423

Instrument ID: VOA3 Calibration Date(s): 12/17/08 12/17/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1502 1931

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2,4-Trimethylbenzene	AVRG		1.43507335		6.3
1,3,5-Trimethylbenzene	AVRG		1.49693762		7.8
Vinyl acetate	LINR	0.00000000	0.26912661		1.000
Vinyl chloride	AVRG		0.26024336		8.3
m,p-Xylene	AVRG		1.51503038		11.0
Xylene(total)	AVRG		1.58376031		8.9
1-Chlorohexane	AVRG		0.47255627		10.3
Di-isopropyl ether	LINR	0.00000000	0.43399077		0.999
ETBE	LINR	0.00000000	0.52399083		1.000
Dibromofluoromethane	AVRG		0.29866481		4.5
1,2-Dichloroethane-d4	AVRG		5.157e-002		3.7
Toluene-d8	AVRG		2.01948899		6.1
Bromofluorobenzene	AVRG		0.87218030		4.9

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423A

Instrument ID: VOA3 Calibration Date: 12/17/08 Time: 1831

Lab File ID: V3ICV01 Init. Calib. Date(s): 12/17/08 12/17/08

Heated Purge: (Y/N) N Init. Calib. Times: 1502 1931

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.060	0.064	100.0	111.8		LINR	11.8	25.0	
Acrolein	0.007	0.015	250.0	368.5		2ORDR	47.4	25.0	<
Acrylonitrile	0.034	0.040	250.0	269.0		LINR	7.6	25.0	
tert-Amyl Methyl Ether	0.603	0.587	50.00	55.77		LINR	11.5	25.0	
Benzene	0.749	0.754	50.00	50.33		AVRG	0.7	25.0	
Bromobenzene	0.733	0.720	50.00	49.09		AVRG	-1.8	25.0	
Bromochloromethane	0.114	0.116	50.00	50.93		AVRG	1.8	25.0	
Bromodichloromethane	0.349	0.373	50.00	53.45		AVRG	6.9	25.0	
Bromoform	0.357	0.378	50.00	52.93	0.100	AVRG	5.9	25.0	
Bromomethane	0.149	0.133	50.00	39.36		LINR	-21.3	25.0	
2-Butanone	0.056	0.059	100.0	107.7		LINR	7.7	25.0	
t-Butyl alcohol	0.011	0.015	250.0	270.3		LINR	8.1	25.0	
n-Butylbenzene	0.870	0.809	50.00	46.52		AVRG	-6.9	25.0	
sec-Butylbenzene	1.407	1.336	50.00	47.47		AVRG	-5.1	25.0	
tert-Butylbenzene	1.313	1.216	50.00	46.29		AVRG	-7.4	25.0	
Carbon disulfide	0.444	0.535	50.00	60.26		AVRG	20.5	25.0	
Carbon tetrachloride	0.398	0.413	50.00	51.85		AVRG	3.7	25.0	
Chlorobenzene	1.262	1.254	50.00	49.72	0.300	AVRG	-0.6	25.0	
Chloroethane	0.099	0.084	50.00	42.47		AVRG	-15.0	25.0	
2-Chloroethyl vinyl ether	0.085	0.112	100.0	105.7		LINR	5.7	25.0	
Chloroform	0.418	0.418	50.00	50.06		AVRG	0.1	25.0	
Chloromethane	0.198	0.186	50.00	46.98	0.100	AVRG	-6.0	25.0	
2-Chlorotoluene	1.550	1.527	50.00	49.25		AVRG	-1.5	25.0	
4-Chlorotoluene	1.574	1.722	50.00	54.69		AVRG	9.4	25.0	
Cyclohexane	0.192	0.228	50.00	59.15		AVRG	18.3	25.0	
Dibromochloromethane	0.518	0.528	50.00	51.00		AVRG	2.0	25.0	
1,2-Dibromo-3-chloropropane	0.104	0.100	50.00	47.59		LINR	-4.8	25.0	
1,2-Dibromoethane	0.408	0.398	50.00	48.81		AVRG	-2.4	25.0	
Dibromomethane	0.143	0.145	50.00	50.69		AVRG	1.4	25.0	
1,2-Dichlorobenzene	0.976	1.003	50.00	51.37		AVRG	2.7	25.0	
1,3-Dichlorobenzene	1.059	1.042	50.00	49.22		AVRG	-1.6	25.0	
1,4-Dichlorobenzene	1.085	1.220	50.00	56.23		AVRG	12.5	25.0	
Dichlorodifluoromethane	0.342	0.343	50.00	50.22		AVRG	0.4	25.0	
1,1-Dichloroethane	0.278	0.326	50.00	51.18	0.100	LINR	2.4	25.0	
1,2-Dichloroethane	0.375	0.381	50.00	50.81		AVRG	1.6	25.0	
1,1-Dichloroethene	0.150	0.158	50.00	52.84		AVRG	5.7	25.0	
cis-1,2-Dichloroethene	0.191	0.193	50.00	50.45		AVRG	0.9	25.0	

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423A

Instrument ID: VOA3 Calibration Date: 12/17/08 Time: 1831

Lab File ID: V3ICV01 Init. Calib. Date(s): 12/17/08 12/17/08

Heated Purge: (Y/N) N Init. Calib. Times: 1502 1931

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene(total)	0.178	0.182	100.0	102.4		AVRG	2.4	25.0
trans-1,2-Dichloroethene	0.165	0.172	50.00	52.12		AVRG	4.2	25.0
1,2-Dichloropropane	0.160	0.173	50.00	54.10		AVRG	8.2	25.0
1,3-Dichloropropane	0.622	0.571	50.00	45.88		AVRG	-8.2	25.0
2,2-Dichloropropane	0.328	0.348	50.00	52.97		AVRG	5.9	25.0
1,1-Dichloropropene	0.272	0.292	50.00	53.72		AVRG	7.4	25.0
cis-1,3-Dichloropropene	0.321	0.361	50.00	56.24		AVRG	12.5	25.0
trans-1,3-Dichloropropene	0.569	0.655	50.00	57.59		AVRG	15.2	25.0
Ethylbenzene	1.928	2.150	50.00	55.77		AVRG	11.5	25.0
Ethyl methacrylate	0.351	0.470	50.00	52.71		LINR	5.4	25.0
Hexachlorobutadiene	0.206	0.194	50.00	47.07		AVRG	-5.9	25.0
2-Hexanone	0.116	0.185	100.0	108.4		LINR	8.4	25.0
Iodomethane	0.234	0.325	50.00	46.81		2ORDR	-6.4	25.0
Isopropylbenzene	1.507	1.736	50.00	57.60		AVRG	15.2	25.0
p-Isopropyltoluene	1.191	1.120	50.00	47.04		AVRG	-5.9	25.0
Methyl acetate	0.088	0.103	50.00	56.48		LINR	13.0	25.0
Methylene chloride	0.251	0.180	50.00	46.50		LINR	-7.0	25.0
Methyl cyclohexane	0.231	0.278	50.00	50.31		LINR	0.6	25.0
Methyl methacrylate	0.117	0.148	50.00	52.35		LINR	4.7	25.0
4-Methyl-2-pentanone	0.087	0.135	100.0	103.7		LINR	3.7	25.0
MTBE	0.465	0.554	100.00	119.2		AVRG	2.8	25.0
Naphthalene	0.672	0.696	50.00	51.79		AVRG	3.6	25.0
n-Propylbenzene	1.921	1.995	50.00	51.92		AVRG	3.8	25.0
Styrene	1.118	1.351	50.00	50.87		LINR	1.7	25.0
1,1,1,2-Tetrachloroethane	0.521	0.509	50.00	48.84		AVRG	-2.3	25.0
1,1,2,2-Tetrachloroethane	0.482	0.475	50.00	49.28	0.300	AVRG	-1.4	25.0
Tetrachloroethene	0.535	0.496	50.00	46.39		AVRG	-7.2	25.0
Tetrahydrofuran	0.026	0.031	50.00	60.81		AVRG	21.6	25.0
Toluene	1.001	1.020	50.00	50.90		AVRG	1.8	25.0
1,2,3-Trichlorobenzene	0.364	0.370	50.00	50.76		AVRG	1.5	25.0
1,2,4-Trichlorobenzene	0.457	0.406	50.00	44.43		AVRG	-11.1	25.0
1,1,1-Trichloroethane	0.408	0.428	50.00	52.48		AVRG	5.0	25.0
1,1,2-Trichloroethane	0.274	0.264	50.00	48.17		AVRG	-3.7	25.0
Trichloroethene	0.220	0.238	50.00	47.43		LINR	-5.1	25.0
Trichlorofluoromethane	0.436	0.420	50.00	48.16		AVRG	-3.7	25.0
Trichlorotrifluoroethane	0.146	0.194	50.00	55.08		LINR	10.2	25.0
1,2,3-Trichloropropane	0.171	0.168	50.00	48.88		AVRG	-2.2	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA93423A

Instrument ID: VOA3 Calibration Date: 12/17/08 Time: 1831

Lab File ID: V3ICV01 Init. Calib. Date(s): 12/17/08 12/17/08

Heated Purge: (Y/N) N Init. Calib. Times: 1502 1931

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.435	1.456	50.00	50.73		AVRG	1.5	25.0
1,3,5-Trimethylbenzene	1.497	1.585	50.00	52.95		AVRG	5.9	25.0
Vinyl acetate	0.230	0.276	100.0	102.5		LINR	2.5	25.0
Vinyl chloride	0.260	0.224	50.00	43.12		AVRG	-13.8	25.0
Xylene(total)	1.584	1.787	150.0	165.4		AVRG	12.8	25.0
1-Chlorohexane	0.472	0.482	50.00	51.06		AVRG	2.1	25.0
Di-isopropyl ether	0.309	0.441	50.00	50.82		LINR	1.6	25.0
ETBE	0.448	0.539	50.00	51.46		LINR	2.9	25.0
Dibromofluoromethane	0.298	0.298	30.00	29.97		AVRG	-0.1	25.0
1,2-Dichloroethane-d4	0.052	0.052	30.00	30.24		AVRG	0.8	25.0
Toluene-d8	2.019	1.958	30.00	29.09		AVRG	-3.0	25.0
Bromofluorobenzene	0.872	0.911	30.00	31.35		AVRG	4.5	25.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

LAB FILE ID: RF0.5: V4ASTD02 RF1: V4ASTD03 RF2: V4ASTD04
RF10: V4ASTD05 RF20: V4ASTD06

COMPOUND	RF0.5	RF1	RF2	RF10	RF20
Acetonitrile	0.081	0.067	0.060	0.054	0.053
Allyl chloride	0.582	0.572	0.534	0.529	0.496
Chloroprene	0.373	0.367	0.379	0.321	0.314
cis-1,4-Dichloro-2-butene	0.400	0.334	0.279	0.244	0.239
trans-1,4-Dichloro-2-butene	0.458	0.303	0.305	0.279	0.262
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003
Hexane	0.200	0.199	0.172	0.186	0.165
Isobutyl alcohol	0.029	0.026	0.015	0.015	0.014
Methacrylonitrile	0.240	0.232	0.233	0.212	0.209
Propionitrile	0.052	0.043	0.050	0.045	0.044

FORM VI VOA

DL 4/3/08

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

LAB FILE ID: RF50: V4ASTD07 RF100: V4ASTD08 RF200: V4ASTD9A

COMPOUND	RF50	RF100	RF200
Acetonitrile	0.051	0.052	0.047
Allyl chloride	0.498	0.498	0.455
Chloroprene	0.323	0.312	0.304
cis-1,4-Dichloro-2-butene	0.231	0.224	0.204
trans-1,4-Dichloro-2-butene	0.250	0.250	0.231
1,4-Dioxane	0.003	0.003	0.003
Hexane	0.169	0.174	0.170
Isobutyl alcohol	0.013	0.013	
Methacrylonitrile	0.198	0.192	0.156
Propionitrile	0.043	0.043	0.040

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract: SHAW E&I

Lab Code: EL Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date(s): 03/05/08 04/02/08

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 0908 2044

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetonitrile	LINR	0.00000000	4.848e-002	0.997
Allyl chloride	AVRG		0.52047444	8.2
Chloroprene	AVRG		0.33667300	9.1
cis-1,4-Dichloro-2-butene	LINR	0.00000000	0.20967717	0.997
trans-1,4-Dichloro-2-butene	LINR	0.00000000	0.23628929	0.998
1,4-Dioxane	AVRG		2.996e-003	9.2
Hexane	AVRG		0.17952069	7.8
Isobutyl alcohol	LINR	0.00000000	1.292e-002	0.998
Methacrylonitrile	AVRG		0.20905414	13.1
Propionitrile	AVRG		4.492e-002	8.6

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23987

Instrument ID: VOA4 Calibration Date: 04/02/08 Time: 1817

Lab File ID: V4ICVAP9 Init. Calib. Date(s): 03/05/08 04/02/08

Heated Purge: (Y/N) N Init. Calib. Times: 0908 2044

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.058	0.054	500.0	557.3		LINR	11.4	25.0
Allyl chloride	0.518	0.550	50.00	53.07		AVRG	6.1	25.0
Chloroprene	0.335	0.412	50.00	61.49		AVRG	23.0	25.0
cis-1,4-Dichloro-2-butene	0.269	0.253	50.00	60.87		LINR	21.7	25.0
trans-1,4-Dichloro-2-butene	0.293	0.255	50.00	53.25		LINR	6.5	25.0
1,4-Dioxane	0.003	0.003	1000	991.7		AVRG	-0.8	25.0
Hexane	0.179	0.198	50.00	55.40		AVRG	10.8	25.0
Isobutyl alcohol	0.018	0.013	1000	987.8		LINR	-1.2	25.0
Methacrylonitrile	0.209	0.208	500.0	498.3		AVRG	-0.3	25.0
Propionitrile	0.045	0.045	500.0	500.0		AVRG	0.0	25.0

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FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

LAB FILE ID: RF2: V1STDAP1 RF5: V1STDAP2 RF10: V1STDAP3
RF20: V1STDAP4 RF50: V1STDAP5

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetonitrile	0.031	0.036	0.036	0.039	0.041
Allyl chloride	0.169	0.183	0.167	0.182	0.187
Chloroprene	0.560	0.516	0.499	0.563	0.590
cis-1,4-Dichloro-2-butene	0.348	0.339	0.327	0.357	0.367
trans-1,4-Dichloro-2-butene	0.389	0.397	0.398	0.393	0.433
1,4-Dioxane	0.002	0.002	0.002	0.003	0.003
Hexane	0.408	0.391	0.387	0.428	0.434
Isobutyl alcohol	0.012	0.013	0.014	0.014	0.016
Methacrylonitrile	0.162	0.212	0.221	0.247	0.262
Propionitrile	0.028	0.035	0.033	0.039	0.042

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FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

LAB FILE ID: RF100: V1STDAP6 RF200: V1STDAP7

COMPOUND	RF100	RF200
Acetonitrile	0.042	0.038
Allyl chloride	0.182	0.181
Chloroprene	0.580	0.576
cis-1,4-Dichloro-2-butene	0.398	0.372
trans-1,4-Dichloro-2-butene	0.451	0.426
1,4-Dioxane	0.003	0.003
Hexane	0.431	0.421
Isobutyl alcohol	0.018	0.017
Methacrylonitrile	0.257	0.245
Propionitrile	0.043	0.038

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA91895B

Instrument ID: VOA1 Calibration Date(s): 12/18/08 12/18/08

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0051 0524

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
Acetonitrile	AVRG		3.768e-002	9.8
Allyl chloride	AVRG		0.17878399	4.2
Chloroprene	AVRG		0.55494448	6.2
cis-1,4-Dichloro-2-butene	AVRG		0.35833198	6.5
trans-1,4-Dichloro-2-butene	AVRG		0.41243765	5.8
1,4-Dioxane	AVRG		2.586e-003	12.5
Hexane	AVRG		0.41419803	4.6
Isobutyl alcohol	LINR	0.00000000	1.752e-002	0.999
Methacrylonitrile	LINR	0.00000000	0.24804434	0.999
Propionitrile	AVRG		3.668e-002	14.2

Data File: \\ELABNSH05\TARGET\chem\voa1.i\121708V1.b\V1ICVAP9.D
Report Date: 19-Dec-2008 13:00

Empirical Laboratories, LLC

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: V1BLK1217LCS
Level: LOW
Data Type: MS DATA
SpikeList File: c2nds5ap9.spk
Sublist File: all.sub
Client SDG: SDGa91895
Fraction: VOA
Client Smp ID: V1BLK1217LCS
Operator: JH
SampleType: LCS
Quant Type: ISTD
Method File: \\ELABNSH05\TARGET\chem\voa1.i\121708V1.b\VSOIL1.m
Misc Info: ;3;LCS;;;gm-allap9.sub;#5604,5630

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	10 Acetonitrile	500.0	490.5	98.10	75-125
	23 Allyl chloride	50.00	50.68	101.36	75-125
	31 Propionitrile	500.0	519.6	103.92	75-125
	34 Chloroprene	50.00	57.78	115.56	75-125
	39 Methacrylonitrile	500.0	493.3	98.66	75-125
	47 Isobutyl alcohol	1000	874.0	87.40	75-125
	66 1,4-Dioxane	1000	1069	106.90	75-125
	98 trans-1,4-Dichloro	50.00	48.62	97.24	75-125
$	46 Dibromofluorometha	30.00	30.36	101.20	75-125
$	50 1,2-Dichloroethane	30.00	31.31	104.37	75-125
$	77 Toluene-d8	30.00	32.60	108.67	75-125
$	101 Bromofluorobenzene	30.00	29.86	99.53	75-125

	SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$	46 Dibromofluorometha	30.00	30.36	101.20	80-125
$	50 1,2-Dichloroethane	30.00	31.31	104.37	75-140
$	77 Toluene-d8	30.00	32.60	108.67	80-120
$	101 Bromofluorobenzene	30.00	29.86	99.53	80-125

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
Acetone	0.282	0.155	0.140	0.045	0.093
Acrolein	0.026	0.022	0.020	0.019	0.017
Acrylonitrile	0.101	0.103	0.099	0.107	0.106
tert-Amyl Methyl Ether	2.025	1.202	0.838	0.662	0.519
Benzene	0.774	0.791	0.779	0.752	0.759
Bromobenzene	0.688	0.644	0.633	0.626	0.630
Bromochloromethane	0.073	0.125	0.109	0.117	0.120
Bromodichloromethane	0.235	0.261	0.239	0.236	0.258
Bromoform	0.197	0.277	0.234	0.280	0.282
Bromomethane	0.176	0.142	0.137	0.118	0.119
2-Butanone			0.058	0.048	0.104
t-Butyl alcohol		0.012	0.019	0.020	0.019
n-Butylbenzene	1.049	0.963	0.974	0.894	0.953
sec-Butylbenzene	1.589	1.585	1.630	1.581	1.604
tert-Butylbenzene	1.750	1.398	1.398	1.368	1.383
Carbon disulfide	0.555	0.483	0.530	0.531	0.509
Carbon tetrachloride	0.243	0.228	0.260	0.236	0.250
Chlorobenzene	1.573	1.628	1.632	1.626	1.534
Chloroethane	0.112	0.143	0.154	0.142	0.138
2-Chloroethyl vinyl ether	0.124	0.145	0.143	0.154	0.159
Chloroform	0.443	0.371	0.375	0.370	0.350
Chloromethane	0.568	0.443	0.428	0.388	0.384
2-Chlorotoluene	1.432	1.280	1.341	1.345	1.330
4-Chlorotoluene	1.648	1.391	1.294	1.365	1.338
Cyclohexane	0.440	0.324	0.452	0.430	0.388
Dibromochloromethane	0.324	0.373	0.372	0.384	0.395
1,2-Dibromo-3-chloropropane	0.048	0.080	0.090	0.087	0.087
1,2-Dibromoethane	0.465	0.425	0.446	0.447	0.466
Dibromomethane	0.127	0.145	0.126	0.128	0.129
1,2-Dichlorobenzene	1.137	1.097	1.093	1.073	1.060
1,3-Dichlorobenzene	1.237	1.148	1.112	1.185	1.153
1,4-Dichlorobenzene	1.274	1.245	1.178	1.144	1.148
Dichlorodifluoromethane	0.189	0.158	0.184	0.189	0.189
1,1-Dichloroethane	0.441	0.421	0.226	0.418	0.410
1,2-Dichloroethane	0.363	0.364	0.352	0.365	0.359
1,1-Dichloroethene	0.180	0.165	0.169	0.171	0.158
cis-1,2-Dichloroethene	0.118	0.120	0.202	0.200	0.216

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2-Dichloroethene(total)	0.161	0.161	0.213	0.199	0.205
trans-1,2-Dichloroethene	0.204	0.202	0.224	0.198	0.194
1,2-Dichloropropane	0.248	0.227	0.245	0.239	0.252
1,3-Dichloropropane	0.638	0.658	0.654	0.680	0.680
2,2-Dichloropropane	0.246	0.158	0.286	0.254	0.232
1,1-Dichloropropene	0.246	0.244	0.258	0.252	0.241
cis-1,3-Dichloropropene	0.268	0.272	0.291	0.296	0.308
trans-1,3-Dichloropropene	0.465	0.528	0.501	0.525	0.549
Ethylbenzene	2.733	2.375	2.417	2.365	2.316
Ethyl methacrylate	0.336	0.452	0.447	0.454	0.488
Hexachlorobutadiene	0.391	0.320	0.304	0.298	0.276
2-Hexanone		0.170	0.352	0.356	0.393
Iodomethane	0.158	0.240	0.237	0.258	0.307
Isopropylbenzene	2.270	2.034	2.034	1.975	1.967
p-Isopropyltoluene	1.473	1.148	1.237	1.280	1.283
Methyl acetate		0.269	0.196	0.217	0.229
Methylene chloride	0.159	0.227	0.200	0.200	0.195
Methyl cyclohexane	0.265	0.229	0.266	0.270	0.246
Methyl methacrylate	0.186	0.150	0.185	0.253	0.252
4-Methyl-2-pentanone	0.183	0.221	0.220	0.260	0.273
MTBE	0.357	0.392	0.481	0.477	0.478
Naphthalene	0.798	0.722	0.656	0.609	0.660
n-Propylbenzene	2.073	1.974	1.844	1.932	1.968
Styrene	1.524	1.485	1.526	1.562	1.566
1,1,1,2-Tetrachloroethane	0.461	0.396	0.450	0.474	0.478
1,1,2,2-Tetrachloroethane	0.365	0.433	0.382	0.387	0.374
Tetrachloroethene	0.756	0.605	0.665	0.712	0.640
Tetrahydrofuran				0.050	0.078
Toluene	1.238	1.259	1.198	1.205	1.154
1,2,3-Trichlorobenzene	0.480	0.506	0.448	0.404	0.402
1,2,4-Trichlorobenzene	0.596	0.571	0.512	0.486	0.511
1,1,1-Trichloroethane	0.379	0.302	0.323	0.311	0.309
1,1,2-Trichloroethane	0.324	0.345	0.357	0.332	0.328
Trichloroethene	0.254	0.246	0.246	0.228	0.235
Trichlorofluoromethane	0.353	0.301	0.356	0.360	0.314
Trichlorotrifluoroethane	0.112	0.160	0.185	0.175	0.163
1,2,3-Trichloropropane	0.174	0.189	0.196	0.172	0.180

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2,4-Trimethylbenzene	1.514	1.309	1.268	1.286	1.378
1,3,5-Trimethylbenzene	1.395	1.426	1.380	1.378	1.426
Vinyl acetate		0.464	0.508	0.526	0.544
Vinyl chloride	0.317	0.262	0.262	0.279	0.251
m,p-Xylene	2.231	1.978	1.884	1.901	1.855
Xylene(total)	2.194	2.048	2.066	1.995	1.939
Di-isopropyl ether		0.986	1.002	0.988	1.005
ETBE	0.692	0.700	0.689	0.721	0.739
Dibromofluoromethane	0.257	0.260	0.264	0.256	0.262
1,2-Dichloroethane-d4	0.057	0.057	0.057	0.054	0.055
Toluene-d8	2.225	2.248	2.255	2.271	2.202
Bromofluorobenzene	1.025	1.018	1.027	1.039	1.015

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
Acetone	0.073	0.090	0.089	0.086
Acrolein	0.018	0.020	0.024	0.026
Acrylonitrile	0.107	0.103	0.104	0.098
tert-Amyl Methyl Ether	0.515	0.500	0.508	0.501
Benzene	0.757	0.749	0.738	0.694
Bromobenzene	0.621	0.621	0.618	0.616
Bromochloromethane	0.122	0.116	0.114	0.113
Bromodichloromethane	0.254	0.255	0.255	0.247
Bromoform	0.311	0.353	0.387	0.393
Bromomethane	0.132	0.137	0.132	0.137
2-Butanone	0.110	0.113	0.116	0.115
t-Butyl alcohol	0.020	0.020	0.021	0.020
n-Butylbenzene	0.973	0.969	1.008	0.963
sec-Butylbenzene	1.683	1.655	1.611	1.454
tert-Butylbenzene	1.427	1.399	1.380	1.266
Carbon disulfide	0.528	0.503	0.518	0.500
Carbon tetrachloride	0.271	0.270	0.274	0.262
Chlorobenzene	1.542	1.480	1.375	1.177
Chloroethane	0.134	0.137	0.138	0.137
2-Chloroethyl vinyl ether	0.163	0.162	0.165	0.160
Chloroform	0.355	0.338	0.338	0.321
Chloromethane	0.374	0.356	0.363	0.336
2-Chlorotoluene	1.319	1.312	1.275	1.208
4-Chlorotoluene	1.358	1.328	1.284	1.209
Cyclohexane	0.438	0.429	0.430	0.398
Dibromochloromethane	0.432	0.463	0.481	0.470
1,2-Dibromo-3-chloropropane	0.092	0.104	0.113	0.122
1,2-Dibromoethane	0.475	0.460	0.455	0.434
Dibromomethane	0.129	0.124	0.124	0.119
1,2-Dichlorobenzene	1.044	1.044	1.013	0.962
1,3-Dichlorobenzene	1.120	1.115	1.084	1.036
1,4-Dichlorobenzene	1.136	1.116	1.068	0.992
Dichlorodifluoromethane	0.210	0.199	0.194	0.179
1,1-Dichloroethane	0.409	0.390	0.394	0.384
1,2-Dichloroethane	0.351	0.338	0.331	0.315
1,1-Dichloroethene	0.166	0.158	0.159	0.152
cis-1,2-Dichloroethene	0.214	0.206	0.206	0.200

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2-Dichloroethene(total)	0.205	0.198	0.198	0.191
trans-1,2-Dichloroethene	0.196	0.189	0.189	0.182
1,2-Dichloropropane	0.248	0.245	0.242	0.234
1,3-Dichloropropane	0.664	0.651	0.624	0.586
2,2-Dichloropropane	0.241	0.230	0.229	0.220
1,1-Dichloropropene	0.258	0.257	0.254	0.240
cis-1,3-Dichloropropene	0.317	0.320	0.322	0.307
trans-1,3-Dichloropropene	0.566	0.587	0.581	0.549
Ethylbenzene	2.341	2.215	2.020	1.653
Ethyl methacrylate	0.512	0.525	0.528	0.504
Hexachlorobutadiene	0.298	0.298	0.298	0.299
2-Hexanone	0.406	0.416	0.411	0.379
Iodomethane	0.249	0.247	0.347	0.285
Isopropylbenzene	2.066	1.974	1.818	1.508
p-Isopropyltoluene	1.333	1.339	1.303	1.233
Methyl acetate	0.232	0.219	0.225	0.216
Methylene chloride	0.202	0.200	0.191	0.186
Methyl cyclohexane	0.279	0.273	0.277	0.258
Methyl methacrylate	0.258	0.274	0.282	0.274
4-Methyl-2-pentanone	0.278	0.284	0.282	0.265
MTBE	0.486	0.475	0.492	0.484
Naphthalene	0.683	0.703	0.782	
n-Propylbenzene	1.945	1.928	1.832	1.628
Styrene	1.640	1.582	1.483	1.298
1,1,1,2-Tetrachloroethane	0.504	0.507	0.502	0.473
1,1,2,2-Tetrachloroethane	0.364	0.366	0.366	0.363
Tetrachloroethene	0.676	0.636	0.608	0.553
Tetrahydrofuran	0.074	0.075	0.078	0.077
Toluene	1.180	1.126	1.080	0.983
1,2,3-Trichlorobenzene	0.425	0.428	0.452	0.470
1,2,4-Trichlorobenzene	0.517	0.518	0.549	0.566
1,1,1-Trichloroethane	0.323	0.316	0.311	0.296
1,1,2-Trichloroethane	0.329	0.320	0.309	0.292
Trichloroethene	0.239	0.228	0.225	0.212
Trichlorofluoromethane	0.354	0.324	0.322	0.292
Trichlorotrifluoroethane	0.185	0.175	0.170	0.157
1,2,3-Trichloropropane	0.176	0.177	0.172	0.164

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2,4-Trimethylbenzene	1.366	1.361	1.356	1.285
1,3,5-Trimethylbenzene	1.445	1.446	1.402	1.309
Vinyl acetate	0.569	0.562	0.571	0.551
Vinyl chloride	0.279	0.261	0.255	0.240
m,p-Xylene	1.873	1.714	1.487	
Xylene(total)	1.984	1.860	1.677	1.392
Di-isopropyl ether	0.991	0.974	1.008	0.983
ETBE	0.718	0.718	0.756	0.748
Dibromofluoromethane	0.253	0.245	0.240	0.234
1,2-Dichloroethane-d4	0.054	0.052	0.054	0.053
Toluene-d8	2.235	2.182	2.159	2.049
Bromofluorobenzene	1.032	0.999	0.980	0.915

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	7.553e-003	8.632e-002		0.999
Acrolein	AVRG		2.154e-002		15.0
Acrylonitrile	AVRG		0.10307168		3.4
tert-Amyl Methyl Ether	LINR	0.00000000	0.50243046		1.000
Benzene	AVRG		0.75478716		3.7
Bromobenzene	AVRG		0.63302463		3.6
Bromochloromethane	AVRG		0.11228254		13.7
Bromodichloromethane	AVRG		0.24893022		4.0
Bromoform	LINR	6.093e-002	0.39480171		0.999
Bromomethane	AVRG		0.13676313		12.5
2-Butanone	LINR	6.498e-002	0.11609782		1.000
t-Butyl alcohol	LINR	4.671e-002	2.063e-002		0.999
n-Butylbenzene	AVRG		0.97170157		4.3
sec-Butylbenzene	AVRG		1.59899620		4.0
tert-Butylbenzene	AVRG		1.41890980		9.3
Carbon disulfide	AVRG		0.51738633		4.1
Carbon tetrachloride	AVRG		0.25489180		6.4
Chlorobenzene	AVRG		1.50761747		9.9
Chloroethane	AVRG		0.13729471		8.1
2-Chloroethyl vinyl ether	AVRG		0.15273772		8.7
Chloroform	AVRG		0.36220342		9.8
Chloromethane	LINR	0.00000000	0.34273263		0.998
2-Chlorotoluene	AVRG		1.31594551		4.6
4-Chlorotoluene	AVRG		1.35722239		9.0
Cyclohexane	AVRG		0.41422228		9.5
Dibromochloromethane	AVRG		0.41048138		13.1
1,2-Dibromo-3-chloropropane	LINR	8.252e-002	0.12176680		0.998
1,2-Dibromoethane	AVRG		0.45273161		3.5
Dibromomethane	AVRG		0.12798810		5.6
1,2-Dichlorobenzene	AVRG		1.05813084		4.8
1,3-Dichlorobenzene	AVRG		1.13253876		5.1
1,4-Dichlorobenzene	AVRG		1.14463806		7.4
Dichlorodifluoromethane	AVRG		0.18794056		7.6
1,1-Dichloroethane	LINR	0.00000000	0.38667889		1.000
1,2-Dichloroethane	AVRG		0.34875012		5.0
1,1-Dichloroethene	AVRG		0.16422427		5.1
cis-1,2-Dichloroethene	LINR	0.00000000	0.20185856		1.000

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethene (total)	AVRG		0.19238721		9.7
trans-1,2-Dichloroethene	AVRG		0.19764393		6.0
1,2-Dichloropropane	AVRG		0.24224033		3.2
1,3-Dichloropropane	AVRG		0.64842571		4.5
2,2-Dichloropropane	AVRG		0.23308239		14.6
1,1-Dichloropropene	AVRG		0.24999122		2.9
cis-1,3-Dichloropropene	AVRG		0.30014335		6.6
trans-1,3-Dichloropropene	AVRG		0.53922594		7.3
Ethylbenzene	AVRG		2.27058718		13.1
Ethyl methacrylate	AVRG		0.47183576		12.7
Hexachlorobutadiene	AVRG		0.30912662		10.6
2-Hexanone	LINR	0.00000000	0.38742739		0.998
Iodomethane	2ORDR	8.615e-002	2.62466418	0.41429186	0.991
Isopropylbenzene	AVRG		1.96057056		10.6
p-Isopropyltoluene	AVRG		1.29225559		6.9
Methyl acetate	AVRG		0.22542013		9.2
Methylene chloride	AVRG		0.19555608		9.0
Methyl cyclohexane	AVRG		0.26262672		6.1
Methyl methacrylate	LINR	9.178e-003	0.27592963		1.000
4-Methyl-2-pentanone	AVRG		0.25173213		14.0
MTBE	AVRG		0.45794733		10.6
Naphthalene	2ORDR	0.00000000	1.53083027	-9.69e-002	1.000
n-Propylbenzene	AVRG		1.90254968		6.6
Styrene	AVRG		1.51848031		6.3
1,1,1,2-Tetrachloroethane	AVRG		0.47163646		7.4
1,1,2,2-Tetrachloroethane	AVRG		0.37790783		5.9
Tetrachloroethene	AVRG		0.65021642		9.3
Tetrahydrofuran	AVRG		7.213e-002		14.8
Toluene	AVRG		1.15807202		7.4
1,2,3-Trichlorobenzene	AVRG		0.44614161		7.8
1,2,4-Trichlorobenzene	AVRG		0.53633190		6.7
1,1,1-Trichloroethane	AVRG		0.31889824		7.6
1,1,2-Trichloroethane	AVRG		0.32633075		5.8
Trichloroethene	AVRG		0.23490843		5.4
Trichlorofluoromethane	AVRG		0.33074495		7.8
Trichlorotrifluoroethane	AVRG		0.16456590		13.5
1,2,3-Trichloropropane	AVRG		0.17784199		5.4

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date(s): 03/14/09 03/14/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1317 1756

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2
1,2,4-Trimethylbenzene	AVRG		1.34691987		5.6
1,3,5-Trimethylbenzene	AVRG		1.40093398		3.0
Vinyl acetate	AVRG		0.53694147		6.8
Vinyl chloride	AVRG		0.26742078		8.4
m,p-Xylene	AVRG		1.86552667		11.3
Xylene(total)	AVRG		1.90617807		12.6
Di-isopropyl ether	AVRG		0.99213785		1.2
ETBE	AVRG		0.72018551		3.4
Dibromofluoromethane	AVRG		0.25242199		4.1
1,2-Dichloroethane-d4	AVRG		5.501e-002		3.3
Toluene-d8	AVRG		2.20283557		3.1
Bromofluorobenzene	AVRG		1.00571419		3.8

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date: 03/14/09 Time: 1646

Lab File ID: V3ICV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.117	0.086	100.0	100.4		LINR	0.4	25.0	
Acrolein	0.021	0.042	250.0	483.8		AVRG	93.5	25.0	<
Acrylonitrile	0.103	0.107	250.0	259.8		AVRG	3.9	25.0	
tert-Amyl Methyl Ether	0.808	0.507	50.00	50.43		LINR	0.9	25.0	
Benzene	0.755	0.782	50.00	51.80		AVRG	3.6	25.0	
Bromobenzene	0.633	0.628	50.00	49.60		AVRG	-0.8	25.0	
Bromochloromethane	0.112	0.112	50.00	50.04		AVRG	0.1	25.0	
Bromodichloromethane	0.249	0.262	50.00	52.60		AVRG	5.2	25.0	
Bromoform	0.302	0.341	50.00	45.02	0.100	LINR	-10.0	25.0	
Bromomethane	0.137	0.130	50.00	47.58		AVRG	-4.8	25.0	
2-Butanone	0.095	0.112	100.0	98.68		LINR	-1.3	25.0	
t-Butyl alcohol	0.019	0.020	250.0	250.2		LINR	0.1	25.0	
n-Butylbenzene	0.972	0.768	50.00	39.52		AVRG	-21.0	25.0	
sec-Butylbenzene	1.599	1.698	50.00	53.09		AVRG	6.2	25.0	
tert-Butylbenzene	1.419	1.369	50.00	48.23		AVRG	-3.5	25.0	
Carbon disulfide	0.517	0.568	50.00	54.91		AVRG	9.8	25.0	
Carbon tetrachloride	0.255	0.271	50.00	53.17		AVRG	6.3	25.0	
Chlorobenzene	1.507	1.481	50.00	49.12	0.300	AVRG	-1.8	25.0	
Chloroethane	0.137	0.138	50.00	50.18		AVRG	0.4	25.0	
2-Chloroethyl vinyl ether	0.153	0.165	100.0	108.3		AVRG	8.3	25.0	
Chloroform	0.362	0.327	50.00	45.17		AVRG	-9.6	25.0	
Chloromethane	0.404	0.382	50.00	55.71	0.100	LINR	11.4	25.0	
2-Chlorotoluene	1.316	1.296	50.00	49.22		AVRG	-1.6	25.0	
4-Chlorotoluene	1.357	1.359	50.00	50.08		AVRG	0.2	25.0	
Cyclohexane	0.414	0.441	50.00	53.26		AVRG	6.5	25.0	
Dibromochloromethane	0.410	0.486	50.00	59.24		AVRG	18.5	25.0	
1,2-Dibromo-3-chloropropane	0.091	0.100	50.00	43.39		LINR	-13.2	25.0	
1,2-Dibromoethane	0.452	0.452	50.00	49.95		AVRG	-0.1	25.0	
Dibromomethane	0.128	0.120	50.00	46.99		AVRG	-6.0	25.0	
1,2-Dichlorobenzene	1.058	1.050	50.00	49.62		AVRG	-0.8	25.0	
1,3-Dichlorobenzene	1.132	1.080	50.00	47.68		AVRG	-4.6	25.0	
1,4-Dichlorobenzene	1.144	1.205	50.00	52.64		AVRG	5.3	25.0	
Dichlorodifluoromethane	0.188	0.237	50.00	63.02		AVRG	26.0	25.0	<
1,1-Dichloroethane	0.388	0.401	50.00	51.92	0.100	LINR	3.8	25.0	
1,2-Dichloroethane	0.349	0.342	50.00	48.97		AVRG	-2.1	25.0	
1,1-Dichloroethene	0.164	0.168	50.00	51.22		AVRG	2.4	25.0	
cis-1,2-Dichloroethene	0.187	0.203	50.00	50.40		LINR	0.8	25.0	

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VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date: 03/14/09 Time: 1646

Lab File ID: V3ICV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene (total)	0.192	0.201	100.0	104.7		AVRG	4.7	25.0
trans-1,2-Dichloroethene	0.198	0.200	50.00	50.47		AVRG	0.9	25.0
1,2-Dichloropropane	0.242	0.249	50.00	51.47		AVRG	2.9	25.0
1,3-Dichloropropane	0.648	0.636	50.00	49.08		AVRG	-1.8	25.0
2,2-Dichloropropane	0.233	0.225	50.00	48.23		AVRG	-3.5	25.0
1,1-Dichloropropene	0.250	0.263	50.00	52.67		AVRG	5.3	25.0
cis-1,3-Dichloropropene	0.300	0.327	50.00	54.54		AVRG	9.1	25.0
trans-1,3-Dichloropropene	0.539	0.612	50.00	56.72		AVRG	13.4	25.0
Ethylbenzene	2.270	2.297	50.00	50.58		AVRG	1.2	25.0
Ethyl methacrylate	0.472	0.540	50.00	57.26		AVRG	14.5	25.0
Hexachlorobutadiene	0.309	0.328	50.00	53.07		AVRG	6.1	25.0
2-Hexanone	0.360	0.418	100.0	107.9		LINR	7.9	25.0
Iodomethane	0.259	0.349	50.00	52.63		2ORDR	5.3	25.0
Isopropylbenzene	1.961	2.334	50.00	59.53		AVRG	19.0	25.0
p-Isopropyltoluene	1.292	1.348	50.00	52.15		AVRG	4.3	25.0
Methyl acetate	0.225	0.228	50.00	50.68		AVRG	1.4	25.0
Methylene chloride	0.196	0.190	50.00	48.68		AVRG	-2.6	25.0
Methyl cyclohexane	0.262	0.275	50.00	52.42		AVRG	4.8	25.0
Methyl methacrylate	0.235	0.283	50.00	51.60		LINR	3.2	25.0
4-Methyl-2-pentanone	0.252	0.286	100.0	113.5		AVRG	13.5	25.0
MTBE	0.458	0.494	50.00	54.00		AVRG	8.0	25.0
Naphthalene	0.702	0.520	50.00	37.59		2ORDR	-24.8	25.0
n-Propylbenzene	1.903	1.880	50.00	49.41		AVRG	-1.2	25.0
Styrene	1.518	1.661	50.00	54.69		AVRG	9.4	25.0
1,1,1,2-Tetrachloroethane	0.472	0.512	50.00	54.24		AVRG	8.5	25.0
1,1,2,2-Tetrachloroethane	0.378	0.363	50.00	48.04	0.300	AVRG	-3.9	25.0
Tetrachloroethene	0.650	0.605	50.00	46.54		AVRG	-6.9	25.0
Tetrahydrofuran	0.072	0.078	50.00	54.34		AVRG	8.7	25.0
Toluene	1.158	1.155	50.00	49.89		AVRG	-0.2	25.0
1,2,3-Trichlorobenzene	0.446	0.353	50.00	39.58		AVRG	-20.8	25.0
1,2,4-Trichlorobenzene	0.536	0.426	50.00	39.72		AVRG	-20.6	25.0
1,1,1-Trichloroethane	0.319	0.303	50.00	47.47		AVRG	-5.1	25.0
1,1,2-Trichloroethane	0.326	0.305	50.00	46.70		AVRG	-6.6	25.0
Trichloroethene	0.235	0.236	50.00	50.27		AVRG	0.5	25.0
Trichlorofluoromethane	0.331	0.344	50.00	52.04		AVRG	4.1	25.0
Trichlorotrifluoroethane	0.165	0.185	50.00	56.14		AVRG	12.3	25.0
1,2,3-Trichloropropane	0.178	0.162	50.00	45.55		AVRG	-8.9	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA03961

Instrument ID: VOA3 Calibration Date: 03/14/09 Time: 1646

Lab File ID: V3ICV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.347	1.270	50.00	47.16		AVRG	-5.7	25.0
1,3,5-Trimethylbenzene	1.401	1.399	50.00	49.94		AVRG	-0.1	25.0
Vinyl acetate	0.537	0.600	100.0	111.8		AVRG	11.8	25.0
Vinyl chloride	0.267	0.280	50.00	52.39		AVRG	4.8	25.0
Xylene(total)	1.906	1.931	150.0	143.0		AVRG	1.3	25.0
Di-isopropyl ether	0.992	1.005	50.00	50.66		AVRG	1.3	25.0
ETBE	0.720	0.746	50.00	51.80		AVRG	3.6	25.0
Dibromofluoromethane	0.252	0.247	30.00	29.33		AVRG	-2.2	25.0
1,2-Dichloroethane-d4	0.055	0.054	30.00	29.39		AVRG	-2.0	25.0
Toluene-d8	2.203	2.170	30.00	29.56		AVRG	-1.5	25.0
Bromofluorobenzene	1.006	1.005	30.00	29.99		AVRG	-0.0	25.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
Acetone	0.105	0.084	0.079	0.061	0.065
Acrolein	0.009	0.011	0.010	0.011	0.014
Acrylonitrile	0.049	0.053	0.052	0.051	0.057
Benzene	0.896	0.931	0.938	0.937	1.041
Bromobenzene	0.650	0.632	0.642	0.617	0.663
Bromochloromethane	0.096	0.104	0.096	0.094	0.102
Bromodichloromethane	0.311	0.312	0.318	0.313	0.342
Bromoform	0.223	0.287	0.281	0.275	0.303
Bromomethane	0.174	0.196	0.196	0.200	0.245
2-Butanone	0.047	0.054	0.074	0.066	0.066
n-Butylbenzene	2.888	3.197	3.193	3.233	3.463
sec-Butylbenzene	3.413	3.670	3.809	3.789	4.150
tert-Butylbenzene	2.065	2.098	2.141	2.201	2.362
Carbon disulfide	0.931	0.901	0.902	0.922	0.981
Carbon tetrachloride	0.309	0.311	0.317	0.301	0.326
Chlorobenzene	1.400	1.343	1.372	1.368	1.440
Chloroethane	0.255	0.232	0.246	0.239	0.260
2-Chloroethyl vinyl ether	0.005	0.003	0.003	0.002	0.002
Chloroform	0.505	0.493	0.467	0.455	0.488
Chloromethane	0.513	0.497	0.475	0.519	0.557
2-Chlorotoluene	2.294	2.376	2.295	2.265	2.469
4-Chlorotoluene	2.173	2.242	2.235	2.272	2.423
Cyclohexane	0.507	0.546	0.510	0.500	0.554
Dibromochloromethane	0.395	0.408	0.424	0.416	0.430
1,2-Dibromo-3-chloropropane	0.086	0.086	0.084	0.074	0.094
1,2-Dibromoethane	0.324	0.307	0.341	0.313	0.338
Dibromomethane	0.119	0.110	0.108	0.111	0.121
1,2-Dichlorobenzene	1.024	1.152	1.170	1.166	1.265
t-Butyl alcohol	0.009	0.012	0.013	0.011	0.013
1,3-Dichlorobenzene	1.327	1.421	1.399	1.342	1.488
1,4-Dichlorobenzene	1.236	1.399	1.424	1.358	1.475
Dichlorodifluoromethane	0.346	0.361	0.350	0.398	0.428
1,1-Dichloroethane	0.521	0.515	0.522	0.515	0.560
1,2-Dichloroethane	0.273	0.294	0.276	0.265	0.289
1,1-Dichloroethene	0.213	0.204	0.230	0.219	0.226
cis-1,2-Dichloroethene	0.261	0.256	0.269	0.258	0.288
1,2-Dichloroethene(total)	0.262	0.261	0.262	0.259	0.280

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
trans-1,2-Dichloroethene	0.263	0.266	0.255	0.259	0.273
1,2-Dichloropropane	0.227	0.254	0.258	0.250	0.280
1,3-Dichloropropane	0.663	0.668	0.698	0.692	0.744
2,2-Dichloropropane	0.393	0.405	0.408	0.387	0.420
1,1-Dichloropropene	0.364	0.359	0.371	0.376	0.413
cis-1,3-Dichloropropene	0.343	0.332	0.347	0.352	0.404
trans-1,3-Dichloropropene	0.844	0.745	0.686	0.656	0.709
Ethylbenzene	2.874	2.567	2.695	2.591	2.754
Ethyl methacrylate	0.328	0.418	0.469	0.470	0.545
Hexachlorobutadiene	0.491	0.531	0.525	0.522	0.563
2-Hexanone	0.174	0.199	0.281	0.247	0.288
Iodomethane	0.110	0.159	0.186	0.178	0.229
Isopropylbenzene	1.972	1.976	2.091	2.157	2.361
p-Isopropyltoluene	2.642	2.733	2.753	2.835	3.041
Methyl acetate	0.175	0.125	0.128	0.124	0.140
Methylene chloride	0.278	0.269	0.257	0.246	0.258
Methyl cyclohexane	0.402	0.410	0.410	0.416	0.472
Methyl methacrylate	0.096	0.124	0.140	0.122	0.153
4-Methyl-2-pentanone	0.115	0.143	0.141	0.145	0.177
MTBE	0.271	0.280	0.307	0.294	0.332
Naphthalene	0.895	0.917	0.960	0.906	0.996
n-Propylbenzene	3.958	4.211	4.046	4.091	4.398
Styrene	1.210	1.214	1.355	1.340	1.521
1,1,1,2-Tetrachloroethane	0.448	0.469	0.468	0.450	0.478
1,1,2,2-Tetrachloroethane	0.575	0.601	0.574	0.528	0.610
Tetrachloroethene	0.508	0.545	0.536	0.534	0.567
Tetrahydrofuran	0.049	0.050	0.047	0.040	0.041
Toluene	1.422	1.345	1.343	1.363	1.386
1,2,3-Trichlorobenzene	0.634	0.645	0.636	0.586	0.644
1,2,4-Trichlorobenzene	0.713	0.732	0.743	0.708	0.764
1,1,1-Trichloroethane	0.380	0.373	0.380	0.362	0.397
1,1,2-Trichloroethane	0.309	0.301	0.308	0.303	0.320
Trichloroethene	0.237	0.251	0.261	0.248	0.271
Trichlorotrifluoroethane	0.236	0.255	0.247	0.258	0.275
Trichlorofluoromethane	0.383	0.393	0.398	0.396	0.420
1,2,3-Trichloropropane	0.115	0.100	0.106	0.100	0.115
1,2,4-Trimethylbenzene	2.614	2.567	2.617	2.564	2.720

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF2: V1STD01 RF5: V1STD02 RF10: V1STD03
RF20: V1STD04 RF50: V1STD05

COMPOUND	RF2	RF5	RF10	RF20	RF50
1,3,5-Trimethylbenzene	2.374	2.459	2.496	2.543	2.739
Vinyl acetate	0.311	0.353	0.370	0.362	0.414
Vinyl chloride	0.497	0.478	0.481	0.489	0.548
m,p-Xylene	2.342	2.006	2.030	1.967	2.056
Xylene(total)	2.031	1.900	1.927	1.962	2.115
Di-Isopropyl Ether	0.896	0.931	0.950	0.938	1.054
ETBE	0.275	0.315	0.324	0.314	0.344
tert-Amyl Methyl Ether	0.374	0.207	0.244	0.209	0.217
Dibromofluoromethane	0.267	0.272	0.261	0.255	0.260
1,2-Dichloroethane-d4	0.049	0.048	0.051	0.048	0.047
Toluene-d8	2.343	2.233	2.245	2.230	2.071
Bromofluorobenzene	0.727	0.725	0.735	0.750	0.781

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
Acetone	0.052	0.045
Acrolein	0.018	0.023
Acrylonitrile	0.055	0.051
Benzene	1.004	0.966
Bromobenzene	0.655	0.655
Bromochloromethane	0.096	0.092
Bromodichloromethane	0.323	0.314
Bromoform	0.293	0.291
Bromomethane	0.266	0.254
2-Butanone	0.077	0.057
n-Butylbenzene	3.249	3.126
sec-Butylbenzene	3.940	3.819
tert-Butylbenzene	2.303	2.268
Carbon disulfide	0.942	0.912
Carbon tetrachloride	0.315	0.305
Chlorobenzene	1.332	1.233
Chloroethane	0.261	0.235
2-Chloroethyl vinyl ether	0.002	0.002
Chloroform	0.464	0.445
Chloromethane	0.488	0.418
2-Chlorotoluene	2.388	2.308
4-Chlorotoluene	2.329	2.284
Cyclohexane	0.528	0.512
Dibromochloromethane	0.408	0.364
1,2-Dibromo-3-chloropropane	0.082	0.081
1,2-Dibromoethane	0.318	0.286
Dibromomethane	0.114	0.111
1,2-Dichlorobenzene	1.210	1.162
t-Butyl alcohol	0.012	0.011
1,3-Dichlorobenzene	1.376	1.362
1,4-Dichlorobenzene	1.461	1.373
Dichlorodifluoromethane	0.375	0.323
1,1-Dichloroethane	0.526	0.508
1,2-Dichloroethane	0.270	0.251
1,1-Dichloroethene	0.231	0.223
cis-1,2-Dichloroethene	0.279	0.274
1,2-Dichloroethene(total)	0.277	0.272

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
trans-1,2-Dichloroethene	0.275	0.270
1,2-Dichloropropane	0.267	0.265
1,3-Dichloropropane	0.688	0.600
2,2-Dichloropropane	0.398	0.376
1,1-Dichloropropene	0.398	0.384
cis-1,3-Dichloropropene	0.386	0.380
trans-1,3-Dichloropropene	0.655	0.581
Ethylbenzene	2.540	2.325
Ethyl methacrylate	0.505	0.448
Hexachlorobutadiene	0.529	0.516
2-Hexanone	0.259	0.225
Iodomethane	0.246	0.258
Isopropylbenzene	2.218	1.992
p-Isopropyltoluene	2.918	2.806
Methyl acetate	0.128	0.118
Methylene chloride	0.254	0.243
Methyl cyclohexane	0.456	0.458
Methyl methacrylate	0.145	0.138
4-Methyl-2-pentanone	0.160	0.152
MTBE	0.320	0.302
Naphthalene	0.942	0.992
n-Propylbenzene	4.251	4.166
Styrene	1.454	1.331
1,1,1,2-Tetrachloroethane	0.445	0.413
1,1,2,2-Tetrachloroethane	0.566	0.533
Tetrachloroethene	0.537	0.506
Tetrahydrofuran	0.037	0.035
Toluene	1.280	1.166
1,2,3-Trichlorobenzene	0.612	0.601
1,2,4-Trichlorobenzene	0.711	0.716
1,1,1-Trichloroethane	0.379	0.366
1,1,2-Trichloroethane	0.293	0.261
Trichloroethene	0.262	0.264
Trichlorotrifluoroethane	0.260	0.250
Trichlorofluoromethane	0.389	0.367
1,2,3-Trichloropropane	0.107	0.091
1,2,4-Trimethylbenzene	2.612	2.538

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

LAB FILE ID: RF100: V1STD06 RF200: V1STD07

COMPOUND	RF100	RF200
1,3,5-Trimethylbenzene	2.618	2.562
Vinyl acetate	0.387	0.357
Vinyl chloride	0.486	0.405
m,p-Xylene	1.916	1.735
Xylene(total)	1.974	1.741
Di-Isopropyl Ether	1.004	0.956
ETBE	0.348	0.340
tert-Amyl Methyl Ether	0.217	0.220
Dibromofluoromethane	0.256	0.256
1,2-Dichloroethane-d4	0.048	0.045
Toluene-d8	2.020	1.872
Bromofluorobenzene	0.745	0.680

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	2ORDR	0.00000000	13.5039204	14.4405773	0.999
Acrolein	2ORDR	0.60711770	63.7820401	-27.768565	0.998
Acrylonitrile	AVRG		5.256e-002		5.1
Benzene	AVRG		0.95908096		5.1
Bromobenzene	AVRG		0.64495294		2.4
Bromochloromethane	AVRG		9.728e-002		4.4
Bromodichloromethane	AVRG		0.31902412		3.5
Bromoform	AVRG		0.27909436		9.4
Bromomethane	LINR	5.814e-002	0.25844053		0.999
2-Butanone	2ORDR	0.34351156	7.56609015	12.1758842	0.991
n-Butylbenzene	AVRG		3.19287183		5.4
sec-Butylbenzene	AVRG		3.79875604		6.0
tert-Butylbenzene	AVRG		2.20546706		5.0
Carbon disulfide	AVRG		0.92741070		3.0
Carbon tetrachloride	AVRG		0.31185292		2.7
Chlorobenzene	AVRG		1.35561613		4.8
Chloroethane	AVRG		0.24700252		4.9
2-Chloroethyl vinyl ether	2ORDR	0.00000000	374.422035	7159.01284	0.999
Chloroform	AVRG		0.47380323		4.6
Chloromethane	AVRG		0.49558195		8.7
2-Chlorotoluene	AVRG		2.34212574		3.1
4-Chlorotoluene	AVRG		2.27988480		3.5
Cyclohexane	AVRG		0.52243785		4.0
Dibromochloromethane	AVRG		0.40649160		5.4
1,2-Dibromo-3-chloropropane	AVRG		8.398e-002		7.0
1,2-Dibromoethane	AVRG		0.31820448		5.9
Dibromomethane	AVRG		0.11349610		4.4
1,2-Dichlorobenzene	AVRG		1.16436793		6.3
t-Butyl alcohol	AVRG		1.166e-002		12.6
1,3-Dichlorobenzene	AVRG		1.38785087		3.9
1,4-Dichlorobenzene	AVRG		1.38942571		5.8
Dichlorodifluoromethane	AVRG		0.36885863		9.5
1,1-Dichloroethane	AVRG		0.52377117		3.2
1,2-Dichloroethane	AVRG		0.27426910		5.3
1,1-Dichloroethene	AVRG		0.22093249		4.5
cis-1,2-Dichloroethene	AVRG		0.26928009		4.4
1,2-Dichloroethene(total)	AVRG		0.26756994		3.2

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
trans-1,2-Dichloroethene	AVRG		0.26585977		2.7
1,2-Dichloropropane	AVRG		0.25731588		6.5
1,3-Dichloropropane	AVRG		0.67917555		6.4
2,2-Dichloropropane	AVRG		0.39805329		3.6
1,1-Dichloropropene	AVRG		0.38088289		5.0
cis-1,3-Dichloropropene	AVRG		0.36348253		7.3
trans-1,3-Dichloropropene	AVRG		0.69656551		11.8
Ethylbenzene	AVRG		2.62096146		6.7
Ethyl methacrylate	2ORDR	7.095e-002	1.59662589	0.20497696	1.000
Hexachlorobutadiene	AVRG		0.52531975		4.0
2-Hexanone	2ORDR	0.13895197	2.93229294	0.48643415	1.000
Iodomethane	LINR	0.12480454	0.26044577		0.999
Isopropylbenzene	AVRG		2.10981471		6.9
p-Isopropyltoluene	AVRG		2.81821627		4.6
Methyl acetate	AVRG		0.13416015		14.4
Methylene chloride	LINR	0.00000000	0.24592172		0.999
Methyl cyclohexane	AVRG		0.43214247		6.6
Methyl methacrylate	AVRG		0.13138123		14.4
4-Methyl-2-pentanone	AVRG		0.14756271		12.8
MTBE	AVRG		0.30069016		7.1
Naphthalene	AVRG		0.94383947		4.3
n-Propylbenzene	AVRG		4.16020172		3.5
Styrene	AVRG		1.34655375		8.5
1,1,1,2-Tetrachloroethane	AVRG		0.45311473		4.8
1,1,2,2-Tetrachloroethane	AVRG		0.56967001		5.5
Tetrachloroethene	AVRG		0.53345036		4.0
Tetrahydrofuran	AVRG		4.264e-002		13.5
Toluene	AVRG		1.32934694		6.3
1,2,3-Trichlorobenzene	AVRG		0.62262275		3.7
1,2,4-Trichlorobenzene	AVRG		0.72675987		2.8
1,1,1-Trichloroethane	AVRG		0.37689248		3.0
1,1,2-Trichloroethane	AVRG		0.29951552		6.3
Trichloroethene	AVRG		0.25620482		4.5
Trichlorotrifluoroethane	AVRG		0.25455153		4.8
Trichlorofluoromethane	AVRG		0.39219196		4.1
1,2,3-Trichloropropane	AVRG		0.10495103		8.1
1,2,4-Trimethylbenzene	AVRG		2.60441398		2.3

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA57371

Instrument ID: VOA1 Calibration Date(s): 03/27/09 03/27/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 0924 1355

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,3,5-Trimethylbenzene	AVRG		2.54165349		4.6
Vinyl acetate	AVRG		0.36491979		8.7
Vinyl chloride	AVRG		0.48374114		8.7
m,p-Xylene	AVRG		2.00735018		9.1
Xylene(total)	AVRG		1.94992620		6.0
Di-Isopropyl Ether	AVRG		0.96142124		5.4
ETBE	AVRG		0.32313439		7.8
tert-Amyl Methyl Ether	LINR	0.00000000	0.21892204		1.000
Dibromofluoromethane	AVRG		0.26113987		2.4
1,2-Dichloroethane-d4	AVRG		4.813e-002		3.9
Toluene-d8	AVRG		2.14493602		7.6
Bromofluorobenzene	AVRG		0.73492584		4.1

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
Acetone		0.023	0.034	0.031	0.067
Acrolein		0.003	0.002	0.005	0.006
Acrylonitrile	0.036	0.062	0.076	0.080	0.086
tert-Amyl Methyl Ether		1.264	0.925	0.796	0.628
Benzene		0.965	0.862	0.825	0.809
Bromobenzene		0.752	0.696	0.708	0.647
Bromochloromethane		0.156	0.142	0.144	0.136
Bromodichloromethane		0.348	0.284	0.290	0.267
Bromoform	0.396	0.395	0.416	0.445	0.391
Bromomethane		0.124	0.098	0.112	0.100
2-Butanone		0.172	0.233	0.252	0.086
t-Butyl alcohol		0.014	0.022	0.020	0.018
n-Butylbenzene		1.585	1.344	1.251	1.330
sec-Butylbenzene		2.420	2.036	1.968	1.990
tert-Butylbenzene		1.533	1.477	1.458	1.343
Carbon disulfide		0.844	0.742	0.730	0.723
Carbon tetrachloride		0.280	0.216	0.234	0.226
Chlorobenzene		1.691	1.527	1.525	1.442
Chloroethane		0.251	0.194	0.161	0.146
2-Chloroethyl vinyl ether	0.176	0.168	0.161	0.171	0.156
Chloroform		0.493	0.414	0.391	0.350
Chloromethane		0.231	0.198	0.194	0.180
2-Chlorotoluene		1.839	1.697	1.592	1.531
4-Chlorotoluene		2.342	1.934	1.807	1.815
Cyclohexane		0.389	0.301	0.336	0.315
Dibromochloromethane	0.800	0.646	0.609	0.614	0.613
1,2-Dibromo-3-chloropropane	0.127	0.158	0.152	0.135	0.138
1,2-Dibromoethane	0.683	0.643	0.589	0.636	0.579
Dibromomethane		0.176	0.167	0.168	0.150
1,2-Dichlorobenzene		1.183	1.093	1.040	1.079
1,3-Dichlorobenzene		1.303	1.294	1.151	1.164
1,4-Dichlorobenzene		1.414	1.137	1.227	1.169
Dichlorodifluoromethane		0.232	0.147	0.142	0.172
1,1-Dichloroethane		0.404	0.364	0.402	0.387
1,2-Dichloroethane		0.247	0.241	0.254	0.250
1,1-Dichloroethene		0.191	0.224	0.216	0.187
cis-1,2-Dichloroethene		0.325	0.220	0.259	0.236

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2-Dichloroethene(total)		0.294	0.251	0.258	0.228
trans-1,2-Dichloroethene		0.263	0.283	0.258	0.219
1,2-Dichloropropane		0.280	0.247	0.246	0.229
1,3-Dichloropropane	1.247	0.963	0.881	0.989	0.857
2,2-Dichloropropane		0.316	0.297	0.282	0.261
1,1-Dichloropropene		0.335	0.277	0.288	0.277
cis-1,3-Dichloropropene		0.444	0.354	0.371	0.369
trans-1,3-Dichloropropene		0.862	0.823	0.782	0.758
Ethylbenzene		2.748	2.407	2.346	2.264
Ethyl methacrylate	0.832	0.664	0.747	0.766	0.728
Hexachlorobutadiene		0.435	0.276	0.221	0.215
2-Hexanone		0.404	0.412	0.418	0.377
Iodomethane		0.172	0.153	0.189	0.151
Isopropylbenzene		2.169	1.823	1.892	1.660
p-Isopropyltoluene		2.016	1.657	1.612	1.555
Methyl acetate			0.059	0.064	0.172
Methylene chloride		0.308	0.281	0.235	0.185
Methyl cyclohexane		0.364	0.263	0.281	0.265
Methyl methacrylate		0.210	0.181	0.190	0.187
4-Methyl-2-pentanone	0.305	0.251	0.254	0.231	0.216
MTBE	0.553	0.577	0.595	0.591	0.567
Naphthalene		1.865	1.446	1.386	1.269
n-Propylbenzene		2.870	2.773	2.617	2.514
Styrene		1.544	1.450	1.646	1.492
1,1,1,2-Tetrachloroethane		0.559	0.560	0.552	0.520
1,1,2,2-Tetrachloroethane		0.615	0.660	0.735	0.661
Tetrachloroethene		0.567	0.546	0.551	0.501
Tetrahydrofuran		0.072	0.070	0.072	0.057
Toluene		1.574	1.311	1.364	1.206
1,2,3-Trichlorobenzene		0.609	0.515	0.483	0.453
1,2,4-Trichlorobenzene		0.665	0.514	0.512	0.504
1,1,1-Trichloroethane		0.328	0.271	0.277	0.258
1,1,2-Trichloroethane	0.863	0.652	0.589	0.463	0.442
Trichloroethene		0.302	0.229	0.244	0.217
Trichlorofluoromethane		0.306	0.262	0.274	0.277
Trichlorotrifluoroethane	0.227	0.219	0.190	0.196	0.198
1,2,3-Trichloropropane		0.222	0.214	0.201	0.171

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF0.25: V4STD01 RF0.5: V4STD02 RF1: V4STD03
RF2: V4STD04 RF10: V4STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2,4-Trimethylbenzene		1.900	1.533	1.621	1.576
1,3,5-Trimethylbenzene		1.924	1.620	1.646	1.656
Vinyl acetate		0.131	0.329	0.002	0.426
Vinyl chloride		0.278	0.232	0.225	0.210
m,p-Xylene		2.111	1.902	1.695	1.606
Xylene(total)		2.156	1.844	1.898	1.662
Di-isopropyl ether		0.766	0.792	0.815	0.790
ETBE		0.722	0.705	0.691	0.677
Dibromofluoromethane	0.295	0.291	0.286	0.292	0.290
1,2-Dichloroethane-d4	0.069	0.072	0.067	0.069	0.068
Toluene-d8	2.355	2.366	2.334	2.445	2.285
Bromofluorobenzene	0.921	0.913	0.904	0.945	0.922

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
Acetone	0.072	0.076	0.068	0.079
Acrolein	0.007	0.005	0.010	0.011
Acrylonitrile	0.089	0.088	0.085	0.094
tert-Amyl Methyl Ether	0.636	0.619	0.581	0.637
Benzene	0.832	0.813	0.774	0.812
Bromobenzene	0.662	0.654	0.624	0.713
Bromochloromethane	0.143	0.140	0.131	0.149
Bromodichloromethane	0.286	0.281	0.262	0.291
Bromoform	0.420	0.417	0.378	0.424
Bromomethane	0.100	0.102	0.119	
2-Butanone	0.098	0.104	0.100	0.115
t-Butyl alcohol	0.019	0.019	0.018	0.020
n-Butylbenzene	1.334	1.306	1.282	1.344
sec-Butylbenzene	2.018	1.975	1.872	2.003
tert-Butylbenzene	1.372	1.339	1.234	1.442
Carbon disulfide	0.736	0.726	0.707	0.790
Carbon tetrachloride	0.231	0.229	0.225	0.245
Chlorobenzene	1.432	1.414	1.283	1.316
Chloroethane	0.174	0.175	0.166	0.181
2-Chloroethyl vinyl ether	0.166	0.161	0.156	0.167
Chloroform	0.371	0.361	0.340	0.376
Chloromethane	0.180	0.171	0.165	0.212
2-Chlorotoluene	1.563	1.493	1.418	1.657
4-Chlorotoluene	1.728	1.738	1.649	1.793
Cyclohexane	0.326	0.313	0.305	0.331
Dibromochloromethane	0.621	0.616	0.564	0.611
1,2-Dibromo-3-chloropropane	0.139	0.140	0.133	0.158
1,2-Dibromoethane	0.589	0.588	0.529	0.566
Dibromomethane	0.160	0.162	0.150	0.168
1,2-Dichlorobenzene	1.081	1.059	1.001	1.102
1,3-Dichlorobenzene	1.131	1.091	1.124	1.206
1,4-Dichlorobenzene	1.244	1.236	1.092	1.238
Dichlorodifluoromethane	0.195	0.191	0.188	0.203
1,1-Dichloroethane	0.395	0.395	0.380	0.426
1,2-Dichloroethane	0.257	0.250	0.237	0.269
1,1-Dichloroethene	0.188	0.184	0.181	0.201
cis-1,2-Dichloroethene	0.241	0.241	0.228	0.258

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2-Dichloroethene(total)	0.231	0.230	0.217	0.248
trans-1,2-Dichloroethene	0.221	0.219	0.206	0.238
1,2-Dichloropropane	0.242	0.239	0.229	0.251
1,3-Dichloropropane	0.902	0.858	0.810	0.845
2,2-Dichloropropane	0.266	0.254	0.236	0.270
1,1-Dichloropropene	0.284	0.270	0.268	0.292
cis-1,3-Dichloropropene	0.386	0.378	0.343	0.387
trans-1,3-Dichloropropene	0.782	0.752	0.672	0.723
Ethylbenzene	2.174	2.172	1.934	1.980
Ethyl methacrylate	0.753	0.742	0.702	0.736
Hexachlorobutadiene	0.213	0.222	0.220	0.253
2-Hexanone	0.389	0.388	0.350	0.365
Iodomethane	0.261	0.308	0.307	0.343
Isopropylbenzene	1.688	1.649	1.518	1.586
p-Isopropyltoluene	1.571	1.564	1.495	1.594
Methyl acetate	0.200	0.210	0.205	0.233
Methylene chloride	0.238	0.248	0.227	0.267
Methyl cyclohexane	0.262	0.252	0.246	0.272
Methyl methacrylate	0.204	0.196	0.188	0.210
4-Methyl-2-pentanone	0.232	0.222	0.214	0.229
MTBE	0.574	0.578	0.552	0.619
Naphthalene	1.295	1.318	1.330	1.547
n-Propylbenzene	2.476	2.345	2.259	2.426
Styrene	1.507	1.506	1.334	1.396
1,1,1,2-Tetrachloroethane	0.544	0.531	0.478	0.517
1,1,2,2-Tetrachloroethane	0.628	0.594	0.538	0.587
Tetrachloroethene	0.513	0.504	0.457	0.513
Tetrahydrofuran	0.063	0.062	0.060	0.067
Toluene	1.218	1.206	1.101	1.175
1,2,3-Trichlorobenzene	0.459	0.475	0.477	0.556
1,2,4-Trichlorobenzene	0.499	0.522	0.519	0.609
1,1,1-Trichloroethane	0.258	0.255	0.244	0.271
1,1,2-Trichloroethane	0.441	0.440	0.394	0.421
Trichloroethene	0.235	0.232	0.220	0.240
Trichlorofluoromethane	0.280	0.273	0.267	0.291
Trichlorotrifluoroethane	0.202	0.193	0.190	0.210
1,2,3-Trichloropropane	0.180	0.180	0.165	0.178

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

LAB FILE ID: RF20: V4STD06 RF50: V4STD07 RF100: V4STD08
RF200: V4STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2,4-Trimethylbenzene	1.605	1.618	1.492	1.727
1,3,5-Trimethylbenzene	1.618	1.624	1.509	1.686
Vinyl acetate	0.461	0.456	0.435	0.498
Vinyl chloride	0.240	0.230	0.215	0.231
m,p-Xylene	1.627	1.555	1.384	1.330
Xylene(total)	1.709	1.694	1.464	1.511
Di-isopropyl ether	0.811	0.817	0.771	0.825
ETBE	0.688	0.682	0.624	0.704
Dibromofluoromethane	0.289	0.290	0.287	0.288
1,2-Dichloroethane-d4	0.071	0.070	0.067	0.067
Toluene-d8	2.227	2.254	2.182	2.094
Bromofluorobenzene	0.894	0.899	0.844	0.846

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	0.13814650	7.785e-002		0.996
Acrolein	2ORDR	0.65081970	119.788705	-87.944401	0.991
Acrylonitrile	LINR	0.19500180	9.251e-002		0.998
tert-Amyl Methyl Ether	LINR	1.561e-002	0.62830188		0.998
Benzene	AVRG		0.83656637		6.8
Bromobenzene	AVRG		0.68208070		6.2
Bromochloromethane	AVRG		0.14257786		5.4
Bromodichloromethane	AVRG		0.28850416		9.0
Bromoform	AVRG		0.40895524		5.0
Bromomethane	LINR	5.007e-002	0.11803720		0.995
2-Butanone	LINR	0.11488890	0.11319996		0.996
t-Butyl alcohol	AVRG		1.88e-002		13.2
n-Butylbenzene	AVRG		1.34707258		7.5
sec-Butylbenzene	AVRG		2.03544522		8.0
tert-Butylbenzene	AVRG		1.39977298		6.8
Carbon disulfide	AVRG		0.74980684		6.0
Carbon tetrachloride	AVRG		0.23569177		8.4
Chlorobenzene	AVRG		1.45381447		8.9
Chloroethane	LINR	3.94e-002	0.17968102		0.998
2-Chloroethyl vinyl ether	AVRG		0.16473216		4.1
Chloroform	AVRG		0.38694831		12.6
Chloromethane	AVRG		0.19154436		11.6
2-Chlorotoluene	AVRG		1.59895878		8.2
4-Chlorotoluene	AVRG		1.85083933		11.6
Cyclohexane	AVRG		0.32708316		8.5
Dibromochloromethane	AVRG		0.63267800		10.4
1,2-Dibromo-3-chloropropane	AVRG		0.14246472		7.8
1,2-Dibromoethane	AVRG		0.60023695		7.7
Dibromomethane	AVRG		0.16249118		5.6
1,2-Dichlorobenzene	AVRG		1.07974751		4.9
1,3-Dichlorobenzene	AVRG		1.18296360		6.6
1,4-Dichlorobenzene	AVRG		1.21963487		7.9
Dichlorodifluoromethane	LINR	4.709e-002	0.20187699		0.999
1,1-Dichloroethane	AVRG		0.39420209		4.6
1,2-Dichloroethane	AVRG		0.25058987		3.9
1,1-Dichloroethene	AVRG		0.19642410		8.1
cis-1,2-Dichloroethene	AVRG		0.25110613		13.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethene(total)	AVRG		0.24475764		9.9
trans-1,2-Dichloroethene	AVRG		0.23840845		11.3
1,2-Dichloropropane	AVRG		0.24543798		6.6
1,3-Dichloropropane	AVRG		0.92824027		14.3
2,2-Dichloropropane	AVRG		0.27274572		9.2
1,1-Dichloropropene	AVRG		0.28643302		7.5
cis-1,3-Dichloropropene	AVRG		0.37910192		8.0
trans-1,3-Dichloropropene	AVRG		0.76953028		7.6
Ethylbenzene	AVRG		2.25303578		11.5
Ethyl methacrylate	AVRG		0.74103403		6.2
Hexachlorobutadiene	LINR	7.926e-002	0.24971056		0.996
2-Hexanone	AVRG		0.38791504		6.0
Iodomethane	LINR	0.11299880	0.34236904		0.997
Isopropylbenzene	AVRG		1.74805832		11.9
p-Isopropyltoluene	AVRG		1.63317924		9.9
Methyl acetate	LINR	0.11167210	0.23229375		0.997
Methylene chloride	LINR	8.067e-002	0.26406645		0.995
Methyl cyclohexane	AVRG		0.27572134		13.6
Methyl methacrylate	AVRG		0.19588790		5.6
4-Methyl-2-pentanone	AVRG		0.23950959		11.8
MTBE	AVRG		0.57855377		3.6
Naphthalene	AVRG		1.43185685		13.8
n-Propylbenzene	AVRG		2.53507642		8.2
Styrene	AVRG		1.48460400		6.4
1,1,1,2-Tetrachloroethane	AVRG		0.53258117		5.2
1,1,2,2-Tetrachloroethane	AVRG		0.62747353		9.4
Tetrachloroethene	AVRG		0.51894705		6.7
Tetrahydrofuran	LINR	5.388e-002	6.645e-002		0.997
Toluene	AVRG		1.26938125		11.6
1,2,3-Trichlorobenzene	AVRG		0.50346084		10.7
1,2,4-Trichlorobenzene	AVRG		0.54297742		11.1
1,1,1-Trichloroethane	AVRG		0.27018619		9.5
1,1,2-Trichloroethane	LINR	0.00000000	0.41743654		0.999
Trichloroethene	AVRG		0.23984123		11.2
Trichlorofluoromethane	AVRG		0.27880290		5.0
Trichlorotrifluoroethane	AVRG		0.20298385		6.5
1,2,3-Trichloropropane	AVRG		0.18897686		11.0

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA28387

Instrument ID: VOA4 Calibration Date(s): 03/27/09 03/27/09

Column: DB-VRX ID: 0.25 (mm) Calibration Time(s): 1052 1528

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2,4-Trimethylbenzene	AVRG		1.63429935		7.8
1,3,5-Trimethylbenzene	AVRG		1.66060907		7.1
Vinyl acetate	LINR	0.15837030	0.49298631		0.996
Vinyl chloride	AVRG		0.23258149		8.8
m,p-Xylene	LINR	0.00000000	1.35573342		0.997
Xylene(total)	AVRG		1.74232426		12.8
Di-isopropyl ether	AVRG		0.79849417		2.8
ETBE	AVRG		0.68656222		4.3
Dibromofluoromethane	AVRG		0.28977178		0.9
1,2-Dichloroethane-d4	AVRG		6.887e-002		2.3
Toluene-d8	AVRG		2.28240292		4.7
Bromofluorobenzene	AVRG		0.89868225		3.8

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.056	0.114	200.0	406.4		AVRG	103.2	
Acrolein	0.006	0.010	500.0	820.9		AVRG	64.2	
Acrylonitrile	0.077	0.100	500.0	647.1		AVRG	29.4	
tert-Amyl Methyl Ether	0.761	0.645	100.0	84.82		AVRG	-15.2	
Benzene	0.836	0.808	100.0	96.58		AVRG	-3.4	
Bromobenzene	0.682	0.646	100.0	94.76		AVRG	-5.2	
Bromochloromethane	0.143	0.127	100.0	88.91		AVRG	-11.1	
Bromodichloromethane	0.289	0.290	100.0	100.5		AVRG	0.5	
Bromoform	0.409	0.361	100.0	88.31	0.100	AVRG	-11.7	
Bromomethane	0.108	0.135	100.0	124.9		AVRG	24.9	
2-Butanone	0.145	0.139	200.0	191.6		AVRG	-4.2	
t-Butyl alcohol	0.019	0.019	500.0	498.2		AVRG	-0.4	
n-Butylbenzene	1.347	1.428	100.0	106.0		AVRG	6.0	
sec-Butylbenzene	2.035	2.125	100.0	104.4		AVRG	4.4	
tert-Butylbenzene	1.400	1.460	100.0	104.3		AVRG	4.3	
Carbon disulfide	0.750	0.733	100.0	97.73		AVRG	-2.3	
Carbon tetrachloride	0.236	0.236	100.0	100.2		AVRG	0.2	
Chlorobenzene	1.454	1.338	100.0	92.06	0.300	AVRG	-7.9	
Chloroethane	0.181	0.194	100.0	106.9		AVRG	6.9	
2-Chloroethyl vinyl ether	0.165	0.179	200.0	217.1		AVRG	8.6	
Chloroform	0.387	0.376	100.0	97.30		AVRG	-2.7	20.0
Chloromethane	0.191	0.230	100.0	120.1	0.100	AVRG	20.1	
2-Chlorotoluene	1.599	1.723	100.0	107.8		AVRG	7.8	
4-Chlorotoluene	1.851	1.897	100.0	102.5		AVRG	2.5	
Cyclohexane	0.327	0.345	100.0	105.6		AVRG	5.6	
Dibromochloromethane	0.633	0.575	100.0	90.86		AVRG	-9.1	
1,2-Dibromo-3-chloropropane	0.142	0.138	100.0	97.26		AVRG	-2.7	
1,2-Dibromoethane	0.600	0.562	100.0	93.69		AVRG	-6.3	
Dibromomethane	0.163	0.160	100.0	98.61		AVRG	-1.4	
1,2-Dichlorobenzene	1.080	1.088	100.0	100.7		AVRG	0.7	
1,3-Dichlorobenzene	1.183	1.121	100.0	94.80		AVRG	-5.2	
1,4-Dichlorobenzene	1.220	1.231	100.0	100.9		AVRG	0.9	
Dichlorodifluoromethane	0.184	0.204	100.0	111.0		AVRG	11.0	
1,1-Dichloroethane	0.394	0.444	100.0	112.5	0.100	AVRG	12.5	
1,2-Dichloroethane	0.251	0.298	100.0	119.1		AVRG	19.1	
1,1-Dichloroethene	0.196	0.180	100.0	91.75		AVRG	-8.2	20.0
cis-1,2-Dichloroethene	0.251	0.240	100.0	95.49		AVRG	-4.5	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene(total)	0.245	0.228	200.0	186.0		AVRG	-7.0	
trans-1,2-Dichloroethene	0.238	0.216	100.0	90.40		AVRG	-9.6	
1,2-Dichloropropane	0.245	0.261	100.0	106.4		AVRG	6.4	20.0
1,3-Dichloropropane	0.928	0.860	100.0	92.60		AVRG	-7.4	
2,2-Dichloropropane	0.273	0.288	100.0	105.8		AVRG	5.8	
1,1-Dichloropropene	0.286	0.281	100.0	98.03		AVRG	-2.0	
cis-1,3-Dichloropropene	0.379	0.384	100.0	101.3		AVRG	1.3	
trans-1,3-Dichloropropene	0.769	0.748	100.0	97.28		AVRG	-2.7	
Ethylbenzene	2.253	2.022	100.0	89.73		AVRG	-10.3	20.0
Ethyl methacrylate	0.741	0.729	100.0	98.33		AVRG	-1.7	
Hexachlorobutadiene	0.257	0.220	100.0	85.77		AVRG	-14.2	
2-Hexanone	0.388	0.449	200.0	231.7		AVRG	15.8	
Iodomethane	0.236	0.259	100.0	109.9		AVRG	9.9	
Isopropylbenzene	1.748	1.612	100.0	92.25		AVRG	-7.8	
p-Isopropyltoluene	1.633	1.666	100.0	102.0		AVRG	2.0	
Methyl acetate	0.163	0.251	100.0	153.5		AVRG	53.5	
Methylene chloride	0.249	0.241	100.0	96.96		AVRG	-3.0	
Methyl cyclohexane	0.276	0.254	100.0	92.12		AVRG	-7.9	
Methyl methacrylate	0.196	0.240	100.0	122.5		AVRG	22.5	
4-Methyl-2-pentanone	0.239	0.268	200.0	224.2		AVRG	12.1	
MTBE	0.578	0.612	100.0	105.7		AVRG	5.7	
Naphthalene	1.432	1.456	100.0	101.7		AVRG	1.7	
n-Propylbenzene	2.535	2.586	100.0	102.0		AVRG	2.0	
Styrene	1.484	1.407	100.0	94.75		AVRG	-5.2	
1,1,1,2-Tetrachloroethane	0.533	0.488	100.0	91.56		AVRG	-8.4	
1,1,2,2-Tetrachloroethane	0.627	0.624	100.0	99.38	0.300	AVRG	-0.6	
Tetrachloroethene	0.519	0.425	100.0	81.87		AVRG	-18.1	
Tetrahydrofuran	0.065	0.073	100.0	111.6		AVRG	11.6	
Toluene	1.269	1.140	100.0	89.79		AVRG	-10.2	20.0
1,2,3-Trichlorobenzene	0.503	0.486	100.0	96.62		AVRG	-3.4	
1,2,4-Trichlorobenzene	0.543	0.536	100.0	98.70		AVRG	-1.3	
1,1,1-Trichloroethane	0.270	0.266	100.0	98.29		AVRG	-1.7	
1,1,2-Trichloroethane	0.523	0.412	100.0	78.78		AVRG	-21.2	
Trichloroethene	0.240	0.228	100.0	95.29		AVRG	-4.7	
Trichlorofluoromethane	0.279	0.286	100.0	102.7		AVRG	2.7	
Trichlorotrifluoroethane	0.203	0.191	100.0	94.25		AVRG	-5.7	
1,2,3-Trichloropropane	0.189	0.169	100.0	89.62		AVRG	-10.4	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0837

Lab File ID: V4CCV01 Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 1052 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.634	1.714	100.0	104.9		AVRG	4.9	
1,3,5-Trimethylbenzene	1.660	1.708	100.0	102.8		AVRG	2.8	
Vinyl acetate	0.342	0.571	200.0	333.6		AVRG	66.8	
Vinyl chloride	0.233	0.278	100.0	119.8		AVRG	19.8	20.0
Xylene(total)	1.742	1.588	300.0	259.1		AVRG	-8.9	
Di-isopropyl ether	0.798	0.974	100.0	122.0		AVRG	22.0	
ETBE	0.687	0.764	100.0	111.3		AVRG	11.3	
Dibromofluoromethane	0.290	0.289	30.00	29.89		AVRG	-0.4	
1,2-Dichloroethane-d4	0.069	0.068	30.00	29.44		AVRG	-1.9	
Toluene-d8	2.282	2.098	30.00	27.57		AVRG	-8.1	
Bromofluorobenzene	0.899	0.854	30.00	28.50		AVRG	-5.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA4 Calibration Date: 03/28/09 Time: 0906

Lab File ID: V4CCVA9 Init. Calib. Date(s): 03/05/08 03/27/09

Heated Purge: (Y/N) N Init. Calib. Times: 0908 1528

GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.058	0.029	1000	491.6		AVRG	-50.8	20.0
Allyl chloride	0.518	0.097	100.0	18.79		AVRG	-81.2	20.0
Chloroprene	0.335	0.090	100.0	26.80		AVRG	-73.2	20.0
cis-1,4-Dichloro-2-butene	0.269	0.191	100.0	71.07		AVRG	~~-28.9~~	~~20.0~~
trans-1,4-Dichloro-2-butene	0.293	0.208	100.0	71.09		AVRG	~~-28.9~~	~~20.0~~ RA
1,4-Dioxane	0.003	0.001	2000	832.6		AVRG	-58.4	20.0
Hexane	0.179	0.002	100.0	0.8846		AVRG	~~-99.1~~	~~20.0~~
Isobutyl alcohol	0.018	0.008	2000	919.3		AVRG	-54.0	20.0
Methacrylonitrile	0.209	0.129	1000	616.1		AVRG	-38.4	20.0
Propionitrile	0.045	0.028	1000	615.8		AVRG	-38.4	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 2332

Lab File ID: V1CCV01E Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acetone	0.070	0.074	200.0	302.8		2ORDR	51.4		
Acrolein	0.014	0.033	500.0	822.5		2ORDR	64.5		
Acrylonitrile	0.052	0.069	500.0	658.1		AVRG	31.6		
Benzene	0.959	1.245	100.0	129.8		AVRG	29.8		
Bromobenzene	0.645	0.851	100.0	131.9		AVRG	31.9		
Bromochloromethane	0.097	0.127	100.0	130.3		AVRG	30.3		
Bromodichloromethane	0.319	0.408	100.0	128.0		AVRG	28.0		
Bromoform	0.279	0.392	100.0	140.7	0.100	AVRG	40.7		
Bromomethane	0.219	0.340	100.0	133.3		LINR	33.3		
2-Butanone	0.063	0.099	200.0	319.8		2ORDR	59.9		
n-Butylbenzene	3.193	3.759	100.0	117.7		AVRG	17.7		
sec-Butylbenzene	3.798	4.810	100.0	126.6		AVRG	26.6		
tert-Butylbenzene	2.205	2.912	100.0	132.0		AVRG	32.0		
Carbon disulfide	0.927	1.111	100.0	119.8		AVRG	19.8		
Carbon tetrachloride	0.312	0.381	100.0	122.3		AVRG	22.3		
Chlorobenzene	1.355	1.662	100.0	122.6	0.300	AVRG	22.6		
Chloroethane	0.247	0.325	100.0	131.5		AVRG	31.5		
2-Chloroethyl vinyl ether	0.003	0.000	200.0	2.974		2ORDR	~~98.5~~		
Chloroform	0.474	0.587	100.0	123.8		AVRG	23.8	20.0	<
Chloromethane	0.495	0.570	100.0	114.9	0.100	AVRG	14.9		
2-Chlorotoluene	2.342	2.978	100.0	127.1		AVRG	27.1		
4-Chlorotoluene	2.280	2.924	100.0	128.3		AVRG	28.3		
Cyclohexane	0.522	0.645	100.0	123.5		AVRG	23.5		
Dibromochloromethane	0.406	0.523	100.0	128.6		AVRG	28.6		
1,2-Dibromo-3-chloropropane	0.084	0.114	100.0	135.2		AVRG	35.2		
1,2-Dibromoethane	0.318	0.417	100.0	131.2		AVRG	31.2		
Dibromomethane	0.113	0.147	100.0	129.8		AVRG	29.8		
1,2-Dichlorobenzene	1.164	1.541	100.0	132.4		AVRG	32.4		
t-Butyl alcohol	0.012	0.015	500.0	644.7		AVRG	28.9		
1,3-Dichlorobenzene	1.388	1.693	100.0	122.0		AVRG	22.0		
1,4-Dichlorobenzene	1.389	1.817	100.0	130.8		AVRG	30.8		
Dichlorodifluoromethane	0.369	0.390	100.0	105.7		AVRG	5.7		
1,1-Dichloroethane	0.524	0.656	100.0	125.2	0.100	AVRG	25.2		
1,2-Dichloroethane	0.274	0.344	100.0	125.4		AVRG	25.4		
1,1-Dichloroethene	0.221	0.289	100.0	130.6		AVRG	30.6	20.0	<
cis-1,2-Dichloroethene	0.269	0.353	100.0	131.2		AVRG	31.2		
1,2-Dichloroethene(total)	0.268	0.344	200.0	257.1		AVRG	28.6		

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 2332

Lab File ID: V1CCV01E Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
trans-1,2-Dichloroethene	0.266	0.334	100.0	125.8		AVRG	25.8		
1,2-Dichloropropane	0.257	0.338	100.0	131.3		AVRG	31.3	20.0	<
1,3-Dichloropropane	0.679	0.848	100.0	124.8		AVRG	24.8		
2,2-Dichloropropane	0.398	0.482	100.0	121.2		AVRG	21.2		
1,1-Dichloropropene	0.381	0.482	100.0	126.5		AVRG	26.5		
cis-1,3-Dichloropropene	0.363	0.484	100.0	133.2		AVRG	33.2		
trans-1,3-Dichloropropene	0.696	0.824	100.0	118.3		AVRG	18.3		
Ethylbenzene	2.621	3.088	100.0	117.8		AVRG	17.8	20.0	
Ethyl methacrylate	0.455	0.654	100.0	135.9		2ORDR	35.9		
Hexachlorobutadiene	0.525	0.619	100.0	117.8		AVRG	17.8		
2-Hexanone	0.239	0.335	200.0	273.2		2ORDR	36.6		
Iodomethane	0.195	0.354	100.0	139.5		LINR	39.5		
Isopropylbenzene	2.110	2.676	100.0	126.8		AVRG	26.8		
p-Isopropyltoluene	2.818	3.489	100.0	123.8		AVRG	23.8		
Methyl acetate	0.134	0.158	100.0	117.8		AVRG	17.8		
Methylene chloride	0.258	0.317	100.0	128.8		LINR	28.8		
Methyl cyclohexane	0.432	0.570	100.0	131.8		AVRG	31.8		
Methyl methacrylate	0.131	0.196	100.0	149.3		AVRG	49.3		
4-Methyl-2-pentanone	0.148	0.214	200.0	290.1		AVRG	45.0		
MTBE	0.301	0.415	100.0	138.1		AVRG	38.1		
Naphthalene	0.944	1.076	100.0	114.0		AVRG	14.0		
n-Propylbenzene	4.160	5.280	100.0	126.9		AVRG	26.9		
Styrene	1.346	1.771	100.0	131.5		AVRG	31.5		
1,1,1,2-Tetrachloroethane	0.453	0.555	100.0	122.5		AVRG	22.5		
1,1,2,2-Tetrachloroethane	0.570	0.756	100.0	132.6	0.300	AVRG	32.6		
Tetrachloroethene	0.533	0.652	100.0	122.2		AVRG	22.2		
Tetrahydrofuran	0.043	0.049	100.0	115.1		AVRG	15.1		
Toluene	1.329	1.581	100.0	118.9		AVRG	18.9	20.0	
1,2,3-Trichlorobenzene	0.622	0.713	100.0	114.5		AVRG	14.5		
1,2,4-Trichlorobenzene	0.727	0.808	100.0	111.2		AVRG	11.2		
1,1,1-Trichloroethane	0.377	0.463	100.0	122.8		AVRG	22.8		
1,1,2-Trichloroethane	0.299	0.377	100.0	125.9		AVRG	25.9		
Trichloroethene	0.256	0.324	100.0	126.3		AVRG	26.3		
Trichlorotrifluoroethane	0.254	0.301	100.0	118.2		AVRG	18.2		
Trichlorofluoromethane	0.392	0.496	100.0	126.5		AVRG	26.5		
1,2,3-Trichloropropane	0.105	0.140	100.0	133.8		AVRG	33.8		
1,2,4-Trimethylbenzene	2.604	3.197	100.0	122.7		AVRG	22.7		

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA1 Calibration Date: 03/29/09 Time: 2332

Lab File ID: V1CCV01E Init. Calib. Date(s): 03/27/09 03/27/09

Heated Purge: (Y/N) Y Init. Calib. Times: 0924 1355

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,3,5-Trimethylbenzene	2.542	3.242	100.0	127.6		AVRG	27.6	
Vinyl acetate	0.365	0.474	200.0	259.9		AVRG	29.9	
Vinyl chloride	0.483	0.565	100.0	116.7		AVRG	16.7	20.0
Xylene(total)	1.950	2.401	300.0	357.7		AVRG	23.1	
Di-Isopropyl Ether	0.961	1.293	100.0	134.5		AVRG	34.5	
ETBE	0.323	0.458	100.0	141.7		AVRG	41.7	
tert-Amyl Methyl Ether	0.241	0.283	100.0	129.4		LINR	29.4	
Dibromofluoromethane	0.261	0.264	30.00	30.32		AVRG	1.1	
1,2-Dichloroethane-d4	0.048	0.048	30.00	29.97		AVRG	-0.1	
Toluene-d8	2.145	1.984	30.00	27.74		AVRG	-7.5	
Bromofluorobenzene	0.735	0.755	30.00	30.82		AVRG	2.7	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA1 Calibration Date: 03/30/09 Time: 0010

Lab File ID: V1CCVA9E Init. Calib. Date(s): 12/18/08 12/18/08

Heated Purge: (Y/N) Y Init. Calib. Times: 0051 0524

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.038	0.017	1000	445.2		AVRG	-55.5	20.0
Allyl chloride	0.179	0.039	100.0	22.08		AVRG	-77.9	20.0
Chloroprene	0.555	0.136	100.0	24.59		AVRG	-75.4	20.0
cis-1,4-Dichloro-2-butene	0.358	0.207	100.0	57.69		AVRG	~~-42.3~~	~~20.0~~
trans-1,4-Dichloro-2-butene	0.412	0.239	100.0	57.86		AVRG	~~-42.1~~	~~20.0~~
1,4-Dioxane	0.002	0.001	2000	823.8		AVRG	-58.8	20.0
Hexane	0.414	0.000	100.0	6e-002		AVRG	~~-99.9~~	~~20.0~~
Isobutyl alcohol	0.015	0.008	2000	878.5		LINR	-56.1	20.0
Methacrylonitrile	0.229	0.106	1000	428.1		LINR	-57.2	20.0
Propionitrile	0.037	0.018	1000	490.1		AVRG	-51.0	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA3 Calibration Date: 04/05/09 Time: 0959

Lab File ID: V3CCV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.117	0.143	200.0	330.7		LINR	65.3	
Acrolein	0.021	0.009	500.0	201.0		AVRG	-59.8	
Acrylonitrile	0.103	0.104	500.0	505.6		AVRG	1.1	
tert-Amyl Methyl Ether	0.808	0.485	100.0	96.48		LINR	-3.5	
Benzene	0.755	0.666	100.0	88.24		AVRG	-11.8	
Bromobenzene	0.633	0.595	100.0	94.01		AVRG	-6.0	
Bromochloromethane	0.112	0.117	100.0	104.6		AVRG	4.6	
Bromodichloromethane	0.249	0.285	100.0	114.6		AVRG	14.6	
Bromoform	0.302	0.423	100.0	108.9	0.100	LINR	8.9	
Bromomethane	0.137	0.117	100.0	85.78		AVRG	-14.2	
2-Butanone	0.095	0.135	200.0	234.9		LINR	17.4	
t-Butyl alcohol	0.019	0.020	500.0	478.5		LINR	-4.3	
n-Butylbenzene	0.972	1.137	100.0	117.0		AVRG	17.0	
sec-Butylbenzene	1.599	1.591	100.0	99.50		AVRG	-0.5	
tert-Butylbenzene	1.419	1.430	100.0	100.8		AVRG	0.8	
Carbon disulfide	0.517	0.500	100.0	96.57		AVRG	-3.4	
Carbon tetrachloride	0.255	0.310	100.0	121.7		AVRG	21.7	
Chlorobenzene	1.507	1.331	100.0	88.28	0.300	AVRG	-11.7	
Chloroethane	0.137	0.142	100.0	103.2		AVRG	3.2	
2-Chloroethyl vinyl ether	0.153	0.129	200.0	168.8		AVRG	-15.6	
Chloroform	0.362	0.362	100.0	99.87		AVRG	-0.1	20.0
Chloromethane	0.404	0.336	100.0	97.96	0.100	LINR	-2.0	
2-Chlorotoluene	1.316	1.254	100.0	95.29		AVRG	-4.7	
4-Chlorotoluene	1.357	1.270	100.0	93.57		AVRG	-6.4	
Cyclohexane	0.414	0.399	100.0	96.25		AVRG	-3.7	
Dibromochloromethane	0.410	0.495	100.0	120.6		AVRG	20.6	
1,2-Dibromo-3-chloropropane	0.091	0.108	100.0	91.63		LINR	-8.4	
1,2-Dibromoethane	0.452	0.450	100.0	99.39		AVRG	-0.6	
Dibromomethane	0.128	0.130	100.0	101.2		AVRG	1.2	
1,2-Dichlorobenzene	1.058	1.006	100.0	95.10		AVRG	-4.9	
1,3-Dichlorobenzene	1.132	1.064	100.0	93.91		AVRG	-6.1	
1,4-Dichlorobenzene	1.144	1.065	100.0	93.02		AVRG	-7.0	
Dichlorodifluoromethane	0.188	0.208	100.0	110.9		AVRG	10.9	
1,1-Dichloroethane	0.388	0.390	100.0	100.8	0.100	LINR	0.8	
1,2-Dichloroethane	0.349	0.363	100.0	104.2		AVRG	4.2	
1,1-Dichloroethene	0.164	0.156	100.0	95.16		AVRG	-4.8	20.0
cis-1,2-Dichloroethene	0.187	0.204	100.0	101.2		LINR	1.2	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA3 Calibration Date: 04/05/09 Time: 0959

Lab File ID: V3CCV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene(total)	0.192	0.192	200.0	200.1		AVRG	0.1	
trans-1,2-Dichloroethene	0.198	0.181	100.0	91.45		AVRG	-8.5	
1,2-Dichloropropane	0.242	0.223	100.0	92.06		AVRG	-7.9	20.0
1,3-Dichloropropane	0.648	0.595	100.0	91.75		AVRG	-8.2	
2,2-Dichloropropane	0.233	0.282	100.0	121.1		AVRG	21.1	
1,1-Dichloropropene	0.250	0.241	100.0	96.37		AVRG	-3.6	
cis-1,3-Dichloropropene	0.300	0.320	100.0	106.5		AVRG	6.5	
trans-1,3-Dichloropropene	0.539	0.574	100.0	106.4		AVRG	6.4	
Ethylbenzene	2.270	2.005	100.0	88.29		AVRG	-11.7	20.0
Ethyl methacrylate	0.472	0.493	100.0	104.5		AVRG	4.5	
Hexachlorobutadiene	0.309	0.305	100.0	98.65		AVRG	-1.3	
2-Hexanone	0.360	0.455	200.0	235.0		LINR	17.5	
Iodomethane	0.259	0.280	100.0	86.97		2ORDR	-13.0	
Isopropylbenzene	1.961	1.820	100.0	92.84		AVRG	-7.2	
p-Isopropyltoluene	1.292	1.263	100.0	97.72		AVRG	-2.3	
Methyl acetate	0.225	0.249	100.0	110.6		AVRG	10.6	
Methylene chloride	0.196	0.185	100.0	94.72		AVRG	-5.3	
Methyl cyclohexane	0.262	0.267	100.0	101.8		AVRG	1.8	
Methyl methacrylate	0.235	0.279	100.0	101.5		LINR	1.5	
4-Methyl-2-pentanone	0.252	0.294	200.0	233.6		AVRG	16.8	
MTBE	0.458	0.473	100.0	103.3		AVRG	3.3	
Naphthalene	0.702	1.002	100.0	121.0		2ORDR	21.0	
n-Propylbenzene	1.903	1.819	100.0	95.59		AVRG	-4.4	
Styrene	1.518	1.451	100.0	95.58		AVRG	-4.4	
1,1,1,2-Tetrachloroethane	0.472	0.513	100.0	108.7		AVRG	8.7	
1,1,2,2-Tetrachloroethane	0.378	0.362	100.0	95.73	0.300	AVRG	-4.3	
Tetrachloroethene	0.650	0.583	100.0	89.66		AVRG	-10.3	
Tetrahydrofuran	0.072	0.075	100.0	104.2		AVRG	4.2	
Toluene	1.158	1.010	100.0	87.25		AVRG	-12.7	20.0
1,2,3-Trichlorobenzene	0.446	0.534	100.0	119.8		AVRG	19.8	
1,2,4-Trichlorobenzene	0.536	0.649	100.0	121.1		AVRG	21.1	
1,1,1-Trichloroethane	0.319	0.340	100.0	106.8		AVRG	6.8	
1,1,2-Trichloroethane	0.326	0.293	100.0	89.73		AVRG	-10.3	
Trichloroethene	0.235	0.216	100.0	92.01		AVRG	-8.0	
Trichlorofluoromethane	0.331	0.379	100.0	114.5		AVRG	14.5	
Trichlorotrifluoroethane	0.165	0.182	100.0	110.6		AVRG	10.6	
1,2,3-Trichloropropane	0.178	0.177	100.0	99.43		AVRG	-0.6	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA3 Calibration Date: 04/05/09 Time: 0959

Lab File ID: V3CCV01 Init. Calib. Date(s): 03/14/09 03/14/09

Heated Purge: (Y/N) N Init. Calib. Times: 1317 1756

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.347	1.440	100.0	106.9		AVRG	6.9	
1,3,5-Trimethylbenzene	1.401	1.406	100.0	100.4		AVRG	0.4	
Vinyl acetate	0.537	0.601	200.0	223.8		AVRG	11.9	
Vinyl chloride	0.267	0.254	100.0	95.13		AVRG	-4.9	20.0
Xylene(total)	1.906	1.700	300.0	250.5		AVRG	-10.8	
Di-isopropyl ether	0.992	0.971	100.0	97.90		AVRG	-2.1	
ETBE	0.720	0.701	100.0	97.38		AVRG	-2.6	
Dibromofluoromethane	0.252	0.274	30.00	32.56		AVRG	8.5	
1,2-Dichloroethane-d4	0.055	0.053	30.00	29.07		AVRG	-3.1	
Toluene-d8	2.203	2.060	30.00	28.06		AVRG	-6.5	
Bromofluorobenzene	1.006	1.005	30.00	29.97		AVRG	-0.1	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: VOA3 Calibration Date: 04/05/09 Time: 1028

Lab File ID: V3CCVA9 Init. Calib. Date(s): 12/17/08 12/18/08

Heated Purge: (Y/N) N Init. Calib. Times: 2030 0101

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetonitrile	0.013	0.038	1000	2894		AVRG	189.4	20.0
Allyl chloride	0.189	0.093	100.0	49.40		AVRG	-50.6	20.0
Chloroprene	0.202	0.098	100.0	34.41		LINR	-65.6	20.0
cis-1,4-Dichloro-2-butene	0.225	0.129	100.0	54.35		LINR	~~-45.6~~	~~20.0~~
trans-1,4-Dichloro-2-butene	0.170	0.180	100.0	76.74		LINR	~~-23.2~~	~~20.0~~
1,4-Dioxane	0.002	0.002	2000	1659		LINR	-17.0	20.0
Hexane	0.086	0.001	100.0	0.0000		LINR	~~-99.9~~	~~20.0~~
Isobutyl alcohol	0.003	0.012	2000	5239		LINR	161.9	20.0
Methacrylonitrile	0.071	0.142	1000	1642		LINR	64.2	20.0
Propionitrile	0.014	0.035	1000	2010		LINR	101.0	20.0

Empirical Laboratories

Empirical Laboratories, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3362 (1-27) 4004 (1-7)	1145am / 4/3/09 / DL			VOA
4011 (1-14) 3349-25	↓			↓
4003 (1-16) 3269 (1-15)	↓			↓
4023 (1-10) 4034-01	4-5-09 8:15AM (SA)			VOA
4022-01	↓			↓
4017-01 3359 (1-5)	↓			↓
3365 (1-8)	↓			↓
4019 (1-6) 4021 (1-11)	↓			↓
4026 (1-2) 4029 (18-26)	↓			↓
4020 (1-2)	↓			↓
4012 (1-13)	4-6-09 7:10AM (DA)			VOA
3346-01 4003-14	115pm / 4/6/09 / DL			VOA
4023-03 4034-01	1105am / 4/7/09 / DL			VOA
4028 (1-2) 4036 (01)	↓			↓
4038 (1-3) 4040 (1-5)	↓			↓
4012 (3,5,7)	1115am / 4/7/09 / DL			VOA
3365-04,05 4023-03	↓			↓
4030-01 4031-01	↓			↓
4032-02 4034 (1-2)	↓			↓

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3214-14 3234-1,2 3268-1-2	GI 9:00 3/20/09	AG 3/20/09 16:00		PesE
3251-1,3,5,6,7,9,11,13, 15,17,19,3262-1-19	↓	↓		BNA
↓	↓	↓		FLPRO
3135-03 3273-03	VM 3/20/09 9:07	3-20-09 1730 VM		CN
3162-01-20 3163-01,02	10:30 KBG 3/20/09	12:00 KBG 3/20/09		% Solids
03036-1	AF 10:55 3/20/09	AF 3/20/09 16:00		PesL
3134 (1-7) 3179-01	3-21-09 8:00AM	—	not A-viale	UOA
P138(25-27)	3-23-09 7:15AM			UOA
C3288-1-20	GI 3/23/09 9:30	GI 3/23/09 11:10		BNA
C3250-SS-6.1	↓	↓		DRO
3179 & 3187-03	RF 3/23/09 10:07	3/23/09 11:00		METALS
3281-01	3-23-09 VM 1045	3-23-09 VM 1630		pH
3207-01 3234 3249-01-04	11:10 3/23/09 RF	11:25 3/23/09		METALS
3263+3295	11:30 3/23/09 RF	12:45 3/23/09		METALS
03219-1-4 03285-1-5 03234-1-3 03263-1-2	AF 11:45 3/23/09	AF 3/23/09 16:50		EXP
3179+3187	RF 3/23/09 1:37PM	204 3/23/09 RF		METALS
0403214 14-27 0403223 01-03	JC 3/23/09 14:33	3/23/09 JC 16:42		TCLP
03188-6-7	MS 3/24/09 08:05			PesHPCB
3251	RF 3/24/09 10:33	3/24/09 12:27		Metals
3262 3293-01-03	12:27 3/24/09	3/24/09 2:00		

8306

Sequence Name: C:\MSDCHEM\1\SEQUENCE\121708V3.S
Comment: EPA8260B/524.2/624
Operator: JH
Data Path: D:\MSDCHEM\1\DATA\121708V3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	50	V3BFB01	V3BFB	V3BFB 25NG;;;;;; 14:04 12/17/08 DL
2	Blank	100	PREBLK01	VWATER3	V3BLK;;;;;;
3	Calibration	1	V3STD01	VWATER3	V3STD0.25ppb;;;;;;
4	Calibration	2	V3STD02	VWATER3	V3STD0.5ppb;;;;;;
5	Calibration	3	V3STD03	VWATER3	V3STD1ppb;;;;;;
6	Calibration	4	V3STD04	VWATER3	V3STD2ppb;;;;;;
7	Calibration	5	V3STD05	VWATER3	V3STD10ppb;;;;;;
8	Calibration	6	V3STD06	VWATER3	V3STD20ppb;;;;;;
9	Calibration	7	V3STD07	VWATER3	V3STD50ppb;;;;;;
10	Spike	8	V3ICV01	VWATER3	V3BLK1217LCS;;;;;;
11	Calibration	9	V3STD08	VWATER3	V3STD100ppb;;;;;;
12	Calibration	10	V3STD09	VWATER3	V3STD200ppb;;;;;;
13	Blank	100	BLANK01	VWATER3	V3BLK;;;;;;
14	Calibration	11	V3STD01A	VWATER3	V3STD0.25ppb;;;;;; A9
15	Calibration	12	V3STD02A	VWATER3	V3STD0.5ppb;;;;;; A9
16	Calibration	13	V3STD03A	VWATER3	V3STD1ppb;;;;;; A9
17	Calibration	14	V3STD04A	VWATER3	V3STD2ppb;;;;;; A9
18	Calibration	15	V3STD05A	VWATER3	V3STD10ppb;;;;;; A9
19	Calibration	16	V3STD06A	VWATER3	V3STD20ppb;;;;;; A9
20	Calibration	17	V3STD07A	VWATER3	V3STD50ppb;;;;;; A9
21	Spike	18	V3ICV01A	VWATER3	V3BLK1217LCS;;;;;; A9
22	Calibration	19	V3STD08A	VWATER3	V3STD100ppb;;;;;; A9
23	Calibration	20	V3STD09A	VWATER3	V3STD200ppb;;;;;; A9
24	Blank	100	BLANK02	VWATER3	V3BLK;;;;;;
25	Blank	100	BLK02	VWATER3	V3BLK1217;;;;;;

8309

```
Sequence Name: C:\MSDCHEM\1\SEQUENCE\121708V3.S
      Comment: EPA8260B/524.2/624
     Operator: JH
    Data Path: D:\MSDCHEM\1\DATA\121708V3\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------
1   Type: Sample        V3BFB 25NG;;;;;;
    Vial: 50            ;3;;;;gm-all.sub;#5591
    Meth: V3BFB.M       Barcode:
    Data: V3BFB01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
2   Type: Blank         V3BLK;;;;;;
    Vial: 100           ;3;BLANK;;;gm-all.sub;#5604
    Meth: VWATER3.M     Barcode:
    Data: PREBLK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
3   Type: Calibration V3STD0.25ppb;;;;;;
    Vial: 1             ;1;;;1;gm-all.sub;#5604, #5627
    Meth: VWATER3.M     Barcode:
    Data: V3STD01.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
4   Type: Calibration V3STD0.5ppb;;;;;;
    Vial: 2             ;1;;;2;gm-all.sub;#5604, #5627
    Meth: VWATER3.M     Barcode:
    Data: V3STD02.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
5   Type: Calibration V3STD1ppb;;;;;;
    Vial: 3             ;1;;;3;gm-all.sub;#5604, #5627
    Meth: VWATER3.M     Barcode:
    Data: V3STD03.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
6   Type: Calibration V3STD2ppb;;;;;;
    Vial: 4             ;1;;;4;gm-all.sub;#5604, #5627
    Meth: VWATER3.M     Barcode:
    Data: V3STD04.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
7   Type: Calibration V3STD10ppb;;;;;;
    Vial: 5             ;1;;;5;gm-all.sub;#5604, #5627
    Meth: VWATER3.M     Barcode:
    Data: V3STD05.D     LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
```

8310

```
8   Type: Calibration V3STD20ppb;;;;;;
    Vial: 6           ;1;;;6;gm-all.sub;#5604, #5627
    Meth: VWATER3.M   Barcode:
    Data: V3STD06.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V3STD50ppb;;;;;;
    Vial: 7           ;1;;;7;gm-all.sub;#5604, #5627
    Meth: VWATER3.M   Barcode:
    Data: V3STD07.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Spike       V3BLK1217LCS;;;;;;
    Vial: 8           ;3;LCS;;;gm-all.sub;#5604,5628
    Meth: VWATER3.M   Barcode:
    Data: V3ICV01.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V3STD100ppb;;;;;;
    Vial: 9           ;1;;;8;gm-all.sub;#5604, #5627
    Meth: VWATER3.M   Barcode:
    Data: V3STD08.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V3STD200ppb;;;;;;
    Vial: 10          ;1;;;9;gm-all.sub;#5604, #5627
    Meth: VWATER3.M   Barcode:
    Data: V3STD09.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank       V3BLK;;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#5604
    Meth: VWATER3.M   Barcode:
    Data: BLANK01.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Calibration V3STD0.25ppb;;;;;;  A9
    Vial: 11          ;1;;;1;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD01A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Calibration V3STD0.5ppb;;;;;;  A9
    Vial: 12          ;1;;;2;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD02A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :per Method       Lib. Search Rep :per Method
    Quant Report    :per Method       Post-Quant Macro:per Method
    CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Calibration V3STD1ppb;;;;;;  A9
    Vial: 13          ;1;;;3;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD03A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

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```
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17  Type: Calibration V3STD2ppb;;;;;;  A9
    Vial: 14          ;1;;;4;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD04A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
18  Type: Calibration V3STD10ppb;;;;;;  A9
    Vial: 15          ;1;;;5;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD05A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
19  Type: Calibration V3STD20ppb;;;;;;  A9
    Vial: 16          ;1;;;6;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD06A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
20  Type: Calibration V3STD50ppb;;;;;;  A9
    Vial: 17          ;1;;;7;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD07A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
21  Type: Spike       V3BLK1217LCS;;;;;;  A9
    Vial: 18          ;3;LCS;;;ap9hex.sub;#5604,5630
    Meth: VWATER3.M   Barcode:
    Data: V3ICV01A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
22  Type: Calibration V3STD100ppb;;;;;;  A9
    Vial: 19          ;1;;;8;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD08A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
23  Type: Calibration V3STD200ppb;;;;;;  A9
    Vial: 20          ;1;;;9;ap9hex.sub;#5604, #5629
    Meth: VWATER3.M   Barcode:
    Data: V3STD09A.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
24  Type: Blank       V3BLK;;;;;;
    Vial: 100         ;3;BLANK;;;gm-all.sub;#5604
    Meth: VWATER3.M   Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
25  Type: Blank       V3BLK1217;;;;;;
```

8312

```
Vial: 100          ;3;BLANK;;;gm-allap9.sub;#5604
Meth: VWATER3.M    Barcode:
Data: BLK02.D      Samp Amt: 0          Multiplr: 1
Area% Report     :per Method       Lib. Search Rep :per Method
Quant Report     :per Method       Post-Quant Macro:per Method
CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

V3STD03	2-Butanone	A
V3STD03	di-isopropyl ether	A
V3STD03	ETBE	D
V3STD04	ETBE	B
V3STD05	ETBE	A
V3STD06	ETBE	E

Chromatographic Flags for Manual Integrations

A: The peak was manually integrated as it was **not integrated** in the original chromatogram.

B: The peak was manually integrated due to **resolution or coelution** issues in the original chromatogram.

C: The peak was manually integrated to **correct the baseline** from the original chromatogram.

D: The peak was manually integrated to **identify the correct peak** as the incorrect peak was identified in the original chromatogram.

E: The peak was manually integrated to **include the entire peak** as the original chromatogram only integrated part of the peak.

Sequence Name: C:\HPCHEM\1\SEQUENCE\040208V4.S
Comment: OLM4.3
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040208V4\
Pre-Seq Cmd:
Post-Seq Cmd:

7956
4.2.08
SM

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	Blank	1	PREBLK01	VWATER4	V4BLK;;;;;	
2	BFB	100	V4BFB01	V4BFB	V4BFB50NG;;;;;	13:52 4/2/08 DL
3	Calibration	1	V4ASTD9A	VWATER4	V4calib;;;;;	AIX
4	Calibration	2	V4ASTD09	VWATER4	V4calib;;;;;	AIX
5	Calibration	3	V4ASTD08	VWATER4	V4calib;;;;;	AIX
6	Calibration	4	V4ASTD07	VWATER4	V4calib;;;;;	AIX
7	Spike	5	V4ICVAP9	VWATER4	V4BLK0402LCS;;;;;	ap9 icv
8	Calibration	6	V4ASTD06	VWATER4	V4calib;;;;;	AIX
9	Calibration	7	V4ASTD05	VWATER4	V4calib;;;;;	AIX
10	Calibration	8	V4ASTD04	VWATER4	V4calib;;;;;	AIX
11	Calibration	9	V4ASTD03	VWATER4	V4calib;;;;;	AIX
12	Calibration	10	V4ASTD02	VWATER4	V4calib;;;;;	AIX
13	Blank	11	BLANK01	VWATER4	V4BLK;;;;;	
14	Blank	12	BLANK02	VWATER4	V4BLK;;;;;	
15	Blank	13	BLANK03	VWATER4	V4BLK;;;;;	
16	Blank	14	BLANK04	VWATER4	V4BLK;;;;;	
17	Sample	100	V4BFB	V4BFB	V4BFB50NG;;;;;	

Sequence Name: C:\HPCHEM\1\SEQUENCE\040208V4.S
Comment: OLM4.3
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040208V4\
Pre-Seq Cmd:
Post-Seq Cmd:

7957

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Blank V4BLK;;;;; Vial: 1 ;3;BLANK;;;gm-all.sub;#5340 Meth: VWATER4.M Barcode: Data: PREBLK01.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
2	Type: BFB V4BFB50NG;;;;; Vial: 100 ;3;;;;all.sub;#5331 Meth: V4BFB.M Barcode: Data: V4BFB01.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
3	Type: Calibration V4calib;;;;; AIX Vial: 1 ;1;;;9;ap9hex.sub;#5422,5374 Meth: VWATER4.M Barcode: Data: V4ASTD9A.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
4	Type: Calibration V4calib;;;;; AIX Vial: 2 ;1;;;9;ap9hex.sub;#5422,5374 Meth: VWATER4.M Barcode: Data: V4ASTD09.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
5	Type: Calibration V4calib;;;;; AIX Vial: 3 ;1;;;8;ap9hex.sub;#5422,5374 Meth: VWATER4.M Barcode: Data: V4ASTD08.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
6	Type: Calibration V4calib;;;;; AIX Vial: 4 ;1;;;7;ap9hex.sub;#5422,5374 Meth: VWATER4.M Barcode: Data: V4ASTD07.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method
7	Type: Spike V4BLK0402LCS;;;;; ap9 icv Vial: 5 ;3;LCS;;;ap9hex.sub;#5422,5375 Meth: VWATER4.M Barcode: Data: V4ICVAP9.D Samp Amt: 0 Multiplr: 1 Area% Report :per Method Lib. Search Rep :per Method Quant Report :per Method Post-Quant Macro:per Method CR Database :per Method CR Spreadsheet :per Method

```
8   Type: Calibration V4calib;;;;;      AIX
    Vial: 6             ;1;;;6;ap9hex.sub;#5422,5374
    Meth: VWATER4.M    Barcode:
    Data: V4ASTD06.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V4calib;;;;;      AIX
    Vial: 7             ;1;;;5;ap9hex.sub;#5422,5374
    Meth: VWATER4.M    Barcode:
    Data: V4ASTD05.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Calibration V4calib;;;;;      AIX
    Vial: 8             ;1;;;4;ap9hex.sub;#5422,5374
    Meth: VWATER4.M    Barcode:
    Data: V4ASTD04.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V4calib;;;;;      AIX
    Vial: 9             ;1;;;3;ap9hex.sub;#5422,5374
    Meth: VWATER4.M    Barcode:
    Data: V4ASTD03.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V4calib;;;;;      AIX
    Vial: 10            ;1;;;2;ap9hex.sub;#5422,5374
    Meth: VWATER4.M    Barcode:
    Data: V4ASTD02.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank         V4BLK;;;;;
    Vial: 11            ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M    Barcode:
    Data: BLANK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Blank         V4BLK;;;;;
    Vial: 12            ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M    Barcode:
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Blank         V4BLK;;;;;
    Vial: 13            ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M    Barcode:
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Blank         V4BLK;;;;;
    Vial: 14            ;3;BLANK;;;gm-all.sub;#5422
    Meth: VWATER4.M    Barcode:
    Data: BLANK04.D    Samp Amt: 0          Multiplr: 1

Sequence:040208V4.S  Last Modified:Wed Apr 02 16:20:05 2008  Page: 2
```

7958

```
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17  Type: Sample       V4BFB50NG;;;;;
    Vial: 100          ;;;;;all.sub;#5331
    Meth: V4BFB.M      Barcode:
    Data: V4BFB.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

7959

Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\121708v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8361
12-18-08

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	PREBLK01	VSOIL1	BLANK;;;;;
2	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;; 4:01 PM 12-17-08
3	Sample	2	PREBLK02	VSOIL1	BLANK;;;;;
4	ICal	3	V1STD01	VSOIL1	V1STD2ppb;;;;;
5	ICal	4	V1STD02	VSOIL1	V1STD5ppb;;;;;
6	ICal	5	V1STD03	VSOIL1	V1STD10ppb;;;;;
7	ICal	6	V1STD04	VSOIL1	V1STD20ppb;;;;;
8	ICal	7	V1STD05	VSOIL1	V1STD50ppb;;;;;
9	Sample	8	V1ICV01	VSOIL1	V1BLK1217LCS;;;;; 50ppb
10	ICal	9	V1STD06	VSOIL1	V1STD100ppb;;;;;
11	ICal	10	V1STD07	VSOIL1	V1STD200ppb;;;;;
12	Sample	11	V1LCS01	VSOIL1	V1BLK1217LCS;;;;; 50ppb 10:25 PM 12-17-08
13	Sample	12	BLANK01	VSOIL1	V1BLK;;;;;
14	QC	50	V1BFB01E	V1BFB	V1BFB 50ng;;;;; 11:40 PM 12-17-08
15	Sample	13	BLANK02	VSOIL1	V1BLK;;;;;
16	ICal	14	V1STDAP1	VSOIL1	V1STD2ppb;;;;; AIX
17	ICal	15	V1STDAP2	VSOIL1	V1STD5ppb;;;;; AIX
18	ICal	16	V1STDAP3	VSOIL1	V1STD10ppb;;;;; AIX
19	ICal	17	V1STDAP4	VSOIL1	V1STD20ppb;;;;; AIX
20	ICal	18	V1STDAP5	VSOIL1	V1STD50ppb;;;;; AIX
21	Sample	19	V1ICVAP9	VSOIL1	V1BLK1217LCS;;;;; AIX
22	ICal	20	V1STDAP6	VSOIL1	V1STD100ppb;;;;; AIX
23	ICal	21	V1STDAP7	VSOIL1	V1STD200ppb;;;;; AIX
24	Sample	22	V1LCSAP9	VSOIL1	V1BLK1217LCS;;;;; AIX 6:04 AM 12-18-08
25	Sample	23	BLANK03	VSOIL1	V1BLK;;;;; clean-up

Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\121708v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8362

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1	Type: Sample BLANK;;;;; Vial: 1 ;0;;;;gm-all.sub;#5604 Meth: VSOIL1.M Barcode: Data: PREBLK01.D Samp Amt: 0 Multiplr: 1 Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
2	Type: QC V1BFB 50ng;;;;; Vial: 50 ;3;BFB;;;all.sub;#5591 Meth: V1BFB.M Barcode: Data: V1BFB01.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
3	Type: Sample BLANK;;;;; Vial: 2 ;0;;;;gm-all.sub;#5604 Meth: VSOIL1.M Barcode: Data: PREBLK02.D Samp Amt: 0 Multiplr: 1 Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
4	Type: ICal V1STD2ppb;;;;; Vial: 3 ;1;;;1;gm-all.sub;#5604,5627 Meth: VSOIL1.M Barcode: Data: V1STD01.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
5	Type: ICal V1STD5ppb;;;;; Vial: 4 ;1;;;2;gm-all.sub;#5604,5627 Meth: VSOIL1.M Barcode: Data: V1STD02.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
6	Type: ICal V1STD10ppb;;;;; Vial: 5 ;1;;;3;gm-all.sub;#5604,5627 Meth: VSOIL1.M Barcode: Data: V1STD03.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
7	Type: ICal V1STD20ppb;;;;; Vial: 6 ;1;;;4;gm-all.sub;#5604,5627 Meth: VSOIL1.M Barcode: Data: V1STD04.D LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Area% Report :Default Lib. Search Rep.:Default Quant Report :Default Post-Quant Macro:Default CR Database :Default CR Spreadsheet :Default
	Type: ICal V1STD50ppb;;;;; Vial: 7 ;1;;;5;gm-all.sub;#5604,5627 Meth: VSOIL1.M Barcode:

```
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 9   Type: Sample       V1BLK1217LCS;;;;;  50ppb
     Vial: 8            ;3;LCS;;;gm-all.sub;#5624,5628
     Meth: VSOIL1.M     Barcode:
     Data: V1ICV01.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 10  Type: ICal         V1STD100ppb;;;;;
     Vial: 9            ;1;;;6;gm-all.sub;#5604,5627
     Meth: VSOIL1.M     Barcode:
     Data: V1STD06.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 11  Type: ICal         V1STD200ppb;;;;;
     Vial: 10           ;1;;;7;gm-all.sub;#5604,5627
     Meth: VSOIL1.M     Barcode:
     Data: V1STD07.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 12  Type: Sample       V1BLK1217LCS;;;;;  50ppb
     Vial: 11           ;3;LCS;;;gm-all.sub;#5604,5628
     Meth: VSOIL1.M     Barcode:
     Data: V1LCS01.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 13  Type: Sample       V1BLK;;;;;
     Vial: 12           ;3;;;;gm-all.sub;#5604
     Meth: VSOIL1.M     Barcode:
     Data: BLANK01.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 14  Type: QC           V1BFB 50ng;;;;;
     Vial: 50           ;3;BFB;;;all.sub;#5591
     Meth: V1BFB.M      Barcode:
     Data: V1BFB01E.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 15  Type: Sample       V1BLK;;;;;
     Vial: 13           ;3;;;;gm-all.sub;#5604
     Meth: VSOIL1.M     Barcode:
     Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 16  Type: ICal         V1STD2ppb;;;;;  AIX
     Vial: 14           ;1;;;1;ap9hex.sub;#5604,5629
     Meth: VSOIL1.M     Barcode:
     Data: V1STDAP1.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
 ---------------------------------------------------------------------
 17  Type: ICal         V1STD5ppb;;;;;  AIX
     Vial: 15           ;1;;;2;ap9hex.sub;#5604,5629
     Meth: VSOIL1.M     Barcode:
     Data: V1STDAP2.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
```

8363

```
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18  Type: ICal         V1STD10ppb;;;;;  AIX
    Vial: 16           ;1;;;3;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M     Barcode:
    Data: V1STDAP3.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: ICal         V1STD20ppb;;;;;  AIX
    Vial: 17           ;1;;;4;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M     Barcode:
    Data: V1STDAP4.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: ICal         V1STD50ppb;;;;;  AIX
    Vial: 18           ;1;;;5;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M     Barcode:
    Data: V1STDAP5.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: Sample       V1BLK1217LCS;;;;; AIX
    Vial: 19           ;3;LCS;;;gm-allap9.sub;#5604,5630
    Meth: VSOIL1.M     Barcode:
    Data: V1ICVAP9.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: ICal         V1STD100ppb;;;;;  AIX
    Vial: 20           ;1;;;6;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M     Barcode:
    Data: V1STDAP6.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: ICal         V1STD200ppb;;;;;  AIX
    Vial: 21           ;1;;;7;ap9hex.sub;#5604,5629
    Meth: VSOIL1.M     Barcode:
    Data: V1STDAP7.D   LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24  Type: Sample       V1BLK1217LCS;;;;;  AIX
    Vial: 22           ;3;LCS;;;gm-allap9.sub;#5604,5630
    Meth: VSOIL1.M     Barcode:
    Data: V1LCSAP9.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25  Type: Sample       V1BLK;;;;;  clean-up
    Vial: 23           ;3;;;;gm-all.sub;#5604
    Meth: VSOIL1.M     Barcode:
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
```

8364

Chromatographic flags for Manual Integrations

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.

C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak. The wrong peak was identified in the original.

E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

Sequence ID	File ID	Analyte	Code
031409V3	V3STD02	Methylene Chloride	E
031409V3	V3STD04	ETBE	A
031409V3	V3STD05	ETBE	D
031409V3	V3STD06	Iodomethane	A
031409V3	V3STD07	ETBE	D
031409V3	V3STD08	ETBE	D
031409V3	V3STD09	Methylene Chloride	D
031409V3	V3ICV01	ETBE	A

LSAMP_ID	LAB_CHEM	MANUALS	
V1STD01	2-Butanone	B	
V1STD01	tert-Amyl Methyl Ether	A	
V1STD01	1,1,1,2-Tetrachloroethane	A	
V1STD01	1,4-Dichlorobenzene-d4	A	
V1STD02	2-Butanone	B	
V1STD02	1,1,1,2-Tetrachloroethane	A	
V1STD03	2-Butanone	B	
V1STD03	1,1,1,2-Tetrachloroethane	A	
V1STD04	1,1,1,2-Tetrachloroethane	A	
V1STD05	1,4-Dichlorobenzene-d4	D	
V1STD06	1,1,1,2-Tetrachloroethane	A	
V1STD07	1,1,1,2-Tetrachloroethane	A	
V1STD07	1,4-Dichlorobenzene-d4	D	

Chromatographic Flags for Manual Integrations

A: The peak was manually integrated as it was **not integrated** in the original chromatogram.

B: The peak was manually integrated due to **resolution or coelution** issues in the original chromatogram.

C: The peak was manually integrated to **correct the baseline** from the original chromatogram.

D: The peak was manually integrated to **identify the correct peak** as the incorrect peak was identified in the original chromatogram.

E: The peak was manually integrated to **include the entire peak** as the original chromatogram only integrated part of the peak.

Chromatographic flags for Manual Integrations

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.

C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak. The wrong peak was identified in the original.

E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

Sequence ID	File ID	Analyte	Code
032709V4	V4STD02	Trichlorotrifluoroethane	D
032709V4	V4STD03	t-Butyl alcohol	E

Sequence Name: C:\msdchem\1\sequence\031409V3.s
Comment: EPA8260B/524.2/624
Operator: DL
Data Path: C:\MSDCHEM\1\DATA\031409V3\
strument Control Pre-Seq Cmd:
ta Analysis Pre-Seq Cmd:

strument Control Post-Seq Cmd:
ta Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

8807

1/vrl

Line		Sample Name/Misc Info			
) Sample	50	V3BFB01	VWATER3	V3BFB 25NG;;;;;; 11:48 3/14/09 DL	
) Blank	1	~~BLANK01a~~	~~VWATER3~~	~~V3BLK;;;;;;~~	
) Blank	2	BLANK01b	VWATER3	V3BLK;;;;;;	
) Sample	3	V3STD01	VWATER3	V3STD0.25ppb;;;;;;	
) Sample	4	V3STD02	VWATER3	V3STD0.50ppb;;;;;;	
) Sample	5	V3STD03	VWATER3	V3STD1ppb;;;;;;	
) Sample	6	V3STD04	VWATER3	V3STD2ppb;;;;;;	
) Sample	7	V3STD05	VWATER3	V3STD10ppb;;;;;;	
) Sample	8	V3STD06	VWATER3	V3STD20ppb;;;;;;	
) Sample	9	V3STD07	VWATER3	V3STD50ppb;;;;;;	
) Sample	10	V3ICV01	VWATER3	V3BLK0313LCS;;;;;;	
) Spike	11	V3STD08	VWATER3	V3STD100ppb;;;;;;	
) Sample	12	V3STD09	VWATER3	V3STD200ppb;;;;;;	
) Sample	13	V3RL01	VWATER3	V3RLSTD1.0ppb;;;;;;	
) Spike	100	BLANK01	VWATER3	V3BLK;;;;;;	
) Blank	100	V3BLK01	VWATER3	V3BLK0314;;;;;;	
) Blank	14	0303501	VWATER3	0803035-01;;;;;;	vial1
) Sample	15	0304602	VWATER3	0803046-02;;;;;;	vial1
) Sample	16	0304603	VWATER3	0803046-03;;;;;;	vial1
) Sample	17	0304604	VWATER3	0803046-04;;;;;;	vial1
) Sample	18	0304605	VWATER3	0803046-05;;;;;;	vial1
) Sample	19	0304606	VWATER3	0803046-06;;;;;;	vial1
) Sample	20	0304607	VWATER3	0803046-07;;;;;;	vial1
) Sample	21	0304601D	VWATER3	0803046-01;;;;;;	vial1 5x
) Sample	22	0304605M	VWATER3	0803046-05;;;;;;	vial1 MS
) Sample	23	0304605S	VWATER3	0803046-05;;;;;;	vial1 MSD
) Sample	50	V3BFB01E	VWATER3	V3BFB 25NG;;;;;; 00:49 3/15/09 DL	
) Sample	24	V3CCV01E	VWATER3	V3STD100ppb;;;;;;	
) Sample	25	V3LCS01E	VWATER3	V3BLK0314ELCS;;;;;;	
) Spike	26	V3RL01E	VWATER3	V3RLSTD1.0ppb;;;;;;	
) Spike	100	BLANK01E	VWATER3	V3BLK;;;;;;	
) Blank	100	V3BLK01E	VWATER3	V3BLK0314;;;;;;	
) Blank	27	0307015	VWATER3	0803070-15;;;;;;	tb/vial1
) Sample	28	0303701	VWATER3	0803037-01;;;;;;	tb/vial1
) Sample	29	0307501	VWATER3	0803075-01;;;;;;	tb/vial1
) Sample	30	0303702	VWATER3	0803037-02;;;;;;	vial1
) Sample	31	0303703	VWATER3	0803037-03;;;;;;	vial1
) Sample	32	0307001	VWATER3	0803070-01;;;;;;	vial1
) Sample	33	0307003	VWATER3	0803070-03;;;;;;	vial1
) Sample	34	0307005	VWATER3	0803070-05;;;;;;	vial1
) Sample	35	0307007	VWATER3	0803070-07;;;;;;	vial1
) Sample	36	0307010	VWATER3	0803070-10;;;;;;	vial1
) Sample	37	0307012	VWATER3	0803070-12;;;;;;	vial1

Sequence Name: C:\msdchem\1\sequence\031409V3.s

8808

	Line Type	Vial	DataFile	Method	Sample Name	
4)	Sample	38	0307013	VWATER3	0803070-13;;;;;;	vial1
5)	Sample	39	0307016	VWATER3	0803070-16;;;;;;	vial1
6)	Sample	40	0307502	VWATER3	0803075-02;;;;;;	vial1
7)	Sample	41	0307503	VWATER3	0803075-03;;;;;;	vial1
8)	Sample	42	0307504	VWATER3	0803075-04;;;;;;	vial1
9)	Spike	43	V3LCD01E	VWATER3	V3BLK0314ELCSD;;;;;;	

```
  Sequence Name: C:\msdchem\1\sequence\031409V3.s
        Comment: EPA8260B/524.2/624
       Operator: DL
      Data Path: C:\MSDCHEM\1\DATA\031409V3\
ıstrument Control   Pre-Seq Cmd:
ata Analysis        Pre-Seq Cmd:

ıstrument Control Post-Seq Cmd:
ata Analysis      Post-Seq Cmd:

 Method Sections To Run      On A Barcode Mismatch
  (X) Full Method              (X) Inject Anyway
  ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------------
Line                        Sample Name/Misc Info
-------------------------------------------------------------------------------
1    Type: Sample           V3BFB 25NG;;;;;;
     Vial: 50               ;3;;;;gm-all.sub;#5646
     Method  : VWATER3.M
     Datafile: V3BFB01.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
2    Type: Blank            V3BLK;;;;;;
     Vial: 1                ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: BLANK01a.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
3    Type: Blank            V3BLK;;;;;;
     Vial: 2                ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: BLANK01b.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
4    Type: Sample           V3STD0.25ppb;;;;;;
     Vial: 3                ;1;;;1;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD01.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
5    Type: Sample           V3STD0.50ppb;;;;;;
     Vial: 4                ;1;;;2;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD02.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
6    Type: Sample           V3STD1ppb;;;;;;
     Vial: 5                ;1;;;3;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD03.D
                                  Samp Amt: 0          Multiplr: 1
     Bar Code:
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
7    Type: Sample           V3STD2ppb;;;;;;

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```
     Vial: 6              ;1;;;4;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD04.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 8   Type: Sample         V3STD10ppb;;;;;;
     Vial: 7              ;1;;;5;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD05.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 9   Type: Sample         V3STD20ppb;;;;;;
     Vial: 8              ;1;;;6;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD06.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 10  Type: Sample         V3STD50ppb;;;;;;
     Vial: 9              ;1;;;7;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD07.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 11  Type: Spike          V3BLK0313LCS;;;;;;
     Vial: 10             ;3;LCS;;;gm-all.sub;#5700,5708
     Method  : VWATER3.M
     Datafile: V3ICV01.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 12  Type: Sample         V3STD100ppb;;;;;;
     Vial: 11             ;1;;;8;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD08.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 13  Type: Sample         V3STD200ppb;;;;;;
     Vial: 12             ;1;;;9;gm-all.sub;#5700, #5707
     Method  : VWATER3.M
     Datafile: V3STD09.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 14  Type: Spike          V3RLSTD1.0ppb;;;;;;
     Vial: 13             ;3;LCS;;;gm-all.sub;#5700,5707
     Method  : VWATER3.M
     Datafile: V3RL01.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 15  Type: Blank          V3BLK;;;;;;

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```
     Vial: 100          ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: BLANK01.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16   Type: Blank       V3BLK0314;;;;;;
     Vial: 100         ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: V3BLK01.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17   Type: Sample      0803035-01;;;;;;  vial1
     Vial: 14          whi.v03035;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0303501.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
18   Type: Sample      0803046-02;;;;;;  vial1
     Vial: 15          ear.v03046;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0304602.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
19   Type: Sample      0803046-03;;;;;;  vial1
     Vial: 16          ear.v03046;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0304603.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
20   Type: Sample      0803046-04;;;;;;  vial1
     Vial: 17          ear.v03046;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0304604.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
21   Type: Sample      0803046-05;;;;;;  vial1
     Vial: 18          ear.v03046;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0304605.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
22   Type: Sample      0803046-06;;;;;;  vial1
     Vial: 19          ear.v03046;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0304606.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
23   Type: Sample      0803046-07;;;;;;  vial1
```

```
     Vial: 20          ear.v03046;0;;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0304607.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
24   Type: Sample      0803046-01;;;;;;  vial1 5x
     Vial: 21          ear.v03046;0;;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0304601D.D
     Bar Code:                        Samp Amt: 0          Multiplr: 5
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
25   Type: Sample      0803046-05;;;;;;  vial1  MS
     Vial: 22          ear.v03046;3;MS;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0304605M.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
26   Type: Sample      0803046-05;;;;;;  vial1  MSD
     Vial: 23          ear.v03046;3;MSD;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0304605S.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
27   Type: Sample      V3BFB 25NG;;;;;;
     Vial: 50          ;3;;;;gm-all.sub;#5646
     Method   : VWATER3.M
     Datafile: V3BFB01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
28   Type: Sample      V3STD100ppb;;;;;;
     Vial: 24          ;2;;;;gm-all.sub;#5700, #5707
     Method   : VWATER3.M
     Datafile: V3CCV01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
29   Type: Spike       V3BLK0314ELCS;;;;;;
     Vial: 25          ;3;LCS;;;gm-all.sub;#5700,5708
     Method   : VWATER3.M
     Datafile: V3LCS01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
30   Type: Spike       V3RLSTD1.0ppb;;;;;;
     Vial: 26          ;3;LCS;;;gm-all.sub;#5700,5707
     Method   : VWATER3.M
     Datafile: V3RL01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method    Lib. Search Rep :per Method
     Quant Report      :per Method    Post-Quant Macro:per Method
     CR Database       :per Method    CR Spreadsheet  :per Method
-------------------------------------------------------------------------------
31   Type: Blank       V3BLK;;;;;;

Sequence Last Modified  Sun Mar 15 11:04:13 2009        Page: 4
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H42

```
     Vial: 100          ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: BLANK01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
32   Type: Blank       V3BLK0314;;;;;;
     Vial: 100         ;3;BLANK;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: V3BLK01E.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
33   Type: Sample      0803070-15;;;;;;  tb/vial1
     Vial: 27          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307015.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
34   Type: Sample      0803037-01;;;;;;  tb/vial1
     Vial: 28          ch2.v03037;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0303701.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
35   Type: Sample      0803075-01;;;;;;  tb/vial1
     Vial: 29          ch2.v03075;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307501.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
36   Type: Sample      0803037-02;;;;;;  vial1
     Vial: 30          ch2.v03037;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0303702.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
37   Type: Sample      0803037-03;;;;;;  vial1
     Vial: 31          ch2.v03037;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0303703.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
38   Type: Sample      0803070-01;;;;;;  vial1
     Vial: 32          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307001.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
39   Type: Sample      0803070-03;;;;;;  vial1
```

8813

pH<2

```
     Vial: 33          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307003.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 40  Type: Sample       0803070-05;;;;;;  vial1
     Vial: 34          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307005.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 41  Type: Sample       0803070-07;;;;;;  vial1
     Vial: 35          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307007.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 42  Type: Sample       0803070-10;;;;;;  vial1
     Vial: 36          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307010.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 43  Type: Sample       0803070-12;;;;;;  vial1
     Vial: 37          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307012.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 44  Type: Sample       0803070-13;;;;;;  vial1
     Vial: 38          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307013.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 45  Type: Sample       0803070-16;;;;;;  vial1
     Vial: 39          sai.v03070;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307016.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 46  Type: Sample       0803075-02;;;;;;  vial1
     Vial: 40          ch2.v03075;0;;;;gm-all.sub;#5700
     Method  : VWATER3.M
     Datafile: 0307502.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report      :per Method       Lib. Search Rep :per Method
     Quant Report      :per Method       Post-Quant Macro:per Method
     CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 47  Type: Sample       0803075-03;;;;;;  vial1

Sequence Last Modified  Sun Mar 15 11:04:13 2009        Page: 6
```

8814

pH<2

163

```
     Vial: 41            ch2.v03075;0;;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0307503.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report       :per Method       Lib. Search Rep :per Method
     Quant Report       :per Method       Post-Quant Macro:per Method
     CR Database        :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
48   Type: Sample       0803075-04;;;;;;  vial1
     Vial: 42           ch2.v03075;0;;;;gm-all.sub;#5700
     Method   : VWATER3.M
     Datafile: 0307504.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report       :per Method       Lib. Search Rep :per Method
     Quant Report       :per Method       Post-Quant Macro:per Method
     CR Database        :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
49   Type: Spike        V3BLK0314ELCSD;;;;;;
     Vial: 43           ;3;LCSD;;;gm-all.sub;#5700,5708
     Method   : VWATER3.M
     Datafile: V3LCD01E.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report       :per Method       Lib. Search Rep :per Method
     Quant Report       :per Method       Post-Quant Macro:per Method
     CR Database        :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

8815

pH<2

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032709v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8684
3-30-09

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	PREBLK01	VSOIL1	BLANK;;;;;
2	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;; 8:13 AM 3-27-09 (34)
3	Sample	1	PREBLK02	VSOIL1	BLANK;;;;;
4	ICal	2	V1STD01	VSOIL1	V1STD2ppb;;;;;
5	ICal	3	V1STD02	VSOIL1	V1STD5ppb;;;;;
6	ICal	4	V1STD03	VSOIL1	V1STD10ppb;;;;;
7	ICal	5	V1STD04	VSOIL1	V1STD20ppb;;;;;
8	ICal	6	V1STD05	VSOIL1	V1STD50ppb;;;;;
9	Sample	7	V1ICV01	VSOIL1	V1BLK0327LCS;;;;; 50ppb
10	ICal	8	V1STD06	VSOIL1	V1STD100ppb;;;;;
11	ICal	9	V1STD07	VSOIL1	V1STD200ppb;;;;;
12	Sample	10	BLANK01	VSOIL1	V1BLK;;;;;
13	Sample	11	V1LCS01	VSOIL1	V1BLK0327LCS;;;;; 50ppb
14	Sample	12	BLANK02	VSOIL1	V1BLK;;;;;
15	Sample	13	V1BLK01	VSOIL1	V1BLK0327;;;;; 4:30 PM 3-27-09 (35)
16	Sample	14	0318824	VSOIL1	0903188-24;;5.00;;; pt sample
17	Sample	15	BLANK03	VSOIL1	V1BLK;;;;;

Last Modified: Fri Mar 27 14:17:09 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032709v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8685

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample Vial: 1 Meth: VSOIL1.M Data: PREBLK01.D Area% Report :Default Quant Report :Default CR Database :Default	BLANK;;;;; ;0;;;;gm-all.sub;#5717 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2 Type: QC Vial: 50 Meth: V1BFB.M Data: V1BFB01.D Area% Report :Default Quant Report :Default CR Database :Default	V1BFB 50ng;;;;; ;3;BFB;;;all.sub;#5646 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3 Type: Sample Vial: 1 Meth: VSOIL1.M Data: PREBLK02.D Area% Report :Default Quant Report :Default CR Database :Default	BLANK;;;;; ;0;;;;gm-all.sub;#5717 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4 Type: ICal Vial: 2 Meth: VSOIL1.M Data: V1STD01.D Area% Report :Default Quant Report :Default CR Database :Default	V1STD2ppb;;;;; ;1;;;1;gm-all.sub;#5717,5720 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5 Type: ICal Vial: 3 Meth: VSOIL1.M Data: V1STD02.D Area% Report :Default Quant Report :Default CR Database :Default	V1STD5ppb;;;;; ;1;;;2;gm-all.sub;#5717,5720 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6 Type: ICal Vial: 4 Meth: VSOIL1.M Data: V1STD03.D Area% Report :Default Quant Report :Default CR Database :Default	V1STD10ppb;;;;; ;1;;;3;gm-all.sub;#5717,5720 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7 Type: ICal Vial: 5 Meth: VSOIL1.M Data: V1STD04.D Area% Report :Default Quant Report :Default CR Database :Default	V1STD20ppb;;;;; ;1;;;4;gm-all.sub;#5717,5720 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8 Type: ICal Vial: 6 Meth: VSOIL1.M	V1STD50ppb;;;;; ;1;;;5;gm-all.sub;#5717,5720 Barcode:

```
    Data: V1STD05.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
9   Type: Sample      V1BLK0327LCS;;;;;  50ppb
    Vial: 7           ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VSOIL1.M    Barcode:
    Data: V1ICV01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10  Type: ICal        V1STD100ppb;;;;;
    Vial: 8           ;1;;;6;gm-all.sub;#5717,5720
    Meth: VSOIL1.M    Barcode:
    Data: V1STD06.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11  Type: ICal        V1STD200ppb;;;;;
    Vial: 9           ;1;;;7;gm-all.sub;#5717,5720
    Meth: VSOIL1.M    Barcode:
    Data: V1STD07.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12  Type: Sample      V1BLK;;;;;
    Vial: 10          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: BLANK01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13  Type: Sample      V1BLK0327LCS;;;;;  50ppb
    Vial: 11          ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VSOIL1.M    Barcode:
    Data: V1LCS01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14  Type: Sample      V1BLK;;;;;
    Vial: 12          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15  Type: Sample      V1BLK0327;;;;;
    Vial: 13          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: V1BLK01.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16  Type: Sample      0903188-24;;5.00;;;  pt sample
    Vial: 14          pt.v03188;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0318824.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17  Type: Sample      V1BLK;;;;;
    Vial: 15          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: BLANK03.D   Samp Amt: 0          Multiplr: 1
```

Area% Report	:Default	Lib. Search Rep.:	Default
Quant Report	:Default	Post-Quant Macro:	Default
CR Database	:Default	CR Spreadsheet	:Default

8687

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S
Comment: 8260/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\032709V4\
Pre-Seq Cmd:
Post-Seq Cmd:

9598

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	Blank	1	PREBLK01	VWATER4	V4BLK;;;;;	
2	BFB	100	V4BFB01	V4BFB	V4BFB50NG;;;;;	10:23 3/27/09 DL
3	Calibration	1	V4STD01	VWATER4	V4STD0.25ppb;;;;;	
4	Calibration	2	V4STD02	VWATER4	V4STD0.5ppb;;;;;	
5	Calibration	3	V4STD03	VWATER4	V4STD1ppb;;;;;	
6	Calibration	4	V4STD04	VWATER4	V4STD2ppb;;;;;	
7	Calibration	5	V4STD05	VWATER4	V4STD10ppb;;;;;	
8	Calibration	6	V4STD06	VWATER4	V4STD20ppb;;;;;	
9	Calibration	7	V4STD07	VWATER4	V4STD50ppb;;;;;	
10	Spike	8	V4ICV01	VWATER4	V4BLK0327LCS;;;;;	50ppb
11	Calibration	9	V4STD08	VWATER4	V4STD100ppb;;;;;	
12	Calibration	10	V4STD09	VWATER4	V4STD200ppb;;;;;	
13	Blank	11	BLANK01	VWATER4	V4BLK;;;;;	
14	Spike	12	V4LCS01	VWATER4	V4BLK0327LCS;;;;;	50ppb
15	Blank	13	BLANK02	VWATER4	V4BLK;;;;;	
16	Blank	14	V4BLK01	VWATER4	V4BLK0327;;;;;	
17	Blank	15	0318809	VWATER4	0903188-09;;;;;	pt sample
18	Blank	16	BLANK03	VWATER4	V4BLK;;;;;	
19	Blank	17	BLANK04	VWATER4	V4BLK;;;;;	
20	Blank	18	0327302	VWATER4	0903273-02;;;;;	624
21	Blank	19	S0329602	VWATER4	0903296-02;;;;;	100x h20 scr
22	Blank	20	S0329603	VWATER4	0903296-03;;;;;	100x h20 scr
23	Blank	21	S329604	VWATER4	0903296-04;;;;;	100x h20 scr
24	Blank	22	S0329605	VWATER4	0903296-05;;;;;	100x h20 scr
25	Blank	23	S0329606	VWATER4	0903296-06;;;;;	100x h20 scr
26	Blank	24	S0329607	VWATER4	0903296-07;;;;;	100x h20 scr
27	Blank	25	S0329608	VWATER4	0903296-08;;;;;	100x h20 scr
28	Blank	26	S0329902	VWATER4	0903299-02;;;;;	100x h20 scr
29	Blank	27	S0329903	VWATER4	0903299-03;;;;;	100x h20 scr
30	Blank	28	S0329904	VWATER4	0903299-04;;;;;	100x h20 scr
31	Blank	29	S0330001	VWATER4	0903300-01;;;;;	100x h20 scr
32	Blank	30	S0330002	VWATER4	0903300-02;;;;;	100x h20 scr
33	Blank	31	S0330003	VWATER4	0903300-03;;;;;	100x h20 scr
34	Blank	32	S0330004	VWATER4	0903300-04;;;;;	100x h20 scr
35	Blank	33	S0330005	VWATER4	0903300-05;;;;;	100x h20 scr
36	Blank	34	S0330202	VWATER4	0903302-02;;;;;	100x h20 scr
37	Blank	35	S0330203	VWATER4	0903302-03;;;;;	100x h20 scr
38	Blank	36	S0330204	VWATER4	0903302-04;;;;;	100x h20 scr
39	Blank	37	S0330205	VWATER4	0903302-05;;;;;	100x h20 scr
40	Blank	38	S0330206	VWATER4	0903302-06;;;;;	100x h20 scr
41	Blank	39	S0330207	VWATER4	0903302-07;;;;;	100x h20 scr
42	Blank	40	S0330208	VWATER4	0903302-08;;;;;	100x h20 scr
43	Blank	41	S0330301	VWATER4	0903303-01;;;;;	100x h20 scr

Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S

9599

Line	Type	Vial	DataFile	Method	Sample Name
44	Blank	42	S0330302	VWATER4	0903303-02;;;;; 100x h20 scr

9600

```
 Sequence Name: C:\HPCHEM\1\SEQUENCE\032709V4.S
       Comment: 8260/624
      Operator: ADM
     Data Path: C:\HPCHEM\1\DATA\032709V4\
   Pre-Seq Cmd:
  Post-Seq Cmd:

 Method Sections To Run      On A Barcode Mismatch
  (X) Full Method              (X) Inject Anyway
  ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1    Type: Blank        V4BLK;;;;;
     Vial: 1            ;3;BLANK;;;gm-all.sub;#5717
     Meth: VWATER4.M    Barcode:
     Data: PREBLK01.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
2    Type: BFB          V4BFB50NG;;;;;
     Vial: 100          ;3;;;;all.sub;#5646
     Meth: V4BFB.M      Barcode:
     Data: V4BFB01.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
3    Type: Calibration V4STD0.25ppb;;;;;
     Vial: 1            ;1;;;1;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4STD01.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
4    Type: Calibration V4STD0.5ppb;;;;;
     Vial: 2            ;1;;;2;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4STD02.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
5    Type: Calibration V4STD1ppb;;;;;
     Vial: 3            ;1;;;3;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4STD03.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
6    Type: Calibration V4STD2ppb;;;;;
     Vial: 4            ;1;;;4;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4STD04.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
7    Type: Calibration V4STD10ppb;;;;;
     Vial: 5            ;1;;;5;gm-all.sub;#5717,5720
     Meth: VWATER4.M    Barcode:
     Data: V4STD05.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method

Sequence:032709V4.S  Last Modified:Sat Mar 28 07:43:54 2009  Page: 1
```

9601

```
8   Type: Calibration V4STD20ppb;;;;;
    Vial: 6            ;1;;;6;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD06.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Calibration V4STD50ppb;;;;;
    Vial: 7            ;1;;;7;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD07.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Spike        V4BLK0327LCS;;;;; 50ppb
    Vial: 8            ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VWATER4.M    Barcode:
    Data: V4ICV01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Calibration V4STD100ppb;;;;;
    Vial: 9            ;1;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD08.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Calibration V4STD200ppb;;;;;
    Vial: 10           ;1;;;9;gm-all.sub;#5717,5720
    Meth: VWATER4.M    Barcode:
    Data: V4STD09.D    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Blank        V4BLK;;;;;
    Vial: 11           ;3;BLANK;;;gm-all.sub;#5577
    Meth: VWATER4.M    Barcode:
    Data: BLANK01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Spike        V4BLK0327LCS;;;;; 50ppb
    Vial: 12           ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VWATER4.M    Barcode:
    Data: V4LCS01.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Blank        V4BLK;;;;;
    Vial: 13           ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK02.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Blank        V4BLK0327;;;;;
    Vial: 14           ;3;BLANK;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: V4BLK01.D    Samp Amt: 0          Multiplr: 1
```

```
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
17  Type: Blank        0903188-09;;;;;  pt sample
    Vial: 15           pt.v03273;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0318809.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
18  Type: Blank        V4BLK;;;;;
    Vial: 16           ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK03.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
19  Type: Blank        V4BLK;;;;;
    Vial: 17           ;3;BLANK;;;gm-all.sub;#5717
    Meth: VWATER4.M    Barcode:
    Data: BLANK04.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
20  Type: Blank        0903273-02;;;;;  624
    Vial: 18           isp.v03273;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0327302.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
21  Type: Blank        0903296-02;;;;;  100x h20 screen
    Vial: 19           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329602.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
22  Type: Blank        0903296-03;;;;;  100x h20 screen
    Vial: 20           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329603.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
23  Type: Blank        0903296-04;;;;;  100x h20 screen
    Vial: 21           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S329604.D    Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
24  Type: Blank        0903296-05;;;;;  100x h20 screen
    Vial: 22           sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: S0329605.D   Samp Amt: 0          Multiplr: 100
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
25  Type: Blank        0903296-06;;;;;  100x h20 screen
```

```
    Vial: 23          sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329606.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
26  Type: Blank       0903296-07;;;;;  100x h20 screen
    Vial: 24          sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329607.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
27  Type: Blank       0903296-08;;;;;  100x h20 screen
    Vial: 25          sha.v03296;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329608.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
28  Type: Blank       0903299-02;;;;;  100x h20 screen
    Vial: 26          sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329902.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
29  Type: Blank       0903299-03;;;;;  100x h20 screen
    Vial: 27          sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329903.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
30  Type: Blank       0903299-04;;;;;  100x h20 screen
    Vial: 28          sha.v03299;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0329904.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
31  Type: Blank       0903300-01;;;;;  100x h20 screen
    Vial: 29          sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0330001.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
32  Type: Blank       0903300-02;;;;;  100x h20 screen
    Vial: 30          sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0330002.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
33  Type: Blank       0903300-03;;;;;  100x h20 screen
    Vial: 31          sha.v03300;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0330003.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
```

```
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 34  Type: Blank        0903300-04;;;;;  100x h20 screen
     Vial: 32           sha.v03300;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330004.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 35  Type: Blank        0903300-05;;;;;  100x h20 screen
     Vial: 33           sha.v03300;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330005.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 36  Type: Blank        0903302-02;;;;;  100x h20 screen
     Vial: 34           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330202.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 37  Type: Blank        0903302-03;;;;;  100x h20 screen
     Vial: 35           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330203.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 38  Type: Blank        0903302-04;;;;;  100x h20 screen
     Vial: 36           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330204.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 39  Type: Blank        0903302-05;;;;;  100x h20 screen
     Vial: 37           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330205.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 40  Type: Blank        0903302-06;;;;;  100x h20 screen
     Vial: 38           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330206.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 41  Type: Blank        0903302-07;;;;;  100x h20 screen
     Vial: 39           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: S0330207.D   Samp Amt: 0          Multiplr: 100
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 42  Type: Blank        0903302-08;;;;;  100x h20 screen
     Vial: 40           sha.v03302;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:

Sequence:032709V4.S  Last Modified:Sat Mar 28 07:43:54 2009  Page: 5
```

9605

```
    Data: S0330208.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
43  Type: Blank       0903303-01;;;;;  100x h20 screen
    Vial: 41          sha.v03303;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0330301.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
44  Type: Blank       0903303-02;;;;;  100x h20 screen
    Vial: 42          sha.v03303;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: S0330302.D  Samp Amt: 0          Multiplr: 100
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

9606

Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S
Comment: 8260/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\032809V4\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Tune 8260

Line	Type	Vial	DataFile	Method	Sample Name	
1	BFB	50	V4BFB01	V4BFB	V4BFB50NG;;;;;	8:07 3/29/09 DL
2	DailyCal	1	V4CCV01	VWATER4	V4STD100ppb;;;;;	
3	DailyCal	2	V4CCVA9	VWATER4	V4STD100ppb;;;;;	
4	Spike	3	V4LCS01	VWATER4	V4BLK0328LCS;;;;;	50ppb
5	DailyCal	4	V4RL01	VWATER4	V4STD01ppb;;;;;	
6	Blank	5	BLANK01	VWATER4	V4BLK;;;;;	
7	Blank	6	V4BLK01	VWATER4	V4BLK0328;;;;;	
8	Sample	7	0325122	VWATER4	0903251-22;;;;;	vial1 TB
9	Sample	8	0325123	VWATER4	0903251-23;;;;;	vial1 TB
10	Sample	9	0326222	VWATER4	0903262-22;;;;;	vial1 TB
11	Sample	10	0325121	VWATER4	0903251-21;;;;;	vial1
12	Sample	11	0326221	VWATER4	0903262-21;;;;;	vial1
13	Sample	12	0329201D	VWATER4	0903292-01;;;;;	vial1 50X
14	Sample	13	0329202	VWATER4	0903292-02;;;;;	vial1
15	Sample	14	0329203D	VWATER4	0903292-03;;;;;	vial1 200X
16	Sample	15	0329204D	VWATER4	0903292-04;;;;;	vial1 50X
17	Sample	16	0329205D	VWATER4	0903292-05;;;;;	vial1 50X
18	Sample	17	0329206D	VWATER4	0903292-06;;;;;	vial1 25X
19	Sample	18	0329207D	VWATER4	0903292-07;;;;;	vial1 50X
20	Sample	19	0329208D	VWATER4	0903292-08;;;;;	vial1 10X
21	Sample	20	0327901D	VWATER4	0903279-01;;;;;	vial1 5X
22	Sample	21	0327902D	VWATER4	0903279-02;;;;;	vial1 5X
23	Sample	22	0328201D	VWATER4	0903282-01;;;;;	vial1 5X
24	Sample	23	0329001D	VWATER4	0903290-01;;;;;	vial1 200X
25	Spike	24	V4LCD01	VWATER4	V4BLK0328LCSD;;;;;	50ppb
26	BFB	50	V4BFB01E	V4BFB	V4BFB50NG;;;;;	20:24 3/29/09 DL
27	DailyCal	25	V4CCV01E	VWATER4	V4STD100ppb;;;;;	
28	Spike	26	V4LCS01E	VWATER4	V4BLK0328ELCS;;;;;	50ppb
29	DailyCal	27	V4RL01E	VWATER4	V4STD01ppb;;;;;	
30	Blank	28	BLANK01E	VWATER4	V4BLK;;;;;	
31	Blank	29	V4BLK01E	VWATER4	V4BLK0328E;;;;;	
32	Sample	30	0325905	VWATER4	0903259-05;;;;;	vial1 TB
33	Sample	31	0326701	VWATER4	0903267-01;;;;;	vial1 TB
34	Sample	32	0325801D	VWATER4	0903258-01;;;;;	vial1 5X
35	Sample	33	0325802D	VWATER4	0903258-02;;;;;	vial1 5X
36	Sample	34	0325803D	VWATER4	0903258-03;;;;;	vial1 5X
37	Sample	35	0325804D	VWATER4	0903258-04;;;;;	vial1 5X
38	Sample	36	0325805D	VWATER4	0903258-05;;;;;	vial1 5X
39	Sample	37	0325901	VWATER4	0903259-01;;;;;	vial1
40	Sample	38	0325902	VWATER4	0903259-02;;;;;	vial1
41	Sample	39	0325903	VWATER4	0903259-03;;;;;	vial1
42	Sample	40	0325904	VWATER4	0903259-04;;;;;	vial1
43	Sample	41	0326601	VWATER4	0903266-01;;;;;	vial1

Last Modified: Sun Mar 29 10:04:58 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S

9607

Line	Type	Vial	DataFile	Method	Sample Name
44	Sample	42	0326602	VWATER4	0903266-02;;;;; vial1
45	Sample	43	0326603	VWATER4	0903266-03;;;;; vial1
46	Sample	44	0326604	VWATER4	0903266-04;;;;; vial1
47	Sample	45	0326702	VWATER4	0903267-02;;;;; vial1
48	Sample	46	0326703	VWATER4	0903267-03;;;;; vial1
49	Sample	47	0326704	VWATER4	0903267-04;;;;; vial1
50	Sample	48	0326704M	VWATER4	0903267-04;;;;; vial1 MS
51	Sample	49	0326704S	VWATER4	0903267-04;;;;; vial1 MSD
52	BFB	50	V4BFB01F	V4BFB	V4BFB50NG;;;;;
53	DailyCal	1	V4CCV01F	VWATER4	V4STD100ppb;;;;;
54	Spike	2	V4LCS01F	VWATER4	V4BLK0328FLCS;;;;; 50ppb
55	Spike	3	V4LCS624	VWATER4	V4BLK0328FLCS;;;;; 20ppb
56	DailyCal	4	V4RL01F	VWATER4	V4STD01ppb;;;;;
57	Blank	5	BLANK01F	VWATER4	V4BLK;;;;;
58	Blank	6	V4BLK01F	VWATER4	V4BLK0328F;;;;;
59	Sample	7	0328905	VWATER4	0903289-05;;;;; vial1 TB
60	Sample	8	0328906	VWATER4	0903289-06;;;;; vial1 TB
61	Sample	9	0328601	VWATER4	0903286-01;;;; vial1
62	Sample	10	0328602	VWATER4	0903286-02;;;; vial1
63	Sample	11	0328603	VWATER4	0903286-03;;;; vial1
64	Sample	12	0328604	VWATER4	0903286-04;;;; vial1
65	Sample	13	0328605	VWATER4	0903286-05;;;; vial1
66	Sample	14	0328606	VWATER4	0903286-06;;;; vial1
67	Sample	15	0328607	VWATER4	0903286-07;;;; vial1
68	Sample	16	0328608	VWATER4	0903286-08;;;; vial1
69	Sample	17	0328609	VWATER4	0903286-09;;;; vial1
70	Sample	18	0328901	VWATER4	0903289-01;;;; vial1
71	Sample	19	0328902	VWATER4	0903289-02;;;; vial1
72	Sample	20	0328903	VWATER4	0903289-03;;;; vial1
73	Sample	21	0328904	VWATER4	0903289-04;;;; vial1
74	Sample	22	0330301	VWATER4	0903303-01;;;; vial1
75	Sample	23	0330302	VWATER4	0903303-02;;;; vial1
76	Sample	24	0328001	VWATER4	0903280-01;;;; vial1 624
77	Spike	25	V4LCD01F	VWATER4	V4BLK0328FLCSD;;;;; 50ppb

HD ERROR

- RR

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\032809V4.S
      Comment: 8260/624
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\032809V4\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------
1   Type: BFB           V4BFB50NG;;;;;
    Vial: 50            ;3;;;;all.sub;#5646
    Meth: V4BFB.M       Barcode:
    Data: V4BFB01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
2   Type: DailyCal      V4STD100ppb;;;;;
    Vial: 1              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4CCV01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
3   Type: DailyCal      V4STD100ppb;;;;;
    Vial: 2              ;;;;8;ap9hex.sub;#5717,5629
    Meth: VWATER4.M     Barcode:
    Data: V4CCVA9.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
4   Type: Spike         V4BLK0328LCS;;;;; 50ppb
    Vial: 3              ;3;LCS;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCS01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
5   Type: DailyCal      V4STD01ppb;;;;;
    Vial: 4              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4RL01.D      Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
6   Type: Blank         V4BLK;;;;;
    Vial: 5             ;3;BLANK;;;gm-allap9.sub;#5577
    Meth: VWATER4.M     Barcode:
    Data: BLANK01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
7   Type: Blank         V4BLK0328;;;;;
    Vial: 6             ;3;BLANK;;;gm-allap9.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: V4BLK01.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
```

pH<2

```
8   Type: Sample       0903251-22;;;;;  vial1 TB
    Vial: 7            tet.v03251;0;;;;gm-allap9.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325122.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
9   Type: Sample       0903251-23;;;;;  vial1 TB
    Vial: 8            tet.v03251;0;;;;gm-allap9.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325123.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
10  Type: Sample       0903262-22;;;;;  vial1 TB
    Vial: 9            tet.v03262;0;;;;gm-allap9.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0326222.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
11  Type: Sample       0903251-21;;;;;  vial1
    Vial: 10           tet.v03251;0;;;;gm-allap9.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325121.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
12  Type: Sample       0903262-21;;;;;  vial1
    Vial: 11           tet.v03262;0;;;;gm-allap9.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0326221.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
13  Type: Sample       0903292-01;;;;;  vial1 50X
    Vial: 12           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329201D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
14  Type: Sample       0903292-02;;;;;  vial1
    Vial: 13           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329202.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
15  Type: Sample       0903292-03;;;;;  vial1 200X
    Vial: 14           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329203D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
16  Type: Sample       0903292-04;;;;;  vial1 50X
    Vial: 15           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329204D.D   Samp Amt: 0          Multiplr: 1
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```
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
17  Type: Sample       0903292-05;;;;;  vial1 50X
    Vial: 16           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329205D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
18  Type: Sample       0903292-06;;;;;  vial1 25X
    Vial: 17           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329206D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
19  Type: Sample       0903292-07;;;;;  vial1 50X
    Vial: 18           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329207D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
20  Type: Sample       0903292-08;;;;;  vial1 10X
    Vial: 19           b&c.v03292;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329208D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
21  Type: Sample       0903279-01;;;;;  vial1 5X
    Vial: 20           blu.v03279;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0327901D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
22  Type: Sample       0903279-02;;;;;  vial1 5X
    Vial: 21           blu.v03279;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0327902D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
23  Type: Sample       0903282-01;;;;;  vial1 5X
    Vial: 22           gri.v03282;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0328201D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
24  Type: Sample       0903290-01;;;;;  vial1 200X
    Vial: 23           gri.v03290;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0329001D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
25  Type: Spike        V4BLK0328LCSD;;;;; 50ppb

Sequence:032809V4.S  Last Modified:Sun Mar 29 10:04:58 2009  Page: 3
```

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```
    Vial: 24            ;3;LCSD;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCD01.D     Samp Amt: 0          Multiplr: 1
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
26  Type: BFB           V4BFB50NG;;;;;
    Vial: 50            ;3;;;;all.sub;#5646
    Meth: V4BFB.M       Barcode:
    Data: V4BFB01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
27  Type: DailyCal      V4STD100ppb;;;;;
    Vial: 25             ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4CCV01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
28  Type: Spike         V4BLK0328ELCS;;;;; 50ppb
    Vial: 26             ;3;LCS;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCS01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
29  Type: DailyCal      V4STD01ppb;;;;;
    Vial: 27             ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4RL01E.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
30  Type: Blank         V4BLK;;;;;
    Vial: 28            ;3;BLANK;;;gm-allap9.sub;#5577
    Meth: VWATER4.M     Barcode:
    Data: BLANK01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
31  Type: Blank         V4BLK0328E;;;;;
    Vial: 29            ;3;BLANK;;;gm-allap9.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: V4BLK01E.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
32  Type: Sample        0903259-05;;;;;  vial1 TB
    Vial: 30            nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: 0325905.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
33  Type: Sample        0903267-01;;;;;  vial1 TB
    Vial: 31            sha.v03267;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: 0326701.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
```

9611

pH<2

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    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
34  Type: Sample       0903258-01;;;;;  vial1 5X
    Vial: 32           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325801D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
35  Type: Sample       0903258-02;;;;;  vial1 5X
    Vial: 33           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325802D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
36  Type: Sample       0903258-03;;;;;  vial1 5X
    Vial: 34           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325803D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
37  Type: Sample       0903258-04;;;;;  vial1 5X
    Vial: 35           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325804D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
38  Type: Sample       0903258-05;;;;;  vial1 5X
    Vial: 36           gri.v03258;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325805D.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
39  Type: Sample       0903259-01;;;;;  vial1
    Vial: 37           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325901.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
40  Type: Sample       0903259-02;;;;;  vial1
    Vial: 38           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325902.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
41  Type: Sample       0903259-03;;;;;  vial1
    Vial: 39           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
    Data: 0325903.D    Samp Amt: 0          Multiplr: 1
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
42  Type: Sample       0903259-04;;;;;  vial1
    Vial: 40           nas.v03259;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M    Barcode:
```

pH<2

9612

```
    Data: 0325904.D   Samp Amt: 0          Multiplr: 1
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    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
43  Type: Sample      0903266-01;;;;;  vial1
    Vial: 41          sha.v03266;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326601.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
44  Type: Sample      0903266-02;;;;;  vial1
    Vial: 42          sha.v03266;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326602.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
45  Type: Sample      0903266-03;;;;;  vial1
    Vial: 43          sha.v03266;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326603.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
46  Type: Sample      0903266-04;;;;;  vial1
    Vial: 44          sha.v03266;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326604.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
47  Type: Sample      0903267-02;;;;;  vial1
    Vial: 45          sha.v03267;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326702.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
48  Type: Sample      0903267-03;;;;;  vial1
    Vial: 46          sha.v03267;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326703.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
49  Type: Sample      0903267-04;;;;;  vial1
    Vial: 47          sha.v03267;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326704.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
50  Type: Sample      0903267-04;;;;;  vial1 MS
    Vial: 48          sha.v03267;3;MS;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0326704M.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
```

pH<2

9613

```
51  Type: Sample        0903267-04;;;;;  vial1 MSD
    Vial: 49            sha.v03267;3;MSD;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: 0326704S.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
52  Type: BFB           V4BFB50NG;;;;;
    Vial: 50            ;3;;;;all.sub;#5646
    Meth: V4BFB.M       Barcode:
    Data: V4BFB01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
53  Type: DailyCal      V4STD100ppb;;;;;
    Vial: 1              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4CCV01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
54  Type: Spike         V4BLK0328FLCS;;;;; 50ppb
    Vial: 2              ;3;LCS;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCS01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
55  Type: Spike         V4BLK0328FLCS;;;;; 20ppb
    Vial: 3              ;3;LCS;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCS624.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
56  Type: DailyCal      V4STD01ppb;;;;;
    Vial: 4              ;;;;8;gm-all.sub;#5717,5720
    Meth: VWATER4.M     Barcode:
    Data: V4RL01F.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
57  Type: Blank         V4BLK;;;;;
    Vial: 5             ;3;BLANK;;;gm-allap9.sub;#5577
    Meth: VWATER4.M     Barcode:
    Data: BLANK01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
58  Type: Blank         V4BLK0328F;;;;;
    Vial: 6             ;3;BLANK;;;gm-allap9.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: V4BLK01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
59  Type: Sample        0903289-05;;;;;  vial1 TB
    Vial: 7             hyd.v03289;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M     Barcode:
    Data: 0328905.D     Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
```

pH<2 9614

pH<2

```
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
60  Type: Sample      0903289-06;;;;;  vial1 TB
    Vial: 8           hyd.v03289;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328906.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
61  Type: Sample      0903286-01;;;;  vial1
    Vial: 9           sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328601.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
62  Type: Sample      0903286-02;;;;  vial1
    Vial: 10          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328602.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
63  Type: Sample      0903286-03;;;;  vial1
    Vial: 11          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328603.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
64  Type: Sample      0903286-04;;;;  vial1
    Vial: 12          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328604.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
65  Type: Sample      0903286-05;;;;  vial1
    Vial: 13          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328605.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
66  Type: Sample      0903286-06;;;;  vial1
    Vial: 14          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328606.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
67  Type: Sample      0903286-07;;;;  vial1
    Vial: 15          sha.v03286;0;;;;gm-all.sub;#5646
    Meth: VWATER4.M   Barcode:
    Data: 0328607.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
68  Type: Sample      0903286-08;;;;  vial1
    Vial: 16          sha.v03286;0;;;;gm-all.sub;#5646
```

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```
     Meth: VWATER4.M    Barcode:
     Data: 0328608.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 69  Type: Sample       0903286-09;;;;  vial1
     Vial: 17           sha.v03286;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328609.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 70  Type: Sample       0903289-01;;;;  vial1
     Vial: 18           hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328901.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 71  Type: Sample       0903289-02;;;;  vial1
     Vial: 19           hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328902.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 72  Type: Sample       0903289-03;;;;  vial1
     Vial: 20           hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328903.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 73  Type: Sample       0903289-04;;;;  vial1
     Vial: 21           hyd.v03289;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328904.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 74  Type: Sample       0903303-01;;;;  vial1
     Vial: 22           sha.v03303;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0330301.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 75  Type: Sample       0903303-02;;;;  vial1
     Vial: 23           sha.v03303;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0330302.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
 76  Type: Sample       0903280-01;;;;  vial1 624
     Vial: 24           par.v03280;0;;;;gm-all.sub;#5646
     Meth: VWATER4.M    Barcode:
     Data: 0328001.D    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
```

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```
--------------------------------------------------------------------------------
77  Type: Spike         V4BLK0328FLCSD;;;;; 50ppb
    Vial: 25             ;3;LCSD;;;gm-all.sub;#5717,5721, 5630
    Meth: VWATER4.M     Barcode:
    Data: V4LCD01F.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method       Lib. Search Rep :per Method
    Quant Report      :per Method       Post-Quant Macro:per Method
    CR Database       :per Method       CR Spreadsheet  :per Method
--------------------------------------------------------------------------------
```

9617

Sequence Name: C:\HPCHEM\1\SEQUENCE\032909V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032909v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8891
3-31-09 (JH)

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	QC	50	V1BFB01	V1BFB	V1BFB 50ng;;;;;12:12 PM 3-29-09 (JH)
2	ICal	1	V1CCV01	VSOIL1	V1STD100ppb;;;;;
3	ICal	2	V1CCVA9	VSOIL1	V1STD100ppb;;;;;
4	Sample	3	V1LCS01	VSOIL1	V1BLK0329LCS;;;;; 50ppb
5	Sample	4	BLANK02	VSOIL1	V1BLK;;;;;
6	Sample	5	V1BLK01	VSOIL1	V1BLK0329;;;;;
7	Sample	6	0325102A	VSOIL1	0903251-02;;4.08;;; A VIAL
8	Sample	7	0325104A	VSOIL1	0903251-04;;4.74;;; A VIAL
9	Sample	8	0325106A	VSOIL1	0903251-06;;4.97;;; A VIAL
10	Sample	9	0325108A	VSOIL1	0903251-08;;4.37;;; A VIAL
11	Sample	10	0325110A	VSOIL1	0903251-10;;4.90;;; A VIAL
12	Sample	11	0325112A	VSOIL1	0903251-12;;4.86;;; A VIAL
13	Sample	12	0325114A	VSOIL1	0903251-14;;4.63;;; A VIAL
14	Sample	13	0325116A	VSOIL1	0903251-16;;4.70;;; A VIAL
15	Sample	14	0325118A	VSOIL1	0903251-18;;4.68;;; A VIAL
16	Sample	15	0325120A	VSOIL1	0903251-20;;5.01;;; A VIAL
17	Sample	16	V1LCD01	VSOIL1	V1BLK0329LCSD;;;;; 50ppb 10:23 PM 3-29-09 (JH)
18	QC	50	V1BFB01E	V1BFB	V1BFB 50ng;;;;;10:59PM 3-29-09 (JH)
19	ICal	17	V1CCV01E	VSOIL1	V1STD100ppb;;;;;
20	ICal	18	V1CCVA9E	VSOIL1	V1STD100ppb;;;;;
21	Sample	19	V1LCS01E	VSOIL1	V1BLK0329ELCS;;;;; 50ppb
22	Sample	20	BLANK02E	VSOIL1	V1BLK;;;;;
23	Sample	21	V1BLK01E	VSOIL1	V1BLK0329E;;;;;
24	Sample	22	0326202A	VSOIL1	0903262-02;;4.53;;; A VIAL
25	Sample	23	0326204A	VSOIL1	0903262-04;;4.90;;; A VIAL
26	Sample	24	0326206A	VSOIL1	0903262-06;;4.92;;; A VIAL
27	Sample	25	0326208A	VSOIL1	0903262-08;;4.82;;; A VIAL
28	Sample	26	0326210A	VSOIL1	0903262-10;;5.28;;; A VIAL
29	Sample	27	0326212A	VSOIL1	0903262-12;;4.84;;; A VIAL
30	Sample	28	0326214A	VSOIL1	0903262-14;;4.70;; A VIAL
31	Sample	29	0326216A	VSOIL1	0903262-16;;4.64;; A VIAL
32	Sample	30	0326218A	VSOIL1	0903262-18;;4.23;; A VIAL
33	Sample	31	0326220A	VSOIL1	0903262-20;;4.69;; A VIAL
34	Sample	32	0326301A	VSOIL1	0903263-01;;5.0;; A VIAL
35	Sample	33	0326302A	VSOIL1	0903263-02;;5.0;; A VIAL
36	Sample	34	0326202M	VSOIL1	0903262-02;;4.52;; A VIAL MS
37	Sample	35	0326202S	VSOIL1	0903262-02;;4.17;; A VIAL MSD 11:06 AM 3-30-09

Sequence Name: C:\HPCHEM\1\SEQUENCE\032909V1.S
Comment: EPA 8260B
Operator: JH
Data Path: C:\HPCHEM\1\DATA\032909v1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

8B2

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1	Type: QC	V1BFB 50ng;;;;;	
	Vial: 50	;3;BFB;;;all.sub;#5646	
	Meth: V1BFB.M	Barcode:	
	Data: V1BFB01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
2	Type: ICal	V1STD100ppb;;;;;	
	Vial: 1	;;;;6;gm-all.sub;#5717,5720	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCV01.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
3	Type: ICal	V1STD100ppb;;;;;	
	Vial: 2	;;;;6;ap9hex.sub;#5717,5720,5629	
	Meth: VSOIL1.M	Barcode:	
	Data: V1CCVA9.D	LvlId:	UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
4	Type: Sample	V1BLK0329LCS;;;;; 50ppb	
	Vial: 3	;3;LCS;;;gm-all.sub;#5717,5721	
	Meth: VSOIL1.M	Barcode:	
	Data: V1LCS01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
5	Type: Sample	V1BLK;;;;;	
	Vial: 4	;3;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: BLANK02.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
6	Type: Sample	V1BLK0329;;;;;	
	Vial: 5	;3;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: V1BLK01.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
7	Type: Sample	0903251-02;;4.08;;; A VIAL	
	Vial: 6	tet.v03251;0;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	
	Data: 0325102A.D	Samp Amt: 0	Multiplr: 1
	Area% Report	:Default	Lib. Search Rep.:Default
	Quant Report	:Default	Post-Quant Macro:Default
	CR Database	:Default	CR Spreadsheet :Default
8	Type: Sample	0903251-04;;4.74;;; A VIAL	
	Vial: 7	tet.v03251;0;;;;gm-all.sub;#5717	
	Meth: VSOIL1.M	Barcode:	

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```
     Data: 0325104A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9   Type: Sample       0903251-06;;4.97;;;  A VIAL
     Vial: 8            tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325106A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
10   Type: Sample       0903251-08;;4.37;;;  A VIAL
     Vial: 9            tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325108A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
11   Type: Sample       0903251-10;;4.90;;;  A VIAL
     Vial: 10           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325110A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
12   Type: Sample       0903251-12;;4.86;;;  A VIAL
     Vial: 11           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325112A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
13   Type: Sample       0903251-14;;4.63;;;  A VIAL
     Vial: 12           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325114A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
14   Type: Sample       0903251-16;;4.70;;;  A VIAL
     Vial: 13           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325116A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
15   Type: Sample       0903251-18;;4.68;;;  A VIAL
     Vial: 14           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325118A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
16   Type: Sample       0903251-20;;5.01;;;  A VIAL
     Vial: 15           tet.v03251;0;;;;gm-all.sub;#5717
     Meth: VSOIL1.M     Barcode:
     Data: 0325120A.D  Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
17   Type: Sample       V1BLK0329LCSD;;;;;  50ppb
     Vial: 16           ;3;LCSD;;;gm-all.sub;#5717,5721
     Meth: VSOIL1.M     Barcode:
     Data: V1LCD01.D   Samp Amt: 0          Multiplr: 1
```

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    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
18  Type: QC          V1BFB 50ng;;;;;
    Vial: 50          ;3;BFB;;;all.sub;#5646
    Meth: V1BFB.M     Barcode:
    Data: V1BFB01E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
19  Type: ICal        V1STD100ppb;;;;;
    Vial: 17          ;;;;6;gm-all.sub;#5717,5720
    Meth: VSOIL1.M    Barcode:
    Data: V1CCV01E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
20  Type: ICal        V1STD100ppb;;;;;
    Vial: 18          ;;;;6;ap9hex.sub;#5717,5720,5629
    Meth: VSOIL1.M    Barcode:
    Data: V1CCVA9E.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
21  Type: Sample      V1BLK0329ELCS;;;;;  50ppb
    Vial: 19          ;3;LCS;;;gm-all.sub;#5717,5721
    Meth: VSOIL1.M    Barcode:
    Data: V1LCS01E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
22  Type: Sample      V1BLK;;;;;
    Vial: 20          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: BLANK02E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
23  Type: Sample      V1BLK0329E;;;;;
    Vial: 21          ;3;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: V1BLK01E.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
24  Type: Sample      0903262-02;;4.53;;;  A VIAL
    Vial: 22          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326202A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
25  Type: Sample      0903262-04;;4.90;;;  A VIAL
    Vial: 23          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326204A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
26  Type: Sample      0903262-06;;4.92;;;  A VIAL
    Vial: 24          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326206A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
```

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    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
27  Type: Sample      0903262-08;;4.82;;;  A VIAL
    Vial: 25          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326208A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
28  Type: Sample      0903262-10;;5.28;;;  A VIAL
    Vial: 26          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326210A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
29  Type: Sample      0903262-12;;4.84;;;  A VIAL
    Vial: 27          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326212A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
30  Type: Sample      0903262-14;;4.70;;  A VIAL
    Vial: 28          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326214A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
31  Type: Sample      0903262-16;;4.64;;  A VIAL
    Vial: 29          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326216A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
32  Type: Sample      0903262-18;;4.23;;  A VIAL
    Vial: 30          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326218A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
33  Type: Sample      0903262-20;;4.69;;  A VIAL
    Vial: 31          tet.v03262;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326220A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
34  Type: Sample      0903263-01;;5.0;;  A VIAL
    Vial: 32          sha.v03263;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326301A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
35  Type: Sample      0903263-02;;5.0;;  A VIAL
    Vial: 33          sha.v03263;0;;;;gm-all.sub;#5717
    Meth: VSOIL1.M    Barcode:
    Data: 0326302A.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
```

CR Database :Default CR Spreadsheet :Default

---

36 Type: Sample 0903262-02;;4.52;; A VIAL MS
Vial: 34 tet.v03262;3;MS;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0326202M.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

---

37 Type: Sample 0903262-02;;4.17;; A VIAL MSD
Vial: 35 tet.v03262;3;MSD;;;gm-all.sub;#5717
Meth: VSOIL1.M Barcode:
Data: 0326202S.D Samp Amt: 0 Multiplr: 1
Area% Report :Default Lib. Search Rep.:Default
Quant Report :Default Post-Quant Macro:Default
CR Database :Default CR Spreadsheet :Default

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Sequence Name: C:\msdchem\1\sequence\040509V3.s
Comment: EPA8260B/524.2/624
Operator: DL
Data Path: C:\MSDCHEM\1\DATA\040509V3\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8979

Tune 1

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info			
1)	Blank	100	PREBLK01	VWATER3	V3PREBLK;;;;;; 9:29 4/5/09 DL
2)	Sample	50	V3BFB01	VWATER3	V3BFB 25NG;;;;;;
3)	DailyCal	1	V3CCV01	VWATER3	V3STD100ppb;;;;;;
4)	DailyCal	2	V3CCVA9	VWATER3	V3STD100ppb;;;;;;
5)	Spike	3	V3LCSA9	VWATER3	V3BLK0405LCS;;;;;;
6)	Blank	4	V3RL01	VWATER3	V3RLSTD1.0ppb;;;;;;
7)	Blank	5	BLANK01	VWATER3	V3BLK;;;;;;
8)	Blank	6	V3BLK01	VWATER3	V3BLK0405;;;;;;
9)	Sample	7	0402111	VWATER3	0904021-11;;;;;; tb/vial1
10)	Sample	8	0402602	VWATER3	0904026-02;;;;;; tb/vial1
11)	Sample	9	0402601	VWATER3	0904026-01;;;;;; vial1
12)	Sample	10	0402101	VWATER3	0904021-01;;;;;; vial1
13)	Sample	11	0402102	VWATER3	0904021-02;;;;;; vial1
14)	Sample	12	0402103	VWATER3	0904021-03;;;;;; vial1
15)	Sample	13	0402104	VWATER3	0904021-04;;;;;; vial1
16)	Sample	14	0402106	VWATER3	0904021-06;;;;;; vial1
17)	Sample	15	0402107	VWATER3	0904021-07;;;;;; vial1
18)	Sample	16	0402108	VWATER3	0904021-08;;;;;; vial1
19)	Sample	17	0402109	VWATER3	0904021-09;;;;;; vial1
20)	Sample	18	0402110	VWATER3	0904021-10;;;;;; vial1
21)	Sample	19	0402918	VWATER3	0904029-18;;;;;; vial1
22)	Sample	20	0402919	VWATER3	0904029-19;;;;;; vial1
23)	Sample	21	0402105D	VWATER3	0904021-05;;;;;; 10x/vial1
24)	Sample	22	0402101M	VWATER3	0904021-01;;;;;; vial1-MS
25)	Sample	23	0402101S	VWATER3	0904021-01;;;;;; vial1-MSD
26)	Sample	50	V3BFB01E	VWATER3	V3BFB 25NG;;;;;; 23:23 4/5/09 DL
27)	DailyCal	24	V3CCV01E	VWATER3	V3STD100ppb;;;;;;
28)	Spike	25	V3LCS01E	VWATER3	V3BLK0405ELCS;;;;;;
29)	Blank	26	V3RL01E	VWATER3	V3RLSTD1.0ppb;;;;;;
30)	Blank	27	BLANK01E	VWATER3	V3BLK;;;;;;
31)	Blank	28	V3BLK01E	VWATER3	V3BLK0405E;;;;;;
32)	Sample	29	0401901	VWATER3	0904019-01;;;;;; tb/ vial1
33)	Sample	30	0402926	VWATER3	0904029-26;;;;;; tb/ vial1
34)	Sample	31	0402920	VWATER3	0904029-20;;;;;; eb/ vial1
35)	Sample	32	0402921	VWATER3	0904029-21;;;;;; eb/ vial1
36)	Sample	33	0402923	VWATER3	0904029-23;;;;;; vial1
37)	Sample	34	0402924	VWATER3	0904029-24;;;;;; vial1
38)	Sample	35	0402925	VWATER3	0904029-25;;;;;; vial1
39)	Sample	36	0401902	VWATER3	0904019-02;;;;;; vial1
40)	Sample	37	0401903	VWATER3	0904019-03;;;;;; vial1
41)	Sample	38	0401904	VWATER3	0904019-04;;;;;; vial1
42)	Sample	39	0401905	VWATER3	0904019-05;;;;;; vial1
43)	Sample	40	0401906	VWATER3	0904019-06;;;;;; vial1

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Sequence Name: C:\msdchem\1\sequence\040509V3.s

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	Line	Type	Vial	DataFile	Method	Sample Name	
44)		Sample	41	0402001	VWATER3	0904020-01;;;;;;	vial1
45)		Sample	42	0402002	VWATER3	0904020-02;;;;;;	vial1
46)		Sample	43	0402922D	VWATER3	0904029-22;;;;;;	25x/vial1
47)		Sample	44	0402002M	VWATER3	0904020-02;;;;;;	vial1-MS
48)		Sample	45	0402002S	VWATER3	0904020-02;;;;;;	vial1-MSD
49)		Sample	100	V3BFB	VWATER3	V3BFB 25NG;;;;;;	

```
   Sequence Name: C:\msdchem\1\sequence\040509V3.s
         Comment: EPA8260B/524.2/624
        Operator: DL
       Data Path: C:\MSDCHEM\1\DATA\040509V3\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control  Post-Seq Cmd:
Data Analysis       Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------------
Line                        Sample Name/Misc Info
-------------------------------------------------------------------
1    Type: Blank        V3PREBLK;;;;;;
     Vial: 100          ;3;BLANK;;;gm-all.sub;#5717
     Method  : VWATER3.M
     Datafile: PREBLK01.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
2    Type: Sample       V3BFB 25NG;;;;;;
     Vial: 50           ;3;;;;gm-all.sub;#5646
     Method  : VWATER3.M
     Datafile: V3BFB01.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
3    Type: DailyCal     V3STD100ppb;;;;;;
     Vial: 1            ;2;;;;gm-all.sub;#5717, #5720
     Method  : VWATER3.M
     Datafile: V3CCV01.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
4    Type: DailyCal     V3STD100ppb;;;;;;
     Vial: 2            ;2;;;;ap9hex.sub;#5717, #5729
     Method  : VWATER3.M
     Datafile: V3CCVA9.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
5    Type: Spike        V3BLK0405LCS;;;;;;
     Vial: 3            ;3;LCS;;;gm-allap9.sub;#5717,5721,5630
     Method  : VWATER3.M
     Datafile: V3LCSA9.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
6    Type: Blank        V3RLSTD1.0ppb;;;;;;
     Vial: 4            ;0;;;;gm-all.sub;#5717,5720
     Method  : VWATER3.M
     Datafile: V3RL01.D
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report    :per Method       Lib. Search Rep :per Method
     Quant Report    :per Method       Post-Quant Macro:per Method
     CR Database     :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------
7    Type: Blank        V3BLK;;;;;;
```



```
Sequence Last Modified  Sun Apr 05 12:05:57 2009        Page: 1
```

Vial: 5 ;3;BLANK;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: BLANK01.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

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---

8 Type: Blank V3BLK0405;;;;;;
Vial: 6 ;3;BLANK;;;gm-allap9.sub;#5717
Method : VWATER3.M
Datafile: V3BLK01.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

9 Type: Sample 0904021-11;;;;;; tb/vial1
Vial: 7 ch2.v04021;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402111.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

pH 2

---

10 Type: Sample 0904026-02;;;;;; tb/vial1
Vial: 8 tet.v04026;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402602.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

11 Type: Sample 0904026-01;;;;;; vial1
Vial: 9 tet.v04026;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402601.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

12 Type: Sample 0904021-01;;;;;; vial1
Vial: 10 ch2.v04021;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402101.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

13 Type: Sample 0904021-02;;;;;; vial1
Vial: 11 ch2.v04021;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402102.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

14 Type: Sample 0904021-03;;;;;; vial1
Vial: 12 ch2.v04021;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402103.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

15 Type: Sample 0904021-04;;;;;; vial1

```
    Vial: 13            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402104.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Sample        0904021-06;;;;;;  vial1
    Vial: 14            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402106.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17  Type: Sample        0904021-07;;;;;;  vial1
    Vial: 15            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402107.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
18  Type: Sample        0904021-08;;;;;;  vial1
    Vial: 16            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402108.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
19  Type: Sample        0904021-09;;;;;;  vial1
    Vial: 17            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402109.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
20  Type: Sample        0904021-10;;;;;;  vial1
    Vial: 18            ch2.v04021;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402110.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
21  Type: Sample        0904029-18;;;;;;  vial1
    Vial: 19            agv.v04029;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402918.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
22  Type: Sample        0904029-19;;;;;;  vial1
    Vial: 20            agv.v04029;0;;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402919.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
23  Type: Sample        0904021-05;;;;;;  10x/vial1
```

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```
    Vial: 21            ch2.v04021;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402105D.D
    Bar Code:                       Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
24  Type: Sample        0904021-01;;;;;;  vial1-MS
    Vial: 22            ch2.v04021;3;MS;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402101M.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
25  Type: Sample        0904021-01;;;;;;  vial1-MSD
    Vial: 23            ch2.v04021;3;MSD;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402101S.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
26  Type: Sample        V3BFB 25NG;;;;;;
    Vial: 50            ;3;;;;gm-all.sub;#5646
    Method   : VWATER3.M
    Datafile: V3BFB01E.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
27  Type: DailyCal      V3STD100ppb;;;;;;
    Vial: 24            ;2;;;;gm-all.sub;#5717, #5720
    Method   : VWATER3.M
    Datafile: V3CCV01E.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
28  Type: Spike         V3BLK0405ELCS;;;;;;
    Vial: 25            ;3;LCS;;;gm-all.sub;#5717,5721
    Method   : VWATER3.M
    Datafile: V3LCS01E.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
29  Type: Blank         V3RLSTD1.0ppb;;;;;;
    Vial: 26            ;0;;;;gm-all.sub;#5717,5720
    Method   : VWATER3.M
    Datafile: V3RL01E.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
30  Type: Blank         V3BLK;;;;;;
    Vial: 27            ;3;BLANK;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: BLANK01E.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
31  Type: Blank         V3BLK0405E;;;;;;
```

pH 2 3

200

Vial: 28 ;3;BLANK;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: V3BLK01E.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

8985

---

32 Type: Sample 0904019-01;;;;;; tb/ vial1
Vial: 29 sha.v04019;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0401901.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

pH 2

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33 Type: Sample 0904029-26;;;;;; tb/ vial1
Vial: 30 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402926.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

34 Type: Sample 0904029-20;;;;;; eb/ vial1
Vial: 31 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402920.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

35 Type: Sample 0904029-21;;;;;; eb/ vial1
Vial: 32 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402921.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

36 Type: Sample 0904029-23;;;;;; vial1
Vial: 33 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402923.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

37 Type: Sample 0904029-24;;;;;; vial1
Vial: 34 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402924.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

38 Type: Sample 0904029-25;;;;;; vial1
Vial: 35 agv.v04029;0;;;;gm-all.sub;#5717
Method : VWATER3.M
Datafile: 0402925.D
Bar Code: Samp Amt: 0 Multiplr: 1
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

---

39 Type: Sample 0904019-02;;;;;; vial1

```
    Vial: 36          sha.v04019;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0401902.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
40  Type: Sample      0904019-03;;;;;;  vial1
    Vial: 37          sha.v04019;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0401903.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
41  Type: Sample      0904019-04;;;;;;  vial1
    Vial: 38          sha.v04019;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0401904.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
42  Type: Sample      0904019-05;;;;;;  vial1
    Vial: 39          sha.v04019;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0401905.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
43  Type: Sample      0904019-06;;;;;;  vial1
    Vial: 40          sha.v04019;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0401906.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
44  Type: Sample      0904020-01;;;;;;  vial1
    Vial: 41          sha.v04020;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402001.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
45  Type: Sample      0904020-02;;;;;;  vial1
    Vial: 42          sha.v04020;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402002.D
    Bar Code:                    Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
46  Type: Sample      0904029-22;;;;;;  25x/vial1
    Vial: 43          agv.v04029;0;;;;gm-all.sub;#5717
    Method   : VWATER3.M
    Datafile: 0402922D.D
    Bar Code:                    Samp Amt: 0          Multiplr: 25
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
47  Type: Sample      0904020-02;;;;;;  vial1-MS

Sequence Last Modified  Sun Apr 05 12:05:57 2009        Page: 6
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    Vial: 44            sha.v04020;3;MS;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402002M.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
48  Type: Sample        0904020-02;;;;;;  vial1-MSD
    Vial: 45            sha.v04020;3;MSD;;;gm-all.sub;#5717
    Method  : VWATER3.M
    Datafile: 0402002S.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
49  Type: Sample        V3BFB 25NG;;;;;;
    Vial: 100           ;3;;;;gm-all.sub;#5646
    Method  : VWATER3.M
    Datafile: V3BFB.D
    Bar Code:                       Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```

8987

pH 2

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS14-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340	74	I
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	38	340		U
205-99-2	Benzo(b)fluoranthene	33	340		U
207-08-9	Benzo(k)fluoranthene	41	340		U
191-24-2	Benzo(g,h,i)perylene	73	340		U
50-32-8	Benzo(a)pyrene	24	340		U
100-51-6	Benzyl alcohol	47	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	53	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	27	340		U
85-68-7	Butylbenzylphthalate	31	340		U
106-47-8	4-Chloroaniline	50	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	29	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	33	340		U
120-83-2	2,4-Dichlorophenol	20	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS14-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	340		U
84-74-2	Di-n-butylphthalate	32	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	56	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	64	340		U
67-72-1	Hexachloroethane	41	340		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS14-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	34	340		U
106-44-5	4-Methylphenol	28	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	98	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	57	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	24	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS14-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:11

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	27	340		U
95-95-4	2,4,5-Trichlorophenol	28	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326203

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	350		U
208-96-8	Acenaphthylene	20	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	28	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	73	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	42	350		U
108-60-1	bis(2-Chloroisopropyl)ether	53	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	33	350		U
95-57-8	2-Chlorophenol	42	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	32	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	62	350		U
132-64-9	Dibenzofuran	25	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	35	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326203

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	39	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	27	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	29	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326203

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	40	350		U
108-39-4	3-Methylphenol	28	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	99	350		U
86-30-6	N-Nitrosodiphenylamine (1)	33	350		U
621-64-7	N-Nitroso-di-n-propylamine	57	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS15-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326203

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	41	350		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	36	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326205

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 09:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:47

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	37	340		U
205-99-2	Benzo(b)fluoranthene	32	340		U
207-08-9	Benzo(k)fluoranthene	40	340		U
191-24-2	Benzo(g,h,i)perylene	72	340		U
50-32-8	Benzo(a)pyrene	23	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	52	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	26	340		U
85-68-7	Butylbenzylphthalate	30	340		U
106-47-8	4-Chloroaniline	49	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	28	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326205

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 09:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:47

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	31	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	40	340		U
70-30-4	Hexachlorophene	100	6800		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	47	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326205

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 09:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:47

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	33	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	48	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	35	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	83	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	97	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	56	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	23	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS16-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326205

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 09:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 19:47

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	55	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	26	340		U
95-95-4	2,4,5-Trichlorophenol	27	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326207

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:23

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	350		U
208-96-8	Acenaphthylene	20	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	28	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	73	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	42	350		U
108-60-1	bis(2-Chloroisopropyl)ether	53	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	33	350		U
95-57-8	2-Chlorophenol	42	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	32	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	63	350		U
132-64-9	Dibenzofuran	25	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	35	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326207

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:23

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	39	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	27	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	30	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326207

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:23

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	40	350		U
108-39-4	3-Methylphenol	28	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	99	350		U
86-30-6	N-Nitrosodiphenylamine (1)	33	350		U
621-64-7	N-Nitroso-di-n-propylamine	57	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS17-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326207

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 20:23

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	38	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	41	350		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	36	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326209

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/18/09 10:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:56

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	350		U
208-96-8	Acenaphthylene	21	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	29	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	42	350		U
191-24-2	Benzo(g,h,i)perylene	75	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	48	350		U
111-44-4	bis(2-Chloroethyl)ether	43	350		U
108-60-1	bis(2-Chloroisopropyl)ether	54	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	51	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	34	350		U
95-57-8	2-Chlorophenol	43	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	33	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	64	350		U
132-64-9	Dibenzofuran	26	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	36	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326209

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/18/09 10:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:56

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	23	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	40	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	57	350		U
86-73-7	Fluorene	28	350		U
118-74-1	Hexachlorobenzene	37	350		U
87-68-3	Hexachlorobutadiene	35	350		U
77-47-4	Hexachlorocyclopentadiene	65	350		U
67-72-1	Hexachloroethane	42	350		U
70-30-4	Hexachlorophene	100	7000		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	49	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	30	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326209

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/18/09 10:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:56

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	37	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	41	350		U
108-39-4	3-Methylphenol	29	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	110	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	86	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	100	350		U
86-30-6	N-Nitrosodiphenylamine (1)	34	350		U
621-64-7	N-Nitroso-di-n-propylamine	58	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS18-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326209

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/18/09 10:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 21:56

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
108-95-2	Phenol	38	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	42	350		U
110-86-1	Pyridine	57	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	37	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326211

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 22:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	350		U
208-96-8	Acenaphthylene	20	350		U
98-86-2	Acetophenone	43	350		U
53-96-3	2-Acetylaminofluorene	100	350		U
92-67-1	4-Aminobiphenyl	100	350		U
62-53-3	Aniline	43	350		U
140-57-8	Aramite	100	350		U
120-12-7	Anthracene	28	350		U
56-55-3	Benzo(a)anthracene	38	350		U
205-99-2	Benzo(b)fluoranthene	33	350		U
207-08-9	Benzo(k)fluoranthene	41	350		U
191-24-2	Benzo(g,h,i)perylene	73	350		U
50-32-8	Benzo(a)pyrene	24	350		U
100-51-6	Benzyl alcohol	47	350		U
111-44-4	bis(2-Chloroethyl)ether	42	350		U
108-60-1	bis(2-Chloroisopropyl)ether	53	350		U
117-81-7	Bis(2-ethylhexyl)phthalate	38	350		U
101-55-3	4-Bromophenyl-phenylether	27	350		U
85-68-7	Butylbenzylphthalate	31	350		U
106-47-8	4-Chloroaniline	50	350		U
510-15-6	Chlorobenzilate	100	350		U
59-50-7	4-Chloro-3-methylphenol	29	350		U
91-58-7	2-Chloronaphthalene	33	350		U
95-57-8	2-Chlorophenol	42	350		U
7005-72-3	4-Chlorophenyl-phenylether	32	350		U
218-01-9	Chrysene	32	350		U
2303-16-4	Diallate	100	350		U
53-70-3	Dibenz(a,h)anthracene	62	350		U
132-64-9	Dibenzofuran	25	350		U
91-94-1	3,3'-Dichlorobenzidine	33	350		U
120-83-2	2,4-Dichlorophenol	20	350		U
87-65-0	2,6-Dichlorophenol	100	350		U
84-66-2	Diethylphthalate	35	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326211

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 22:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	350		U
60-11-7	p-(Dimethylamino)azobenzene	100	350		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	350		U
119-93-7	3,3'-Dimethylbenzidine	100	350		U
122-09-8	a,a-Dimethyl-phenethylamine	100	350		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	32	350		U
84-74-2	Di-n-butylphthalate	32	350		U
99-65-0	m-Dinitrobenzene	100	350		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3500		U
121-14-2	2,4-Dinitrotoluene	25	350		U
606-20-2	2,6-Dinitrotoluene	39	350		U
117-84-0	Di-n-octylphthalate	28	350		U
122-39-4	Diphenylamine	100	350		U
298-04-4	Disulfoton	100	350		U
62-50-0	Ethyl methanesulfonate	100	350		U
52-85-7	Famphur	100	350		U
206-44-0	Fluoranthene	56	350		U
86-73-7	Fluorene	27	350		U
118-74-1	Hexachlorobenzene	36	350		U
87-68-3	Hexachlorobutadiene	34	350		U
77-47-4	Hexachlorocyclopentadiene	64	350		U
67-72-1	Hexachloroethane	41	350		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	350		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	350		U
465-73-6	Isodrin	100	350		U
78-59-1	Isophorone	29	350		U
120-58-1	Isosafrole	100	350		U
91-80-5	Methapyrilene	100	350		U
56-49-5	3-Methylcholanthrene	100	350		U
66-27-3	Methyl methanesulfonate	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326211

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 22:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	350		U
298-00-0	Methyl parathion	100	350		U
95-48-7	2-Methylphenol	40	350		U
108-39-4	3-Methylphenol	28	350		U
91-20-3	Naphthalene	34	350		U
106-44-5	4-Methylphenol	28	350		U
130-15-4	1,4-Naphthoquinone	100	350		U
134-32-7	1-Naphthylamine	100	350		U
91-59-8	2-Naphthylamine	100	350		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	350		U
88-75-5	2-Nitrophenol	23	350		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	350		U
924-16-3	N-Nitrosodi-n-butylamine	100	350		U
55-18-5	N-Nitrosodiethylamine	100	350		U
62-75-9	N-Nitroso-di-methylamine	99	350		U
86-30-6	N-Nitrosodiphenylamine (1)	33	350		U
621-64-7	N-Nitroso-di-n-propylamine	57	350		U
10595-95-6	N-Nitrosomethylethylamine	100	350		U
59-89-2	N-Nitrosomorpholine	100	350		U
100-75-4	N-Nitrosopiperidine	100	350		U
930-55-2	N-Nitrosopyrrolidine	100	350		U
99-55-8	5-Nitro-o-toluidine	100	350		U
56-38-2	Parathion	100	350		U
608-93-5	Pentachlorobenzene	100	350		U
76-01-7	Pentachloroethane	100	350		U
82-68-8	Pentachloronitrobenzene	100	350		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	350		U
85-01-8	Phenanthrene	24	350		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS19-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326211

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 22:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	350		U
106-50-3	p-Phenylenediamine	100	350		U
298-02-2	Phorate	100	350		U
109-06-8	2-Picoline	100	350		U
23950-58-5	Pronamide	100	350		U
129-00-0	Pyrene	41	350		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	350		U
3689-24-5	Sulfotepp	100	350		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	350		U
297-97-2	Thionazin	100	350		U
95-53-4	o-Toluidine	100	350		U
120-82-1	1,2,4-Trichlorobenzene	27	350		U
95-95-4	2,4,5-Trichlorophenol	28	350		U
88-06-2	2,4,6-Trichlorophenol	36	350		U
126-68-1	O,O,O-Triethylphosphorothioa	100	350		U
99-35-4	sym-Trinitrobenzene	100	350		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326213

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	37	340		U
205-99-2	Benzo(b)fluoranthene	32	340		U
207-08-9	Benzo(k)fluoranthene	40	340		U
191-24-2	Benzo(g,h,i)perylene	73	340		U
50-32-8	Benzo(a)pyrene	24	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	53	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	27	340		U
85-68-7	Butylbenzylphthalate	30	340		U
106-47-8	4-Chloroaniline	49	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	29	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326213

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	31	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	40	340		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	47	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326213

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	33	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	83	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	98	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	56	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	24	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS20-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326213

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	27	340		U
95-95-4	2,4,5-Trichlorophenol	28	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326215

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:45

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	38	340		U
205-99-2	Benzo(b)fluoranthene	32	340		U
207-08-9	Benzo(k)fluoranthene	40	340		U
191-24-2	Benzo(g,h,i)perylene	73	340		U
50-32-8	Benzo(a)pyrene	24	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	53	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	27	340		U
85-68-7	Butylbenzylphthalate	31	340		U
106-47-8	4-Chloroaniline	49	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	29	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326215

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:45

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	31	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	40	340		U
70-30-4	Hexachlorophene	100	6900		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	48	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326215

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:45

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	33	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	49	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	36	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	84	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	98	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	57	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	24	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS21-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326215

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/01/09 23:45

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	56	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	27	340		U
95-95-4	2,4,5-Trichlorophenol	28	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326217

% Moisture: 2 decanted: (Y/N) N Date Sampled: 03/18/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:22

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	27	340		U
208-96-8	Acenaphthylene	20	340		U
98-86-2	Acetophenone	42	340		U
53-96-3	2-Acetylaminofluorene	100	340		U
92-67-1	4-Aminobiphenyl	100	340		U
62-53-3	Aniline	42	340		U
140-57-8	Aramite	100	340		U
120-12-7	Anthracene	28	340		U
56-55-3	Benzo(a)anthracene	37	340		U
205-99-2	Benzo(b)fluoranthene	32	340		U
207-08-9	Benzo(k)fluoranthene	40	340		U
191-24-2	Benzo(g,h,i)perylene	72	340		U
50-32-8	Benzo(a)pyrene	23	340		U
100-51-6	Benzyl alcohol	46	340		U
111-44-4	bis(2-Chloroethyl)ether	42	340		U
108-60-1	bis(2-Chloroisopropyl)ether	52	340		U
117-81-7	Bis(2-ethylhexyl)phthalate	37	340		U
101-55-3	4-Bromophenyl-phenylether	26	340		U
85-68-7	Butylbenzylphthalate	30	340		U
106-47-8	4-Chloroaniline	49	340		U
510-15-6	Chlorobenzilate	100	340		U
59-50-7	4-Chloro-3-methylphenol	28	340		U
91-58-7	2-Chloronaphthalene	33	340		U
95-57-8	2-Chlorophenol	42	340		U
7005-72-3	4-Chlorophenyl-phenylether	32	340		U
218-01-9	Chrysene	32	340		U
2303-16-4	Diallate	100	340		U
53-70-3	Dibenz(a,h)anthracene	62	340		U
132-64-9	Dibenzofuran	25	340		U
91-94-1	3,3'-Dichlorobenzidine	32	340		U
120-83-2	2,4-Dichlorophenol	19	340		U
87-65-0	2,6-Dichlorophenol	100	340		U
84-66-2	Diethylphthalate	35	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326217

% Moisture: 2 decanted: (Y/N) N Date Sampled: 03/18/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:22

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	100	340		U
60-11-7	p-(Dimethylamino)azobenzene	100	340		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	340		U
119-93-7	3,3'-Dimethylbenzidine	100	340		U
122-09-8	a,a-Dimethyl-phenethylamine	100	340		U
105-67-9	2,4-Dimethylphenol	22	1400		U
131-11-3	Dimethylphthalate	31	340		U
84-74-2	Di-n-butylphthalate	31	340		U
99-65-0	m-Dinitrobenzene	100	340		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1400		U
51-28-5	2,4-Dinitrophenol	140	3400		U
121-14-2	2,4-Dinitrotoluene	25	340		U
606-20-2	2,6-Dinitrotoluene	39	340		U
117-84-0	Di-n-octylphthalate	28	340		U
122-39-4	Diphenylamine	100	340		U
298-04-4	Disulfoton	100	340		U
62-50-0	Ethyl methanesulfonate	100	340		U
52-85-7	Famphur	100	340		U
206-44-0	Fluoranthene	55	340		U
86-73-7	Fluorene	27	340		U
118-74-1	Hexachlorobenzene	36	340		U
87-68-3	Hexachlorobutadiene	34	340		U
77-47-4	Hexachlorocyclopentadiene	63	340		U
67-72-1	Hexachloroethane	40	340		U
70-30-4	Hexachlorophene	100	6800		U
1888-71-7	Hexachloropropene	100	340		U
193-39-5	Indeno(1,2,3-cd)pyrene	47	340		U
465-73-6	Isodrin	100	340		U
78-59-1	Isophorone	29	340		U
120-58-1	Isosafrole	100	340		U
91-80-5	Methapyrilene	100	340		U
56-49-5	3-Methylcholanthrene	100	340		U
66-27-3	Methyl methanesulfonate	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326217

% Moisture: 2 decanted: (Y/N) N Date Sampled: 03/18/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:22

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	36	340		U
298-00-0	Methyl parathion	100	340		U
95-48-7	2-Methylphenol	40	340		U
108-39-4	3-Methylphenol	28	340		U
91-20-3	Naphthalene	33	340		U
106-44-5	4-Methylphenol	27	340		U
130-15-4	1,4-Naphthoquinone	100	340		U
134-32-7	1-Naphthylamine	100	340		U
91-59-8	2-Naphthylamine	100	340		U
88-74-4	2-Nitroaniline	33	1400		U
99-09-2	3-Nitroaniline	48	1400		U
100-01-6	4-Nitroaniline	100	1400		U
98-95-3	Nitrobenzene	35	340		U
88-75-5	2-Nitrophenol	23	340		U
100-02-7	4-Nitrophenol	83	1400		U
56-57-5	4-Nitroquinoline-1-oxide	100	340		U
924-16-3	N-Nitrosodi-n-butylamine	100	340		U
55-18-5	N-Nitrosodiethylamine	100	340		U
62-75-9	N-Nitroso-di-methylamine	97	340		U
86-30-6	N-Nitrosodiphenylamine (1)	33	340		U
621-64-7	N-Nitroso-di-n-propylamine	56	340		U
10595-95-6	N-Nitrosomethylethylamine	100	340		U
59-89-2	N-Nitrosomorpholine	100	340		U
100-75-4	N-Nitrosopiperidine	100	340		U
930-55-2	N-Nitrosopyrrolidine	100	340		U
99-55-8	5-Nitro-o-toluidine	100	340		U
56-38-2	Parathion	100	340		U
608-93-5	Pentachlorobenzene	100	340		U
76-01-7	Pentachloroethane	100	340		U
82-68-8	Pentachloronitrobenzene	100	340		U
87-86-5	Pentachlorophenol	35	1400		U
62-44-2	Phenacetin	100	340		U
85-01-8	Phenanthrene	23	340		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS22-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326217

% Moisture: 2 decanted: (Y/N) N Date Sampled: 03/18/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:22

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	37	340		U
106-50-3	p-Phenylenediamine	100	340		U
298-02-2	Phorate	100	340		U
109-06-8	2-Picoline	100	340		U
23950-58-5	Pronamide	100	340		U
129-00-0	Pyrene	41	340		U
110-86-1	Pyridine	55	1400		U
94-59-7	Safrole	100	340		U
3689-24-5	Sulfotepp	100	340		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	340		U
297-97-2	Thionazin	100	340		U
95-53-4	o-Toluidine	100	340		U
120-82-1	1,2,4-Trichlorobenzene	26	340		U
95-95-4	2,4,5-Trichlorophenol	27	340		U
88-06-2	2,4,6-Trichlorophenol	36	340		U
126-68-1	O,O,O-Triethylphosphorothioa	100	340		U
99-35-4	sym-Trinitrobenzene	100	340		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326219

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/18/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:58

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	28	360		U
208-96-8	Acenaphthylene	21	360		U
98-86-2	Acetophenone	44	360		U
53-96-3	2-Acetylaminofluorene	110	360		U
92-67-1	4-Aminobiphenyl	110	360		U
62-53-3	Aniline	44	360		U
140-57-8	Aramite	110	360		U
120-12-7	Anthracene	29	360		U
56-55-3	Benzo(a)anthracene	39	360		U
205-99-2	Benzo(b)fluoranthene	34	360		U
207-08-9	Benzo(k)fluoranthene	42	360		U
191-24-2	Benzo(g,h,i)perylene	76	360		U
50-32-8	Benzo(a)pyrene	24	360		U
100-51-6	Benzyl alcohol	48	360		U
111-44-4	bis(2-Chloroethyl)ether	44	360		U
108-60-1	bis(2-Chloroisopropyl)ether	55	360		U
117-81-7	Bis(2-ethylhexyl)phthalate	39	360		U
101-55-3	4-Bromophenyl-phenylether	28	360		U
85-68-7	Butylbenzylphthalate	32	360		U
106-47-8	4-Chloroaniline	51	360		U
510-15-6	Chlorobenzilate	110	360		U
59-50-7	4-Chloro-3-methylphenol	30	360		U
91-58-7	2-Chloronaphthalene	34	360		U
95-57-8	2-Chlorophenol	44	360		U
7005-72-3	4-Chlorophenyl-phenylether	33	360		U
218-01-9	Chrysene	33	360		U
2303-16-4	Diallate	110	360		U
53-70-3	Dibenz(a,h)anthracene	64	360		U
132-64-9	Dibenzofuran	26	360		U
91-94-1	3,3'-Dichlorobenzidine	34	360		U
120-83-2	2,4-Dichlorophenol	20	360		U
87-65-0	2,6-Dichlorophenol	110	360		U
84-66-2	Diethylphthalate	36	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326219

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/18/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:58

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
60-51-5	Dimethoate	110	360		U
60-11-7	p-(Dimethylamino)azobenzene	110	360		U
57-97-6	7,12-Dimethylbenz[a]anthrace	110	360		U
119-93-7	3,3'-Dimethylbenzidine	110	360		U
122-09-8	a,a-Dimethyl-phenethylamine	110	360		U
105-67-9	2,4-Dimethylphenol	23	1400		U
131-11-3	Dimethylphthalate	33	360		U
84-74-2	Di-n-butylphthalate	32	360		U
99-65-0	m-Dinitrobenzene	110	360		U
534-52-1	4,6-Dinitro-2-methylphenol	23	1400		U
51-28-5	2,4-Dinitrophenol	140	3600		U
121-14-2	2,4-Dinitrotoluene	26	360		U
606-20-2	2,6-Dinitrotoluene	40	360		U
117-84-0	Di-n-octylphthalate	29	360		U
122-39-4	Diphenylamine	110	360		U
298-04-4	Disulfoton	110	360		U
62-50-0	Ethyl methanesulfonate	110	360		U
52-85-7	Famphur	110	360		U
206-44-0	Fluoranthene	57	360		U
86-73-7	Fluorene	28	360		U
118-74-1	Hexachlorobenzene	37	360		U
87-68-3	Hexachlorobutadiene	35	360		U
77-47-4	Hexachlorocyclopentadiene	66	360		U
67-72-1	Hexachloroethane	42	360		U
70-30-4	Hexachlorophene	110	7100		U
1888-71-7	Hexachloropropene	110	360		U
193-39-5	Indeno(1,2,3-cd)pyrene	49	360		U
465-73-6	Isodrin	110	360		U
78-59-1	Isophorone	30	360		U
120-58-1	Isosafrole	110	360		U
91-80-5	Methapyrilene	110	360		U
56-49-5	3-Methylcholanthrene	110	360		U
66-27-3	Methyl methanesulfonate	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326219

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/18/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:58

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: MDL	(ug/L or ug/Kg) RL	UG/KG CONC	Q
91-57-6	2-Methylnaphthalene	37	360		U
298-00-0	Methyl parathion	110	360		U
95-48-7	2-Methylphenol	41	360		U
108-39-4	3-Methylphenol	29	360		U
91-20-3	Naphthalene	35	360		U
106-44-5	4-Methylphenol	28	360		U
130-15-4	1,4-Naphthoquinone	110	360		U
134-32-7	1-Naphthylamine	110	360		U
91-59-8	2-Naphthylamine	110	360		U
88-74-4	2-Nitroaniline	34	1400		U
99-09-2	3-Nitroaniline	50	1400		U
100-01-6	4-Nitroaniline	110	1400		U
98-95-3	Nitrobenzene	37	360		U
88-75-5	2-Nitrophenol	24	360		U
100-02-7	4-Nitrophenol	87	1400		U
56-57-5	4-Nitroquinoline-1-oxide	110	360		U
924-16-3	N-Nitrosodi-n-butylamine	110	360		U
55-18-5	N-Nitrosodiethylamine	110	360		U
62-75-9	N-Nitroso-di-methylamine	100	360		U
86-30-6	N-Nitrosodiphenylamine (1)	34	360		U
621-64-7	N-Nitroso-di-n-propylamine	59	360		U
10595-95-6	N-Nitrosomethylethylamine	110	360		U
59-89-2	N-Nitrosomorpholine	110	360		U
100-75-4	N-Nitrosopiperidine	110	360		U
930-55-2	N-Nitrosopyrrolidine	110	360		U
99-55-8	5-Nitro-o-toluidine	110	360		U
56-38-2	Parathion	110	360		U
608-93-5	Pentachlorobenzene	110	360		U
76-01-7	Pentachloroethane	110	360		U
82-68-8	Pentachloronitrobenzene	110	360		U
87-86-5	Pentachlorophenol	36	1400		U
62-44-2	Phenacetin	110	360		U
85-01-8	Phenanthrene	24	360		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MPT-AOCF
-SS23-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0326219

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/18/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/02/09 00:58

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	38	360		U
106-50-3	p-Phenylenediamine	110	360		U
298-02-2	Phorate	110	360		U
109-06-8	2-Picoline	110	360		U
23950-58-5	Pronamide	110	360		U
129-00-0	Pyrene	42	360		U
110-86-1	Pyridine	58	1400		U
94-59-7	Safrole	110	360		U
3689-24-5	Sulfotepp	110	360		U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	110	360		U
297-97-2	Thionazin	110	360		U
95-53-4	o-Toluidine	110	360		U
120-82-1	1,2,4-Trichlorobenzene	28	360		U
95-95-4	2,4,5-Trichlorophenol	29	360		U
88-06-2	2,4,6-Trichlorophenol	37	360		U
126-68-1	O,O,O-Triethylphosphorothioa	110	360		U
99-35-4	sym-Trinitrobenzene	110	360		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.58	1.8		U
208-96-8	Acenaphthylene	0.44	0.92		U
98-86-2	Acetophenone	0.69	4.6		U
53-96-3	2-Acetylaminofluorene	1.8	4.6		U
92-67-1	4-Aminobiphenyl	1.8	4.6		U
62-53-3	Aniline	0.52	4.6		U
140-57-8	Aramite	0.92	4.6		U
120-12-7	Anthracene	0.71	1.8		U
56-55-3	Benzo(a)anthracene	0.84	4.6		U
205-99-2	Benzo(b)fluoranthene	0.66	4.6		U
207-08-9	Benzo(k)fluoranthene	0.46	1.8		U
191-24-2	Benzo(g,h,i)perylene	1.4	2.8		U
50-32-8	Benzo(a)pyrene	0.56	1.8		U
100-51-6	Benzyl alcohol	0.69	4.6		U
111-44-4	bis(2-Chloroethyl)ether	0.42	4.6		U
108-60-1	bis(2-Chloroisopropyl)ether	0.79	4.6		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2	4.6		U
101-55-3	4-Bromophenyl-phenylether	0.53	4.6		U
85-68-7	Butylbenzylphthalate	0.76	4.6		U
106-47-8	4-Chloroaniline	0.88	4.6		U
510-15-6	Chlorobenzilate	0.92	4.6		U
59-50-7	4-Chloro-3-methylphenol	0.54	4.6		U
91-58-7	2-Chloronaphthalene	0.54	4.6		U
95-57-8	2-Chlorophenol	0.55	4.6		U
7005-72-3	4-Chlorophenyl-phenylether	0.82	4.6		U
218-01-9	Chrysene	0.94	1.8		U
2303-16-4	Diallate	0.92	4.6		U
53-70-3	Dibenz(a,h)anthracene	1.6	4.6		U
132-64-9	Dibenzofuran	0.60	1.8		U
91-94-1	3,3'-Dichlorobenzidine	0.82	1.8		U
120-83-2	2,4-Dichlorophenol	0.41	0.92		U
87-65-0	2,6-Dichlorophenol	0.92	4.6		U
84-66-2	Diethylphthalate	0.94	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	3.7	9.2		U
60-11-7	p-(Dimethylamino)azobenzene	0.92	4.6		U
57-97-6	7,12-Dimethylbenz[a]anthrace	0.92	4.6		U
119-93-7	3,3'-Dimethylbenzidine	39	92		U
122-09-8	a,a-Dimethyl-phenethylamine	0.92	4.6		U
105-67-9	2,4-Dimethylphenol	0.66	18		U
131-11-3	Dimethylphthalate	0.68	4.6		U
84-74-2	Di-n-butylphthalate	1.2	4.6		U
99-65-0	m-Dinitrobenzene	2.8	4.6		U
534-52-1	4,6-Dinitro-2-methylphenol	0.68	18		U
51-28-5	2,4-Dinitrophenol	0.79	46		U
121-14-2	2,4-Dinitrotoluene	0.45	4.6		U
606-20-2	2,6-Dinitrotoluene	0.61	4.6		U
117-84-0	Di-n-octylphthalate	0.30	4.6		U
122-39-4	Diphenylamine	0.92	4.6		U
298-04-4	Disulfoton	2.8	4.6		U
62-50-0	Ethyl methanesulfonate	0.92	4.6		U
52-85-7	Famphur	1.8	4.6		U
206-44-0	Fluoranthene	0.65	4.6		U
86-73-7	Fluorene	0.51	4.6		U
118-74-1	Hexachlorobenzene	0.44	4.6		U
87-68-3	Hexachlorobutadiene	0.86	4.6		U
77-47-4	Hexachlorocyclopentadiene	0.82	4.6		U
67-72-1	Hexachloroethane	0.42	4.6		U
70-30-4	Hexachlorophene	23	92		U
1888-71-7	Hexachloropropene	3.7	4.6		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	4.6		U
465-73-6	Isodrin	1.8	4.6		U
78-59-1	Isophorone	0.51	4.6		U
120-58-1	Isosafrole	0.92	4.6		U
91-80-5	Methapyrilene	0.92	4.6		U
56-49-5	3-Methylcholanthrene	0.92	4.6		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	0.92	4.6		U
91-57-6	2-Methylnaphthalene	0.63	1.8		U
298-00-0	Methyl parathion	2.8	4.6		U
95-48-7	2-Methylphenol	0.77	4.6		U
108-39-4	3-Methylphenol	0.71	4.6		U
106-44-5	4-Methylphenol	0.71	4.6		U
91-20-3	Naphthalene	0.42	0.92		U
130-15-4	1,4-Naphthoquinone	0.92	4.6		U
134-32-7	1-Naphthylamine	0.92	4.6		U
91-59-8	2-Naphthylamine	0.92	4.6		U
88-74-4	2-Nitroaniline	1.1	18		U
99-09-2	3-Nitroaniline	0.97	18		U
100-01-6	4-Nitroaniline	1.9	18		U
98-95-3	Nitrobenzene	0.57	4.6		U
88-75-5	2-Nitrophenol	0.68	4.6		U
100-02-7	4-Nitrophenol	0.77	18		U
56-57-5	4-Nitroquinoline-1-oxide	0.92	4.6		U
924-16-3	N-Nitrosodi-n-butylamine	0.92	4.6		U
55-18-5	N-Nitrosodiethylamine	0.92	4.6		U
62-75-9	N-Nitroso-di-methylamine	0.83	4.6		U
86-30-6	N-Nitrosodiphenylamine (1)	0.42	4.6		U
621-64-7	N-Nitroso-di-n-propylamine	0.83	4.6		U
10595-95-6	N-Nitrosomethylethylamine	3.7	4.6		U
59-89-2	N-Nitrosomorpholine	0.92	4.6		U
100-75-4	N-Nitrosopiperidine	0.92	4.6		U
930-55-2	N-Nitrosopyrrolidine	0.92	4.6		U
99-55-8	5-Nitro-o-toluidine	1.8	4.6		U
56-38-2	Parathion	2.8	4.6		U
608-93-5	Pentachlorobenzene	3.7	9.2		U
76-01-7	Pentachloroethane	3.7	9.2		U
82-68-8	Pentachloronitrobenzene	3.7	9.2		U
87-86-5	Pentachlorophenol	0.92	9.2		U
62-44-2	Phenacetin	0.92	4.6		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0402601

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 15:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.71	1.8		U
108-95-2	Phenol	0.42	4.6		U
106-50-3	p-Phenylenediamine	0.92	4.6		U
298-02-2	Phorate	3.7	4.6		U
109-06-8	2-Picoline	6.5	6.5		U
23950-58-5	Pronamide	0.92	4.6		U
129-00-0	Pyrene	0.60	1.8		U
110-86-1	Pyridine	0.98	18		U
94-59-7	Safrole	0.92	4.6		U
3689-24-5	Sulfotepp	3.7	4.6		U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.8	4.6		U
58-90-2	2,3,4,6-Tetrachlorophenol	0.92	4.6		U
297-97-2	Thionazin	3.7	4.6		U
95-53-4	o-Toluidine	3.7	9.2		U
120-82-1	1,2,4-Trichlorobenzene	0.33	0.92		U
95-95-4	2,4,5-Trichlorophenol	0.46	0.92		U
88-06-2	2,4,6-Trichlorophenol	0.68	1.8		U
126-68-1	O,O,O-Triethylphosphorothioa	2.8	4.6		U
99-35-4	sym-Trinitrobenzene	2.8	4.6		U

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	SBLK0320BS2	57	68	62	67	70	68			0
02	SBLK0320BS2L	54	61	56	62	64	60			0
03	MPT-AOCF-SS1	46	56	51	58	63	55			0
04	MPT-AOCF-SS1	41	51	48	52	55	52			0
05	MPT-AOCF-SS1	44	51	53	53	58	51			0
06	MPT-AOCF-SS1	49	52	51	54	61	57			0
07	MPT-AOCF-SS1	54	64	58	61	63	70			0
08	MPT-AOCF-SS1	40	46	46	47	54	52			0
09	MPT-AOCF-SS1	41	50	43	49	52	52			0
10	MPT-AOCF-SS1	47	56	54	58	57	55			0
11	MPT-AOCF-SS2	50	62	58	63	63	66			0
12	MPT-AOCF-SS2	54	68	59	67	68	62			0
13	MPT-AOCF-SS2	42	51	49	57	52	56			0
14	MPT-AOCF-SS2	50	61	53	62	65	70			0
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		EL QC LIMITS	SPIKE CONC (UG/KG)
S1 (2FP)	= 2-Fluorophenol	(25-110)	6700
S2 (PHL)	= Phenol-d6	(30-110)	6700
S3 (NBZ)	= Nitrobenzene-d5	(30-110)	3300
S4 (FBP)	= 2-Fluorobiphenyl	(35-110)	3300
S5 (TBP)	= 2,4,6-Tribromophenol	(30-115)	6700
S6 (TPH)	= Terphenyl-d14	(40-120)	3300

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SBLK0403BW1	29	19	68	71	96	93			0
02	SBLK0403BW1L	31	21	74	78	96	85			0
03	SBLK0403BW1L	21	15	53	62	90	88			0
04	MPT-AOC-F-MW	21	14*	57	58	88	74			1
05										
06										
07										
08										
09										
10										
11										
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29										
30										

		EL QC LIMITS	SPIKE CONC (UG/L)
S1 (2FP)	= 2-Fluorophenol	(15-110)	100
S2 (PHL)	= Phenol-d6	(15-110)	100
S3 (NBZ)	= Nitrobenzene-d5	(30-110)	50
S4 (FBP)	= 2-Fluorobiphenyl	(35-110)	50
S5 (TBP)	= 2,4,6-Tribromophenol	(45-125)	100
S6 (TPH)	= Terphenyl-d14	(55-125)	50

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate results reported from a diluted analysis

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Acenaphthene	3458	0.0000	2145	62	45-110
Acenaphthylene	3458	0.0000	2471	71	45-105
Acetophenone	3458	0.0000	1701	49	35-110
Aniline	3458	74.26	3410	96	10-110
Anthracene	3458	0.0000	2076	60	55-105
Benzo(a)anthracene	3458	0.0000	1994	58	50-110
Benzo(b)fluoranthene	3458	0.0000	2513	73	45-115
Benzo(k)fluoranthene	3458	0.0000	2436	70	45-125
Benzo(g,h,i)perylene	3458	0.0000	2570	74	40-125
Benzo(a)pyrene	3458	0.0000	2491	72	50-110
Benzyl alcohol	3458	0.0000	2231	64	20-125
bis(2-Chloroethyl)ether	3458	0.0000	1690	49	40-105
bis(2-Chloroisopropyl)e	3458	0.0000	1764	51	20-115
Bis(2-ethylhexyl)phthal	3458	0.0000	2174	63	45-125
4-Bromophenyl-phenyleth	3458	0.0000	1599	46	45-115
Butylbenzylphthalate	3458	0.0000	2204	64	50-125
4-Chloroaniline	3458	0.0000	2250	65	10- 95
4-Chloro-3-methylphenol	3458	0.0000	2073	60	45-115
2-Chloronaphthalene	3458	0.0000	1989	58	45-105
2-Chlorophenol	3458	0.0000	2092	60	45-105
4-Chlorophenyl-phenylet	3458	0.0000	2090	60	45-110
Chrysene	3458	0.0000	2158	62	55-110
Dibenz(a,h)anthracene	3458	0.0000	2520	73	40-125
Dibenzofuran	3458	0.0000	2073	60	50-105
3,3'-Dichlorobenzidine	3458	0.0000	1500	43	19-130
2,4-Dichlorophenol	3458	0.0000	1804	52	45-110
Diethylphthalate	3458	0.0000	1920	56	50-115
2,4-Dimethylphenol	3458	0.0000	2947	85	30-105

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Dimethylphthalate	3458	0.0000	1903	55	50-110
Di-n-butylphthalate	3458	0.0000	1946	56	55-110
4,6-Dinitro-2-methylphe	3458	0.0000	1798	52	30-135
2,4-Dinitrophenol	3458	0.0000	1580	46	15-130
2,4-Dinitrotoluene	3458	0.0000	1886	54	50-115
2,6-Dinitrotoluene	3458	0.0000	1846	53	50-110
Di-n-octylphthalate	3458	0.0000	2255	65	40-130
Fluoranthene	3458	0.0000	2054	59	55-115
Fluorene	3458	0.0000	2133	62	50-110
Hexachlorobenzene	3458	0.0000	1996	58	45-120
Hexachlorobutadiene	3458	0.0000	1936	56	30-110
Hexachlorocyclopentadie	3458	0.0000	2299	66	10-110
Hexachloroethane	3458	0.0000	1651	48	35-110
Indeno(1,2,3-cd)pyrene	3458	0.0000	2344	68	40-120
Isophorone	3458	0.0000	1853	54	45-110
2-Methylnaphthalene	3458	0.0000	1889	55	40-110
2-Methylphenol	3458	0.0000	1889	55	40-105
Naphthalene	3458	0.0000	1919	55	40-105
4-Methylphenol	3458	0.0000	1950	56	40-105
2-Nitroaniline	3458	0.0000	2146	62	45-120
3-Nitroaniline	3458	0.0000	2132	62	25-110
4-Nitroaniline	3458	0.0000	1868	54	35-115
Nitrobenzene	3458	0.0000	1821	53	40-115
2-Nitrophenol	3458	0.0000	1823	53	40-110
4-Nitrophenol	3458	0.0000	2291	66	15-140
N-Nitroso-di-methylamin	3458	0.0000	1617	47	20-115
N-Nitrosodiphenylamine	3458	0.0000	1914	55	50-115
N-Nitroso-di-n-prop.(1)	3458	0.0000	1683	49	40-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Pentachlorophenol	3458	0.0000	2339	68	25-120
Phenanthrene	3458	0.0000	2025	58	50-110
Phenol	3458	0.0000	1790	52	40-100
Pyrene	3458	0.0000	2444	71	45-125
Pyridine	3458	0.0000	1594	46	10-110
1,2,4,5-Tetrachlorobenz	3458	0.0000	1788	52	50-150
1,2,4-Trichlorobenzene	3458	0.0000	1660	48	45-110
2,4,5-Trichlorophenol	3458	0.0000	2078	60	50-110
2,4,6-Trichlorophenol	3458	0.0000	2168	63	45-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3458	2365	68	10	30	45-110
Acenaphthylene	3458	2811	81	13	30	45-105
Acetophenone	3458	1929	56	12	30	35-110
Aniline	3458	4348	124*	24	30	10-110
Anthracene	3458	2294	66	10	30	55-105
Benzo(a)anthracene	3458	2491	72	22	30	50-110
Benzo(b)fluoranthene	3458	2691	78	7	30	45-115
Benzo(k)fluoranthene	3458	2608	75	7	30	45-125
Benzo(g,h,i)perylene	3458	2525	73	2	30	40-125
Benzo(a)pyrene	3458	2672	77	7	30	50-110
Benzyl alcohol	3458	2328	67	4	30	20-125
bis(2-Chloroethyl)ether	3458	1963	57	15	30	40-105
bis(2-Chloroisopropyl)e	3458	1873	54	6	30	20-115
Bis(2-ethylhexyl)phthal	3458	2519	73	15	30	45-125
4-Bromophenyl-phenyleth	3458	1681	49	5	30	45-115
Butylbenzylphthalate	3458	2661	77	19	30	50-125
4-Chloroaniline	3458	2691	78	18	30	10- 95
4-Chloro-3-methylphenol	3458	2316	67	11	30	45-115
2-Chloronaphthalene	3458	2312	67	15	30	45-105
2-Chlorophenol	3458	2632	76	23	30	45-105
4-Chlorophenyl-phenylet	3458	2308	67	10	30	45-110
Chrysene	3458	2407	70	11	30	55-110
Dibenz(a,h)anthracene	3458	2482	72	2	30	40-125
Dibenzofuran	3458	2420	70	15	30	50-105
3,3'-Dichlorobenzidine	3458	1558	45	4	30	19-130
2,4-Dichlorophenol	3458	2177	63	19	30	45-110
Diethylphthalate	3458	2187	63	13	30	50-115
2,4-Dimethylphenol	3458	3258	94	10	30	30-105

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	3458	2116	61	10	30	50-110
Di-n-butylphthalate	3458	2080	60	7	30	55-110
4,6-Dinitro-2-methylphe	3458	1723	50	4	30	30-135
2,4-Dinitrophenol	3458	1396	40	12	30	15-130
2,4-Dinitrotoluene	3458	2296	66	20	30	50-115
2,6-Dinitrotoluene	3458	2088	60	12	30	50-110
Di-n-octylphthalate	3458	2610	75	14	30	40-130
Fluoranthene	3458	2295	66	11	30	55-115
Fluorene	3458	2461	71	14	30	50-110
Hexachlorobenzene	3458	2222	64	11	30	45-120
Hexachlorobutadiene	3458	2148	62	10	30	30-110
Hexachlorocyclopentadie	3458	2497	72	8	30	10-110
Hexachloroethane	3458	1927	56	15	30	35-110
Indeno(1,2,3-cd)pyrene	3458	2575	74	9	30	40-120
Isophorone	3458	2018	58	8	30	45-110
2-Methylnaphthalene	3458	2136	62	12	30	40-110
2-Methylphenol	3458	2069	60	9	30	40-105
Naphthalene	3458	2228	64	15	30	40-105
4-Methylphenol	3458	2295	66	16	30	40-105
2-Nitroaniline	3458	2621	76	20	30	45-120
3-Nitroaniline	3458	2532	73	17	30	25-110
4-Nitroaniline	3458	2270	66	19	30	35-115
Nitrobenzene	3458	2085	60	14	30	40-115
2-Nitrophenol	3458	2047	59	12	30	40-110
4-Nitrophenol	3458	2563	74	11	30	15-140
N-Nitroso-di-methylamin	3458	2006	58	21	30	20-115
N-Nitrosodiphenylamine	3458	2082	60	8	30	50-115
N-Nitroso-di-n-prop.(1)	3458	2012	58	18	30	40-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0. Lab Sample ID: 0903262-01

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pentachlorophenol	3458	2400	69	2	30	25-120
Phenanthrene	3458	2287	66	12	30	50-110
Phenol	3458	2067	60	14	30	40-100
Pyrene	3458	3022	87	21	30	45-125
Pyridine	3458	1955	56	20	30	10-110
1,2,4,5-Tetrachlorobenz	3458	2064	60	14	30	50-150
1,2,4-Trichlorobenzene	3458	1952	56	16	30	45-110
2,4,5-Trichlorophenol	3458	2265	66	9	30	50-110
2,4,6-Trichlorophenol	3458	2311	67	6	30	45-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 65 outside limits
Spike Recovery: 1 out of 130 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0320BS2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2390	72	45-110
Acenaphthylene	3333	0.0000	2931	88	45-105
Acetophenone	3333	0.0000	1942	58	35-110
Aniline	3333	0.0000	4258	128*	10-110
Anthracene	3333	0.0000	2229	67	55-105
Benzo(a)anthracene	3333	0.0000	2366	71	50-110
Benzo(b)fluoranthene	3333	0.0000	2526	76	45-115
Benzo(k)fluoranthene	3333	0.0000	2516	75	45-125
Benzo(g,h,i)perylene	3333	0.0000	2735	82	40-125
Benzo(a)pyrene	3333	0.0000	2695	81	50-110
Benzyl alcohol	3333	0.0000	2421	73	20-125
bis(2-Chloroethyl)ether	3333	0.0000	1776	53	40-105
bis(2-Chloroisopropyl)e	3333	0.0000	2095	63	20-115
Bis(2-ethylhexyl)phthal	3333	0.0000	2262	68	45-125
4-Bromophenyl-phenyleth	3333	0.0000	1739	52	45-115
Butylbenzylphthalate	3333	0.0000	2344	70	50-125
4-Chloroaniline	3333	0.0000	2594	78	10- 95
4-Chloro-3-methylphenol	3333	0.0000	2227	67	45-115
2-Chloronaphthalene	3333	0.0000	2303	69	45-105
2-Chlorophenol	3333	0.0000	2497	75	45-105
4-Chlorophenyl-phenylet	3333	0.0000	2261	68	45-110
Chrysene	3333	0.0000	2327	70	55-110
Dibenz(a,h)anthracene	3333	0.0000	2816	84	40-125
Dibenzofuran	3333	0.0000	2320	70	50-105
3,3'-Dichlorobenzidine	3333	0.0000	1702	51	19-130
2,4-Dichlorophenol	3333	0.0000	2080	62	45-110
Diethylphthalate	3333	0.0000	2193	66	50-115
2,4-Dimethylphenol	3333	0.0000	3232	97	30-105

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0320BS2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	3333	0.0000	2098	63	50-110
Di-n-butylphthalate	3333	0.0000	2024	61	55-110
4,6-Dinitro-2-methylphe	3333	0.0000	2152	64	30-135
2,4-Dinitrophenol	3333	0.0000	2232	67	15-130
2,4-Dinitrotoluene	3333	0.0000	2196	66	50-115
2,6-Dinitrotoluene	3333	0.0000	2103	63	50-110
Di-n-octylphthalate	3333	0.0000	2219	66	40-130
Fluoranthene	3333	0.0000	2244	67	55-115
Fluorene	3333	0.0000	2376	71	50-110
Hexachlorobenzene	3333	0.0000	2154	65	45-120
Hexachlorobutadiene	3333	0.0000	2086	62	30-110
Hexachlorocyclopentadie	3333	0.0000	2793	84	10-110
Hexachloroethane	3333	0.0000	1822	55	35-110
Indeno(1,2,3-cd)pyrene	3333	0.0000	2646	79	40-120
Isophorone	3333	0.0000	2214	66	45-110
2-Methylnaphthalene	3333	0.0000	2091	63	40-110
2-Methylphenol	3333	0.0000	2313	69	40-105
Naphthalene	3333	0.0000	2250	68	40-105
4-Methylphenol	3333	0.0000	2270	68	40-105
2-Nitroaniline	3333	0.0000	2612	78	45-120
3-Nitroaniline	3333	0.0000	2457	74	25-110
4-Nitroaniline	3333	0.0000	2266	68	35-115
Nitrobenzene	3333	0.0000	2025	61	40-115
2-Nitrophenol	3333	0.0000	2050	62	40-110
4-Nitrophenol	3333	0.0000	2553	76	15-140
N-Nitroso-di-methylamin	3333	0.0000	1932	58	20-115
N-Nitrosodiphenylamine	3333	0.0000	1974	59	50-115
N-Nitroso-di-n-prop.(1)	3333	0.0000	2056	62	40-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0320BS2 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Pentachlorophenol	3333	0.0000	2596	78	25-120
Phenanthrene	3333	0.0000	2265	68	50-110
Phenol	3333	0.0000	2067	62	40-100
Pyrene	3333	0.0000	2580	77	45-125
Pyridine	3333	0.0000	1872	56	10-110
1,2,4,5-Tetrachlorobenz	3333	0.0000	2123	64	50-150
1,2,4-Trichlorobenzene	3333	0.0000	1895	57	45-110
2,4,5-Trichlorophenol	3333	0.0000	2470	74	50-110
2,4,6-Trichlorophenol	3333	0.0000	2578	77	45-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 65 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	50.00	0.0000	48.66	97	45-110
Acenaphthylene	50.00	0.0000	57.39	115*	50-105
Acetophenone	50.00	0.0000	35.36	71	50-110
Aniline	50.00	0.0000	22.66	45	10-110
Anthracene	50.00	0.0000	49.29	98	55-110
Benzo(a)anthracene	50.00	0.0000	51.45	103	55-110
Benzo(b)fluoranthene	50.00	0.0000	50.26	100	45-120
Benzo(k)fluoranthene	50.00	0.0000	49.57	99	45-125
Benzo(g,h,i)perylene	50.00	0.0000	60.04	120	40-125
Benzo(a)pyrene	50.00	0.0000	56.34	113*	55-110
Benzyl alcohol	50.00	0.0000	32.86	66	30-110
bis(2-Chloroethyl)ether	50.00	0.0000	30.96	62	35-110
bis(2-Chloroisopropyl)e	50.00	0.0000	36.89	74	25-130
Bis(2-ethylhexyl)phthal	50.00	0.0000	45.13	90	40-125
4-Bromophenyl-phenyleth	50.00	0.0000	33.41	67	50-115
Butylbenzylphthalate	50.00	0.0000	46.42	93	45-115
4-Chloroaniline	50.00	0.0000	38.10	76	15-110
4-Chloro-3-methylphenol	50.00	0.0000	43.44	87	45-110
2-Chloronaphthalene	50.00	0.0000	45.69	91	50-105
2-Chlorophenol	50.00	0.0000	38.84	78	35-105
4-Chlorophenyl-phenylet	50.00	0.0000	47.20	94	50-110
Chrysene	50.00	0.0000	53.14	106	55-110
Dibenz(a,h)anthracene	50.00	0.0000	59.62	119	40-125
Dibenzofuran	50.00	0.0000	45.96	92	55-105
3,3'-Dichlorobenzidine	50.00	0.0000	48.78	98	20-110
2,4-Dichlorophenol	50.00	0.0000	41.52	83	50-105
Diethylphthalate	50.00	0.0000	44.57	89	40-120
2,4-Dimethylphenol	50.00	0.0000	48.32	97	30-110

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50.00	0.0000	43.28	86	25-125
Di-n-butylphthalate	50.00	0.0000	42.15	84	55-115
4,6-Dinitro-2-methylphe	50.00	0.0000	47.20	94	40-130
2,4-Dinitrophenol	50.00	0.0000	53.85	108	15-140
2,4-Dinitrotoluene	50.00	0.0000	46.34	93	50-120
2,6-Dinitrotoluene	50.00	0.0000	46.24	92	50-115
Di-n-octylphthalate	50.00	0.0000	39.85	80	35-135
Fluoranthene	50.00	0.0000	47.85	96	55-115
Fluorene	50.00	0.0000	47.78	96	50-110
Hexachlorobenzene	50.00	0.0000	45.69	91	50-110
Hexachlorobutadiene	50.00	0.0000	38.71	77	25-105
Hexachlorocyclopentadie	50.00	0.0000	54.86	110	10-110
Hexachloroethane	50.00	0.0000	30.65	61	30- 95
Indeno(1,2,3-cd)pyrene	50.00	0.0000	61.93	124	45-125
Isophorone	50.00	0.0000	42.50	85	50-110
2-Methylnaphthalene	50.00	0.0000	37.95	76	45-105
2-Methylphenol	50.00	0.0000	31.90	64	40-110
4-Methylphenol	50.00	0.0000	28.47	57	30-110
Naphthalene	50.00	0.0000	45.98	92	40-100
2-Nitroaniline	50.00	0.0000	55.25	110	50-115
3-Nitroaniline	50.00	0.0000	45.80	92	20-125
4-Nitroaniline	50.00	0.0000	49.43	99	35-120
Nitrobenzene	50.00	0.0000	40.72	81	45-110
2-Nitrophenol	50.00	0.0000	38.86	78	40-115
4-Nitrophenol	50.00	0.0000	16.87	34	0-125
N-Nitroso-di-methylamin	50.00	0.0000	16.40	33	25-110
N-Nitrosodiphenylamine	50.00	0.0000	40.34	81	50-110
N-Nitroso-di-n-prop.(1)	50.00	0.0000	42.39	85	35-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	LCS CONCENTRATION (UG/L)	LCS % REC #	QC. LIMITS REC.
Pentachlorophenol	50.00	0.0000	53.10	106	40-115
Phenanthrene	50.00	0.0000	46.28	92	50-115
Phenol	50.00	0.0000	11.90	24	0-115
Pyrene	50.00	0.0000	49.83	100	50-130
Pyridine	50.00	0.0000	4.902	10	0-110
1,2,4,5-Tetrachlorobenz	50.00	0.0000	40.67	81	50-125
2,3,4,6-Tetrachlorophen	50.00	0.0000	60.21	120	50-125
1,2,4-Trichlorobenzene	50.00	0.0000	33.52	67	35-105
2,4,5-Trichlorophenol	50.00	0.0000	50.53	101	50-110
2,4,6-Trichlorophenol	50.00	0.0000	47.97	96	50-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	40.07	80	19	30	45-110
Acenaphthylene	50.00	47.02	94	20	30	50-105
Acetophenone	50.00	26.93	54	27	30	50-110
Aniline	50.00	18.98	38	18	30	10-110
Anthracene	50.00	46.16	92	6	30	55-110
Benzo(a)anthracene	50.00	48.04	96	7	30	55-110
Benzo(b)fluoranthene	50.00	48.04	96	4	30	45-120
Benzo(k)fluoranthene	50.00	47.75	96	4	30	45-125
Benzo(g,h,i)perylene	50.00	59.84	120	0	30	40-125
Benzo(a)pyrene	50.00	51.61	103	9	30	55-110
Benzyl alcohol	50.00	22.68	45	37*	30	30-110
bis(2-Chloroethyl)ether	50.00	23.61	47	27	30	35-110
bis(2-Chloroisopropyl)e	50.00	27.61	55	29	30	25-130
Bis(2-ethylhexyl)phthal	50.00	46.36	93	3	30	40-125
4-Bromophenyl-phenyleth	50.00	32.68	65	2	30	50-115
Butylbenzylphthalate	50.00	47.84	96	3	30	45-115
4-Chloroaniline	50.00	27.20	54	33*	30	15-110
4-Chloro-3-methylphenol	50.00	35.30	71	21	30	45-110
2-Chloronaphthalene	50.00	34.40	69	28	30	50-105
2-Chlorophenol	50.00	26.50	53	38*	30	35-105
4-Chlorophenyl-phenylet	50.00	40.35	81	16	30	50-110
Chrysene	50.00	47.51	95	11	30	55-110
Dibenz(a,h)anthracene	50.00	60.31	121	1	30	40-125
Dibenzofuran	50.00	40.86	82	12	30	55-105
3,3'-Dichlorobenzidine	50.00	42.73	85	13	30	20-110
2,4-Dichlorophenol	50.00	29.31	59	34*	30	50-105
Diethylphthalate	50.00	42.49	85	5	30	40-120
2,4-Dimethylphenol	50.00	37.11	74	26	30	30-110

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50.00	37.86	76	13	30	25-125
Di-n-butylphthalate	50.00	41.04	82	3	30	55-115
4,6-Dinitro-2-methylphe	50.00	44.29	88	6	30	40-130
2,4-Dinitrophenol	50.00	50.47	101	6	30	15-140
2,4-Dinitrotoluene	50.00	43.69	87	6	30	50-120
2,6-Dinitrotoluene	50.00	40.51	81	13	30	50-115
Di-n-octylphthalate	50.00	39.00	78	2	30	35-135
Fluoranthene	50.00	46.17	92	4	30	55-115
Fluorene	50.00	42.38	85	12	30	50-110
Hexachlorobenzene	50.00	45.26	90	1	30	50-110
Hexachlorobutadiene	50.00	26.00	52	39*	30	25-105
Hexachlorocyclopentadie	50.00	39.12	78	33*	30	10-110
Hexachloroethane	50.00	24.20	48	24	30	30- 95
Indeno(1,2,3-cd)pyrene	50.00	62.10	124	0	30	45-125
Isophorone	50.00	30.71	61	32*	30	50-110
2-Methylnaphthalene	50.00	29.76	60	24	30	45-105
2-Methylphenol	50.00	22.34	45	35*	30	40-110
4-Methylphenol	50.00	20.80	42	31*	30	30-110
Naphthalene	50.00	29.58	59	43*	30	40-100
2-Nitroaniline	50.00	47.50	95	15	30	50-115
3-Nitroaniline	50.00	41.13	82	11	30	20-125
4-Nitroaniline	50.00	43.80	88	12	30	35-120
Nitrobenzene	50.00	28.45	57	35*	30	45-110
2-Nitrophenol	50.00	27.27	54	35*	30	40-115
4-Nitrophenol	50.00	20.03	40	17	30	0-125
N-Nitroso-di-methylamin	50.00	12.10	24*	30	30	25-110
N-Nitrosodiphenylamine	50.00	39.62	79	2	30	50-110
N-Nitroso-di-n-prop.(1)	50.00	29.90	60	34*	30	35-130

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix Spike - Client Sample No.: SBLK0403BW1

COMPOUND	SPIKE ADDED (uG/L)	LCSD CONCENTRATION (uG/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pentachlorophenol	50.00	51.37	103	3	30	40-115
Phenanthrene	50.00	46.43	93	0	30	50-115
Phenol	50.00	8.245	16	36*	30	0-115
Pyrene	50.00	51.03	102	2	30	50-130
Pyridine	50.00	4.604	9	6	30	0-110
1,2,4,5-Tetrachlorobenz	50.00	30.84	62	27	30	50-125
2,3,4,6-Tetrachlorophen	50.00	52.48	105	14	30	50-125
1,2,4-Trichlorobenzene	50.00	24.81	50	30	30	35-105
2,4,5-Trichlorophenol	50.00	42.63	85	17	30	50-110
2,4,6-Trichlorophenol	50.00	40.19	80	18	30	50-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 14 out of 66 outside limits
Spike Recovery: 3 out of 132 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: S2BS0320 Lab Sample ID: SBLK0320BS2

Instrument ID: BNA1 Date Extracted: 03/20/09

Matrix: (soil/water) SOIL Date Analyzed: 03/31/09

Level: (low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1759

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0320BS2L	SBLK0320BS2LCS	S2LS0320	03/31/09
02	MPT-AOCF-SS1	0903262-01	0326201	03/31/09
03	MPT-AOCF-SS1	0903262-05	0326205	03/31/09
04	MPT-AOCF-SS1	0903262-07	0326207	03/31/09
05	MPT-AOCF-SS1	0903262-01MS	0326201M	04/01/09
06	MPT-AOCF-SS1	0903262-01MSD	0326201S	04/01/09
07	MPT-AOCF-SS1	0903262-03	0326203	04/01/09
08	MPT-AOCF-SS1	0903262-09	0326209	04/01/09
09	MPT-AOCF-SS1	0903262-11	0326211	04/01/09
10	MPT-AOCF-SS2	0903262-13	0326213	04/01/09
11	MPT-AOCF-SS2	0903262-15	0326215	04/01/09
12	MPT-AOCF-SS2	0903262-17	0326217	04/02/09
13	MPT-AOCF-SS2	0903262-19	0326219	04/02/09
14				
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	26	330		U
208-96-8	Acenaphthylene	20	330		U
98-86-2	Acetophenone	41	330		U
53-96-3	2-Acetylaminofluorene	100	330		U
92-67-1	4-Aminobiphenyl	100	330		U
62-53-3	Aniline	41	330		U
140-57-8	Aramite	100	330		U
120-12-7	Anthracene	27	330		U
56-55-3	Benzo(a)anthracene	36	330		U
205-99-2	Benzo(b)fluoranthene	32	330		U
207-08-9	Benzo(k)fluoranthene	39	330		U
191-24-2	Benzo(g,h,i)perylene	70	330		U
50-32-8	Benzo(a)pyrene	23	330		U
100-51-6	Benzyl alcohol	45	330		U
111-44-4	bis(2-Chloroethyl)ether	41	330		U
108-60-1	bis(2-Chloroisopropyl)ether	51	330		U
117-81-7	Bis(2-ethylhexyl)phthalate	36	330		U
101-55-3	4-Bromophenyl-phenylether	26	330		U
85-68-7	Butylbenzylphthalate	30	330		U
106-47-8	4-Chloroaniline	48	330		U
510-15-6	Chlorobenzilate	100	330		U
59-50-7	4-Chloro-3-methylphenol	28	330		U
91-58-7	2-Chloronaphthalene	32	330		U
95-57-8	2-Chlorophenol	41	330		U
7005-72-3	4-Chlorophenyl-phenylether	31	330		U
218-01-9	Chrysene	31	330		U
2303-16-4	Diallate	100	330		U
53-70-3	Dibenz(a,h)anthracene	60	330		U
132-64-9	Dibenzofuran	24	330		U
91-94-1	3,3'-Dichlorobenzidine	31	330		U
120-83-2	2,4-Dichlorophenol	19	330		U
87-65-0	2,6-Dichlorophenol	100	330		U
84-66-2	Diethylphthalate	34	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG MDL	RL	CONC	Q
60-51-5	Dimethoate	100	330		U
60-11-7	p-(Dimethylamino)azobenzene	100	330		U
57-97-6	7,12-Dimethylbenz[a]anthrace	100	330		U
119-93-7	3,3'-Dimethylbenzidine	100	330		U
122-09-8	a,a-Dimethyl-phenethylamine	100	330		U
105-67-9	2,4-Dimethylphenol	21	1300		U
131-11-3	Dimethylphthalate	30	330		U
84-74-2	Di-n-butylphthalate	30	330		U
99-65-0	m-Dinitrobenzene	100	330		U
534-52-1	4,6-Dinitro-2-methylphenol	22	1300		U
51-28-5	2,4-Dinitrophenol	130	3300		U
121-14-2	2,4-Dinitrotoluene	24	330		U
606-20-2	2,6-Dinitrotoluene	38	330		U
117-84-0	Di-n-octylphthalate	27	330		U
122-39-4	Diphenylamine	100	330		U
298-04-4	Disulfoton	100	330		U
62-50-0	Ethyl methanesulfonate	100	330		U
52-85-7	Famphur	100	330		U
206-44-0	Fluoranthene	54	330		U
86-73-7	Fluorene	26	330		U
118-74-1	Hexachlorobenzene	35	330		U
87-68-3	Hexachlorobutadiene	33	330		U
77-47-4	Hexachlorocyclopentadiene	61	330		U
67-72-1	Hexachloroethane	39	330		U
70-30-4	Hexachlorophene	100	6700		U
1888-71-7	Hexachloropropene	100	330		U
193-39-5	Indeno(1,2,3-cd)pyrene	46	330		U
465-73-6	Isodrin	100	330		U
78-59-1	Isophorone	28	330		U
120-58-1	Isosafrole	100	330		U
91-80-5	Methapyrilene	100	330		U
56-49-5	3-Methylcholanthrene	100	330		U
66-27-3	Methyl methanesulfonate	100	330		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-57-6	2-Methylnaphthalene	35	330		U
298-00-0	Methyl parathion	100	330		U
95-48-7	2-Methylphenol	39	330		U
108-39-4	3-Methylphenol	27	330		U
91-20-3	Naphthalene	32	330		U
106-44-5	4-Methylphenol	26	330		U
130-15-4	1,4-Naphthoquinone	100	330		U
134-32-7	1-Naphthylamine	100	330		U
91-59-8	2-Naphthylamine	100	330		U
88-74-4	2-Nitroaniline	32	1300		U
99-09-2	3-Nitroaniline	47	1300		U
100-01-6	4-Nitroaniline	100	1300		U
98-95-3	Nitrobenzene	34	330		U
88-75-5	2-Nitrophenol	22	330		U
100-02-7	4-Nitrophenol	81	1300		U
56-57-5	4-Nitroquinoline-1-oxide	100	330		U
924-16-3	N-Nitrosodi-n-butylamine	100	330		U
55-18-5	N-Nitrosodiethylamine	100	330		U
62-75-9	N-Nitroso-di-methylamine	95	330		U
86-30-6	N-Nitrosodiphenylamine (1)	32	330		U
621-64-7	N-Nitroso-di-n-propylamine	55	330		U
10595-95-6	N-Nitrosomethylethylamine	100	330		U
59-89-2	N-Nitrosomorpholine	100	330		U
100-75-4	N-Nitrosopiperidine	100	330		U
930-55-2	N-Nitrosopyrrolidine	100	330		U
99-55-8	5-Nitro-o-toluidine	100	330		U
56-38-2	Parathion	100	330		U
608-93-5	Pentachlorobenzene	100	330		U
76-01-7	Pentachloroethane	100	330		U
82-68-8	Pentachloronitrobenzene	100	330		U
87-86-5	Pentachlorophenol	34	1300		U
62-44-2	Phenacetin	100	330		U
85-01-8	Phenanthrene	23	330		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0320BS2

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0320BS2

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S2BS0320

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/20/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 03/31/09 17:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
108-95-2	Phenol	36	330		U
106-50-3	p-Phenylenediamine	100	330		U
298-02-2	Phorate	100	330		U
109-06-8	2-Picoline	100	330		U
23950-58-5	Pronamide	100	330		U
129-00-0	Pyrene	40	330		U
110-86-1	Pyridine	54	1300		U
94-59-7	Safrole	100	330		U
3689-24-5	Sulfotepp	100	330		U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	330		U
58-90-2	2,3,4,6-Tetrachlorophenol	100	330		U
297-97-2	Thionazin	100	330		U
95-53-4	o-Toluidine	100	330		U
120-82-1	1,2,4-Trichlorobenzene	26	330		U
95-95-4	2,4,5-Trichlorophenol	27	330		U
88-06-2	2,4,6-Trichlorophenol	35	330		U
126-68-1	O,O,O-Triethylphosphorothioa	100	330		U
99-35-4	sym-Trinitrobenzene	100	330		U

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: S1BW0403 Lab Sample ID: SBLK0403BW1

Instrument ID: BNA1 Date Extracted: 04/03/09

Matrix: (soil/water) WATER Date Analyzed: 04/06/09

Level:(low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1139

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK0403BW1L	SBLK0403BW1LCS	S1LW0403	04/06/09
02	SBLK0403BW1L	SBLK0403BW1LCS	S1DW0403	04/06/09
03	MPT-AOC-F-MW	0904026-01	0402601	04/06/09
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.63	2.0		U
208-96-8	Acenaphthylene	0.47	1.0		U
98-86-2	Acetophenone	0.75	5.0		U
53-96-3	2-Acetylaminofluorene	2.0	5.0		U
92-67-1	4-Aminobiphenyl	2.0	5.0		U
62-53-3	Aniline	0.56	5.0		U
140-57-8	Aramite	1.0	5.0		U
120-12-7	Anthracene	0.77	2.0		U
56-55-3	Benzo(a)anthracene	0.91	5.0		U
205-99-2	Benzo(b)fluoranthene	0.71	5.0		U
207-08-9	Benzo(k)fluoranthene	0.50	2.0		U
191-24-2	Benzo(g,h,i)perylene	1.5	3.0		U
50-32-8	Benzo(a)pyrene	0.60	2.0		U
100-51-6	Benzyl alcohol	0.75	5.0		U
111-44-4	bis(2-Chloroethyl)ether	0.45	5.0		U
108-60-1	bis(2-Chloroisopropyl)ether	0.85	5.0		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	5.0		U
101-55-3	4-Bromophenyl-phenylether	0.57	5.0		U
85-68-7	Butylbenzylphthalate	0.82	5.0		U
106-47-8	4-Chloroaniline	0.95	5.0		U
510-15-6	Chlorobenzilate	1.0	5.0		U
59-50-7	4-Chloro-3-methylphenol	0.58	5.0		U
91-58-7	2-Chloronaphthalene	0.58	5.0		U
95-57-8	2-Chlorophenol	0.59	5.0		U
7005-72-3	4-Chlorophenyl-phenylether	0.89	5.0		U
218-01-9	Chrysene	1.0	2.0		U
2303-16-4	Diallate	1.0	5.0		U
53-70-3	Dibenz(a,h)anthracene	1.7	5.0		U
132-64-9	Dibenzofuran	0.65	2.0		U
91-94-1	3,3'-Dichlorobenzidine	0.89	2.0		U
120-83-2	2,4-Dichlorophenol	0.44	1.0		U
87-65-0	2,6-Dichlorophenol	1.0	5.0		U
84-66-2	Diethylphthalate	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
60-51-5	Dimethoate	4.0	10		U
60-11-7	p-(Dimethylamino)azobenzene	1.0	5.0		U
57-97-6	7,12-Dimethylbenz[a]anthrace	1.0	5.0		U
119-93-7	3,3'-Dimethylbenzidine	42	100		U
122-09-8	a,a-Dimethyl-phenethylamine	1.0	5.0		U
105-67-9	2,4-Dimethylphenol	0.71	20		U
131-11-3	Dimethylphthalate	0.74	5.0		U
84-74-2	Di-n-butylphthalate	1.3	5.0		U
99-65-0	m-Dinitrobenzene	3.0	5.0		U
534-52-1	4,6-Dinitro-2-methylphenol	0.74	20		U
51-28-5	2,4-Dinitrophenol	0.85	50		U
121-14-2	2,4-Dinitrotoluene	0.49	5.0		U
606-20-2	2,6-Dinitrotoluene	0.66	5.0		U
117-84-0	Di-n-octylphthalate	0.33	5.0		U
122-39-4	Diphenylamine	1.0	5.0		U
298-04-4	Disulfoton	3.0	5.0		U
62-50-0	Ethyl methanesulfonate	1.0	5.0		U
52-85-7	Famphur	2.0	5.0		U
206-44-0	Fluoranthene	0.70	5.0		U
86-73-7	Fluorene	0.55	5.0		U
118-74-1	Hexachlorobenzene	0.47	5.0		U
87-68-3	Hexachlorobutadiene	0.93	5.0		U
77-47-4	Hexachlorocyclopentadiene	0.89	5.0		U
67-72-1	Hexachloroethane	0.46	5.0		U
70-30-4	Hexachlorophene	25	100		U
1888-71-7	Hexachloropropene	4.0	5.0		U
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	5.0		U
465-73-6	Isodrin	2.0	5.0		U
78-59-1	Isophorone	0.55	5.0		U
120-58-1	Isosafrole	1.0	5.0		U
91-80-5	Methapyrilene	1.0	5.0		U
56-49-5	3-Methylcholanthrene	1.0	5.0		U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
66-27-3	Methyl methanesulfonate	1.0	5.0		U
91-57-6	2-Methylnaphthalene	0.68	2.0		U
298-00-0	Methyl parathion	3.0	5.0		U
95-48-7	2-Methylphenol	0.83	5.0		U
108-39-4	3-Methylphenol	0.77	5.0		U
106-44-5	4-Methylphenol	0.77	5.0		U
91-20-3	Naphthalene	0.45	1.0		U
130-15-4	1,4-Naphthoquinone	1.0	5.0		U
134-32-7	1-Naphthylamine	1.0	5.0		U
91-59-8	2-Naphthylamine	1.0	5.0		U
88-74-4	2-Nitroaniline	1.2	20		U
99-09-2	3-Nitroaniline	1.0	20		U
100-01-6	4-Nitroaniline	2.0	20		U
98-95-3	Nitrobenzene	0.62	5.0		U
88-75-5	2-Nitrophenol	0.74	5.0		U
100-02-7	4-Nitrophenol	0.83	20		U
56-57-5	4-Nitroquinoline-1-oxide	1.0	5.0		U
924-16-3	N-Nitrosodi-n-butylamine	1.0	5.0		U
55-18-5	N-Nitrosodiethylamine	1.0	5.0		U
62-75-9	N-Nitroso-di-methylamine	0.90	5.0		U
86-30-6	N-Nitrosodiphenylamine (1)	0.46	5.0		U
621-64-7	N-Nitroso-di-n-propylamine	0.90	5.0		U
10595-95-6	N-Nitrosomethylethylamine	4.0	5.0		U
59-89-2	N-Nitrosomorpholine	1.0	5.0		U
100-75-4	N-Nitrosopiperidine	1.0	5.0		U
930-55-2	N-Nitrosopyrrolidine	1.0	5.0		U
99-55-8	5-Nitro-o-toluidine	2.0	5.0		U
56-38-2	Parathion	3.0	5.0		U
608-93-5	Pentachlorobenzene	4.0	10		U
76-01-7	Pentachloroethane	4.0	10		U
82-68-8	Pentachloronitrobenzene	4.0	10		U
87-86-5	Pentachlorophenol	1.0	10		U
62-44-2	Phenacetin	1.0	5.0		U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0403BW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Matrix: (soil/water) WATER Lab Sample ID: SBLK0403BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1BW0403

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/03/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 04/06/09 11:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
85-01-8	Phenanthrene	0.77	2.0		U
108-95-2	Phenol	0.46	5.0		U
106-50-3	p-Phenylenediamine	1.0	5.0		U
298-02-2	Phorate	4.0	5.0		U
109-06-8	2-Picoline	7.0	7.0		U
23950-58-5	Pronamide	1.0	5.0		U
129-00-0	Pyrene	0.65	2.0		U
110-86-1	Pyridine	1.1	20		U
94-59-7	Safrole	1.0	5.0		U
3689-24-5	Sulfotepp	4.0	5.0		U
95-94-3	1,2,4,5-Tetrachlorobenzene	3.0	5.0		U
58-90-2	2,3,4,6-Tetrachlorophenol	1.0	5.0		U
297-97-2	Thionazin	4.0	5.0		U
95-53-4	o-Toluidine	4.0	10		U
120-82-1	1,2,4-Trichlorobenzene	0.36	1.0		U
95-95-4	2,4,5-Trichlorophenol	0.50	1.0		U
88-06-2	2,4,6-Trichlorophenol	0.73	2.0		U
126-68-1	O,O,O-Triethylphosphorothioa	3.0	5.0		U
99-35-4	sym-Trinitrobenzene	3.0	5.0		U

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Lab File ID: DFO303B1 DFTPP Injection Date: 03/03/09

Instrument ID: BNA1 DFTPP Injection Time: 1649

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	44.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.0
365	Greater than 1.0% of mass 198	1.67
441	Present, but less than mass 443	8.3
442	Greater than 40.0% of mass 198	50.0
443	17.0 - 23.0% of mass 442	10.0 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNACAL001PPM	CAL001	03/03/09	1711
02		BNACAL002PPM	CAL002	03/03/09	1747
03		BNACAL005PPM	CAL005	03/03/09	1823
04		BNACAL010PPM	CAL010	03/03/09	1859
05		BNACAL020PPM	CAL020	03/03/09	1935
06		BNACAL040PPM	CAL040	03/03/09	2011
07		BNACAL050PPM	CAL050	03/03/09	2047
08		BNACAL060PPM	CAL060	03/03/09	2122
09		BNACAL080PPM	CAL080	03/03/09	2158
10		BNACAL100PPM	CAL100	03/03/09	2234
11		BNACAL001PPM	CALB001	03/03/09	2310
12		BNACAL002PPM	CALB002	03/03/09	2346
13		BNACAL005PPM	CALB005	03/04/09	0022
14		BNACAL010PPM	CALB010	03/04/09	0058
15		BNACAL020PPM	CALB020	03/04/09	0134
16		BNACAL040PPM	CALB040	03/04/09	0209
17		BNACAL050PPM	CALB050	03/04/09	0245
18		BNACAL060PPM	CALB060	03/04/09	0321
19		BNACAL080PPM	CALB080	03/04/09	0357
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Lab File ID: DF0303B2 DFTPP Injection Date: 03/04/09

Instrument ID: BNA1 DFTPP Injection Time: 0429

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.4
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	17.3
365	Greater than 1.0% of mass 198	1.67
441	Present, but less than mass 443	6.8
442	Greater than 40.0% of mass 198	49.6
443	17.0 - 23.0% of mass 442	9.7 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNACAL100PPM	CALB100	03/04/09	0451
02		BNAICV050PPM	ICV01	03/04/09	0527
03		BNAICV050PPM	ICV03	03/04/09	0639
04		BNAICV050PPM	ICV01A	03/04/09	0715
05		BNAICV050PPM	ICV02A	03/04/09	0751
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: DF0331B1 DFTPP Injection Date: 03/31/09

Instrument ID: BNA1 DFTPP Injection Time: 1134

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.1
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 1.0% of mass 198	2.05
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	62.1
443	17.0 - 23.0% of mass 442	12.6 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050S	03/31/09	1156
02	AP9A50PPM	AP9A50PPM	CCVAP9SA	03/31/09	1232
03	AP9B50PPM	AP9B50PPM	CCVAP9SB	03/31/09	1309
04	AP9C50PPM	AP9C50PPM	CCVAP9SC	03/31/09	1345
05	SBLK0320BS2	SBLK0320BS2	S2BS0320	03/31/09	1759
06	SBLK0320BS2L	SBLK0320BS2LCS	S2LS0320	03/31/09	1835
07	MPT-AOCF-SS1	0903262-01	0326201	03/31/09	1911
08	MPT-AOCF-SS1	0903262-05	0326205	03/31/09	1947
09	MPT-AOCF-SS1	0903262-07	0326207	03/31/09	2023
10	MPT-AOCF-SS1	0903262-01MS	0326201M	04/01/09	0000
11	MPT-AOCF-SS1	0903262-01MSD	0326201S	04/01/09	0036
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: DF0401B1 DFTPP Injection Date: 04/01/09

Instrument ID: BNA1 DFTPP Injection Time: 1328

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.0
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.9
365	Greater than 1.0% of mass 198	2.06
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	62.1
443	17.0 - 23.0% of mass 442	12.5 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	04/01/09	1403
02	AP9A50PPM	AP9A50PPM	CCVAP9A	04/01/09	1439
03	AP9B50PPM	AP9B50PPM	CCVAP9B	04/01/09	1516
04	AP9C50PPM	AP9C50PPM	CCVAP9C	04/01/09	1553
05	MPT-AOCF-SS1	0903262-03	0326203	04/01/09	2120
06	MPT-AOCF-SS1	0903262-09	0326209	04/01/09	2156
07	MPT-AOCF-SS1	0903262-11	0326211	04/01/09	2233
08	MPT-AOCF-SS2	0903262-13	0326213	04/01/09	2309
09	MPT-AOCF-SS2	0903262-15	0326215	04/01/09	2345
10	MPT-AOCF-SS2	0903262-17	0326217	04/02/09	0022
11	MPT-AOCF-SS2	0903262-19	0326219	04/02/09	0058
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID: DF0401B1 DFTPP Injection Date: 04/06/09

Instrument ID: BNA1 DFTPP Injection Time: 0852

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.4
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	45.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	2.07
441	Present, but less than mass 443	9.0
442	Greater than 40.0% of mass 198	59.6
443	17.0 - 23.0% of mass 442	11.8 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV050PPM	CCV050PPM	CCV050	04/06/09	0915
02	AP9A50PPM	AP9A50PPM	CCVAP9A	04/06/09	0951
03	AP9B50PPM	AP9B50PPM	CCVAP9B	04/06/09	1027
04	AP9C50PPM	AP9C50PPM	CCVAP9C	04/06/09	1103
05	SBLK0403BW1	SBLK0403BW1	S1BW0403	04/06/09	1139
06	SBLK0403BW1L	SBLK0403BW1LCS	S1LW0403	04/06/09	1215
07	SBLK0403BW1L	SBLK0403BW1LCS	S1DW0403	04/06/09	1251
08	MPT-AOC-F-MW	0904026-01	0402601	04/06/09	1553
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9SC Date Analyzed: 03/31/09

Instrument ID: BNA1 Time Analyzed: 1345

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	810362		5.49		2248933		6.84		1275788		9.97	
	UPPER LIMIT	1620724		5.99		4497866		7.34		2551576		10.47	
	LOWER LIMIT	405181		4.99		1124467		6.34		637894		9.47	
	CLIENT SAMPLE NO.												
01	SBLK0320BS2	781144		5.49		2439959		6.84		1232793		9.97	
02	SBLK0320BS2L	762713		5.49		2253377		6.84		1148700		9.98	
03	MPT-AOCF-SS1	798591		5.49		2661309		6.84		1290969		9.97	
04	MPT-AOCF-SS1	750437		5.49		2381734		6.84		1134824		9.97	
05	MPT-AOCF-SS1	835240		5.49		2545236		6.84		1306231		9.97	
06	MPT-AOCF-SS1	780517		5.49		2316309		6.84		1194745		9.97	
07	MPT-AOCF-SS1	777674		5.49		2338090		6.84		1194329		9.97	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9SC Date Analyzed: 03/31/09

Instrument ID: BNA1 Time Analyzed: 1345

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1814693		13.74		1311066		21.39		962263		25.42	
	UPPER LIMIT	3629386		14.24		2622132		21.89		1924526		25.92	
	LOWER LIMIT	907347		13.24		655533		20.89		481132		24.92	
	CLIENT SAMPLE NO.												
01	SBLK0320BS2	1831328		13.74		1258190		21.38		904944		25.42	
02	SBLK0320BS2L	1871913		13.75		1334810		21.40		942226		25.42	
03	MPT-AOCF-SS1	1982855		13.75		1388496		21.39		889705		25.42	
04	MPT-AOCF-SS1	1698904		13.74		1214228		21.39		859331		25.42	
05	MPT-AOCF-SS1	1930940		13.74		1414905		21.39		1150268		25.42	
06	MPT-AOCF-SS1	1808441		13.74		1288732		21.39		803783		25.41	
07	MPT-AOCF-SS1	1906098		13.74		1195046		21.39		638424		25.41	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9C Date Analyzed: 04/01/09

Instrument ID: BNA1 Time Analyzed: 1553

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	792606		5.48		2227879		6.83		1230861		9.95	
	UPPER LIMIT	1585212		5.98		4455758		7.33		2461722		10.45	
	LOWER LIMIT	396303		4.98		1113940		6.33		615431		9.45	
	CLIENT SAMPLE NO.												
01	MPT-AOCF-SS1	765904		5.48		2425317		6.83		1267072		9.96	
02	MPT-AOCF-SS1	702581		5.48		2283725		6.83		1118500		9.96	
03	MPT-AOCF-SS1	752175		5.48		2291337		6.83		1132407		9.96	
04	MPT-AOCF-SS2	798240		5.48		2503153		6.83		1229600		9.96	
05	MPT-AOCF-SS2	745480		5.48		2397211		6.83		1175973		9.96	
06	MPT-AOCF-SS2	785844		5.48		2492886		6.83		1119200		9.96	
07	MPT-AOCF-SS2	765823		5.48		2453757		6.83		1239128		9.96	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9C Date Analyzed: 04/01/09

Instrument ID: BNA1 Time Analyzed: 1553

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1722170		13.72		1231364		21.36		1023208		25.41	
	UPPER LIMIT	3444340		14.22		2462728		21.86		2046416		25.91	
	LOWER LIMIT	861085		13.22		615682		20.86		511604		24.91	
	CLIENT SAMPLE NO.												
01	MPT-AOCF-SS1	1713536		13.72		1131147		21.36		773775		25.40	
02	MPT-AOCF-SS1	1608602		13.72		1035163		21.36		702920		25.39	
03	MPT-AOCF-SS1	1711446		13.72		1170105		21.37		749696		25.40	
04	MPT-AOCF-SS2	1872666		13.72		1181415		21.36		796186		25.40	
05	MPT-AOCF-SS2	1691089		13.73		1154249		21.37		747053		25.40	
06	MPT-AOCF-SS2	1835242		13.72		1067277		21.37		672536		25.40	
07	MPT-AOCF-SS2	1783687		13.72		1003388		21.36		633078		25.40	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9C Date Analyzed: 04/06/09

Instrument ID: BNA1 Time Analyzed: 1103

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	805506		5.48		2314395		6.82		1205986		9.95	
	UPPER LIMIT	1611012		5.98		4628790		7.32		2411972		10.45	
	LOWER LIMIT	402753		4.98		1157198		6.32		602993		9.45	
	CLIENT SAMPLE NO.												
01	SBLK0403BW1	765772		5.48		2396549		6.82		1155651		9.95	
02	SBLK0403BW1L	788689		5.48		2353558		6.83		1203184		9.95	
03	SBLK0403BW1L	774179		5.48		2408759		6.83		1154423		9.96	
04	MPT-AOC-F-MW	905513		5.47		2782551		6.83		1430791		9.95	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Lab File ID (Standard): CCVAP9C Date Analyzed: 04/06/09

Instrument ID: BNA1 Time Analyzed: 1103

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1779572		13.71		1338851		21.36		1171183		25.40	
	UPPER LIMIT	3559144		14.21		2677702		21.86		2342366		25.90	
	LOWER LIMIT	889786		13.21		669426		20.86		585592		24.90	
	CLIENT SAMPLE NO.												
01	SBLK0403BW1	1800435		13.72		1345919		21.36		1218419		25.40	
02	SBLK0403BW1L	1922223		13.72		1589463		21.38		1238056		25.40	
03	SBLK0403BW1L	1824269		13.72		1387477		21.38		992253		25.40	
04	MPT-AOC-F-MW	2140524		13.71		1716705		21.36		1544566		25.40	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Acenaphthene	1.311	1.267	1.258	1.192	1.158
Acenaphthylene	1.832	1.754	1.690	1.656	1.603
Acetophenone	1.683	1.835	1.598	1.589	1.448
Aniline	2.065	2.004	1.639	1.334	0.994
Anthracene	1.219	1.222	1.177	1.072	1.004
Benzoic acid		0.180	0.224	0.246	0.271
Benzo(a)anthracene	1.160	1.084	1.123	1.090	1.040
Benzo(b)fluoranthene	1.084	1.072	1.094	1.210	1.084
Benzo(k)fluoranthene	1.222	1.130	1.230	1.176	1.157
Benzo(g,h,i)perylene	0.674	0.678	0.644	0.623	0.499
Benzo(a)pyrene	0.971	0.962	0.982	0.999	0.893
Benzyl alcohol	0.816	0.818	0.833	0.923	0.867
bis(2-Chloroethoxy)methane	0.590	0.600	0.624	0.591	0.531
1,1'-Biphenyl	1.839	1.666	1.654	1.502	1.543
bis(2-Chloroethyl)ether	2.034	1.988	1.831	1.834	1.608
bis(2-Chloroisopropyl)ether	2.653	2.580	2.380	2.368	2.068
Bis(2-ethylhexyl)phthalate	1.317	1.370	1.411	1.502	1.300
4-Bromophenyl-phenylether	0.286	0.275	0.302	0.279	0.237
Butylbenzylphthalate	1.009	0.927	1.015	1.094	1.012
Carbazole	1.169	1.141	1.180	1.037	1.013
4-Chloroaniline	0.436	0.438	0.435	0.420	0.380
Caprolactam	0.142	0.139	0.148	0.152	0.134
4-Chloro-3-methylphenol	0.309	0.334	0.310	0.326	0.314
2-Chloronaphthalene	1.410	1.294	1.249	1.171	1.190
2-Chlorophenol	1.548	1.597	1.446	1.559	1.313
4-Chlorophenyl-phenylether	0.648	0.606	0.621	0.538	0.573
Chrysene	1.013	1.041	1.008	1.007	0.991
Dibenz(a,h)anthracene	0.555	0.531	0.618	0.572	0.499
Dibenzofuran	1.994	1.827	1.823	1.679	1.633
1,4-Dichlorobenzene	1.760	1.720	1.676	1.639	1.495
1,2-Dichlorobenzene	1.968	1.779	1.650	1.688	1.391
1,3-Dichlorobenzene	1.897	1.897	1.865	1.858	1.641
2,4-Dichlorophenol	0.311	0.348	0.395	0.386	0.339
Diethylphthalate	1.980	1.829	1.904	1.640	1.617
2,4-Dimethylphenol	0.263	0.239	0.246	0.250	0.249
Dimethylphthalate	2.005	1.887	1.800	1.609	1.543
Di-n-butylphthalate	2.169	2.074	2.256	2.066	1.828

FORM VI SV

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FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
4,6-Dinitro-2-methylphenol			0.115	0.146	0.169
2,4-Dinitrophenol			0.058	0.097	0.153
2,4-Dinitrotoluene	0.484	0.487	0.524	0.504	0.500
2,6-Dinitrotoluene	0.453	0.422	0.424	0.413	0.432
Di-n-octylphthalate	2.330	2.515	2.800	3.087	2.990
1,2-Diphenylhydrazine	1.310	1.293	1.322	1.217	1.086
Fluoranthene	1.223	1.199	1.288	1.158	1.119
Fluorene	1.511	1.437	1.435	1.304	1.298
Hexachlorobenzene	0.314	0.279	0.296	0.258	0.258
Hexachlorobutadiene	0.229	0.216	0.212	0.210	0.185
Hexachlorocyclopentadiene	0.184	0.197	0.217	0.218	0.237
Hexachloroethane	0.837	0.738	0.745	0.755	0.635
Indeno(1,2,3-cd)pyrene	0.573	0.585	0.592	0.580	0.491
Isophorone	0.962	0.980	0.958	1.008	0.852
2-Methylnaphthalene	0.701	0.703	0.721	0.703	0.615
1-Methylnaphthalene	0.697	0.643	0.659	0.657	0.560
4-Methylphenol	1.217	1.135	1.177	1.193	1.103
2-Methylphenol	1.308	1.195	1.155	1.245	1.059
Naphthalene	1.249	1.207	1.226	1.101	0.985
3-Methylphenol	1.173	1.134	1.177	1.193	1.103
2-Nitroaniline	0.391	0.363	0.387	0.362	0.391
3-Nitroaniline	0.342	0.360	0.391	0.385	0.417
4-Nitroaniline	0.291	0.260	0.246	0.272	0.335
Nitrobenzene	0.542	0.551	0.476	0.510	0.405
2-Nitrophenol	0.270	0.260	0.304	0.313	0.292
4-Nitrophenol		0.138	0.163	0.202	0.210
N-Nitroso-di-methylamine	0.911	0.877	0.856	0.859	0.834
N-Nitrosodiphenylamine	0.727	0.710	0.700	0.704	0.628
N-Nitroso-di-n-propylamine	1.164	1.189	1.122	1.042	0.947
Pentachlorophenol				0.072	0.101
Phenanthrene	1.253	1.168	1.175	1.151	1.058
Phenol	2.306	2.220	2.091	2.122	1.779
Pyrene	1.336	1.412	1.456	1.419	1.345
Pyridine	2.022	1.878	1.945	1.838	1.761
1,2,4,5-Tetrachlorobenzene	0.350	0.321	0.339	0.332	0.307
1,2,4-Trichlorobenzene	0.452	0.438	0.414	0.425	0.387
2,4,5-Trichlorophenol	0.355	0.359	0.425	0.399	0.431

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF1: CAL001 RF2: CAL002 RF5: CAL005
RF10: CAL010 RF20: CAL020

COMPOUND	RF1	RF2	RF5	RF10	RF20
2,4,6-Trichlorophenol	0.367	0.379	0.413	0.399	0.399
2-Fluorophenol	1.751	1.698	1.606	1.659	1.477
Phenol-d6	2.020	2.033	1.933	1.953	1.626
Nitrobenzene-d5	0.502	0.502	0.478	0.505	0.408
2-Fluorobiphenyl	1.650	1.442	1.421	1.322	1.266
2,4,6-Tribromophenol	0.104	0.120	0.133	0.135	0.131
Terphenyl-d14	0.864	0.867	0.947	0.980	0.876

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Acenaphthene		1.109	1.080	1.003	
Acenaphthylene		1.535	1.448	1.363	
Acetophenone		1.296	1.263	1.238	
Aniline		0.930	0.886	0.812	
Anthracene		1.028	1.016	0.988	
Benzoic acid		0.282	0.289	0.332	
Benzo(a)anthracene		1.082	1.068	1.060	
Benzo(b)fluoranthene		1.099	1.178	1.163	
Benzo(k)fluoranthene		1.135	1.196	1.138	
Benzo(g,h,i)perylene		0.617	0.536	0.475	
Benzo(a)pyrene		0.938	1.004	0.889	
Benzyl alcohol		0.809	0.756	0.699	
bis(2-Chloroethoxy)methane		0.491	0.446	0.428	
1,1'-Biphenyl		1.410	1.365	1.241	
bis(2-Chloroethyl)ether		1.433	1.546	1.479	
bis(2-Chloroisopropyl)ether		1.937	1.820	1.686	
Bis(2-ethylhexyl)phthalate		1.446	1.336	1.245	
4-Bromophenyl-phenylether		0.275	0.253	0.250	
Butylbenzylphthalate		1.106	0.998	1.079	
Carbazole		1.046	0.976	0.936	
4-Chloroaniline		0.398	0.390	0.384	
Caprolactam		0.131	0.118	0.121	
4-Chloro-3-methylphenol		0.320	0.302	0.308	
2-Chloronaphthalene		1.102	1.138	1.023	
2-Chlorophenol		1.142	1.034	1.021	
4-Chlorophenyl-phenylether		0.545	0.545	0.530	
Chrysene		1.042	0.987	0.960	
Dibenz(a,h)anthracene		0.646	0.560	0.517	
Dibenzofuran		1.503	1.523	1.362	
1,4-Dichlorobenzene		1.346	1.256	1.218	
1,2-Dichlorobenzene		1.282	1.229	1.109	
1,3-Dichlorobenzene		1.501	1.440	1.293	
2,4-Dichlorophenol		0.332	0.323	0.333	
Diethylphthalate		1.512	1.492	1.349	
2,4-Dimethylphenol		0.260	0.244	0.258	
Dimethylphthalate		1.484	1.502	1.379	
Di-n-butylphthalate		1.726	1.754	1.604	

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
4,6-Dinitro-2-methylphenol		0.188	0.197	0.195	
2,4-Dinitrophenol		0.203	0.232	0.232	
2,4-Dinitrotoluene		0.466	0.509	0.459	
2,6-Dinitrotoluene		0.413	0.426	0.399	
Di-n-octylphthalate		2.918	3.498	3.613	
1,2-Diphenylhydrazine		1.020	0.964	0.948	
Fluoranthene		1.138	1.074	1.029	
Fluorene		1.226	1.209	1.123	
Hexachlorobenzene		0.258	0.253	0.248	
Hexachlorobutadiene		0.184	0.171	0.179	
Hexachlorocyclopentadiene		0.251	0.240	0.234	
Hexachloroethane		0.606	0.596	0.559	
Indeno(1,2,3-cd)pyrene		0.584	0.540	0.485	
Isophorone		0.818	0.740	0.714	
2-Methylnaphthalene		0.546	0.524	0.526	
1-Methylnaphthalene		0.563	0.512	0.474	
4-Methylphenol		1.142	1.080	1.104	
2-Methylphenol		1.058	1.049	0.958	
Naphthalene		0.890	0.845	0.781	
3-Methylphenol		1.142	1.080	1.094	
2-Nitroaniline		0.352	0.372	0.339	
3-Nitroaniline		0.404	0.421	0.391	
4-Nitroaniline		0.348	0.394	0.350	
Nitrobenzene		0.418	0.378	0.371	
2-Nitrophenol		0.284	0.284	0.269	
4-Nitrophenol		0.218	0.229	0.218	
N-Nitroso-di-methylamine		0.796	0.777	0.712	
N-Nitrosodiphenylamine		0.636	0.613	0.616	
N-Nitroso-di-n-propylamine		0.787	0.749	0.742	
Pentachlorophenol		0.151	0.163	0.166	
Phenanthrene		1.035	1.026	0.952	
Phenol		1.580	1.509	1.404	
Pyrene		1.391	1.322	1.416	
Pyridine		1.719	1.655	1.686	
1,2,4,5-Tetrachlorobenzene		0.299	0.271	0.272	
1,2,4-Trichlorobenzene		0.356	0.338	0.329	
2,4,5-Trichlorophenol		0.419	0.422	0.394	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF30: RF40: CAL040 RF50: CAL050
RF60: CAL060 RF70: CAL070

COMPOUND	RF30	RF40	RF50	RF60	RF70
2,4,6-Trichlorophenol		0.406	0.405	0.371	
2-Fluorophenol		1.309	1.232	1.081	
Phenol-d6		1.456	1.377	1.292	
Nitrobenzene-d5		0.410	0.377	0.400	
2-Fluorobiphenyl		1.177	1.184	1.061	
2,4,6-Tribromophenol		0.137	0.132	0.133	
Terphenyl-d14		0.908	0.878	0.945	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
Acenaphthene	0.964		0.905
Acenaphthylene	1.346		1.206
Acetophenone			
Aniline	0.691		
Anthracene	0.863		0.931
Benzoic acid	0.309		0.298
Benzo(a)anthracene	1.006		1.012
Benzo(b)fluoranthene	1.214		1.212
Benzo(k)fluoranthene	1.151		1.235
Benzo(g,h,i)perylene	0.565		0.491
Benzo(a)pyrene	0.928		0.967
Benzyl alcohol	0.621		
bis(2-Chloroethoxy)methane			
1,1'-Biphenyl			
bis(2-Chloroethyl)ether			
bis(2-Chloroisopropyl)ether	1.635		1.419
Bis(2-ethylhexyl)phthalate	1.235		1.305
4-Bromophenyl-phenylether	0.224		0.250
Butylbenzylphthalate	1.031		1.071
Carbazole	0.900		0.926
4-Chloroaniline	0.343		0.286
Caprolactam	0.103		0.107
4-Chloro-3-methylphenol	0.274		0.284
2-Chloronaphthalene	0.942		0.907
2-Chlorophenol			
4-Chlorophenyl-phenylether	0.472		0.492
Chrysene	0.932		0.927
Dibenz(a,h)anthracene	0.571		0.530
Dibenzofuran	1.399		1.246
1,4-Dichlorobenzene			
1,2-Dichlorobenzene	0.998		
1,3-Dichlorobenzene			
2,4-Dichlorophenol	0.283		0.270
Diethylphthalate	1.318		
2,4-Dimethylphenol	0.231		0.229
Dimethylphthalate	1.327		
Di-n-butylphthalate	1.504		

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
4,6-Dinitro-2-methylphenol	0.198		0.212
2,4-Dinitrophenol	0.248		0.253
2,4-Dinitrotoluene	0.482		0.469
2,6-Dinitrotoluene	0.394		0.381
Di-n-octylphthalate	3.420		
1,2-Diphenylhydrazine			
Fluoranthene	0.939		1.002
Fluorene	1.100		1.088
Hexachlorobenzene	0.225		0.246
Hexachlorobutadiene	0.147		
Hexachlorocyclopentadiene	0.237		.0.218
Hexachloroethane			
Indeno(1,2,3-cd)pyrene	0.544		0.476
Isophorone	0.668		
2-Methylnaphthalene			
1-Methylnaphthalene			
4-Methylphenol	0.983		0.792
2-Methylphenol	1.000		0.964
Naphthalene	0.678		0.625
3-Methylphenol	0.982		0.794
2-Nitroaniline	0.342		0.330
3-Nitroaniline	0.400		0.378
4-Nitroaniline	0.354		0.398
Nitrobenzene	0.318		0.308
2-Nitrophenol	0.241		0.236
4-Nitrophenol	0.229		0.235
N-Nitroso-di-methylamine	0.786		0.703
N-Nitrosodiphenylamine	0.560		0.563
N-Nitroso-di-n-propylamine	0.659		0.568
Pentachlorophenol	0.170		0.178
Phenanthrene	0.912		0.887
Phenol			
Pyrene	1.303		1.404
Pyridine	1.773		1.664
1,2,4,5-Tetrachlorobenzene	0.239		0.230
1,2,4-Trichlorobenzene	0.288		
2,4,5-Trichlorophenol	0.401		0.393

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

LAB FILE ID: RF80: CAL080 RF90: CAL090 RF100: CAL100

COMPOUND	RF80	RF90	RF100
2,4,6-Trichlorophenol	0.350		0.342
2-Fluorophenol			
Phenol-d6			
Nitrobenzene-d5	0.335		
2-Fluorobiphenyl			
2,4,6-Tribromophenol	0.127		0.131
Terphenyl-d14	0.915		0.956

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acenaphthene	AVRG		1.12476844		12.2
Acenaphthylene	AVRG		1.54330785		13.0
Acetophenone	AVRG		1.49376744		14.6
Aniline	2ORDR	1.796e-002	0.43995798	0.67369863	0.993
Anthracene	AVRG		1.05199860		11.5
Benzoic acid	LINR	4.394e-002	0.31171568		0.995
Benzo(a)anthracene	AVRG		1.07248148		4.4
Benzo(b)fluoranthene	AVRG		1.14106649		5.2
Benzo(k)fluoranthene	AVRG		1.17725805		3.5
Benzo(g,h,i)perylene	AVRG		0.58035905		13.3
Benzo(a)pyrene	AVRG		0.95336952		4.2
Benzyl alcohol	AVRG		0.79351577		11.4
bis(2-Chloroethoxy)methane	AVRG		0.53756629		13.9
1,1'-Biphenyl	AVRG		1.52744255		12.5
bis(2-Chloroethyl)ether	AVRG		1.71941904		13.5
bis(2-Chloroisopropyl)ether	2ORDR	1.737e-002	0.32529054	9.786e-002	0.996
Bis(2-ethylhexyl)phthalate	AVRG		1.34666770		6.4
4-Bromophenyl-phenylether	AVRG		0.26327168		9.3
Butylbenzylphthalate	AVRG		1.03408471		5.2
Carbazole	AVRG		1.03242714		9.9
4-Chloroaniline	AVRG		0.39118261		12.2
Caprolactam	AVRG		0.12943445		12.9
4-Chloro-3-methylphenol	AVRG		0.30812941		5.9
2-Chloronaphthalene	AVRG		1.14254719		13.7
2-Chlorophenol	2ORDR	0.00000000	0.58868509	0.26467485	0.998
4-Chlorophenyl-phenylether	AVRG		0.55684664		10.0
Chrysene	AVRG		0.99090535		4.1
Dibenz(a,h)anthracene	AVRG		0.56002636		8.1
Dibenzofuran	AVRG		1.59882057		14.8
1,4-Dichlorobenzene	AVRG		1.51369077		14.3
1,2-Dichlorobenzene	2ORDR	2.281e-002	0.40546438	0.28555008	0.998
1,3-Dichlorobenzene	AVRG		1.67402954		14.3
2,4-Dichlorophenol	AVRG		0.33184302		11.9
Diethylphthalate	AVRG		1.62680916		14.5
2,4-Dimethylphenol	AVRG		0.24694694		4.6
Dimethylphthalate	AVRG		1.61518286		14.4
Di-n-butylphthalate	AVRG		1.88673550		14.0

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
4,6-Dinitro-2-methylphenol	LINR	9.622e-002	0.21403517		0.998
2,4-Dinitrophenol	LINR	0.17583436	0.26934481		0.997
2,4-Dinitrotoluene	AVRG		0.48856655		4.3
2,6-Dinitrotoluene	AVRG		0.41586497		4.9
Di-n-octylphthalate	AVRG		3.01882180		14.5
1,2-Diphenylhydrazine	AVRG		1.14519372		13.9
Fluoranthene	AVRG		1.11690314		9.6
Fluorene	AVRG		1.27313975		11.8
Hexachlorobenzene	AVRG		0.26360346		9.9
Hexachlorobutadiene	AVRG		0.19263365		13.5
Hexachlorocyclopentadiene	LINR	-1.56e-002	0.22822564		0.995
Hexachloroethane	AVRG		0.68390330		14.3
Indeno(1,2,3-cd)pyrene	AVRG		0.54510111		8.3
Isophorone	AVRG		0.85552403		14.9
2-Methylnaphthalene	AVRG		0.62990110		13.8
1-Methylnaphthalene	AVRG		0.59565811		13.3
4-Methylphenol	AVRG		1.09263185		11.4
2-Methylphenol	AVRG		1.09901017		11.0
Naphthalene	2ORDR	3.941e-002	0.44567284	0.71673462	0.998
3-Methylphenol	AVRG		1.08726860		11.0
2-Nitroaniline	AVRG		0.36290545		6.1
3-Nitroaniline	AVRG		0.38875625		6.2
4-Nitroaniline	2ORDR	1.817e-002	2.98757028	-0.4619996	0.996
Nitrobenzene	2ORDR	1.85e-002	1.57529040	2.17158771	0.996
2-Nitrophenol	AVRG		0.27528396		9.2
4-Nitrophenol	LINR	4.713e-002	0.23543788		0.999
N-Nitroso-di-methylamine	AVRG		0.81111877		8.5
N-Nitrosodiphenylamine	AVRG		0.64569708		9.5
N-Nitroso-di-n-propylamine	2ORDR	2.857e-002	0.57342267	0.75939788	0.994
Pentachlorophenol	LINR	0.19891481	0.19167337		0.999
Phenanthrene	AVRG		1.06166124		11.6
Phenol	2ORDR	1.993e-003	0.41982898	0.13462245	0.999
Pyrene	AVRG		1.38025498		3.6
Pyridine	AVRG		1.79414105		6.9
1,2,4,5-Tetrachlorobenzene	AVRG		0.29602625		14.1
1,2,4-Trichlorobenzene	AVRG		0.38099771		14.8
2,4,5-Trichlorophenol	AVRG		0.39980127		6.5

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453

Instrument ID: BNA1 Calibration Date(s): 07/24/08 03/03/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 1610 2234

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
2,4,6-Trichlorophenol	AVRG		0.38314696		6.5
2-Fluorophenol	2ORDR	4.245e-002	0.40612717	0.14105971	0.994
Phenol-d6	2ORDR	4.229e-003	0.45763171	7.987e-002	1.000
Nitrobenzene-d5	AVRG		0.43528444		14.4
2-Fluorobiphenyl	AVRG		1.31527146		14.2
2,4,6-Tribromophenol	AVRG		0.12846058		7.6
Terphenyl-d14	AVRG		0.91359863		4.6

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF1: CALB001 RF2: CALB002 RF5: CALB005
RF10: CALB010 RF20: CALB020

COMPOUND	RF1	RF2	RF5	RF10	RF20
Atrazine	0.256	0.238	0.246	0.252	0.236
Benzaldehyde	1.372	1.255	1.210	1.291	1.105
Benzidine			0.429	0.572	0.683
3,3'-Dichlorobenzidine	0.217	0.223	0.298	0.316	0.343
2,3,4,6-Tetrachlorophenol			0.115	0.185	0.230

SComp. Stb

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF30: CALB030 RF40: CALB040 RF50: CALB050
RF60: CALB060 RF70: CALB070

COMPOUND	RF30	RF40	RF50	RF60	RF70
Atrazine		0.244	0.218	0.228	
Benzaldehyde		1.176	1.049	0.962	
Benzidine		0.624	0.623	0.646	
3,3'-Dichlorobenzidine		0.357	0.383	0.368	
2,3,4,6-Tetrachlorophenol		0.271	0.281	0.243	

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

LAB FILE ID: RF80: CALB080 RF90: RF100: CALB100

COMPOUND	RF80	RF90	RF100
Atrazine	0.220		0.217
Benzaldehyde			
Benzidine	0.567		0.581
3,3'-Dichlorobenzidine	0.358		0.348
2,3,4,6-Tetrachlorophenol	0.237		0.249

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA75453X

Instrument ID: BNA1 Calibration Date(s): 01/21/09 03/04/09

Column: FUSED SILICA ID: 0.25 (mm) Calibration Time(s): 2030 0451

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Atrazine	AVRG		0.23562876		6.0
Benzaldehyde	AVRG		1.17752713		11.4
Benzidine	AVRG		0.59068011		12.9
3,3'-Dichlorobenzidine	LINR	8.142e-003	0.35947172		0.998
2,3,4,6-Tetrachlorophenol	2ORDR	8.191e-002	3.31685216	1.01478033	0.992

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	RRF	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Acenaphthene	1.125	1.018	50.00	45.24		AVRG	-9.5	25.0	
Acenaphthylene	1.543	1.682	50.00	54.51		AVRG	9.0	25.0	
Aniline	1.262	1.127	50.00	79.04		2ORDR	58.1	25.0	<
Anthracene	1.052	1.022	50.00	48.55		AVRG	-2.9	25.0	
Benzoic acid	0.270	0.275	50.00	45.90		LINR	-8.2	25.0	
Benzo(a)anthracene	1.072	1.038	50.00	48.39		AVRG	-3.2	25.0	
Benzo(b)fluoranthene	1.141	1.206	50.00	52.84		AVRG	5.7	25.0	
Benzo(k)fluoranthene	1.177	1.159	50.00	49.22		AVRG	-1.6	25.0	
Benzo(g,h,i)perylene	0.580	0.546	50.00	47.00		AVRG	-6.0	25.0	
Benzo(a)pyrene	0.953	0.921	50.00	48.30		AVRG	-3.4	25.0	
Benzyl alcohol	0.794	0.758	50.00	47.75		AVRG	-4.5	25.0	
bis(2-Chloroethoxy)methane	0.538	0.503	50.00	46.79		AVRG	-6.4	25.0	
bis(2-Chloroethyl)ether	1.719	1.500	50.00	43.62		AVRG	-12.8	25.0	
bis(2-Chloroisopropyl)ether	2.055	1.933	50.00	54.98		2ORDR	10.0	25.0	
Bis(2-ethylhexyl)phthalate	1.347	1.289	50.00	47.85		AVRG	-4.3	25.0	
4-Bromophenyl-phenylether	0.263	0.203	50.00	38.61		AVRG	-22.8	25.0	
Butylbenzylphthalate	1.034	1.010	50.00	48.81		AVRG	-2.4	25.0	
Carbazole	1.032	0.856	50.00	41.46		AVRG	-17.1	25.0	
4-Chloroaniline	0.391	0.323	50.00	41.33		AVRG	-17.3	25.0	
4-Chloro-3-methylphenol	0.308	0.275	50.00	44.60		AVRG	-10.8	25.0	
2-Chloronaphthalene	1.143	1.153	50.00	50.47		AVRG	0.9	25.0	
2-Chlorophenol	1.332	1.296	50.00	65.96		2ORDR	31.9	25.0	<
4-Chlorophenyl-phenylether	0.557	0.504	50.00	45.25		AVRG	-9.5	25.0	
Chrysene	0.991	0.951	50.00	47.99		AVRG	-4.0	25.0	
Dibenz(a,h)anthracene	0.560	0.594	50.00	53.06		AVRG	6.1	25.0	
Dibenzofuran	1.599	1.474	50.00	46.11		AVRG	-7.8	25.0	
1,2-Dichlorobenzene	1.455	1.286	50.00	56.51		2ORDR	13.0	25.0	
1,4-Dichlorobenzene	1.514	1.234	50.00	40.75		AVRG	-18.5	25.0	
1,3-Dichlorobenzene	1.674	1.482	50.00	44.26		AVRG	-11.5	25.0	
2,4-Dichlorophenol	0.332	0.318	50.00	47.98		AVRG	-4.0	25.0	

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D	
Diethylphthalate	1.627	1.325	50.00	40.72		AVRG	-18.6	25.0	
2,4-Dimethylphenol	0.247	0.353	50.00	71.54		AVRG	43.1	25.0	<
Dimethylphthalate	1.615	1.318	50.00	40.78		AVRG	-18.4	25.0	
Di-n-butylphthalate	1.887	1.604	50.00	42.51		AVRG	-15.0	25.0	
4,6-Dinitro-2-methylphenol	0.178	0.183	50.00	46.69		LINR	-6.6	25.0	
2,4-Dinitrophenol	0.184	0.200	50.00	44.18	0.050	LINR	-11.6	25.0	
2,4-Dinitrotoluene	0.488	0.421	50.00	43.08		AVRG	-13.8	25.0	
2,6-Dinitrotoluene	0.416	0.366	50.00	44.05		AVRG	-11.9	25.0	
1,2-Diphenylhydrazine	1.145	0.864	50.00	37.74		AVRG	-24.5	25.0	
Di-n-octylphthalate	3.019	3.344	50.00	55.39		AVRG	10.8	25.0	
Fluoranthene	1.117	1.081	50.00	48.40		AVRG	-3.2	25.0	
Fluorene	1.273	1.164	50.00	45.70		AVRG	-8.6	25.0	
Hexachlorobenzene	0.264	0.247	50.00	46.84		AVRG	-6.3	25.0	
Hexachlorobutadiene	0.192	0.182	50.00	47.24		AVRG	-5.5	25.0	
Hexachlorocyclopentadiene	0.223	0.282	50.00	61.27	0.050	LINR	22.5	25.0	
Hexachloroethane	0.684	0.552	50.00	40.36		AVRG	-19.3	25.0	
Indeno(1,2,3-cd)pyrene	0.545	0.526	50.00	48.26		AVRG	-3.5	25.0	
Isophorone	0.856	0.699	50.00	40.85		AVRG	-18.3	25.0	
1-Methylnaphthalene	0.596	0.516	50.00	43.28		AVRG	-13.4	25.0	
2-Methylnaphthalene	0.630	0.566	50.00	44.97		AVRG	-10.0	25.0	
3-Methylphenol	1.087	1.190	50.00	54.75		AVRG	9.5	25.0	
4-Methylphenol	1.093	1.190	50.00	54.48		AVRG	9.0	25.0	
2-Methylphenol	1.099	1.032	50.00	46.96		AVRG	-6.1	25.0	
Naphthalene	0.959	0.911	50.00	59.10		2ORDR	18.2	25.0	
2-Nitroaniline	0.363	0.336	50.00	46.30		AVRG	-7.4	25.0	
3-Nitroaniline	0.389	0.336	50.00	43.19		AVRG	-13.6	25.0	
4-Nitroaniline	0.325	0.294	50.00	42.22		2ORDR	-15.6	25.0	
Nitrobenzene	0.428	0.384	50.00	50.92		2ORDR	1.8	25.0	
2-Nitrophenol	0.275	0.266	50.00	48.30		AVRG	-3.4	25.0	
4-Nitrophenol	0.205	0.183	50.00	40.71	0.050	LINR	-18.6	25.0	
N-Nitroso-di-methylamine	0.811	0.752	50.00	46.39		AVRG	-7.2	25.0	
N-Nitrosodiphenylamine(1)	0.646	0.550	50.00	42.57		AVRG	-14.8	25.0	
Pentachlorophenol	0.143	0.151	50.00	47.43		LINR	-5.1	25.0	
Phenanthrene	1.062	0.982	50.00	46.22		AVRG	-7.5	25.0	
Phenol	1.876	1.745	50.00	62.33		2ORDR	24.7	25.0	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0527

Lab File ID: ICV01 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.469	50.00	53.22		AVRG	6.4	25.0
Pyridine	1.794	1.570	50.00	43.76		AVRG	-12.5	25.0
1,2,4-Trichlorobenzene	0.381	0.330	50.00	43.26		AVRG	-13.5	25.0
2,4,5-Trichlorophenol	0.400	0.386	50.00	48.22		AVRG	-3.6	25.0
2,4,6-Trichlorophenol	0.383	0.367	50.00	47.94		AVRG	-4.1	25.0

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0715

Lab File ID: ICV01A Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
N-Nitroso-di-n-propylamine	0.897	0.859	50.00	60.80	0.050	2ORDR	21.6	25.0

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0639

Lab File ID: ICV03 Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Benzidine	0.591	0.573	50.00	48.48		AVRG	-3.0	25.0
3,3'-Dichlorobenzidine	0.321	0.336	50.00	47.10		LINR	-5.8	25.0

ICV SV

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA23827

Instrument ID: BNA1 Calibration Date: 03/04/09 Time: 0751

Lab File ID: ICV02A Init. Calib. Date(s): 03/04/09

Init. Calib. Times: 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetophenone	1.494	1.346	50.00	45.07		AVRG	-9.9	25.0
Atrazine	0.236	0.230	50.00	48.80		AVRG	-2.4	25.0
Benzaldehyde	1.178	1.062	50.00	45.10		AVRG	-9.8	25.0
1,1'-Biphenyl	1.528	1.367	50.00	44.75		AVRG	-10.5	25.0
Caprolactam	0.130	0.124	50.00	47.78		AVRG	-4.4	25.0
1,2,4,5-Tetrachlorobenzene	0.296	0.286	50.00	48.37		AVRG	-3.3	25.0
2,3,4,6-Tetrachlorophenol	0.226	0.271	50.00	52.80		2ORDR	5.6	25.0

ICV SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050S Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.125	1.082	50.00	48.09		AVRG	-3.8	20.0
Acenaphthylene	1.543	1.534	50.00	49.68		AVRG	-0.6	
Acetophenone	1.494	1.241	50.00	41.55		AVRG	-16.9	
Aniline	1.262	1.172	50.00	84.37		2ORDR	68.7	
Anthracene	1.052	0.988	50.00	46.96		AVRG	-6.1	
Atrazine	0.236	0.214	50.00	45.30		AVRG	-9.4	
Benzaldehyde	1.178	1.066	50.00	45.26		AVRG	-9.5	
Benzidine	0.591	0.426	50.00	36.02		AVRG	-28.0	
Benzoic acid	0.270	0.270	50.00	45.08		LINR	-9.8	
Benzo(a)anthracene	1.072	1.049	50.00	48.92		AVRG	-2.2	
Benzo(b)fluoranthene	1.141	1.176	50.00	51.51		AVRG	3.0	
Benzo(k)fluoranthene	1.177	1.159	50.00	49.24		AVRG	-1.5	
Benzo(g,h,i)perylene	0.580	0.650	50.00	56.03		AVRG	12.0	
Benzo(a)pyrene	0.953	0.969	50.00	50.83		AVRG	1.7	20.0
Benzyl alcohol	0.794	0.893	50.00	56.26		AVRG	12.5	
1,1'-Biphenyl	1.528	1.357	50.00	44.42		AVRG	-11.2	
bis(2-Chloroethoxy)methane	0.538	0.463	50.00	43.04		AVRG	-13.9	
bis(2-Chloroethyl)ether	1.719	1.580	50.00	45.95		AVRG	-8.1	
bis(2-Chloroisopropyl)ether	2.055	1.781	50.00	49.06		2ORDR	-1.9	
Bis(2-ethylhexyl)phthalate	1.347	1.380	50.00	51.26		AVRG	2.5	
4-Bromophenyl-phenylether	0.263	0.249	50.00	47.21		AVRG	-5.6	
Butylbenzylphthalate	1.034	1.102	50.00	53.29		AVRG	6.6	
Caprolactam	0.130	0.119	50.00	46.10		AVRG	-7.8	
Carbazole	1.032	0.986	50.00	47.77		AVRG	-4.4	
4-Chloroaniline	0.391	0.421	50.00	53.81		AVRG	7.6	
4-Chloro-3-methylphenol	0.308	0.312	50.00	50.64		AVRG	1.3	20.0
2-Chloronaphthalene	1.143	1.109	50.00	48.54		AVRG	-2.9	
2-Chlorophenol	1.332	1.277	50.00	64.57		2ORDR	29.1	
4-Chlorophenyl-phenylether	0.557	0.541	50.00	48.60		AVRG	-2.8	
Chrysene	0.991	1.006	50.00	50.74		AVRG	1.5	
Dibenz(a,h)anthracene	0.560	0.626	50.00	55.94		AVRG	11.9	
Dibenzofuran	1.599	1.468	50.00	45.90		AVRG	-8.2	
1,2-Dichlorobenzene	1.455	1.344	50.00	60.40		2ORDR	20.8	
1,4-Dichlorobenzene	1.514	1.368	50.00	45.18		AVRG	-9.6	20.0
1,3-Dichlorobenzene	1.674	1.445	50.00	43.16		AVRG	-13.7	
3,3'-Dichlorobenzidine	0.321	0.368	50.00	51.59		LINR	3.2	
2,4-Dichlorophenol	0.332	0.303	50.00	45.69		AVRG	-8.6	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050S Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.627	1.508	50.00	46.35		AVRG	-7.3	
2,4-Dimethylphenol	0.247	0.295	50.00	59.71		AVRG	19.4	
Dimethylphthalate	1.615	1.498	50.00	46.38		AVRG	-7.2	
Di-n-butylphthalate	1.887	1.709	50.00	45.30		AVRG	-9.4	
4,6-Dinitro-2-methylphenol	0.178	0.180	50.00	45.79		LINR	-8.4	
2,4-Dinitrophenol	0.184	0.208	50.00	45.74	0.050	LINR	-8.5	
2,4-Dinitrotoluene	0.488	0.480	50.00	49.08		AVRG	-1.8	
2,6-Dinitrotoluene	0.416	0.413	50.00	49.69		AVRG	-0.6	
1,2-Diphenylhydrazine	1.145	1.051	50.00	45.88		AVRG	-8.2	
Di-n-octylphthalate	3.019	2.967	50.00	49.15		AVRG	-1.7	20.0
Fluoranthene	1.117	1.007	50.00	45.09		AVRG	-9.8	20.0
Fluorene	1.273	1.201	50.00	47.16		AVRG	-5.7	
Hexachlorobenzene	0.264	0.255	50.00	48.30		AVRG	-3.4	
Hexachlorobutadiene	0.192	0.188	50.00	48.68		AVRG	-2.6	20.0
Hexachlorocyclopentadiene	0.223	0.227	50.00	49.18	0.050	LINR	-1.6	
Hexachloroethane	0.684	0.657	50.00	48.03		AVRG	-3.9	
Indeno(1,2,3-cd)pyrene	0.545	0.647	50.00	59.35		AVRG	18.7	
Isophorone	0.856	0.813	50.00	47.51		AVRG	-5.0	
1-Methylnaphthalene	0.596	0.511	50.00	42.88		AVRG	-14.2	
2-Methylnaphthalene	0.630	0.552	50.00	43.80		AVRG	-12.4	
3-Methylphenol	1.087	1.020	50.00	46.89		AVRG	-6.2	
4-Methylphenol	1.093	1.020	50.00	46.66		AVRG	-6.7	
2-Methylphenol	1.099	1.114	50.00	50.70		AVRG	1.4	
Naphthalene	0.959	0.884	50.00	56.29		2ORDR	12.6	
2-Nitroaniline	0.363	0.398	50.00	54.88		AVRG	9.8	
3-Nitroaniline	0.389	0.417	50.00	53.67		AVRG	7.3	
4-Nitroaniline	0.325	0.366	50.00	51.59		2ORDR	3.2	
Nitrobenzene	0.428	0.421	50.00	57.88		2ORDR	15.8	
2-Nitrophenol	0.275	0.281	50.00	51.10		AVRG	2.2	20.0
4-Nitrophenol	0.205	0.245	50.00	53.98	0.050	LINR	8.0	
N-Nitroso-di-methylamine	0.811	0.739	50.00	45.56		AVRG	-8.9	
N-Nitrosodiphenylamine(1)	0.646	0.619	50.00	47.95		AVRG	-4.1	20.0
N-Nitroso-di-n-propylamine	0.897	0.809	50.00	55.44	0.050	2ORDR	10.9	
Pentachlorophenol	0.143	0.181	50.00	55.30		LINR	10.6	20.0
Phenanthrene	1.062	0.960	50.00	45.24		AVRG	-9.5	
Phenol	1.876	1.552	50.00	52.94		2ORDR	5.9	20.0

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1156

Lab File ID: CCV050S Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.465	50.00	53.08		AVRG	6.2	
Pyridine	1.794	1.710	50.00	47.66		AVRG	-4.7	
1,2,4,5-Tetrachlorobenzene	0.296	0.284	50.00	47.93		AVRG	-4.1	
2,3,4,6-Tetrachlorophenol	0.226	0.341	50.00	67.29		2ORDR	34.6	
1,2,4-Trichlorobenzene	0.381	0.353	50.00	46.32		AVRG	-7.4	
2,4,5-Trichlorophenol	0.400	0.431	50.00	53.86		AVRG	7.7	
2,4,6-Trichlorophenol	0.383	0.416	50.00	54.33		AVRG	8.7	20.0
2-Fluorophenol	1.477	1.349	100.0	120.6		2ORDR	20.6	
Phenol-d6	1.711	1.471	100.0	110.7		2ORDR	10.7	
Nitrobenzene-d5	0.435	0.409	50.00	47.01		AVRG	-6.0	
2-Fluorobiphenyl	1.315	1.237	50.00	47.02		AVRG	-6.0	
2,4,6-Tribromophenol	0.128	0.136	100.0	105.7		AVRG	5.7	
Terphenyl-d14	0.914	1.030	50.00	56.35		AVRG	12.7	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1232

Lab File ID: CCVAP9SA Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 0800 1340

4/2/09

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.269	0.413	50.00	53.15		2ORDR	6.3	20.0
4-Aminobiphenyl	0.785	0.774	50.00	45.71		LINR	-8.6	20.0
m-Dinitrobenzene	0.210	0.293	50.00	54.17		LINR	8.3	20.0
Hexachloropropene	0.152	0.167	50.00	54.91		AVRG	9.8	20.0
Isodrin	0.174	0.195	50.00	56.10		AVRG	12.2	20.0
Kepone	0.072	0.110	50.00	64.65		LINR	29.3	20.0
5-Nitro-o-toluidine	0.347	0.454	50.00	51.70		2ORDR	3.4	20.0
Pentachlorobenzene	0.513	0.494	50.00	48.14		AVRG	-3.7	20.0
Pentachloronitrobenzene	0.070	0.086	50.00	52.86		LINR	5.7	20.0
Pentachloroethane	0.507	0.497	50.00	49.04	0.050	AVRG	-1.9	20.0
o-Toluidine	1.728	1.585	50.00	45.88		AVRG	-8.2	20.0
sym-Trinitrobenzene	0.123	0.221	50.00	60.77		2ORDR	21.5	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1309

Lab File ID: CCVAP9SB Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 1416 1906

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aramite	0.050	0.072	50.00	58.06		LINR	16.1	
Chlorobenzilate	0.282	0.387	50.00	55.44		2ORDR	10.9	
Diallate	0.444	0.381	100.0	85.89		AVRG	-14.1	
2,6-Dichlorophenol	0.283	0.282	50.00	49.89		AVRG	-0.2	
p-(Dimethylamino)azobenzene	0.201	0.259	50.00	53.40		LINR	6.8	
7,12-Dimethylbenz[a]anthrace	0.404	0.364	50.00	38.55		LINR	-22.9	
3,3'-Dimethylbenzidine	0.360	0.461	50.00	45.16		2ORDR	-9.7	
Dinoseb	0.056	0.175	50.00	34.46		2ORDR	-31.1	
Diphenylamine	0.952	0.967	50.00	50.79		AVRG	1.6	
Ethyl methanesulfonate	1.166	1.040	50.00	44.60		AVRG	-10.8	
Isosafrole	0.516	0.084	100.0	16.32		AVRG	-83.7	
Methapyrilene	0.418	0.521	50.00	47.33		LINR	-5.3	
3-Methylcholanthrene	0.436	0.474	50.00	45.32		2ORDR	-9.4	
Methyl methanesulfonate	0.754	0.589	50.00	39.01		AVRG	-22.0	
1,4-Naphthoquinone	0.326	0.215	50.00	29.11		2ORDR	-41.8	
1-Naphthylamine	0.932	0.814	50.00	43.68		AVRG	-12.6	
2-Naphthylamine	0.968	0.654	50.00	30.79		LINR	-38.4	
4-Nitroquinoline-1-oxide	0.011	0.030	50.00	35.10		2ORDR	-29.8	
N-Nitrosodi-n-butylamine	0.210	0.219	50.00	52.11		AVRG	4.2	
N-Nitrosodiethylamine	0.682	0.654	50.00	47.95		AVRG	-4.1	
N-Nitrosomethylethylamine	0.732	0.595	50.00	40.67		AVRG	-18.7	
N-Nitrosomorpholine	0.567	0.502	50.00	44.22		AVRG	-11.5	
N-Nitrosopiperidine	0.228	0.210	50.00	46.26		AVRG	-7.5	
N-Nitrosopyrrolidine	0.649	0.714	50.00	54.98		AVRG	10.0	
Phenacetin	0.339	0.413	50.00	51.41		LINR	2.8	
2-Picoline	1.524	1.297	50.00	42.54		AVRG	-14.9	
Pronamide	0.287	0.396	50.00	56.15		LINR	12.3	
Safrole	0.250	0.250	50.00	49.95		AVRG	-0.1	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 03/31/09 Time: 1345

Lab File ID: CCVAP9SC Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Dimethoate	0.222	0.311	50.00	69.84		AVRG	39.7	20.0
a,a-Dimethyl-phenethylamine	0.605	0.638	125.0	131.7		AVRG	5.4	20.0
Disulfoton	0.361	0.444	50.00	55.36		2ORDR	10.7	20.0
Famphur	0.138	0.281	50.00	228.4		2ORDR	356.7	20.0
Hexachlorophene	0.036	0.026	250.0	204.0		2ORDR	-18.4	20.0
Methyl parathion	0.144	0.438	50.00	77.95		2ORDR	55.9	20.0
Parathion	0.106	0.263	50.00	75.05		2ORDR	50.1	20.0
p-Phenylenediamine	0.112	0.028	125.0	28.84		2ORDR	-76.9	20.0
Phorate	0.482	0.570	50.00	59.08		AVRG	18.2	20.0
Sulfotepp	0.122	0.164	50.00	66.89		AVRG	33.8	20.0
Thionazin	0.156	0.217	50.00	61.75		2ORDR	23.5	20.0
O,O,O-Triethylphosphorothioa	0.120	0.139	50.00	58.16		AVRG	16.3	20.0

4/2/09

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.125	1.189	50.00	52.85		AVRG	5.7	20.0
Acenaphthylene	1.543	1.696	50.00	54.93		AVRG	9.9	
Acetophenone	1.494	1.234	50.00	41.31		AVRG	-17.4	
Aniline	1.262	1.159	50.00	82.74		2ORDR	65.5	
Anthracene	1.052	0.959	50.00	45.59		AVRG	-8.8	
Atrazine	0.236	0.206	50.00	43.62		AVRG	-12.8	
Benzaldehyde	1.178	1.123	50.00	47.68		AVRG	-4.6	
Benzidine	0.591	0.570	50.00	48.24		AVRG	-3.5	
Benzoic acid	0.270	0.233	50.00	39.09		LINR	-21.8	
Benzo(a)anthracene	1.072	1.066	50.00	49.72		AVRG	-0.6	
Benzo(b)fluoranthene	1.141	1.208	50.00	52.93		AVRG	5.8	
Benzo(k)fluoranthene	1.177	1.170	50.00	49.70		AVRG	-0.6	
Benzo(g,h,i)perylene	0.580	0.741	50.00	63.87		AVRG	27.7	
Benzo(a)pyrene	0.953	1.027	50.00	53.86		AVRG	7.7	20.0
Benzyl alcohol	0.794	0.812	50.00	51.17		AVRG	2.3	
1,1'-Biphenyl	1.528	1.494	50.00	48.91		AVRG	-2.2	
bis(2-Chloroethoxy)methane	0.538	0.457	50.00	42.48		AVRG	-15.0	
bis(2-Chloroethyl)ether	1.719	1.465	50.00	42.60		AVRG	-14.8	
bis(2-Chloroisopropyl)ether	2.055	1.698	50.00	45.93		2ORDR	-8.1	
Bis(2-ethylhexyl)phthalate	1.347	1.337	50.00	49.63		AVRG	-0.7	
4-Bromophenyl-phenylether	0.263	0.225	50.00	42.66		AVRG	-14.7	
Butylbenzylphthalate	1.034	1.052	50.00	50.89		AVRG	1.8	
Caprolactam	0.130	0.128	50.00	49.62		AVRG	-0.8	
Carbazole	1.032	0.910	50.00	44.05		AVRG	-11.9	
4-Chloroaniline	0.391	0.394	50.00	50.33		AVRG	0.7	
4-Chloro-3-methylphenol	0.308	0.283	50.00	45.96		AVRG	-8.1	20.0
2-Chloronaphthalene	1.143	1.119	50.00	48.98		AVRG	-2.0	
2-Chlorophenol	1.332	1.239	50.00	61.85		2ORDR	23.7	
4-Chlorophenyl-phenylether	0.557	0.622	50.00	55.82		AVRG	11.6	
Chrysene	0.991	1.034	50.00	52.19		AVRG	4.4	
Dibenz(a,h)anthracene	0.560	0.710	50.00	63.34		AVRG	26.7	
Dibenzofuran	1.599	1.626	50.00	50.86		AVRG	1.7	
1,2-Dichlorobenzene	1.455	1.209	50.00	51.53		2ORDR	3.1	
1,4-Dichlorobenzene	1.514	1.371	50.00	45.30		AVRG	-9.4	20.0
1,3-Dichlorobenzene	1.674	1.421	50.00	42.46		AVRG	-15.1	
3,3'-Dichlorobenzidine	0.321	0.422	50.00	59.05		LINR	18.1	
2,4-Dichlorophenol	0.332	0.321	50.00	48.44		AVRG	-3.1	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.627	1.696	50.00	52.14		AVRG	4.3	
2,4-Dimethylphenol	0.247	0.274	50.00	55.44		AVRG	10.9	
Dimethylphthalate	1.615	1.652	50.00	51.14		AVRG	2.3	
Di-n-butylphthalate	1.887	1.657	50.00	43.92		AVRG	-12.2	
4,6-Dinitro-2-methylphenol	0.178	0.162	50.00	41.66		LINR	-16.7	
2,4-Dinitrophenol	0.184	0.210	50.00	46.13	0.050	LINR	-7.7	
2,4-Dinitrotoluene	0.488	0.534	50.00	54.66		AVRG	9.3	
2,6-Dinitrotoluene	0.416	0.443	50.00	53.22		AVRG	6.4	
1,2-Diphenylhydrazine	1.145	0.974	50.00	42.53		AVRG	-14.9	
Di-n-octylphthalate	3.019	2.811	50.00	46.56		AVRG	-6.9	20.0
Fluoranthene	1.117	0.942	50.00	42.16		AVRG	-15.7	20.0
Fluorene	1.273	1.324	50.00	52.00		AVRG	4.0	
Hexachlorobenzene	0.264	0.242	50.00	45.90		AVRG	-8.2	
Hexachlorobutadiene	0.192	0.173	50.00	44.90		AVRG	-10.2	20.0
Hexachlorocyclopentadiene	0.223	0.262	50.00	56.68	0.050	LINR	13.4	
Hexachloroethane	0.684	0.632	50.00	46.23		AVRG	-7.5	
Indeno(1,2,3-cd)pyrene	0.545	0.702	50.00	64.45		AVRG	28.9	
Isophorone	0.856	0.820	50.00	47.92		AVRG	-4.1	
1-Methylnaphthalene	0.596	0.525	50.00	44.09		AVRG	-11.8	
2-Methylnaphthalene	0.630	0.521	50.00	41.33		AVRG	-17.3	
3-Methylphenol	1.087	1.010	50.00	46.44		AVRG	-7.1	
4-Methylphenol	1.093	1.010	50.00	46.22		AVRG	-7.6	
2-Methylphenol	1.099	1.095	50.00	49.83		AVRG	-0.3	
Naphthalene	0.959	0.870	50.00	54.89		2ORDR	9.8	
2-Nitroaniline	0.363	0.397	50.00	54.73		AVRG	9.5	
3-Nitroaniline	0.389	0.454	50.00	58.36		AVRG	16.7	
4-Nitroaniline	0.325	0.410	50.00	57.17		2ORDR	14.3	
Nitrobenzene	0.428	0.388	50.00	51.75		2ORDR	3.5	
2-Nitrophenol	0.275	0.270	50.00	49.03		AVRG	-1.9	20.0
4-Nitrophenol	0.205	0.276	50.00	60.51	0.050	LINR	21.0	
N-Nitroso-di-methylamine	0.811	0.774	50.00	47.71		AVRG	-4.6	
N-Nitrosodiphenylamine(1)	0.646	0.586	50.00	45.41		AVRG	-9.2	20.0
N-Nitroso-di-n-propylamine	0.897	0.776	50.00	51.97	0.050	2ORDR	3.9	
Pentachlorophenol	0.143	0.161	50.00	49.96		LINR	-0.1	20.0
Phenanthrene	1.062	0.965	50.00	45.43		AVRG	-9.1	
Phenol	1.876	1.513	50.00	51.11		2ORDR	2.2	20.0

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1403

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.392	50.00	50.44		AVRG	0.9	
Pyridine	1.794	1.583	50.00	44.12		AVRG	-11.8	
1,2,4,5-Tetrachlorobenzene	0.296	0.276	50.00	46.54		AVRG	-6.9	
2,3,4,6-Tetrachlorophenol	0.226	0.359	50.00	70.93		2ORDR	41.9	
1,2,4-Trichlorobenzene	0.381	0.346	50.00	45.36		AVRG	-9.3	
2,4,5-Trichlorophenol	0.400	0.446	50.00	55.77		AVRG	11.5	
2,4,6-Trichlorophenol	0.383	0.432	50.00	56.33		AVRG	12.6	20.0
2-Fluorophenol	1.477	1.253	100.0	108.0		2ORDR	8.0	
Phenol-d6	1.711	1.470	100.0	110.6		2ORDR	10.6	
Nitrobenzene-d5	0.435	0.373	50.00	42.86		AVRG	-14.3	
2-Fluorobiphenyl	1.315	1.399	50.00	53.18		AVRG	6.4	
2,4,6-Tribromophenol	0.128	0.132	100.0	102.7		AVRG	2.7	
Terphenyl-d14	0.914	0.976	50.00	53.42		AVRG	6.8	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1439

Lab File ID: CCVAP9A Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 0800 1340

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.269	0.406	50.00	52.24		2ORDR	4.5	20.0
4-Aminobiphenyl	0.785	0.742	50.00	43.78		LINR	-12.4	20.0
m-Dinitrobenzene	0.210	0.273	50.00	50.40		LINR	0.8	20.0
Hexachloropropene	0.152	0.171	50.00	56.28		AVRG	12.6	20.0
Isodrin	0.174	0.228	50.00	65.58		AVRG	31.2	20.0
Kepone	0.072	0.110	50.00	64.52		LINR	29.0	20.0
5-Nitro-o-toluidine	0.347	0.424	50.00	48.03		2ORDR	-3.9	20.0
Pentachlorobenzene	0.513	0.476	50.00	46.44		AVRG	-7.1	20.0
Pentachloronitrobenzene	0.070	0.076	50.00	46.61		LINR	-6.8	20.0
Pentachloroethane	0.507	0.490	50.00	48.30	0.050	AVRG	-3.4	20.0
o-Toluidine	1.728	1.693	50.00	48.99		AVRG	-2.0	20.0
sym-Trinitrobenzene	0.123	0.208	50.00	57.46		2ORDR	14.9	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1516

Lab File ID: CCVAP9B Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 1416 1906

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aramite	0.050	0.072	50.00	57.97		LINR	15.9	
Chlorobenzilate	0.282	0.368	50.00	52.62		2ORDR	5.2	
Diallate	0.444	0.398	100.0	89.54		AVRG	-10.4	
2,6-Dichlorophenol	0.283	0.277	50.00	48.96		AVRG	-2.1	
p-(Dimethylamino)azobenzene	0.201	0.267	50.00	55.07		LINR	10.1	
7,12-Dimethylbenz[a]anthrace	0.404	0.393	50.00	41.56		LINR	-16.9	
3,3'-Dimethylbenzidine	0.360	0.523	50.00	52.29		2ORDR	4.6	
Dinoseb	0.056	0.177	50.00	33.04		2ORDR	-33.9	
Diphenylamine	0.952	0.970	50.00	50.91		AVRG	1.8	
Ethyl methanesulfonate	1.166	1.006	50.00	43.14		AVRG	-13.7	
Isosafrole	0.516	0.438	100.0	84.83		AVRG	-15.2	
Methapyrilene	0.418	0.551	50.00	50.10		LINR	0.2	
3-Methylcholanthrene	0.436	0.485	50.00	46.47		2ORDR	-7.0	
Methyl methanesulfonate	0.754	0.594	50.00	39.39		AVRG	-21.2	
1,4-Naphthoquinone	0.326	0.200	50.00	26.88		2ORDR	-46.2	
1-Naphthylamine	0.932	0.779	50.00	41.80		AVRG	-16.4	
2-Naphthylamine	0.968	0.617	50.00	29.06		LINR	-41.9	
4-Nitroquinoline-1-oxide	0.011	0.081	50.00	454.0		2ORDR	-99.9	
N-Nitrosodi-n-butylamine	0.210	0.218	50.00	51.99		AVRG	4.0	
N-Nitrosodiethylamine	0.682	0.610	50.00	44.75		AVRG	-10.5	
N-Nitrosomethylethylamine	0.732	0.652	50.00	44.56		AVRG	-10.9	
N-Nitrosomorpholine	0.567	0.525	50.00	46.27		AVRG	-7.4	
N-Nitrosopiperidine	0.228	0.193	50.00	42.44		AVRG	-15.1	
N-Nitrosopyrrolidine	0.649	0.680	50.00	52.37		AVRG	4.7	
Phenacetin	0.339	0.418	50.00	51.99		LINR	4.0	
2-Picoline	1.524	1.267	50.00	41.57		AVRG	-16.9	
Pronamide	0.287	0.404	50.00	57.36		LINR	14.7	
Safrole	0.250	0.238	50.00	47.38		AVRG	-5.2	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/01/09 Time: 1553

Lab File ID: CCVAP9C Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

4/20/09

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Dimethoate	0.222	0.327	50.00	73.42		AVRG	46.8	20.0
a,a-Dimethyl-phenethylamine	0.605	0.872	125.0	180.1		AVRG	44.1	20.0
Disulfoton	0.361	0.420	50.00	52.60		2ORDR	5.2	20.0
Famphur	0.138	0.318	50.00	283.3		2ORDR	466.6	20.0
Hexachlorophene	0.036	0.022	250.0	187.5		2ORDR	-25.0	20.0
Methyl parathion	0.144	0.429	50.00	77.86		2ORDR	55.7	20.0
Parathion	0.106	0.266	50.00	75.30		2ORDR	50.6	20.0
p-Phenylenediamine	0.112	0.028	125.0	29.63		2ORDR	-76.3	20.0
Phorate	0.482	0.540	50.00	56.04		AVRG	12.1	20.0
Sulfotepp	0.122	0.164	50.00	67.16		AVRG	34.3	20.0
Thionazin	0.156	0.210	50.00	59.87		2ORDR	19.7	20.0
O,O,O-Triethylphosphorothioa	0.120	0.144	50.00	60.06		AVRG	20.1	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 0915

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acenaphthene	1.125	1.105	50.00	49.13		AVRG	-1.7	20.0
Acenaphthylene	1.543	1.498	50.00	48.53		AVRG	-2.9	
Acetophenone	1.494	1.237	50.00	41.41		AVRG	-17.2	
Aniline	1.262	1.128	50.00	79.10		2ORDR	58.2	
Anthracene	1.052	0.978	50.00	46.49		AVRG	-7.0	
Atrazine	0.236	0.222	50.00	47.21		AVRG	-5.6	
Benzaldehyde	1.178	1.031	50.00	43.78		AVRG	-12.4	
Benzidine	0.591	0.434	50.00	36.76		AVRG	-26.5	
Benzoic acid	0.270	0.269	50.00	44.90		LINR	-10.2	
Benzo(a)anthracene	1.072	1.067	50.00	49.76		AVRG	-0.5	
Benzo(b)fluoranthene	1.141	1.296	50.00	56.80		AVRG	13.6	
Benzo(k)fluoranthene	1.177	1.284	50.00	54.51		AVRG	9.0	
Benzo(g,h,i)perylene	0.580	0.652	50.00	56.19		AVRG	12.4	
Benzo(a)pyrene	0.953	1.071	50.00	56.15		AVRG	12.3	20.0
Benzyl alcohol	0.794	0.843	50.00	53.11		AVRG	6.2	
1,1'-Biphenyl	1.528	1.310	50.00	42.87		AVRG	-14.2	
bis(2-Chloroethoxy)methane	0.538	0.453	50.00	42.12		AVRG	-15.8	
bis(2-Chloroethyl)ether	1.719	1.459	50.00	42.43		AVRG	-15.1	
bis(2-Chloroisopropyl)ether	2.055	1.675	50.00	45.10		2ORDR	-9.8	
Bis(2-ethylhexyl)phthalate	1.347	1.226	50.00	45.52		AVRG	-9.0	
4-Bromophenyl-phenylether	0.263	0.238	50.00	45.30		AVRG	-9.4	
Butylbenzylphthalate	1.034	0.991	50.00	47.90		AVRG	-4.2	
Caprolactam	0.130	0.152	50.00	58.94		AVRG	17.9	
Carbazole	1.032	1.007	50.00	48.79		AVRG	-2.4	
4-Chloroaniline	0.391	0.410	50.00	52.40		AVRG	4.8	
4-Chloro-3-methylphenol	0.308	0.323	50.00	52.47		AVRG	4.9	20.0
2-Chloronaphthalene	1.143	1.036	50.00	45.35		AVRG	-9.3	
2-Chlorophenol	1.332	1.167	50.00	56.88		2ORDR	13.8	
4-Chlorophenyl-phenylether	0.557	0.548	50.00	49.17		AVRG	-1.7	
Chrysene	0.991	0.980	50.00	49.47		AVRG	-1.0	
Dibenz(a,h)anthracene	0.560	0.634	50.00	56.66		AVRG	13.3	
Dibenzofuran	1.599	1.486	50.00	46.47		AVRG	-7.1	
1,2-Dichlorobenzene	1.455	1.306	50.00	57.83		2ORDR	15.6	
1,4-Dichlorobenzene	1.514	1.361	50.00	44.95		AVRG	-10.1	20.0
1,3-Dichlorobenzene	1.674	1.430	50.00	42.70		AVRG	-14.6	
3,3'-Dichlorobenzidine	0.321	0.386	50.00	54.08		LINR	8.2	
2,4-Dichlorophenol	0.332	0.329	50.00	49.58		AVRG	-0.8	20.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 0915

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Diethylphthalate	1.627	1.474	50.00	45.31		AVRG	-9.4	
2,4-Dimethylphenol	0.247	0.278	50.00	56.35		AVRG	12.7	
Dimethylphthalate	1.615	1.509	50.00	46.71		AVRG	-6.6	
Di-n-butylphthalate	1.887	1.681	50.00	44.54		AVRG	-10.9	
4,6-Dinitro-2-methylphenol	0.178	0.180	50.00	46.01		LINR	-8.0	
2,4-Dinitrophenol	0.184	0.200	50.00	44.10	0.050	LINR	-11.8	
2,4-Dinitrotoluene	0.488	0.502	50.00	51.36		AVRG	2.7	
2,6-Dinitrotoluene	0.416	0.406	50.00	48.82		AVRG	-2.4	
1,2-Diphenylhydrazine	1.145	1.045	50.00	45.62		AVRG	-8.8	
Di-n-octylphthalate	3.019	2.861	50.00	47.38		AVRG	-5.2	20.0
Fluoranthene	1.117	1.038	50.00	46.49		AVRG	-7.0	20.0
Fluorene	1.273	1.243	50.00	48.83		AVRG	-2.3	
Hexachlorobenzene	0.264	0.260	50.00	49.37		AVRG	-1.3	
Hexachlorobutadiene	0.192	0.189	50.00	49.14		AVRG	-1.7	20.0
Hexachlorocyclopentadiene	0.223	0.240	50.00	51.90	0.050	LINR	3.8	
Hexachloroethane	0.684	0.630	50.00	46.03		AVRG	-7.9	
Indeno(1,2,3-cd)pyrene	0.545	0.636	50.00	58.33		AVRG	16.6	
Isophorone	0.856	0.843	50.00	49.28		AVRG	-1.4	
1-Methylnaphthalene	0.596	0.532	50.00	44.64		AVRG	-10.7	
2-Methylnaphthalene	0.630	0.560	50.00	44.46		AVRG	-11.1	
3-Methylphenol	1.087	1.014	50.00	46.64		AVRG	-6.7	
4-Methylphenol	1.093	1.014	50.00	46.42		AVRG	-7.2	
2-Methylphenol	1.099	1.079	50.00	49.08		AVRG	-1.8	
Naphthalene	0.959	0.889	50.00	56.77		2ORDR	13.5	
2-Nitroaniline	0.363	0.397	50.00	54.75		AVRG	9.5	
3-Nitroaniline	0.389	0.423	50.00	54.41		AVRG	8.8	
4-Nitroaniline	0.325	0.380	50.00	53.38		2ORDR	6.8	
Nitrobenzene	0.428	0.413	50.00	56.37		2ORDR	12.7	
2-Nitrophenol	0.275	0.278	50.00	50.48		AVRG	1.0	20.0
4-Nitrophenol	0.205	0.230	50.00	50.72	0.050	LINR	1.4	
N-Nitroso-di-methylamine	0.811	0.776	50.00	47.81		AVRG	-4.4	
N-Nitrosodiphenylamine(1)	0.646	0.619	50.00	47.96		AVRG	-4.1	20.0
N-Nitroso-di-n-propylamine	0.897	0.793	50.00	53.77	0.050	2ORDR	7.5	
Pentachlorophenol	0.143	0.188	50.00	57.15		LINR	14.3	20.0
Phenanthrene	1.062	0.976	50.00	45.98		AVRG	-8.0	
Phenol	1.876	1.508	50.00	50.86		2ORDR	1.7	20.0

(1) Cannot be separated from Diphenylamine

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 0915

Lab File ID: CCV050 Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Pyrene	1.380	1.358	50.00	49.20		AVRG	-1.6	
Pyridine	1.794	1.663	50.00	46.34		AVRG	-7.3	
1,2,4,5-Tetrachlorobenzene	0.296	0.290	50.00	49.00		AVRG	-2.0	
2,3,4,6-Tetrachlorophenol	0.226	0.332	50.00	65.35		2ORDR	30.7	
1,2,4-Trichlorobenzene	0.381	0.352	50.00	46.21		AVRG	-7.6	
2,4,5-Trichlorophenol	0.400	0.407	50.00	50.87		AVRG	1.7	
2,4,6-Trichlorophenol	0.383	0.394	50.00	51.47		AVRG	2.9	20.0
2-Fluorophenol	1.477	1.300	100.0	114.2		2ORDR	14.2	
Phenol-d6	1.711	1.436	100.0	107.1		2ORDR	7.1	
Nitrobenzene-d5	0.435	0.404	50.00	46.37		AVRG	-7.2	
2-Fluorobiphenyl	1.315	1.300	50.00	49.43		AVRG	-1.1	
2,4,6-Tribromophenol	0.128	0.144	100.0	111.8		AVRG	11.8	
Terphenyl-d14	0.914	0.870	50.00	47.62		AVRG	-4.8	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 0951

Lab File ID: CCVAP9A Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 0800 1340

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
2-Acetylaminofluorene	0.269	0.418	50.00	53.83		2ORDR	7.7	20.0
4-Aminobiphenyl	0.785	0.770	50.00	45.46		LINR	-9.1	20.0
m-Dinitrobenzene	0.210	0.289	50.00	53.37		LINR	6.7	20.0
Hexachloropropene	0.152	0.175	50.00	57.72		AVRG	15.4	20.0
Isodrin	0.174	0.202	50.00	57.93		AVRG	15.9	20.0
Kepone	0.072	0.100	50.00	58.43		LINR	16.9	20.0
5-Nitro-o-toluidine	0.347	0.459	50.00	52.26		2ORDR	4.5	20.0
Pentachlorobenzene	0.513	0.487	50.00	47.50		AVRG	-5.0	20.0
Pentachloronitrobenzene	0.070	0.085	50.00	52.02		LINR	4.0	20.0
Pentachloroethane	0.507	0.503	50.00	49.63	0.050	AVRG	-0.7	20.0
o-Toluidine	1.728	1.729	50.00	50.04		AVRG	0.1	20.0
sym-Trinitrobenzene	0.123	0.237	50.00	64.87		2ORDR	29.7	20.0

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 1027

Lab File ID: CCVAP9B Init. Calib. Date(s): 07/25/08 07/25/08

Init. Calib. Times: 1416 1906

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Aramite	0.050	0.066	50.00	53.13		LINR	6.2	
Chlorobenzilate	0.282	0.362	50.00	51.84		2ORDR	3.7	
Diallate	0.444	0.378	100.0	85.05		AVRG	-14.9	
2,6-Dichlorophenol	0.283	0.276	50.00	48.70		AVRG	-2.6	
p-(Dimethylamino)azobenzene	0.201	0.248	50.00	51.17		LINR	2.3	
7,12-Dimethylbenz[a]anthrace	0.404	0.410	50.00	43.32		LINR	-13.4	
3,3'-Dimethylbenzidine	0.360	0.471	50.00	46.27		2ORDR	-7.5	
Dinoseb	0.056	0.191	50.00	25.13		2ORDR	-49.7	
Diphenylamine	0.952	0.902	50.00	47.36		AVRG	-5.3	
Ethyl methanesulfonate	1.166	1.088	50.00	46.68		AVRG	-6.6	
Isosafrole	0.516	0.442	100.0	85.58		AVRG	-14.4	
Methapyrilene	0.418	0.492	50.00	44.74		LINR	-10.5	
3-Methylcholanthrene	0.436	0.473	50.00	45.28		2ORDR	-9.4	
Methyl methanesulfonate	0.754	0.640	50.00	42.41		AVRG	-15.2	
1,4-Naphthoquinone	0.326	0.203	50.00	27.35		2ORDR	-45.3	
1-Naphthylamine	0.932	0.764	50.00	40.99		AVRG	-18.0	
2-Naphthylamine	0.968	0.602	50.00	28.33		LINR	-43.3	
4-Nitroquinoline-1-oxide	0.011	0.042	50.00	16.65		2ORDR	-99.9	
N-Nitrosodi-n-butylamine	0.210	0.232	50.00	55.30		AVRG	10.6	
N-Nitrosodiethylamine	0.682	0.632	50.00	46.38		AVRG	-7.2	
N-Nitrosomethylethylamine	0.732	0.585	50.00	40.00		AVRG	-20.0	
N-Nitrosomorpholine	0.567	0.550	50.00	48.50		AVRG	-3.0	
N-Nitrosopiperidine	0.228	0.215	50.00	47.28		AVRG	-5.4	
N-Nitrosopyrrolidine	0.649	0.740	50.00	56.97		AVRG	13.9	
Phenacetin	0.339	0.387	50.00	48.13		LINR	-3.7	
2-Picoline	1.524	1.318	50.00	43.24		AVRG	-13.5	
Pronamide	0.287	0.382	50.00	54.24		LINR	8.5	
Safrole	0.250	0.256	50.00	51.08		AVRG	2.2	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH-MAYPORT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: MAYPORT_004

Instrument ID: BNA1 Calibration Date: 04/06/09 Time: 1103

Lab File ID: CCVAP9C Init. Calib. Date(s): 07/24/08 03/04/09

Init. Calib. Times: 1046 0451

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Dimethoate	0.222	0.326	50.00	73.15		AVRG	46.3	20.0
a,a-Dimethyl-phenethylamine	0.605	0.923	125.0	190.6		AVRG	52.5	20.0
Disulfoton	0.361	0.428	50.00	53.49		2ORDR	7.0	20.0
Famphur	0.138	0.309	50.00	268.9		2ORDR	437.9	20.0
Hexachlorophene	0.036	0.030	250.0	219.0		2ORDR	-12.4	20.0
Methyl parathion	0.144	0.404	50.00	77.29		2ORDR	54.6	20.0
Parathion	0.106	0.263	50.00	75.05		2ORDR	50.1	20.0
p-Phenylenediamine	0.112	0.029	125.0	30.29		2ORDR	-75.8	20.0
Phorate	0.482	0.559	50.00	57.98		AVRG	16.0	20.0
Sulfotepp	0.122	0.168	50.00	68.77		AVRG	37.5	20.0
Thionazin	0.156	0.231	50.00	65.24		2ORDR	30.5	20.0
O,O,O-Triethylphosphorothioa	0.120	0.142	50.00	59.66		AVRG	19.3	20.0

Fraction: BNA/PAH/LLPAHs Matrix: Water EX096 Empirical Laboratories Supervisor

#	Client	Lab No.	Initial Volume(ml)	Date Extracted	Setup Initials	pH	Final Volume(ml)	Surrogate Added	Surr Initials	Spike Added	Spk Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor Methylene Chloride	Notes/Comments	#
1	Hopkinsville	0904017-01	900	10:45	KMV	7	1.0	0.5	KMV	NA	NA	P10	NA	NA	KMV	086958	A	1
2	GRI	0904022-01	1000	4/3/09		6		090041		NA	NA	P1					B	2
3	↓	0904024-01	1000	0B02836						NA	NA	RR10					A	3
4	Tetra Tech	0904026-01	1080							NA	NA	R30					D	4
5	ARVIA	0904029-18	1060							NA	NA	V7					A	5
6		-19	1070							NA	NA	RH8					B	6
7		-20	1040							NA	NA	L8					A	7
8		-21	1060							NA	NA	RL6					B	8
9	↓	-22	~~1080~~ 1000 KMV	↓	↓	↓	↓	↓	↓	NA	NA	R20	↓	↓	↓	↓	A centrifuged before extraction	9
10										NA	NA							10
11										NA	NA							11
12										NA	NA							12
13										NA	NA							13
14										NA	NA							14
15										NA	NA							15
16	BW									NA	NA							16
17										NA	NA							17
18										NA	NA							18
19										NA	NA							19
20										NA	NA							20
	MB	1-9	1000	SAS	KMV	NA	1.0	SAS	SAS	—	KMV	RR32	NA	NA	KMV	SAS		
	LCS	↓	↓	↓	↓	↓	↓	SAS	SAS	LCS	↓	R25	↓	↓	↓	SAS		
	LCSD	↓	↓	↓	↓	↓	↓	SAS	SAS	090270	↓	P25	↓	↓	↓	SAS		
								SAS	SAS	090354						SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		
								SAS	SAS							SAS		

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Fraction: Semi-volatiles Matrix: Soil Empirical Laboratories Level: Low/Soxhlet/Medium (circle one) Microactive Supervisor

#	Client	Lab No.	Initial Weight	Date Extracted	Setup Initials	Final Volume	Surrogate Added	Surr. Initials	Spike Added	Spk Initials	Sox.	Thimble	TV	Transf. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Acetone	Notes/Comments
1	Tetra Tech	0903251-01	15.0	9C19016	GI	1.0	0.5	AC	NA	NA	N/A	N/A	R38	GI	086697	N/A	
2		-03		3/20/09			SV4746		NA	NA			PR44				
3		-05		14:40					NA	NA			PR4				
4		-07							NA	NA			PR6				
5		-09							NA	NA			R48				
6		-11							NA	NA			PR14				
7		-13							NA	NA			R22				
8		-15							NA	NA			PR41				
9		-17							NA	NA			PR8				
10		-19							NA	NA			PR7				
11		0903262-01							NA	NA			R20				
12		-03							NA	NA			R31				
13		-05							NA	NA			P131				
14		-07							NA	NA			P139				
15		-09							NA	NA			P133				
16		-11							NA	NA			P4				
17		-13							NA	NA			P1				
18		-15							NA	NA			P113				
19		-17							NA	NA			P8				
20		-19							NA	NA			EL2				
	MB	1-20	15.0	SAS	GI	1.0	SAS	SAS	—	—	N/A	N/A	B23	GI	SAS	SAS	
	LCS	↓					SAS	SAS	0.5	AF			R12		SAS	SAS	
	MS	0903262-01					SAS	SAS	09C0070				R40		SAS	SAS	
	MSD	↓					SAS	SAS	09C0154	↓	↓	↓	PR35	↓	SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	
							SAS	SAS							SAS	SAS	

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample # Log #'s	Fraction	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reason for Inserting/Removal: Screening/ Cleanup	Re-Analysis	Analysis	Dilution	Blank Inserted	Extraction Completed
3215-01, 3311:01 3188-07	PCB	3/31/09 WL 5:20	3/31/09 WL 5:00 3/31/09		X				
3261-1, 3, 5, 7, 9, 11, 13, 15, 17, 19	FL PRO	L.M. 3/31/05 5:30pm	L.M. 3/31/09 5:00pm			X			
3251-1, 3, 5, 7, 9, 11, 13 17, 19,	BNA	5:45 4/1/09 M	6:10 4/1/09 M			✓			
3262-3, 9, 11, 13, 15, 17, 19	↓	↓ ↓ ↓	↓			✓			
03332-01-05	EXP	KMV KMV 4/1/09 10:13							X
03360-911; 03365-02-08	EXP	KMV 4/1/09 14:45							X
3188-18, 08 3281-1	HERB	L.M. 4/1/09 5:15 pm	L.M. 4/1/09 5:00pm		X				
3262-1, 3, 5, 7, 9, 11, 13 15, 17, 19	FL PRO	L.M. 4/2/09 8:40AM	L.M. 4/2/09 8:30AM			X			
3251-21	↓	↓	↓			X			
03288-1-20	DRO		AF 4/2/09 10:52 taken to analyst			X			
3052-9 3052-12, 13 ~~3188-1; 320~~	EXP		L.M. 12:00pm 4/2/09			X			
3188-1; 3205-7-9 3208-2-6; 3221-2-4 3211-1-5, 7	EXP	L.M. 4/2/09 12:30 pm							
3286-9 3296-2, -8 3302-2-8	EXP	L.M. 4/2/09 2:00pm	L.M. 1:30pm 4/2/09			X			
03309-1 3310-1-5 3313-2-10	↓	↓	↓			↓			
03345-1	BNA	AF 4/2/09 15:00							Y

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #s	Fraction	Time/Date/Initials Inserted	Time/Date/Initials Removed	Screening/ Cleanup	Re-Analysis	Analysis	Dilution	Inserted in Error	Extract Expired/ Extraction Completed
04026-01	F-Pro	KMV 4/6/09 14:50							X
3219·1-4; 3234·1-2 3263·1-2; 3285·1-5	EXPL	[initials] 2:45 4/6/09	[initials] 2:30 pm 4/6/09			X			
04030-1; 04031-1; 04032-1, 04037-1; 04038-01,2; 04040-2,4,5; 04044-01	BNA	KMV 4/6/09 15:30							X
3293·1-3; 3301·1-2 3312·1-4	EXPL	[initials] 3:20 4/6/09	[initials] 2:50pm 4/6/09			X			
04019-2-6; 04020-1,2; 04043-1-11	Exp	KMV 4/6/09 17:10							X
4014·1	PCB	[initials] 4/7/09 9:20 AM	[initials] 4/7/09 9:00 AM			X			
4030-1, 4031-1, 4032-1, 4037-1,	BNA	5:30 4/8/9 M	10:00 4/7/9 M			✓			
4038-1,2 4040-2,4,5	↓	↓	↓			✓			
4044-1	↓	↓	↓			✓			
3345-4	Herb	4/07/09 WL 1:15p	4/07/09 WL 1:00p			✓			
04046-24, 29-32, 36; 04047-02; 04052-01-3; 08-11, 14, 15, 17, 18	BNA	KMV 4/7/09 15:05							X
04055-04-13 X KMV	BNA	KMV 4/8/09 17:45							X
04046-01-04; 04047-01; 04052-20-29	BNA	↓							X
3281·1; 3345·1; 3302·2-8 3265·1; 3268·1-8; 3286·1-5; 3286·6-9	PEST	[initials] 4/8/09 2:00pm	[initials] 4/8/09 1:00pm			X			
3289·1-4; 3296·2-8	↓	↓	↓			↓			

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3214-14 3234-1,2	G.I 9:00 3/20/09	AF 3/20/09 16:00		PeSt
3251-1,3,5,6,7,9,11,13, 15,17,19, 3262-1-19	↓	↓		BNA
↓	↓	↓		FLPRO
3135-03 3122-03	VM 3/20/09 9:07	3-20-09 12:30 VM		CN
3162-01-20 3163-01,02	10:30 KBG 3/20/09	12:00 KBG 3/20/09		% Solids
03036-1	AF 10:55 3/20/09	AF 3/20/09 16:00		PesT
3134 (1-7) 3179-01	3-21-09 8:00AM	—	Hold A-viole	UOA
P138(25-27)	3-23-09 7:15AM			UOA
03288-1-20	G1 3/23/09 9:30	G1 3/23/09 11:10		BNA
03250-SS-6.1	↓	↓		DRO
3179+3187-03/07	RF 3/23/09 10:07	3/23/09 11:00		METALS
3281-01	3-23-09 VM 1045	3-23-09 VM 1630		pH
3207-01 3234 3214-01-04	11:10 3/23/09 RF	11:25 3/23/09		METALS
3263+3285	11:30 3/23/09 RF	12:45 3/23/09		METALS
03214-1-4 03285-1-5 03234-1-2 03263-1-2	AF 11:45 3/23/09	AF 3/23/09 16:50		EXP
3179+3187	RF 3/23/09 1:37PM	2:04 3/23/09 RF		METALS
0403214 14-27 0403223 01-03	JC 3/23/09 14:33	3/23/09 16:42 JC		TCLP
03188-6-7	MS 3/24/09 08:05			PesT/PCB
3251	RF 3/24/09 10:33	3/24/09 12:27		Metals
3262 3293-01-03	12:27 3/24/09	3/24/09 2:00		

Chromatographic flags for Manual Integrations

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.

C: The peak was manually integrated to correct the baseline from the original chromatogram.

D: The peak was manually integrated to identify the correct peak. The wrong peak was identified in the original.

E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

Sequence ID	File ID	Analyte	Code
030309B1	CAL001	3-Methylphenol	D
030309B1	CAL001	4-Methylphenol	D
030309B1	CAL001	Hexachlorocyclopentadiene	A
030309B1	CAL002	3-Methylphenol	D
030309B1	CAL002	4-Methylphenol	D
030309B1	CAL002	Benzoic acid	A
030309B1	CAL002	4-Nitrophenol	A
030309B1	CAL002	Pentachlorophenol	A
030309B1	CAL005	Benzoic acid	A
030309B1	CAL005	2,4-Dinitrophenol	E
030309B1	CAL005	4-Nitrophenol	C
030309B1	CAL005	Pentachlorophenol	E
030309B1	CAL010	Benzoic acid	A
030309B1	CAL020	Benzoic acid	A
030309B1	CAL060	3-Methylphenol	D
030309B1	CAL060	4-Methylphenol	D
030309B1	CAL080	3-Methylphenol	D
030309B1	CAL080	4-Methylphenol	D
030309B1	CAL100	3-Methylphenol	D
030309B1	CAL100	4-Methylphenol	D
030309B1	CALB001	3,3'-Dichlorobenzidine	A
030309B1	ICV03	3,3'-Dichlorobenzidine	A

Sequence Name: C:\HPCHEM\1\SEQUENCE\030309B1.S
Comment: clp/8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\030309B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7393
M
3/3/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	DF0303B1	DFTPPBN1	DF0303B1;;;;;SV4242 16:49, 3/3
2	ICal	2	CAL001	IXBN1	BNACAL001PPM;;;;;;SV4703-2
3	ICal	3	CAL002	IXBN1	BNACAL002PPM;;;;;;SV4703-3
4	ICal	4	CAL005	IXBN1	BNACAL005PPM;;;;;;SV4703-4
5	ICal	5	CAL010	IXBN1	BNACAL010PPM;;;;;;SV4703-5
6	ICal	6	CAL020	IXBN1	BNACAL020PPM;;;;;;SV4703-6
7	ICal	7	CAL040	IXBN1	BNACAL040PPM;;;;;;SV4703-7
8	ICal	8	CAL050	IXBN1	BNACAL050PPM;;;;;;SV4703-8
9	ICal	9	CAL060	IXBN1	BNACAL060PPM;;;;;;SV4703-9
10	ICal	10	CAL080	IXBN1	BNACAL080PPM;;;;;;SV4703-10
11	ICal	11	CAL100	IXBN1	BNACAL100PPM;;;;;;SV4703-11
12	ICal	12	CALB001	IXBN1	BNACAL001PPM;;;;;;SV4690A
13	ICal	13	CALB002	IXBN1	BNACAL002PPM;;;;;;SV4690B
14	ICal	14	CALB005	IXBN1	BNACAL005PPM;;;;;;SV4671-1
15	ICal	15	CALB010	IXBN1	BNACAL010PPM;;;;;;SV4671-2
16	ICal	16	CALB020	IXBN1	BNACAL020PPM;;;;;;SV4671-3
17	ICal	17	CALB040	IXBN1	BNACAL040PPM;;;;;;SV4671-5
18	ICal	18	CALB050	IXBN1	BNACAL050PPM;;;;;;SV4671-6
19	ICal	19	CALB060	IXBN1	BNACAL060PPM;;;;;;SV4671-7
20	ICal	20	CALB080	IXBN1	BNACAL080PPM;;;;;;SV4671-9
21	Sample	1	DF0303B2	DFTPPBN1	DF0303B2;;;;;SV4755 4:39, 3/4
22	ICal	21	CALB100	IXBN1	BNACAL100PPM;;;;;;SV4671-10
23	QC	22	ICV01	IXBN1	BNAICV050PPM;;;;;;SV4704(LCS1)
24	QC	23	ICV02	IXBN1	BNAICV050PPM;;;;;;SV4705(LCS2)
25	QC	24	ICV03	IXBN1	BNAICV050PPM;;;;;;SV4677
26	QC	25	ICV01A	IXBN1	BNAICV050PPM;;;;;;SV4651(LCS1)
27	QC	26	ICV02A	IXBN1	BNAICV050PPM;;;;;;SV4754(LCS2)
28	QC	27	ICV01C	IXBN1	BNAICV050PPM;;;;;;SV4653(LCS1)
29	Sample	100	BNACCV	IXBN1	BNACCV050PPM;;;;;;SV4756
30	QC	28	MDLW1	IXBN1	MDLCHK1;;;;;;5UL
31	QC	29	MDLW2	IXBN1	MDLCHK2;;;;;;10UL
32	QC	30	MDLW3	IXBN1	MDLCHK3;;;;;;20UL
33	QC	31	MDLW4	IXBN1	MDLCHK4;;;;;;50UL
34	QC	32	MDLS1	IXBN1	MDLCHK1;;;;;;
35	QC	33	MDLS2	IXBN1	MDLCHK2;;;;;;
36	QC	34	MDLS3	IXBN1	MDLCHK3;;;;;;
37	QC	35	MDLS4	IXBN1	MDLCHK4;;;;;;

```
Sequence Name: C:\HPCHEM\1\SEQUENCE\030309B1.S
      Comment: clp/8270/625
     Operator: ADM
    Data Path: C:\HPCHEM\1\DATA\030309B1.b\
  Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run          On A Barcode Mismatch
 (X) Full Method                  (X) Inject Anyway
 ( ) Reprocessing Only            ( ) Don't Inject

-------------------------------------------------------------------------------
Line                    Sample Name/Misc Info
-------------------------------------------------------------------------------
1   Type: Sample        DF0303B1;;;;;SV4242
    Vial: 1             ;;;;;;all.sub;
    Meth: DFTPPBN1.M    Barcode:
    Data: DF0303B1.D    Samp Amt: 0          Multiplr: 1
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
2   Type: ICal          BNACAL001PPM;;;;;;SV4703-2
    Vial: 2             ;1;;;1;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL001.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
3   Type: ICal          BNACAL002PPM;;;;;;SV4703-3
    Vial: 3             ;1;;;2;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL002.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
4   Type: ICal          BNACAL005PPM;;;;;;SV4703-4
    Vial: 4             ;1;;;3;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL005.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
5   Type: ICal          BNACAL010PPM;;;;;;SV4703-5
    Vial: 5             ;1;;;4;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL010.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
6   Type: ICal          BNACAL020PPM;;;;;;SV4703-6
    Vial: 6             ;1;;;5;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL020.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
7   Type: ICal          BNACAL040PPM;;;;;;SV4703-7
    Vial: 7             ;1;;;7;;ppbna3.sub;4092
    Meth: IXBN1.M       Barcode:
    Data: CAL040.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default           Lib. Search Rep.:Default
    Quant Report      :Default           Post-Quant Macro:Default
    CR Database       :Default           CR Spreadsheet  :Default
-------------------------------------------------------------------------------
8   Type: ICal          BNACAL050PPM;;;;;;SV4703-8
    Vial: 8             ;1;;;8;;ppbna3.sub;4052
    Meth: IXBN1.M       Barcode:

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 1
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7394

```
      Data: CAL050.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9    Type: ICal          BNACAL060PPM;;;;;;SV4703-9
      Vial: 9             ;1;;;9;;ppbna3.sub;4092
      Meth: IXBN1.M       Barcode:
      Data: CAL060.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 10   Type: ICal          BNACAL080PPM;;;;;;SV4703-10
      Vial: 10            ;1;;;11;;ppbna3.sub;4092
      Meth: IXBN1.M       Barcode:
      Data: CAL080.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 11   Type: ICal          BNACAL100PPM;;;;;;SV4703-11
      Vial: 11            ;1;;;13;;ppbna3.sub;4092
      Meth: IXBN1.M       Barcode:
      Data: CAL100.D      LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 12   Type: ICal          BNACAL001PPM;;;;;;SV4690A
      Vial: 12            ;1;;;1;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB001.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 13   Type: ICal          BNACAL002PPM;;;;;;SV4690B
      Vial: 13            ;1;;;2;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB002.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 14   Type: ICal          BNACAL005PPM;;;;;;SV4671-1
      Vial: 14            ;1;;;3;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB005.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 15   Type: ICal          BNACAL010PPM;;;;;;SV4671-2
      Vial: 15            ;1;;;4;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB010.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 16   Type: ICal          BNACAL020PPM;;;;;;SV4671-3
      Vial: 16            ;1;;;5;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB020.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
      Area% Report       :Default          Lib. Search Rep.:Default
      Quant Report       :Default          Post-Quant Macro:Default
      CR Database        :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 17   Type: ICal          BNACAL040PPM;;;;;;SV4671-5
      Vial: 17            ;1;;;7;;5comp.sub;4052
      Meth: IXBN1.M       Barcode:
      Data: CALB040.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 2
```

7395

```
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18   Type: ICal        BNACAL050PPM;;;;;;SV4671-6
     Vial: 18          ;1;;;8;;5comp.sub;4052
     Meth: IXBN1.M     Barcode:
     Data: CALB050.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19   Type: ICal        BNACAL060PPM;;;;;;SV4671-7
     Vial: 19          ;1;;;9;;5comp.sub;4052
     Meth: IXBN1.M     Barcode:
     Data: CALB060.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20   Type: ICal        BNACAL080PPM;;;;;;SV4671-9
     Vial: 20          ;1;;;11;;5comp.sub;4052
     Meth: IXBN1.M     Barcode:
     Data: CALB080.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21   Type: Sample      DF0303B2;;;;;SV4755
     Vial: 1           ;;;;;;all.sub;
     Meth: DFTPPBN1.M  Barcode:
     Data: DF0303B2.D  Samp Amt: 0          Multiplr: 1
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22   Type: ICal        BNACAL100PPM;;;;;;SV4671-10
     Vial: 21          ;1;;;13;;5comp.sub;4052
     Meth: IXBN1.M     Barcode:
     Data: CALB100.D   LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23   Type: QC          BNAICV050PPM;;;;;;SV4704(LCS1)
     Vial: 22          ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M     Barcode:
     Data: ICV01.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24   Type: QC          BNAICV050PPM;;;;;;SV4705(LCS2)
     Vial: 23          ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M     Barcode:
     Data: ICV02.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25   Type: QC          BNAICV050PPM;;;;;;SV4677
     Vial: 24          ;3;;;;;ppbna.sub;
     Meth: IXBN1.M     Barcode:
     Data: ICV03.D     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
26   Type: QC          BNAICV050PPM;;;;;;SV4651(LCS1)
     Vial: 25          ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M     Barcode:
     Data: ICV01A.D    LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 3
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     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 27  Type: QC            BNAICV050PPM;;;;;;SV4754(LCS2)
     Vial: 26            ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M       Barcode:
     Data: ICV02A.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 28  Type: QC            BNAICV050PPM;;;;;;SV4653(LCS1)
     Vial: 27            ;3;;;;;ppbna.sub;4751
     Meth: IXBN1.M       Barcode:
     Data: ICV01C.D      LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 29  Type: Sample        BNACCV050PPM;;;;;;SV4756
     Vial: 100           ;;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: BNACCV.D      Samp Amt: 0          Multiplr: 1
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 30  Type: QC            MDLCHK1;;;;;;5UL
     Vial: 28            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLW1.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 31  Type: QC            MDLCHK2;;;;;;10UL
     Vial: 29            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLW2.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 32  Type: QC            MDLCHK3;;;;;;20UL
     Vial: 30            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLW3.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 33  Type: QC            MDLCHK4;;;;;;50UL
     Vial: 31            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLW4.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 34  Type: QC            MDLCHK1;;;;;;
     Vial: 32            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLS1.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default
     CR Database       :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 35  Type: QC            MDLCHK2;;;;;;
     Vial: 33            ;3;;;;;ppbna.sub;
     Meth: IXBN1.M       Barcode:
     Data: MDLS2.D       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report      :Default          Lib. Search Rep.:Default
     Quant Report      :Default          Post-Quant Macro:Default

Sequence: 030309B1.S   Last Modified: Tue Mar 03 15:22:27 2009   Page: 4
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```
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
36  Type: QC             MDLCHK3;;;;;;
    Vial: 34             ;3;;;;;ppbna.sub;
    Meth: IXBN1.M        Barcode:
    Data: MDLS3.D        LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default            Lib. Search Rep.:Default
    Quant Report      :Default            Post-Quant Macro:Default
    CR Database       :Default            CR Spreadsheet  :Default
-------------------------------------------------------------------------
37  Type: QC             MDLCHK4;;;;;;
    Vial: 35             ;3;;;;;ppbna.sub;
    Meth: IXBN1.M        Barcode:
    Data: MDLS4.D        LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report      :Default            Lib. Search Rep.:Default
    Quant Report      :Default            Post-Quant Macro:Default
    CR Database       :Default            CR Spreadsheet  :Default
-------------------------------------------------------------------------
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7398

Sequence Name: C:\HPCHEM\1\SEQUENCE\033109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\033109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7464

3/31/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPBN1	CCV050PPM;;;;;;SV4718
2	Sample	1	DF0331B1	DFTPPBN1	DF0331B1;;;;;SV4796 11:34, 3/31
3	CCal	2	PRIMER	IXBN1	CCV050PPM;;;;;;SV4797b
4	Sample	1	DF0331B1	DFTPPBN1	DF0331B1;;;;;SV4796
5	CCal	2	CCV050	IXBN1	CCV050PPM;;;;;;SV4797b
6	Sample	3	CCVAP9A	IXBN1	ap9A50PPM;;;;;;SV4800a
7	Sample	4	CCVAP9B	IXBN1	ap9B50PPM;;;;;;SV4800b
8	Sample	5	CCVAP9C	IXBN1	ap9C50PPM;;;;;;SV4800c
9	QC	6	S1BW0323	IXBN1	SBLK0323BW1;;1000;1000;;UG/L;23-MAR-2
10	QC	7	S1LW0323	IXBN1	SBLK0323BW1LCS;;1000;1000;;UG/L;23-MA
11	Sample	8	0325121	IXBN1	0903251-21;;1080;1000;;UG/L;23-MAR-20
12	Sample	9	0324501	IXBN1	0903245-01;;850;1000;;UG/L;23-MAR-200
13	Sample	10	0324601	IXBN1	0903246-01;;1000;1000;;UG/L;23-MAR-20
14	Sample	11	0324701	IXBN1	0903247-01;;1000;1000;;UG/L;23-MAR-20
15	QC	12	S2BS0320	IXSOX1	SBLK0320BS2;;15;1000;;UG/KG;20-MAR-20
16	QC	13	S2LS0320	IXSOX1	SBLK0320BS2LCS;;15;1000;;UG/KG;20-MAR
17	Sample	14	0326201	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200
18	Sample	15	0326205	IXSOX1	0903262-05;;15;1000;;UG/KG;20-MAR-200
19	Sample	16	0326207	IXSOX1	0903262-07;;15;1000;;UG/KG;20-MAR-200
20	Sample	17	0325115	IXSOX1	0903251-15;;15;1000;;UG/KG;20-MAR-200
21	Sample	18	0325901	IXBN1	0903259-01;;1080;1000;;UG/L;23-MAR-20
22	Sample	19	0325902	IXBN1	0903259-02;;1080;1000;;UG/L;23-MAR-20
23	Sample	20	0325903	IXBN1	0903259-03;;1080;1000;;UG/L;23-MAR-20
24	Sample	21	0325904	IXBN1	0903259-04;;1080;1000;;UG/L;23-MAR-20 23:24, 3/31
25	QC	22	0326201M	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200 Sort of fine
26	QC	23	0326201S	IXSOX1	0903262-01;;15;1000;;UG/KG;20-MAR-200
27	Sample	625 24	0328002D	IXBN1	0903280-01;5;980;2000;;UG/L;23-MAR-20
28	Sample	100	BLANK	DFTPPBN1	CCV050PPM;;;;;;SV4718
29	Sample	2	PRIMER	IXBN1	CCV050PPM;;;;;;SV4797b
30	Sample	1	DF0331B2	DFTPPBN1	DF0331B2;;;;;SV4796 2:39, 4/1
31	Sample	2	CCV050E	IXBN1	CCV050PPM;;;;;;SV4797b
32	Sample	25	0326704	IXBN1	0903267-04;;1070;1000;;UG/L;23-MAR-20
33	Sample	26	0326501	IXBN1	0903265-01;;1020;1000;;UG/L;23-MAR-20
34	Sample	27	0327401	IXBN1	0903274-01;;1070;1000;;UG/L;23-MAR-20
35	Sample	28	0327402	IXBN1	0903274-02;;1080;1000;;UG/L;23-MAR-20
36	Sample	29	0327403	IXBN1	0903274-03;;1060;1000;;UG/L;23-MAR-20
37	Sample	30	0327404	IXBN1	0903274-04;;1065;1000;;UG/L;23-MAR-20
38	Sample	31	0329201	IXBN1 JICS	0903292-01;;1080;1000;;UG/L;23-MAR-20
39	Sample	32	0329202	IXBN1 |	0903292-02;;1080;1000;;UG/L;23-MAR-20
40	Sample	33	0329203	IXBN1 |	0903292-03;;1080;1000;;UG/L;23-MAR-20
41	Sample	34	0329204	IXBN1 ↓	0903292-04;;1080;1000;;UG/L;23-MAR-20
42	QC	35	0326704M	IXBN1	0903267-04;;1080;1000;;UG/L;23-MAR-20
43	QC	36	0326704S	IXBN1	0903267-04;;1070;1000;;UG/L;23-MAR-20 9:40, 4/1

Last Modified: Wed Apr 01 06:29:00 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\033109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\033109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7465

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;;SV4718 ;;;;;;ppbna.sub;4719 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2 Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0331B1.D Area% Report :Default Quant Report :Default CR Database :Default	DF0331B1;;;;;SV4796 ;;;;;;all.sub; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3 Type: CCal Vial: 2 Meth: IXBN1.M Data: PRIMER.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;;SV4797b ;;;;;;ppbna.sub;4794 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4 Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0331B1.D Area% Report :Default Quant Report :Default CR Database :Default	DF0331B1;;;;;SV4796 ;;;;;;all.sub; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5 Type: CCal Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;;SV4797b ;;;;;;ppbna.sub;4794 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6 Type: Sample Vial: 3 Meth: IXBN1.M Data: CCVAP9A.D Area% Report :Default Quant Report :Default CR Database :Default	ap9A50PPM;;;;;;SV4800a ;;;;;;app9a.sub;4794 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7 Type: Sample Vial: 4 Meth: IXBN1.M Data: CCVAP9B.D Area% Report :Default Quant Report :Default CR Database :Default	ap9B50PPM;;;;;;SV4800b ;;;;;;app9b.sub;4794 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8 Type: Sample Vial: 5 Meth: IXBN1.M	ap9C50PPM;;;;;;SV4800c ;;;;;;app9c.sub;4794 Barcode:

```
     Data: CCVAP9C.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 9   Type: QC          SBLK0323BW1;;1000;1000;;UG/L;23-MAR-2009
     Vial: 6           ;3;BLANK;;;032309BW1;all.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: S1BW0323.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 10  Type: QC          SBLK0323BW1LCS;;1000;1000;;UG/L;23-MAR-2009
     Vial: 7           ;3;LCS;;;032309BW1;all.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: S1LW0323.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 11  Type: Sample      0903251-21;;1080;1000;;UG/L;23-MAR-2009
     Vial: 8           tet.b03251;0;;;;032309BW1;all.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0325121.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 12  Type: Sample      0903245-01;;850;1000;;UG/L;23-MAR-2009
     Vial: 9           ch2.b03245;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0324501.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 13  Type: Sample      0903246-01;;1000;1000;;UG/L;23-MAR-2009
     Vial: 10          ch2.b03246;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0324601.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 14  Type: Sample      0903247-01;;1000;1000;;UG/L;23-MAR-2009
     Vial: 11          ch2.b03247;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0324701.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 15  Type: QC          SBLK0320BS2;;15;1000;;UG/KG;20-MAR-2009
     Vial: 12          ;3;BLANK;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: S2BS0320.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 16  Type: QC          SBLK0320BS2LCS;;15;1000;;UG/KG;20-MAR-2009
     Vial: 13          ;3;LCS;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: S2LS0320.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------
 17  Type: Sample      0903262-01;;15;1000;;UG/KG;20-MAR-2009
     Vial: 14          tet.b03262;0;;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0326201.D   Samp Amt: 0          Multiplr: 1
```

```
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 18  Type: Sample      0903262-05;;15;1000;;UG/KG;20-MAR-2009
     Vial: 15          tet.b03262;0;;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0326205.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 19  Type: Sample      0903262-07;;15;1000;;UG/KG;20-MAR-2009
     Vial: 16          tet.b03262;0;;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0326207.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 20  Type: Sample      0903251-15;;15;1000;;UG/KG;20-MAR-2009
     Vial: 17          tet.b03251;0;;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0325115.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 21  Type: Sample      0903259-01;;1080;1000;;UG/L;23-MAR-2009
     Vial: 18          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0325901.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 22  Type: Sample      0903259-02;;1080;1000;;UG/L;23-MAR-2009
     Vial: 19          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0325902.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 23  Type: Sample      0903259-03;;1080;1000;;UG/L;23-MAR-2009
     Vial: 20          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0325903.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 24  Type: Sample      0903259-04;;1080;1000;;UG/L;23-MAR-2009
     Vial: 21          nas.b03259;0;;;;032309BW1;ppbna.sub;4799
     Meth: IXBN1.M     Barcode:
     Data: 0325904.D   Samp Amt: 0          Multiplr: 1
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 25  Type: QC          0903262-01;;15;1000;;UG/KG;20-MAR-2009
     Vial: 22          tet.b03262;3;MS;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0326201M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
     Quant Report     :Default          Post-Quant Macro:Default
     CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------------------
 26  Type: QC          0903262-01;;15;1000;;UG/KG;20-MAR-2009
     Vial: 23          tet.b03262;3;MSD;;;032009BS2;all.sub;4799
     Meth: IXSOX1.M    Barcode:
     Data: 0326201S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Area% Report     :Default          Lib. Search Rep.:Default
```

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```
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
27  Type: Sample      0903280-01;5;980;2000;;UG/L;23-MAR-2009
    Vial: 24          ;3;LCS;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0328002D.D  Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
28  Type: Sample      CCV050PPM;;;;;;SV4718
    Vial: 100         ;;;;;;ppbna.sub;4719
    Meth: DFTPPBN1.M  Barcode:
    Data: BLANK.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
29  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXBN1.M     Barcode:
    Data: PRIMER.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
30  Type: Sample      DF0331B2;;;;;SV4796
    Vial: 1           ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: DF0331B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
31  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXBN1.M     Barcode:
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
32  Type: Sample      0903267-04;;1070;1000;;UG/L;23-MAR-2009
    Vial: 25          sha.b03267;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326704.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
33  Type: Sample      0903265-01;;1020;1000;;UG/L;23-MAR-2009
    Vial: 26          sha.b03265;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326501.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
34  Type: Sample      0903274-01;;1070;1000;;UG/L;23-MAR-2009
    Vial: 27          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327401.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
35  Type: Sample      0903274-02;;1080;1000;;UG/L;23-MAR-2009
    Vial: 28          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327402.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
```

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```
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
36  Type: Sample      0903274-03;;1060;1000;;UG/L;23-MAR-2009
    Vial: 29          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327403.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
37  Type: Sample      0903274-04;;1065;1000;;UG/L;23-MAR-2009
    Vial: 30          nas.b03274;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0327404.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
38  Type: Sample      0903292-01;;1080;1000;;UG/L;23-MAR-2009
    Vial: 31          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329201.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
39  Type: Sample      0903292-02;;1080;1000;;UG/L;23-MAR-2009
    Vial: 32          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329202.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
40  Type: Sample      0903292-03;;1080;1000;;UG/L;23-MAR-2009
    Vial: 33          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329203.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
41  Type: Sample      0903292-04;;1080;1000;;UG/L;23-MAR-2009
    Vial: 34          pip.b03292;0;;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0329204.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
42  Type: QC          0903267-04;;1080;1000;;UG/L;23-MAR-2009
    Vial: 35          sha.b03267;3;MS;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326704M.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
43  Type: QC          0903267-04;;1070;1000;;UG/L;23-MAR-2009
    Vial: 36          sha.b03267;3;MSD;;;032309BW1;ppbna.sub;4799
    Meth: IXBN1.M     Barcode:
    Data: 0326704S.D  LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
```

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Sequence Name: C:\HPCHEM\1\SEQUENCE\040109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7470

Mn 11/9

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	DF0401B1	DFTPPBN1	DF0401B1;;;;;SV4796 13:28, 4/1
2	CCal	2	CCV050	IXSOX1	CCV050PPM;;;;;;SV4797b
3	Sample	3	CCVAP9A	IXSOX1	ap9A50PPM;;;;;;SV4800a
4	Sample	4	CCVAP9B	IXSOX1	ap9B50PPM;;;;;;SV4800b
5	Sample	5	CCVAP9C	IXSOX1	ap9C50PPM;;;;;;SV4800c
6	Sample	6	0325101	IXSOX1	0903251-01;;15;1000;;UG/KG;20-MAR-200
7	Sample	7	0325103	IXSOX1	0903251-03;;15;1000;;UG/KG;20-MAR-200
8	Sample	8	0325105	IXSOX1	0903251-05;;15;1000;;UG/KG;20-MAR-200
9	Sample	9	0325107	IXSOX1	0903251-07;;15;1000;;UG/KG;20-MAR-200
10	Sample	10	0325109	IXSOX1	0903251-09;;15;1000;;UG/KG;20-MAR-200
11	Sample	11	0325111	IXSOX1	0903251-11;;15;1000;;UG/KG;20-MAR-200
12	Sample	12	0325117	IXSOX1	0903251-17;;15;1000;;UG/KG;20-MAR-200
13	Sample	13	0325119	IXSOX1	0903251-19;;15;1000;;UG/KG;20-MAR-200
14	Sample	14	0326203	IXSOX1	0903262-03;;15;1000;;UG/KG;20-MAR-200
15	Sample	15	0326209	IXSOX1	0903262-09;;15;1000;;UG/KG;20-MAR-200
16	Sample	16	0326211	IXSOX1	0903262-11;;15;1000;;UG/KG;20-MAR-200 all OK
17	Sample	17	0326213	IXSOX1	0903262-13;;15;1000;;UG/KG;20-MAR-200
18	Sample	18	0326215	IXSOX1	0903262-15;;15;1000;;UG/KG;20-MAR-200
19	Sample	19	0326217	IXSOX1	0903262-17;;15;1000;;UG/KG;20-MAR-200
20	Sample	20	0326219	IXSOX1	0903262-19;;15;1000;;UG/KG;20-MAR-200
21	Sample	21	0325113	IXSOX1	0903251-13;;15;1000;;UG/KG;20-MAR-200 1:34, 4/2
22	Sample	100	BLANK	DFTPPBN1	DF0401B2;;;;;SV4796
23	Sample	2	PRIMER	IXSOX1	CCV050PPM;;;;;;SV4797b
24	Sample	1	DF0401B2	DFTPPBN1	DF0401B2;;;;;SV4796
25	Sample	2	CCV050E	IXSOX1	CCV050PPM;;;;;;SV4797b
26	Sample	3	CVAP9AE	IXSOX1	ap9A50PPM;;;;;;SV4800a
27	Sample	4	CVAP9BE	IXSOX1	ap9B50PPM;;;;;;SV4800b
28	Sample	5	CVAP9CE	IXSOX1	ap9C50PPM;;;;;;SV4800c
29	Sample	22	0326219D	IXSOX1	0903262-19;5;15;1000;;UG/KG;20-MAR-20 NR
30	Sample	23	0325113D	IXSOX1	0903251-13;5;15;1000;;UG/KG;20-MAR-20

Sequence Name: C:\HPCHEM\1\SEQUENCE\040109B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7171

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample	DF0401B1;;;;;SV4796
Vial: 1	;;;;;;all.sub;
Meth: DFTPPBN1.M	Barcode:
Data: DF0401B1.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
2 Type: CCal	CCV050PPM;;;;;;SV4797b
Vial: 2	;;;;;;ppbna.sub;4794
Meth: IXSOX1.M	Barcode:
Data: CCV050.D	LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
3 Type: Sample	ap9A50PPM;;;;;;SV4800a
Vial: 3	;;;;;;app9a.sub;4794
Meth: IXSOX1.M	Barcode:
Data: CCVAP9A.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
4 Type: Sample	ap9B50PPM;;;;;;SV4800b
Vial: 4	;;;;;;app9b.sub;4794
Meth: IXSOX1.M	Barcode:
Data: CCVAP9B.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
5 Type: Sample	ap9C50PPM;;;;;;SV4800c
Vial: 5	;;;;;;app9c.sub;4794
Meth: IXSOX1.M	Barcode:
Data: CCVAP9C.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
6 Type: Sample	0903251-01;;15;1000;;UG/KG;20-MAR-2009
Vial: 6	tet.b03251;0;;;;032009BS2;all.sub;4799
Meth: IXSOX1.M	Barcode:
Data: 0325101.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
7 Type: Sample	0903251-03;;15;1000;;UG/KG;20-MAR-2009
Vial: 7	tet.b03251;0;;;;032009BS2;all.sub;4799
Meth: IXSOX1.M	Barcode:
Data: 0325103.D	Samp Amt: 0 Multiplr: 1
Area% Report :Default	Lib. Search Rep.:Default
Quant Report :Default	Post-Quant Macro:Default
CR Database :Default	CR Spreadsheet :Default
8 Type: Sample	0903251-05;;15;1000;;UG/KG;20-MAR-2009
Vial: 8	tet.b03251;0;;;;032009BS2;all.sub;4799
Meth: IXSOX1.M	Barcode:

Sequence: 040109B1.S Last Modified: Wed Apr 01 14:17:55 2009 Page: 1

```
    Data: 0325105.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
9   Type: Sample      0903251-07;;15;1000;;UG/KG;20-MAR-2009
    Vial: 9           tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325107.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: Sample      0903251-09;;15;1000;;UG/KG;20-MAR-2009
    Vial: 10          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325109.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: Sample      0903251-11;;15;1000;;UG/KG;20-MAR-2009
    Vial: 11          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325111.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12  Type: Sample      0903251-17;;15;1000;;UG/KG;20-MAR-2009
    Vial: 12          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325117.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13  Type: Sample      0903251-19;;15;1000;;UG/KG;20-MAR-2009
    Vial: 13          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325119.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14  Type: Sample      0903262-03;;15;1000;;UG/KG;20-MAR-2009
    Vial: 14          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326203.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15  Type: Sample      0903262-09;;15;1000;;UG/KG;20-MAR-2009
    Vial: 15          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326209.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16  Type: Sample      0903262-11;;15;1000;;UG/KG;20-MAR-2009
    Vial: 16          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326211.D   Samp Amt: 0          Multiplr: 1
    Area% Report    :Default          Lib. Search Rep.:Default
    Quant Report    :Default          Post-Quant Macro:Default
    CR Database     :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17  Type: Sample      0903262-13;;15;1000;;UG/KG;20-MAR-2009
    Vial: 17          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326213.D   Samp Amt: 0          Multiplr: 1
```

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```
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18  Type: Sample      0903262-15;;15;1000;;UG/KG;20-MAR-2009
    Vial: 18          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326215.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: Sample      0903262-17;;15;1000;;UG/KG;20-MAR-2009
    Vial: 19          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326217.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: Sample      0903262-19;;15;1000;;UG/KG;20-MAR-2009
    Vial: 20          tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0326219.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: Sample      0903251-13;;15;1000;;UG/KG;20-MAR-2009
    Vial: 21          tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M    Barcode:
    Data: 0325113.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: Sample      DF0401B2;;;;;SV4796
    Vial: 100         ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: BLANK.D     Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: PRIMER.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
24  Type: Sample      DF0401B2;;;;;SV4796
    Vial: 1           ;;;;;;all.sub;
    Meth: DFTPPBN1.M  Barcode:
    Data: DF0401B2.D  Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
25  Type: Sample      CCV050PPM;;;;;;SV4797b
    Vial: 2           ;;;;;;ppbna.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: CCV050E.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
26  Type: Sample      ap9A50PPM;;;;;;SV4800a
    Vial: 3           ;;;;;;app9a.sub;4794
    Meth: IXSOX1.M    Barcode:
    Data: CVAP9AE.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
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    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
27  Type: Sample       ap9B50PPM;;;;;;SV4800b
    Vial: 4            ;;;;;;app9b.sub;4794
    Meth: IXSOX1.M     Barcode:
    Data: CVAP9BE.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
28  Type: Sample       ap9C50PPM;;;;;;SV4800c
    Vial: 5            ;;;;;;app9c.sub;4794
    Meth: IXSOX1.M     Barcode:
    Data: CVAP9CE.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
29  Type: Sample       0903262-19;5;15;1000;;UG/KG;20-MAR-2009
    Vial: 22           tet.b03262;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M     Barcode:
    Data: 0326219D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
30  Type: Sample       0903251-13;5;15;1000;;UG/KG;20-MAR-2009
    Vial: 23           tet.b03251;0;;;;032009BS2;all.sub;4799
    Meth: IXSOX1.M     Barcode:
    Data: 0325113D.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
```

7474

Sequence Name: C:\HPCHEM\1\SEQUENCE\040609B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7477

4/6/09

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	BLANK	DFTPPBN1	DF0401B1;;;;;SV4796
2	CCal	2	PRIMER	IXBN1	CCV050PPM;;;;;SV4797b
3	Sample	1	DF0401B1	DFTPPBN1	DF0401B1;;;;;SV4796 8:52, 4/6
4	CCal	2	CCV050	IXBN1	CCV050PPM;;;;;SV4797b
5	Sample	3	CCVAP9A	IXBN1	ap9A50PPM;;;;;SV4800a
6	Sample	4	CCVAP9B	IXBN1	ap9B50PPM;;;;;SV4800b
7	Sample	5	CCVAP9C	IXBN1	ap9C50PPM;;;;;SV4800c
8	QC	6	S1BW0403	IXBN1	SBLK0403BW1;;1000;1000;;UG/L;03-APR-2
9	QC	7	S1LW0403	IXBN1	SBLK0403BW1LCS;;1000;1000;;UG/L;03-AP
10	QC	8	S1DW0403	IXBN1	SBLK0403BW1LCSD;;1000;1000;;UG/L;03-A
11	QC	9	S2BW0403	IXBN1	SBLK0403BW2;;1000;500;;UG/L;03-APR-20
12	QC	10	S2LW0403	IXBN1	SBLK0403BW2LCS;;1000;500;;UG/L;03-APR
13	QC	11	S2DW0403	IXBN1	SBLK0403BW2LCSD;;1000;500;;UG/L;03-AP
14	Sample	12	0400101D	IXBN1	0904001-01;5;920;500;;UG/L;03-APR-200
15	Sample	13	0402601	IXBN1	0904026-01;;1080;1000;;UG/L;03-APR-20
16	Sample	14	0402201	IXBN1	0904022-01;5;1000;1000;;UG/L;03-APR-2
17	Sample	15	0402401	IXBN1 625	0904024-01;5;1000;1000;;MG/L;03-APR-2
18	Sample	16	0402918	IXBN1	0904029-18;;1060;1000;;UG/L;03-APR-20
19	Sample	17	0402919	IXBN1	0904029-19;;1070;1000;;UG/L;03-APR-20
20	Sample	18	0402920	IXBN1	0904029-20;;1040;1000;;UG/L;03-APR-20
21	Sample	19	0402921	IXBN1	0904029-21;;1060;1000;;UG/L;03-APR-20
22	Sample	20	0402922	IXBN1	0904029-22;;1000;1000;;UG/L;03-APR-20 RKS
23	Sample	21	0401701	IXBN1 625	0904017-01;;900;1000;;MG/L;03-APR-200 20:41, 4/6

Last Modified: Mon Apr 06 07:50:34 2009

Sequence Name: C:\HPCHEM\1\SEQUENCE\040609B1.S
Comment: 8270/625
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\040109B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

7478

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info
1 Type: Sample Vial: 100 Meth: DFTPPBN1.M Data: BLANK.D Area% Report :Default Quant Report :Default CR Database :Default	DF0401B1;;;;;SV4796 ;;;;;;all.sub; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
2 Type: CCal Vial: 2 Meth: IXBN1.M Data: PRIMER.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;;SV4797b ;;;;;;ppbna.sub;4794 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
3 Type: Sample Vial: 1 Meth: DFTPPBN1.M Data: DF0401B1.D Area% Report :Default Quant Report :Default CR Database :Default	DF0401B1;;;;;SV4796 ;;;;;;all.sub; Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
4 Type: CCal Vial: 2 Meth: IXBN1.M Data: CCV050.D Area% Report :Default Quant Report :Default CR Database :Default	CCV050PPM;;;;;;SV4797b ;;;;;;ppbna.sub;4794 Barcode: LvlId: UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
5 Type: Sample Vial: 3 Meth: IXBN1.M Data: CCVAP9A.D Area% Report :Default Quant Report :Default CR Database :Default	ap9A50PPM;;;;;;SV4800a ;;;;;;app9a.sub;4794 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
6 Type: Sample Vial: 4 Meth: IXBN1.M Data: CCVAP9B.D Area% Report :Default Quant Report :Default CR Database :Default	ap9B50PPM;;;;;;SV4800b ;;;;;;app9b.sub;4794 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
7 Type: Sample Vial: 5 Meth: IXBN1.M Data: CCVAP9C.D Area% Report :Default Quant Report :Default CR Database :Default	ap9C50PPM;;;;;;SV4800c ;;;;;;app9c.sub;4794 Barcode: Samp Amt: 0 Multiplr: 1 Lib. Search Rep.:Default Post-Quant Macro:Default CR Spreadsheet :Default
8 Type: QC Vial: 6 Meth: IXBN1.M	SBLK0403BW1;;1000;1000;;UG/L;03-APR-2009 ;3;BLANK;;;040309BW1;all.sub;4801 Barcode:

Sequence: 040609B1.S Last Modified: Mon Apr 06 07:50:34 2009 Page: 1

```
    Data: S1BW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
9   Type: QC          SBLK0403BW1LCS;;1000;1000;;UG/L;03-APR-2009
    Vial: 7           ;3;LCS;;;040309BW1;all.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: S1LW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
10  Type: QC          SBLK0403BW1LCSD;;1000;1000;;UG/L;03-APR-2009
    Vial: 8           ;3;LCSD;;;040309BW1;all.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: S1DW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
11  Type: QC          SBLK0403BW2;;1000;500;;UG/L;03-APR-2009
    Vial: 9           ;3;BLANK;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: S2BW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
12  Type: QC          SBLK0403BW2LCS;;1000;500;;UG/L;03-APR-2009
    Vial: 10          ;3;LCS;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: S2LW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
13  Type: QC          SBLK0403BW2LCSD;;1000;500;;UG/L;03-APR-2009
    Vial: 11          ;3;LCSD;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: S2DW0403.D  LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
14  Type: Sample      0904001-01;5;920;500;;UG/L;03-APR-2009
    Vial: 12          gri.b04001;0;;;;040309BW2;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: 0400101D.D  Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
15  Type: Sample      0904026-01;;1080;1000;;UG/L;03-APR-2009
    Vial: 13          tet.b04026;0;;;;040309BW1;all.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: 0402601.D   Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
16  Type: Sample      0904022-01;5;1000;1000;;UG/L;03-APR-2009
    Vial: 14          gri.b04022;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: 0402201.D   Samp Amt: 0          Multiplr: 5
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
17  Type: Sample      0904024-01;5;1000;1000;;MG/L;03-APR-2009
    Vial: 15          gri.b04024;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M     Barcode:
    Data: 0402401.D   Samp Amt: 0          Multiplr: 5
```

7479

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    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
18  Type: Sample       0904029-18;;1060;1000;;UG/L;03-APR-2009
    Vial: 16           agv.b04029;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0402918.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
19  Type: Sample       0904029-19;;1070;1000;;UG/L;03-APR-2009
    Vial: 17           agv.b04029;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0402919.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
20  Type: Sample       0904029-20;;1040;1000;;UG/L;03-APR-2009
    Vial: 18           agv.b04029;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0402920.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
21  Type: Sample       0904029-21;;1060;1000;;UG/L;03-APR-2009
    Vial: 19           agv.b04029;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0402921.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
22  Type: Sample       0904029-22;;1000;1000;;UG/L;03-APR-2009
    Vial: 20           agv.b04029;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0402922.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
23  Type: Sample       0904017-01;;900;1000;;MG/L;03-APR-2009
    Vial: 21           hop.b04017;0;;;;040309BW1;ppbna.sub;4801
    Meth: IXBN1.M      Barcode:
    Data: 0401701.D    Samp Amt: 0          Multiplr: 1
    Area% Report     :Default          Lib. Search Rep.:Default
    Quant Report     :Default          Post-Quant Macro:Default
    CR Database      :Default          CR Spreadsheet  :Default
-------------------------------------------------------------------
```

7480

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS14-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 005F0501

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 10:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	16	I

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS15-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 008F0801

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 12:16

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	19	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS16-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 009F0901

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 09:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 12:43

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	18	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS17-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 010F1001

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 13:10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	17	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS18-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-09

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 011F1101

% Moisture: 6 decanted: (Y/N) N Date Sampled: 03/18/09 10:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 13:37

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	24	I

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS19-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 012F1201

% Moisture: 4 decanted: (Y/N) N Date Sampled: 03/18/09 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 14:04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	35	24	J

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS20-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 013F1301

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 14:31

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	23	J

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS21-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 014F1401

% Moisture: 3 decanted: (Y/N) N Date Sampled: 03/18/09 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 14:58

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	26	J

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS22-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-17

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 015F1501

% Moisture: 2 decanted: (Y/N) N Date Sampled: 03/18/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 15:25

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	34	16	J

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOCF
-SS23-0.5

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: 0903262-19

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 016F1601

% Moisture: 7 decanted: (Y/N) N Date Sampled: 03/18/09 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 15:51

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	12	36	25	J

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix: (soil/water) WATER Lab Sample ID: 0904026-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 013F1301

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 04/01/09 11:23

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:04/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/13/09 20:19

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range _____	0.16	0.46		U

FORM 2
SOIL PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Column(1): ZB-5MS ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	FBP %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FS1BLK0327	85	89					0
02	FS1BLK0327LC	86	104					0
03	MPT-AOCF-SS1	80	100					0
04	MPT-AOCF-SS1	84	108					0
05	MPT-AOCF-SS1	91	113					0
06	MPT-AOCF-SS1	85	110					0
07	MPT-AOCF-SS1	84	109					0
08	MPT-AOCF-SS1	81	95					0
09	MPT-AOCF-SS1	83	108					0
10	MPT-AOCF-SS1	90	100					0
11	MPT-AOCF-SS2	88	115					0
12	MPT-AOCF-SS2	89	111					0
13	MPT-AOCF-SS2	79	102					0
14	MPT-AOCF-SS2	97	125					0
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(45-135)	3.3
S2 (FBP)	= 2-Fluorobiphenyl	(50-150)	3.3

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 2
WATER PRO SURROGATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Column(1): ZB-5MS ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	FBP %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	FW1BLK0406	95	96					0
02	FW1BLK0406LC	99	102					0
03	FW1BLK0406LC	102	104					0
04	MPT-AOC-F-MW	77	85					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		EL QC LIMITS	SPIKE CONC (mg/L)
S1	= Ortho-Terphenyl	(30-140)	0.050
S2 (FBP)	= 2-Fluorobiphenyl	(50-150)	0.050

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate results reported from a diluted analysis

FORM 3
SOIL PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix Spike - Client Sample No.: FS1BLK0327

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	213.3	0.0000	144.0	68	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
WATER PRO LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix Spike - Client Sample No.: FW1BLK0406

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
Petroleum Range	3.200	0.0000	1.654	52	50-140

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	3.200	2.168	68	27	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix Spike - Client Sample No.: MPT-AOCF-SS14-0.5 Lab Sample ID: 0903262-01

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Petroleum Range	221.3	15.92	171.9	70	50-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range	221.3	172.3	71	0	50	50-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FS1BLK0327

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Lab Sample ID: FS1BLK0327 Lab File ID: 003F0301

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SOXH

Sulfur Cleanup (Y/N) N Date Extracted: 03/27/09

Date Analyzed (1): 04/02/09 Date Analyzed (2):

Time Analyzed (1): 1003 Time Analyzed (2):

Instrument ID (1): GCFID2 Instrument ID (2):

Column (1): ZB-5MS ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FS1BLK0327LC	FS1BLK0327LCS	04/02/09	
02	MPT-AOCF-SS1	0903262-01	04/02/09	
03	MPT-AOCF-SS1	0903262-01MS	04/02/09	
04	MPT-AOCF-SS1	0903262-01MSD	04/02/09	
05	MPT-AOCF-SS1	0903262-03	04/02/09	
06	MPT-AOCF-SS1	0903262-05	04/02/09	
07	MPT-AOCF-SS1	0903262-07	04/02/09	
08	MPT-AOCF-SS1	0903262-09	04/02/09	
09	MPT-AOCF-SS1	0903262-11	04/02/09	
10	MPT-AOCF-SS2	0903262-13	04/02/09	
11	MPT-AOCF-SS2	0903262-15	04/02/09	
12	MPT-AOCF-SS2	0903262-17	04/02/09	
13	MPT-AOCF-SS2	0903262-19	04/02/09	
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FS1BLK0327

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Matrix: (soil/water) SOIL Lab Sample ID: FS1BLK0327

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 003F0301

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:03/27/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/02/09 10:03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	11	33		U

FORM I PRO

FORM 4
PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

FW1BLK0406

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Lab Sample ID: FW1BLK0406 Lab File ID: 010F1001

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc/Soxh) SEPF

Sulfur Cleanup (Y/N) N Date Extracted:

Date Analyzed (1): 04/13/09 Date Analyzed (2):

Time Analyzed (1): 1859 Time Analyzed (2):

Instrument ID (1): GCFID2 Instrument ID (2):

Column (1): ZB-5MS ID: 0.32(mm) Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FW1BLK0406LC	FW1BLK0406LCS	04/13/09	
02	FW1BLK0406LC	FW1BLK0406LCSD	04/13/09	
03	MPT-AOC-F-MW	0904026-01	04/13/09	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FW1BLK0406

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Matrix: (soil/water) WATER Lab Sample ID: FW1BLK0406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 010F1001

% Moisture: _____ decanted: (Y/N)___ Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 04/13/09 18:59

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.50		U

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

LAB FILE ID: RF8500: 004R0201 RF5950: 005R0201 RF4250: 006R0201
RF2550: 007R0201 RF850: 008R0201

COMPOUND	RF8500	RF5950	RF4250	RF2550	RF850
Petroleum Range	2182.362	2370.860	2362.004	2870.301	2206.867
Ortho-Terphenyl	2789.960	2824.600	2900.240	3038.960	2830.440
2-Fluorobiphenyl	1861.480	2021.320	2014.520	2153.800	1947.240

3.12.09

3/18/09

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ @ 3.12.09 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

RF85: 009R0201

COMPOUND	RF85	CURVE	COEFFICENT A1	%RSD OR R^2
Petroleum Range	√2710.000	AVRG	2450.39900	11.4
Ortho-Terphenyl	2980.600	AVRG	2894.13333	3.4
2-Fluorobiphenyl	1956.280	AVRG	1992.44000	4.9

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 03/12/09 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

LAB FILE ID: RT1: 004R0201 RT2: 005R0201 RT3: 006R0201
RT4: 007R0201 RT5: 008R0201

COMPOUND	RT1	RT2	RT3	RT4	RT5
Petroleum Range	9.575	9.575	9.575	9.575	9.575
Ortho-Terphenyl	8.917	8.917	8.913	8.913	8.913
2-Fluorobiphenyl	6.210	6.210	6.210	6.210	6.213

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 03/11/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 2348

RT6: 009R0201

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Petroleum Range	9.575	9.575	2.213	16.937
Ortho-Terphenyl	8.913	8.914	8.773	9.053
2-Fluorobiphenyl	6.213	6.211	6.163	6.263

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA21837

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 04/13/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 1739

LAB FILE ID: RF8500: 004R0201 RF5950: 005R0201 RF4250: 006R0201
RF2550: 007R0201 RF850: 008R0201

COMPOUND	RF8500	RF5950	RF4250	RF2550	RF850
Petroleum Range	1310.964	1389.525	1704.085	1909.872	1890.579
Ortho-Terphenyl	1748.680	1595.080	2114.160	2319.000	2419.200
2-Fluorobiphenyl	1189.360	1301.600	1687.400	1886.560	1961.760

JLS 4.14.09

BM 041409

FORM VI PRO

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA21837

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 04/13/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 1739

RF85: 009R0201

COMPOUND	RF85	CURVE	COEFFICENT A1	%RSD OR R^2
Petroleum Range	1850.059	AVRG	1675.84720	15.7
Ortho-Terphenyl	2344.840	AVRG	2090.16000	16.4
2-Fluorobiphenyl	1853.200	AVRG	1646.64667	19.8

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA21837

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 04/13/09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 1739

LAB FILE ID: RT1: 004R0201 RT2: 005R0201 RT3: 006R0201
RT4: 007R0201 RT5: 008R0201

COMPOUND	RT1	RT2	RT3	RT4	RT5
Petroleum Range	8.982	8.982	8.982	8.982	8.982
Ortho-Terphenyl	8.550	8.547	8.547	8.543	8.543
2-Fluorobiphenyl	5.873	5.870	5.867	5.867	5.867

FORM 6
PRO ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA21837

Instrument ID: GCFID2 Calibration Date(s): ~~03/16/07~~ 04/13/09 (JB) 4.14.09

Column: ZB-5MS ID: 0.32 (mm) Calibration Time(s): 1021 1739

RT6: 009R0201

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Petroleum Range	8.982	8.982	1.960	16.003
Ortho-Terphenyl	8.540	8.545	8.400	8.680
2-Fluorobiphenyl	5.867	5.868	5.817	5.917

Empirical Laboratories, LLC

ICV
~~CONTINUING CALIBRATION~~ COMPOUNDS

JJ 3.12.09

Instrument ID: gcfid2.i Injection Date: 11-MAR-2009 00:14
Lab File ID: 024F2101.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO ICV 7364 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\031009.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	2450	√ 2028	0.010	-17.2	25.0

JM 3/18/09

JLS 4.14.09

Empirical Laboratories, LLC

ICV
~~CONTINUING CALIBRATION~~ COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 13-APR-2009 18:06
Lab File ID: 008F0801.D Init. Cal. Date(s): 16-MAR-2007 13-APR-2009
Analysis Type: Init. Cal. Times: 10:21 17:39
Lab Sample ID: PRO ICV 09D0233 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\041309.b\FLPROR.m

			MIN		MAX
COMPOUND	RRF	RF4250	RRF	%D	%D
S 1 Petroleum Range	1676	1563	0.010	-6.8	25.0

BM 041409

JLB 4.3.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 02-APR-2009 09:35
Lab File ID: 002F0201.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0069 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040209.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	2450	2231	0.010	-9.0	25.0
$	2 2-Fluorobiphenyl	1992	2268	0.010	13.8	25.0
$	3 Ortho-Terphenyl	2894	3064	0.010	5.9	25.0

BM 040609

JLG 4.3.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 02-APR-2009 16:18
Lab File ID: 017F1701.D Init. Cal. Date(s): 16-MAR-2007 11-MAR-2009
Analysis Type: Init. Cal. Times: 10:21 23:48
Lab Sample ID: PRO 4250 9A0069 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\040209.b\FLPROR.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S 1 Petroleum Range	2450	2356	0.010	-3.9	25.0
$ 2 2-Fluorobiphenyl	1992	2409	0.010	20.9	25.0
$ 3 Ortho-Terphenyl	2894	3163	0.010	9.3	25.0

BM 040609

JLB 4.14.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 13-APR-2009 18:33
Lab File ID: 009F0901.D Init. Cal. Date(s): 16-MAR-2007 13-APR-2009
Analysis Type: Init. Cal. Times: 10:21 17:39
Lab Sample ID: PRO 4250 09D0029 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\041309.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	1676	1997	0.010	19.2	25.0
$	2 2-Fluorobiphenyl	1647	1931	0.010	17.3	25.0
$	3 Ortho-Terphenyl	2090	2385	0.010	14.1	25.0

BM 041409

JLB 4.14.09

Empirical Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 13-APR-2009 20:45
Lab File ID: 014F1401.D Init. Cal. Date(s): 16-MAR-2007 13-APR-2009
Analysis Type: Init. Cal. Times: 10:21 17:39
Lab Sample ID: PRO 4250 09D0030 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\041309.b\FLPROR.m

	COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D
S	1 Petroleum Range	1676	1683	0.010	0.4	25.0
$	2 2-Fluorobiphenyl	1647	1628	0.010	-1.1	25.0
$	3 Ortho-Terphenyl	2090	2124	0.010	1.6	25.0

BM 041409

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA32277

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 03/10/09 - 03/11/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.91 S2 : 6.21					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 8500 08J	03/10/09	2134	8.92	6.21
02		PRO 5950 08J	03/10/09	2201	8.92	6.21
03		PRO 4250 08J	03/10/09	2227	8.91	6.21
04		PRO 2550 08J	03/10/09	2254	8.91	6.21
05		PRO 850 08J0	03/11/09	2321	8.91	6.21
06		PRO 85 08J01	03/11/09	2348	8.91	6.21
07		PRO ICV 7364	03/11/09	0014		
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = 2-Fluorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PRO

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F03262

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 04/02/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

SURROGATE RT FROM CONTINUING CALIBRATION
S1 : 8.57 S2 : 5.89

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 4250 9A0	04/02/09	0935	8.57	5.89
02	FS1BLK0327	FS1BLK0327	04/02/09	1003	8.56	5.88
03	FS1BLK0327LC	FS1BLK0327LC	04/02/09	1030	8.56	5.88
04	MPT-AOCF-SS1	0903262-01	04/02/09	1056	8.56	5.88
05	MPT-AOCF-SS1	0903262-01MS	04/02/09	1123	8.56	5.88
06	MPT-AOCF-SS1	0903262-01MS	04/02/09	1150	8.56	5.88
07	MPT-AOCF-SS1	0903262-03	04/02/09	1216	8.56	5.88
08	MPT-AOCF-SS1	0903262-05	04/02/09	1243	8.56	5.88
09	MPT-AOCF-SS1	0903262-07	04/02/09	1310	8.56	5.88
10	MPT-AOCF-SS1	0903262-09	04/02/09	1337	8.56	5.88
11	MPT-AOCF-SS1	0903262-11	04/02/09	1404	8.56	5.88
12	MPT-AOCF-SS2	0903262-13	04/02/09	1431	8.56	5.88
13	MPT-AOCF-SS2	0903262-15	04/02/09	1458	8.56	5.88
14	MPT-AOCF-SS2	0903262-17	04/02/09	1525	8.56	5.88
15	MPT-AOCF-SS2	0903262-19	04/02/09	1551	8.56	5.88
16		PRO 4250 9A0	04/02/09	1618	8.56	5.88
17						
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31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = 2-Fluorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: Case No.: SAS No.: NA SDG No.: SDGA21837

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 04/13/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.54 S2 : 5.87					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 8500 09D	04/13/09	1526	8.55	5.87
02		PRO 5950 09D	04/13/09	1552	8.55	5.87
03		PRO 425009D0	04/13/09	1619	8.55	5.87
04		PRO 2550 09D	04/13/09	1646	8.54	5.87
05		PRO 850 09D0	04/13/09	1712	8.54	5.87
06		PRO 85 09D02	04/13/09	1739	8.54	5.87
07		PRO ICV 09D0	04/13/09	1806		
08						
09						
10						
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32						

		QC LIMITS
S1	= Ortho-Terphenyl	(+/- 0.14 MINUTES)
S2	= 2-Fluorobiphenyl	(+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PRO ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: Case No.: SAS No.: NA SDG No.: TET.F04026

Column: ZB-5MS ID: 0.32 (mm) Cont. Calib. Date(s): 04/13/09

Instrument ID: GCFID2

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

		SURROGATE RT FROM CONTINUING CALIBRATION S1 : 8.54 S2 : 5.87					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		PRO 4250 09D	04/13/09	1833	8.54	5.87
02	FW1BLK0406	FW1BLK0406	04/13/09	1859	8.54	5.87
03	FW1BLK0406LC	FW1BLK0406LC	04/13/09	1926	8.54	5.87
04	FW1BLK0406LC	FW1BLK0406LC	04/13/09	1952	8.54	5.87
05	MPT-AOC-F-MW	0904026-01	04/13/09	2019	8.54	5.87
06		PRO 4250 09D	04/13/09	2045	8.55	5.87
07						
08						
09						
10						
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31						
32						

QC LIMITS

S1 = Ortho-Terphenyl (+/- 0.14 MINUTES)
S2 = 2-Fluorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
~~KMV~~ 03288-1-20	KMV 3/24/09 14:30	KMV 3/24/09 15:10		Exp
03281-01 03285-01→05 03288-01→20	14:45 KBG 3/24/09	15:30 KBG 3/24/09		% Solids
03290-02,03 03293-01→03	↓	↓		↓
0903214 28-32 0903223 01-03	JC 3/24/09 15:05	JC 3/24/09 17:29		TCLP
0903281-01	↓	↓		↓
0903188-18	AF 3/24/09 15:30	AF 3/24/09 15:45		Herb
0903281-01	KBG 09:20 3/25/09	KBG 09:30 3/25/09		React. S.
03285-01-05; 03293-01-3; 03301-1-2	KMV 3/25/09 10:20			Pest
03282-1-4; 03310-1-6; 03122-01-03	↓			Pest
3290-02-03 3293-01-03	RF 3/25/09 12:42	RF 3/25/09 2:15		
3301-01-02				
3290 (2-3)	3-25-09 2:45pm	3-25-09 3:20pm		VOA
0903281	JC 3/25/09 15:54	JC 3/25/09 16:00		TCLP
3281-01	3/25/09 17:24 TAT	3/25/09 17:50 TAT		Flashpts
03293-1-3 03301-1-2 03312-1-4	AF 3/25/09 18:20	AF 3/25/09 18:32		Exp
03304-3-4	MS 3/26/09 08:10	KBG 3/26/09 12:15		DRO
03311-1-2 03312-1-4	MS 3/26/09 08:10			Pest/PCB
03301-01,02 03304-01→04	KBG 11:40 3/26/09			% Solids
03311-01,02 03312-01→04	↓	↓		↓
03251-1,3,5,7,9,11,13,15,17,19 03262-1,3,5,7,9,11,13,15,17,19	MS 12:00 3/26/09	MS 3/26/09 14:35		FL Pro

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3367-01,02 4013-01	JC 4/7/09 13:04	4/13/09 JC 15:35		TSS
4028-01 4032-02	↓	↓		↓
3295-04 3296-02-08	16:10 4/13/09	17:45 4/13/09		Hg
3302-02-08 3303-01-02	↓	↓		↓
3313-02-10 3334-01 3334-02-10 3352-01-04	↓	↓		↓
090 090	9:05 From Login RB 4-4-09	9:50 4-4-09	From Login	Metals
3364-01,02 4015-01	VM 4-6-09 9:55 VM	VM 4-6-09 17:00		TPO4
4016-01 4017-01	↓	↓		↓
03362-01-26 03352-01-06	KH 4/6/09 9:10	KH 4/6/09 10:17		metals
03286-03-06 04045-01	↓	↓		↓
04016-01 04017-01 04015-01	↓	↓		↓
03364-01,02	KBG 9:40 4/6/09	10:15 KBG 4/6/09		ClO4
04030-01; 04031-01; 04032-01; 04037-01; 04038-01,2; 04040-3,4,5; 04044-01	KMV 4/6/09 9:50			BNA
04036-01	↓			Flo Pro
4042-01 3352-01	VM 4-6-09 10:15	VM 4-6-09 11:20		pH
3345-01 4032-02	↓	↓		↓
4027-01 4028-4	JC 4/6/09 10:34	JC 4/6/09 12:55		NH3 exp
04019-2-6 04020-1-3 04043-1-11	AF 4/6/09 10:45			
03286-01-09 sol. 03296-02-08 sol.	KH 4/7/09 8:50	KH 4/7/09 10:35		metals
03302-02-08 sol. 03313-02-10 sol. 03334-02-07 sol. 03288-07-09 tot. 03295-04 tot. 03296-02-08 tot. 03302-02-08 tot. 03303-01-02 tot.				

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #s	Fraction	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reasons for Inserting/Removal: Screening/ Cleanup	Re-Analysis	Analysis	Dilution	Standard Inserted in Process	Extract Inserted/ Completed
3313-2-10	pest	3:05 GI 3/26/09							X
03311-01,2, 03312-01-04	Pest	KMV 3/26/09 15:40							X
03304-03,04	DRO	↓							X
3036:01 C. 3219-01	pest	4:00 WL 3/26/09	3:20 WL 3/26/09						X
3234:01-02 CV 3263:01-02	↓	↓	↓						X
3188:06-07 3321:01-02	PCB	2:05 WL Acid 3/27/09	1:30 WL Acid 3/27/09						X
03293-3 03301-1-2 0332-1-4	PCB	AF 14:37 3/27/09							
3188-1,20 3140-1-4 3039-1 3065-1 3062-3 3039-1,2,3,4	EXPL	↓	M. M. 3/27/09 12:00 PM			X			
3043-1-3 3082-1-3 3043-4,5 3082-3 3067-8,15,17 3081-1,2-11	↓		↓			X			
3205-7-9 3158-1-4 3208 4,5 3187-2-7 3221-2-35 3188-20 3207-1	↓					X			
3290-2-3	BNA	AF 17:00 3/27/09							X
03251-1 13,5,7,9,11,13,15 17,19 03262-1-19 odd	FLPRO	↓							X
03215-1	PCB		AF 17:00 3/27/09			X			
03326-1-5, 7-21	PAH	AF 17:00 3/27/09							X
03325-1-6 03334-2-10	EXP	↓							X

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #'s	Location	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reasons for Inserting/Removal: Screening/Cleanup	Re-Analysis	Analysis	Dilution	Inserted in Process	Extract Transferred/Completed
04026-01	F-PRO	KMV 4/6/09 14:50							X
3219-1-4; 3234-1-2 3263-1-2; 3285-1-5	EXPL	K.M. 3:45 4/6/09	K.M. 2:30 pm 4/6/09			X			
04030-1; 04031-1; 04032-1; 04037-1; 04038-01,7; 04040-2,4,5; 04044-81	BNA	KMV 4/6/09 15:30							X
3293-1-3; 3301-1-2 3312-1-4	EXPL	K.M. 3:20 4/6/09	K.M. 2:50 pm 4/6/09			X			
04019-2-6; 04020-1,2; 04043-1-11	EXP	KMV 4/6/09 17:10							X
4014-1	PCB	K.M. 4/7/09 9:20 AM	K.M. 4/7/09 9:00 AM			X			
4030-1, 4031-1, 4032-1, 4037-1,	BNA	3:30 4/8/09 M	10:00 4/7/09 M			✓			
4038-1,2 4040-2,4,5		|	|			✓			
4044-1		|	|			✓			
3345-4	Herb.	4/07/09 ML 1:15P	4/07/09 ML 5:00P			✓			
04046-24, 29-32, 36; 04047-02; 04052-01-3; 08-16, 14, 15, 17, 18	BNA	KMV 4/7/09 15:05							X
04058-04-13 X KMV	BNA	KMV 4/8/09 17:45							X
04046-01-04; 04047-01; 04052-20-29	BNA	↓							X
3281-1; 3345-1; 3302-2-8 3265-1; 3268-1-8; 3286-1-5; 3286-6-9	PEST	K.M. 4/8/09 2:00pm	K.M. 4/8/09 1:00pm			X			
3289-1-4; 3296-2-8	↓	↓	↓			↓			

HOBART SAMPLE EXTRACT CUSTODY FORM

Sample Log #'s	Extraction	Time/Date/Initials Inserted	Time/Date/Initials Removed	Reasons for Inserting/Removal: Screening/Cleanup	Re-Analysis	Analysis	Dilution	Extract Insertion in Probes	Extract Transferred/Completed
04090-21-28	PCB	KMV 4/10/09 17:10							X
3325·1-6; 3336·2-16 3334·2-10	EXP	J.M 4/14/09 5:30pm	J.M 4/10/09 5:00pm			X			
3332·1-5; 3339·1-5 3354·1-4; 3355·1-4	EXP	4/11/09 J.M 7:30am	4/11/09 7:00am J.M			X			
3360·2-8	↓	↓	↓			X			
4002.01; 3309.01; 3043-4 3205.4-8; 3266.01 3158·1,3; 3187·2,4 3268.2-4,6; 3122.1-3 3221.2-4; 3208-2-5	EXTL	11:00 pm / 4.12.09 J.H.	9:30 pm / 4.12.09 J.H.			X			
	↓	↓	↓			X			
04052·04·02	Herb	KMV 4/13/09 12:35							X
4026·1	FL PRO	J.M. 4/13/09 2:20 pm	J.M 4/13/09 2:00 pm			X			
4078-1-4	DRO	↓	↓			X			
04052-4-7	Pest	AF 4/13/09 16:50							X
04052-H-7 04065-1	BNA	↓							X
04085-01-07 04088-01-04	PAH	KMV 4/14/09 12:00							X
04074-01	DRO	AF 4/14/09 11:20							X
		↓							X
04046-3 04081-1	BNA								
3058-1-5 3064-4,5 3124-1 4040-2,4,5 3049-3,4	BNA		2:30 4/14/09		✓	✓			

EMLB

microwave

Fraction: EPH / PRO / DRO Matrix: Water / Soil

Logbook # EX089 Supervisor AF 4/1/09

#	Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
1	TetraTech	0903251-01	9/26/09	KMV	NA	15.0	2.0	1.0	KMV	NA	NA	PRG	NA	NA	AF	086697	N/A						re-extracted	1
2		-03	3/27/09					090066		NA	NA	U4												2
3		-05	9:50							NA	NA	R39												3
4		-07								NA	NA	G25												4
5		-09								NA	NA	SL2												5
6		-11								NA	NA	PR9												6
7		-13								NA	NA	U17												7
8		-15								NA	NA	U3												8
9		-17								NA	NA	PR7												9
10		-19								NA	NA	PR1												10
11		0903262-01								NA	NA	P122												11
12		-03								NA	NA	P1												12
13		-05								NA	NA	G11												13
14		-07								NA	NA	R48												14
15		-09								NA	NA	R31												15
16		-11								NA	NA	R40												16
17		-13								NA	NA	R20												17
18		-15								NA	NA	R34												18
19		-17								NA	NA	P13												19
20		-19								NA	NA	R15												20
	MB	1-20	SAS	SAS	NA	15.0	2.0	SAS	SAS	—	—	PRB	↑	↓	PRB/	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	LCS	↓	SAS	SAS				SAS	SAS	1.0	KMV	P10	NA	ND	P10	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
	MS	0903262-01	SAS	SAS				SAS	SAS	090066		R22			R22	SAS	SAS	SAS	SAS	SAS	SAS	SAS	6H, 6	
	MSD	↓	SAS	SAS	↓	↓	↓	SAS	SAS	↓	↓	P133	↓	↓	P133	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
			SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

Note: All volumes are in milliliters and weights are in grams.

Fraction: EPH / PRO / DRO Matrix: Water / Soil Logbook # EX085 Supervisor

Client	Lab No.	Date Extracted	Setup Initials	pH	Initial g / mL	Final Volume	Surr Added	Surr Initials	Spike Added	Spike Initials	KD	10ml Conc.	15ml Cent.	Conc. Initials	Solvent Lot/Vendor MeCl2	Solvent Lot/Vendor Hexane	Na2SO4 Lot Used	Cartridge Lot Used	Fract. Surr. Added	Date Fract.	Fract. Initials	Notes/ Comments	#
TetraTech	090402b-01	9/01/2008	KMV	2	10.80	2.0	1.0	KMV	NA	NA	R23	NA	NA	KMV	286958	NA						A	1
		4/6/09					080269		NA	NA													2
		10:35							NA	NA													3
									NA	NA													4
									NA	NA													5
									NA	NA													6
									NA	NA													7
									NA	NA													8
									NA	NA													9
									NA	NA													10
									NA	NA													11
									NA	NA													12
									NA	NA													13
									NA	NA													14
									NA	NA													15
									NA	NA													16
									NA	NA													17
									NA	NA													18
									NA	NA													19
																							20
MB	1	SAS	SAS	NA	10.00	2.0	SAS	SAS		KMV	R40	NA	NA	KMV	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
LCS	↓	SAS	SAS	↓	↓	↓	SAS	SAS	1.0	↓	P1	↓	↓	↓	SAS	SAS	SAS	SAS	SAS	SAS	SAS		
LCSD		SAS	SAS				SAS	SAS	090008		V11				SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		
		SAS	SAS				SAS	SAS							SAS	SAS	SAS	SAS	SAS	SAS	SAS		

ote: All volumes are in milliliters and weights are in grams.

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 4250 08J0128				
3	Vial 3	DRO 1000 08K0087				
4	Vial 4	DRO 5000 08K0078				
5	Vial 5	DRO 2500 08K0079				
6	Vial 6	DRO 1000 08K0079				
7	Vial 7	DRO 500 08K0095				
8	Vial 8	DRO 250 08L0156				
9	Vial 9	DRO100 08L0156				
10	Vial 10	DRO ICV 08K0094				
11	Vial 11	DRO 1000 08K0087				
12	Vial 12	DW1BLK0310				
13	Vial 13	DW1BLK0310LCS				
14	Vial 14	DW1BLK0310LCSD				
15	Vial 15	0903111-01				
16	Vial 16	0903111-02				
17	Vial 17	DRO 1000 08K0083				
18	Vial 18	PRO 8500 08J0126				
19	Vial 19	PRO 5950 08J0127				
20	Vial 20	PRO 4250 08J0128				
21	Vial 21	PRO 2550 08J0129				
22	Vial 22	PRO 850 08J0131				
23	Vial 23	PRO 85 08J0136				
24	Vial 24	PRO ICV 7364				
25	Vial 25	PW1BLK0306				
26	Vial 26	MDL01;H2O				
27	Vial 27	MDL02;H2O				
28	Vial 28	PRO 4250 09A0066				
29	Vial 29	PW1BLK0309				
30	Vial 30	PW1BLK0309LCS				
31	Vial 31	PW1BLK0309LCSD				
32	Vial 32	0903037-02				
33	Vial 33	0903037-03				
34	Vial 34	0903055-02				
35	Vial 35	0903055-03				
36	Vial 36	0903055-04				
37	Vial 37	0903055-05				
38	Vial 38	0903075-02				
39	Vial 39	0903075-03				
40	Vial 40	0903075-04				
41	Vial 41	PRO 4250 09A0065				

3111-1-2 X1

MDL H_2O 1-2 X1

3037-2-3; 3055-2-3,4,5; 3075-2,3,4 X1

Sequence Table (Back Injector):

No entries — empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 4250 9A0069				
3	Vial 3	FS1BLK0327				
4	Vial 4	FS1BLK0327LCS				
5	Vial 5	0903262-01				
6	Vial 6	0903262-01;MS				
7	Vial 7	0903262-01;MSD				
8	Vial 8	0903262-03				
9	Vial 9	0903262-05				
10	Vial 10	0903262-07				
11	Vial 11	0903262-09				
12	Vial 12	0903262-11				
13	Vial 13	0903262-13				
14	Vial 14	0903262-15				
15	Vial 15	0903262-17				
16	Vial 16	0903262-19				
17	Vial 17	PRO 4250 9A0069				
18	Vial 18	FW1BLK0324				
19	Vial 19	FW1BLK0324LCS				
20	Vial 20	FW1BLK0324LCSD				
21	Vial 21	0903251-21				
22	Vial 22	PRO 4250 9A0057				

3262 · 1,3,5,7,9,11,13,15,17,19 X1

3251 · 21 X1

4/3/09

~~Sequence Table (Back Injector)~~:

~~No entries~~ - empty table!

FRONT Lml. 4/16/09

Sequence Table (~~Front~~/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	MECL				
2	Vial 2	PRO 8500 09D0223				
3	Vial 3	PRO 5950 09D0224				
4	Vial 4	PRO 425009D0225				
5	Vial 5	PRO 2550 09D0226				
6	Vial 6	PRO 850 09D0227				
7	Vial 7	PRO 85 09D0228				
8	Vial 8	PRO ICV 09D0233				
9	Vial 9	PRO 4250 09D0029				
10	Vial 10	FS1BLK00406	4026-1 ↓	x1 ↓		
11	Vial 11	FS1BLK00406LCS				
12	Vial 12	FS1BLK00406LCSD				
13	Vial 13	0904026-01				
14	Vial 14	PRO 4250 09D0030				

Flame alone 4/14/09

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

%SOLIDS

Client(s):
TT NUS

Empirical Laboratories

Analyst: KBG
Method #: 2540
Method Type: Gravimetric

Date on: 3/20/2009
Time on: 11:30

Date off: 3/23/2009
Time off: 9:10

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	0903251-17			1.0079	5.6907	6.5587	97.5			
2	Sample	0903251-18			0.9849	5.4681	6.3017	97.2			
3	Sample	0903251-19			0.9805	6.0210	6.8018	96.7			
4	Sample	0903251-20			0.9966	5.1127	5.9098	96.1			
5	Sample	0903262-01		TT NUS	0.9890	5.8840	6.6595	96.4			
6	Duplicate	0903262-01		TT NUS	0.9913	5.0091	5.8177	96.4	0.01959	+/-20%	
7	Sample	0903262-02		TT NUS	0.9969	5.6763	6.5013	97.0			
8	Duplicate	0903262-02		TT NUS	0.9761	5.7029	6.4973	96.8	0.16277	+/-20%	
9	Sample	0903262-03		TT NUS	0.9685	6.1246	6.8602	96.2			
10	Sample	0903262-04		TT NUS	1.0066	5.4648	6.2528	96.0			
11	Sample	0903262-05		TT NUS	1.0015	6.4409	7.2808	97.5			
12	Sample	0903262-06		TT NUS	0.9787	6.0400	6.8524	97.2			
13	Sample	0903262-07		TT NUS	0.9800	5.7053	6.4630	96.1			
14	Sample	0903262-08		TT NUS	0.9970	5.3779	6.0418	93.8			
15	Sample	0903262-09		TT NUS	0.9934	5.3123	6.0137	94.5			
16	Sample	0903262-10		TT NUS	1.0068	5.4509	5.7867	87.7			
17	Sample	0903262-11		TT NUS	0.9862	5.5002	6.2761	96.2			
18	Sample	0903262-12		TT NUS	0.9770	5.9407	6.6865	96.1			
19	Sample	0903262-13		TT NUS	0.9740	5.4485	6.2632	97.1			
20	Sample	0903262-14		TT NUS	0.9974	5.9915	6.8161	97.1			
21	Sample	0903262-15		TT NUS	0.9820	6.1007	6.8950	96.9			

Comments:

Batch: 9C20011

%SOLIDS

Client(s):
TT NUS

Empirical Laboratories

Analyst: KBG
Method #: 2540
Method Type: Gravimetric

Date on: 3/20/2009
Time on: 11:40

Date off: 3/23/2009
Time off: 9:10

Analyst Authorization: _____
Balance: Wet Chem #2

Cruc. ID.	Sample Type	Sample Number	Field ID.	Client	Boat Mass (gm)	Sample Mass, Wet (gm)	Sample Mass, Dry + Boat Mass (gm)	*% Solids DL = 1.0%*	*RPD %*	*Control Limit %*	*Comments*
1	Sample	0903262-16		TT NUS	0.9934	5.1883	5.8644	93.9			
2	Sample	0903262-17		TT NUS	0.9973	6.0553	6.9083	97.6			
3	Sample	0903262-18		TT NUS	1.0024	5.6657	6.4254	95.7			
4	Sample	0903262-19		TT NUS	0.9812	5.6822	6.2898	93.4			
5	Sample	0903262-20		TT NUS	0.9690	5.4831	6.0644	92.9			
6	Sample	0903263-01			0.9727	5.0481	4.5652	71.2			
7	Sample	0903263-02			0.9702	5.1118	4.3812	66.7			
8	Duplicate	0903263-02			0.9803	6.1635	5.0557	66.1	0.91297	+/-20%	

Comments:

Batch: 9C20012

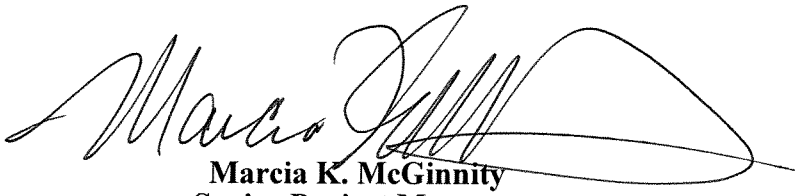
Anlaytical Report

Main Data Package - Inorganic

Tetra Tech NUS, Inc.

SDG #Mayport004

Empirical Laboratories, LLC



Marcia K. McGinnity
Senior Project Manager

April 24, 2009

THIS DOCUMENT MEETS NELAC STANDARDS

NELAC Certification #TN473

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SDG #Mayport004

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INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport004
Work Order # 0903262, 0904026
March/April, 2009

Empirical Laboratories ID	Client ID
0903262-01	MPT-AOCF-SS14-0.5
0903262-03	MPT-AOCF-SS15-0.5
0903262-05	MPT-AOCF-SS16-0.5
0903262-07	MPT-AOCF-SS17-0.5
0903262-09	MPT-AOCF-SS18-0.5
0903262-11	MPT-AOCF-SS19-0.5
0903262-13	MPT-AOCF-SS20-0.5
0903262-15	MPT-AOCF-SS21-0.5
0903262-17	MPT-AOCF-SS22-0.5
0903262-19	MPT-AOCF-SS23-0.5
0904026-01	MPT-AOC-F-MW1

I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Betty DeVille
Inorganic Lab Manager

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

The samples were digested for ICAP metals by USEPA SW846 Method 3050B for soils and 3005A for waters and analyzed by method 6010B. Method 7471A was used to digest and analyze soil mercury and method 7470A was used for water samples. Standard Methods method 2540B was used to analyze percent solids. Note: The "I" flag indicates that the analyte result is between the laboratory reporting limit and the laboratory MDL. All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

INORGANIC CASE NARRATIVE
TETRA TECH NUS, Inc.
Mayport004
Work Order # 0903262, 0904026
March/April, 2009

IV. PREPARATION

All methods performed according to EPA guidelines and Empirical Laboratories Standard Operating Procedures.

V. ANALYSIS:

A. Calibration: All calibration criteria were met.

B. Blanks: All blank criteria were met.

C. Spikes: All matrix spikes quality control criteria were met.

D. Duplicates: All duplicate quality control criteria were met.

E. Samples: All sample analysis proceeded normally.

F. Laboratory Control Samples: All percent recovery quality control criteria were met.

Tetra Tech NUS, Inc.

Parameters Requested

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0903262-01	MPT-AOCF-SS14-0.5	Soil	03/18/2009 09:10	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-02	MPT-AOCF-SS14-1.0	Soil	03/18/2009 09:15	% Solids
0903262-03	MPT-AOCF-SS15-0.5	Soil	03/18/2009 09:40	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-04	MPT-AOCF-SS15-1.0	Soil	03/18/2009 09:45	% Solids
0903262-05	MPT-AOCF-SS16-0.5	Soil	03/18/2009 09:50	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-06	MPT-AOCF-SS16-1.0	Soil	03/18/2009 09:55	% Solids
0903262-07	MPT-AOCF-SS17-0.5	Soil	03/18/2009 10:00	% Solids
				Arsenic

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0903262-07	MPT-AOCF-SS17-0.5	Soil	03/18/2009 10:00	Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-08	MPT-AOCF-SS17-1.0	Soil	03/18/2009 10:05	% Solids
0903262-09	MPT-AOCF-SS18-0.5	Soil	03/18/2009 10:10	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-10	MPT-AOCF-SS18-1.0	Soil	03/18/2009 10:15	% Solids
0903262-11	MPT-AOCF-SS19-0.5	Soil	03/18/2009 10:30	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-12	MPT-AOCF-SS19-1.0	Soil	03/18/2009 10:35	% Solids
0903262-13	MPT-AOCF-SS20-0.5	Soil	03/18/2009 10:40	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0903262-14	MPT-AOCF-SS20-1.0	Soil	03/18/2009 10:45	% Solids
0903262-15	MPT-AOCF-SS21-0.5	Soil	03/18/2009 10:50	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-16	MPT-AOCF-SS21-1.0	Soil	03/18/2009 10:55	% Solids
0903262-17	MPT-AOCF-SS22-0.5	Soil	03/18/2009 11:00	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-18	MPT-AOCF-SS22-1.0	Soil	03/18/2009 11:05	% Solids
0903262-19	MPT-AOCF-SS23-0.5	Soil	03/18/2009 11:20	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0903262-20	MPT-AOCF-SS23-1.0	Soil	03/18/2009 11:25	% Solids

Tetra Tech NUS, Inc.

Parameters Requested

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0904026-01	MPT-AOC-F-MW1	Water	04/01/2009 11:23	Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0831 | PAGE ____ OF ____

PROJECT NO: 112G00538	FACILITY: MPT / AOC-F	PROJECT MANAGER David Siefken	PHONE NUMBER 904-334-7260	LABORATORY NAME AND CONTACT: Empirical Laboratory / J. Shilling
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS 621 Mainstream Dr, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

0903262

DATE YEAR 2009	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								COMMENTS
									PRESERVATIVE USED	—	—	—					
									TYPE OF ANALYSIS	RCRA METALS 6010 (Appendix IX)	TRPH - FL PRO	8270 (Appendix IX) BNA	8260 VOC (Appendix IX)				
-01 3/18	0910	MPT-AOC-F-SS14-0.5				SO	G	9	3	3	3						Cool to 4°C
-02 3/18	0915	MPT AOC F SS14 ~~0.5~~ 1.0				SO	G	12				12					
-03 3/18	0940	MPT AOC F-SS15 - 0.5				SO	G	3	1	1	1						MS/MSD = AOC-F-SS14
-04 3/18	~~0945~~	MPT AOC F-SS15-1.0				SO		4				4					
-05 3/18	0950	MPT AOC F SS16-~~1.0~~ 0.5				SO		3	1	1	1						
-06 3/18	0955	MPT AOC F SS16 - 1.0				SO		4				4					
-07 3/18	1000	MPT AOC F SS17 0.5				SO		3	1	1	1						
-08 3/18	1005	MPT AOC F SS17 1.0				SO		4				4					
-09 3/18	1010	MPT-AOC F SS18 0.5				SO		3	1	1	1						
-10 3/18	1015	MPT AOC F SS18 1.0				SO		4				4					
-11 3/18	1030	MPT AOC F SS19 0.5				SO		3	1	1	1						
-12 3/18	1035	MPT AOC F SS19 1.0				SO		4				4					

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 3-19-09	TIME 0900

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 26404 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY, NAME AND CONTACT:
112G00538	MPT / AOC-F	David Siefken	904-334-7260	Empirical Lab / J Shilling
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS: 621 Mainstream Dr, Suite 280
		CARRIER/WAYBILL NUMBER		CITY, STATE: Nashville, FL 37228

STANDARD TAT [X]
RUSH TAT [ ] ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

0903262

	DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: RCRA Metals 6010 (Appendix IX)	TRPH - FL Pro	8270 (BNA Appendix IX)	8260 VOC (Appendix IX)	COMMENTS
-13	3/18	1040	MPT-AOC F SS20 0.5				So	G	3			1	1	1		Cool to 4°C
-14	3/18	1045	MPT AOC F SS20 1.0				So	G	4						4	
-15	3/18	1050	MPT. AOC F SS21 0.5				So	G	3			1	1	1		
-16	3/18	1055	MPT AOC F SS21 1.0				So	G	4						4	
-17	3/18	1100	MPT AOC F SS22 0.5				So	G	3			1	1	1		
-18	3/18	1105	MPT AOC F SS22 1.0				So	G	4						4	
-19	3/18	1120	MPT AOC F SS23 0.5				So	G	3			1	1	1		
-20	3/18	1125	MPT AOC F SS23 1.0				So	G	4						4	
-21	3/18	1400	Trip Blank # 5872				QC	QC	2						2 Liquid	
-22	3/18	1408	Trip Blank 6830				QC	QC	2						2	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	3-19-09	0900

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903262 Number of Coolers: 1 of 2

Client: Tetra Tech NUS Project: CTO-050

Date/Time Received: **03/19/09 09:00** Date cooler(s) opened: **03/19/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
   EL Courier Other: _____

If applicable, enter airbill number here: 2997

2. Were custody seals on outside of cooler(s)? ..... (Yes) No ?

How many: 2 Seal date: 3/18/09 Seal Initials: _____

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 0.5°C

Dates samples were logged-in: **03/19/09**

9. Initial this form to acknowledge login of sample(s): (Name): E.J. Overby (Initial): EJO

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
17. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0903262 Number of Coolers: 2 of 2

Client: Tetra Tech NUS Project: CTO-050

Date/Time Received: **03/19/09 09:00** Date cooler(s) opened: **03/19/09**

Opened By (print): **WILLIAM SCHWAB** (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2986

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 3/18/09 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE Temperature of Samples upon Receipt: 1.8°C

Dates samples were logged-in: **03/19/09**

9. Initial this form to acknowledge login of sample(s): (Name): E.J. Overby (Initial): EJO

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
17. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

_____

_____ CAR#: _____

Sample Delivery Group Assignment Form

Matrix: Water / Soil.
QC LEVEL: Level III/EDD
Analyt. Due: 3/30/2009
Report Due: 4/2/2009 10BD TAT

Client: TetraTech NUS, Inc.
Project Name: NAS Mayport CTO050
SDG #: Mayport_004

Sample Type/count	Date Sampled	Date Received	Work Order	Client ID	VOA 8260B	SVOC 8270C	PRO	Metals 6010B
1	3/18/09 0:00	03/19/09	0903262-01	MPT-AOCF-SS14-0.5	X	X	X	X
2	3/18/09 0:00	03/19/09	0903262-02	MPT-AOCF-SS14-1.0	X			
3	3/18/09 0:00	03/19/09	0903262-03	MPT-AOCF-SS15-0.5	X	X	X	X
4	3/18/09 0:00	03/19/09	0903262-04	MPT-AOCF-SS15-1.0	X			
5	3/18/09 0:00	03/19/09	0903262-05	MPT-AOCF-SS16-0.5	X	X	X	X
6	3/18/09 0:00	03/19/09	0903262-06	MPT-AOCF-SS16-1.0	X			
7	3/18/09 0:00	03/19/09	0903262-07	MPT-AOCF-SS17-0.5	X	X	X	X
8	3/18/09 0:00	03/19/09	0903262-08	MPT-AOCF-SS17-1.0	X			
9	3/18/09 0:00	03/19/09	0903262-09	MPT-AOCF-SS18-0.5	X	X	X	X
10	3/18/09 0:00	03/19/09	0903262-10	MPT-AOCF-SS18-1.0	X			
11	3/18/09 0:00	03/19/09	0903262-11	MPT-AOCF-SS19-0.5	X	X	X	X
12	3/18/09 0:00	03/19/09	0903262-12	MPT-AOCF-SS19-1.0	X			
13	3/18/09 0:00	03/19/09	0903262-13	MPT-AOCF-SS20-0.5	X	X	X	X
14	3/18/09 0:00	03/19/09	0903262-14	MPT-AOCF-SS20-1.0	X			
15	3/18/09 0:00	03/19/09	0903262-15	MPT-AOCF-SS21-0.5	X	X	X	X
16	3/18/09 0:00	03/19/09	0903262-16	MPT-AOCF-SS21-1.0	X			
17	3/18/09 0:00	03/19/09	0903262-17	MPT-AOCF-SS22-0.5	X	X	X	X
18	3/18/09 0:00	03/19/09	0903262-18	MPT-AOCF-SS22-1.0	X			
19	3/18/09 0:00	03/19/09	0903262-19	MPT-AOCF-SS23-0.5	X	X	X	X
20	3/18/09 0:00	03/19/09	0903262-20	MPT-AOCF-SS23-1.0	X			
TB	3/18/09 0:00	03/19/09	0903262-21	Trip Blank #5872	X			
TB	3/18/09 0:00	03/19/09	0903262-22	Trip Blank #6830	X			

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

SOW No.: _____

EPA Sample No.	Lab Sample ID.
MPT-AOCF-SS14-0.5	0903262-01
MPT-AOCF-SS14-0.5S	0903262-01S
MPT-AOCF-SS14-0.5SD	0903262-01SD
MPT-AOCF-SS15-0.5	0903262-03
MPT-AOCF-SS16-0.5	0903262-05
MPT-AOCF-SS17-0.5	0903262-07
MPT-AOCF-SS18-0.5	0903262-09
MPT-AOCF-SS19-0.5	0903262-11
MPT-AOCF-SS20-0.5	0903262-13
MPT-AOCF-SS21-0.5	0903262-15
MPT-AOCF-SS22-0.5	0903262-17
MPT-AOCF-SS23-0.5	0903262-19
MPT-AOC-F-MW1	0904026-01
MPT-AOC-F-MW1S	0904026-01S
MPT-AOC-F-MW1SD	0904026-01SD

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: D. Rick Davis

Date: _____ Title: Vice President

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS14-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-01

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.4 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1		U		P
7440-39-3	Barium	1.0	8.3	6.2	I		P
7440-43-9	Cadmium	0.21	1.0	0.42	I		P
7440-47-3	Chromium	0.41	2.1	2.4			P
7439-92-1	Lead	0.31	0.62	0.82			P
7782-49-2	Selenium	0.62	1.0	1.0			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS14-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-01

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.4 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS15-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-03

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.2 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1		U		P
7440-39-3	Barium	1.0	8.3	6.8	I		P
7440-43-9	Cadmium	0.21	1.0	0.27	I		P
7440-47-3	Chromium	0.42	2.1	3.2			P
7439-92-1	Lead	0.31	0.62	1.6			P
7782-49-2	Selenium	0.62	1.0	0.65	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS15-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-03

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.2 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS16-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-05

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.5 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.60	2.0	2.2			P
7440-39-3	Barium	1.0	8.0	4.5	I		P
7440-43-9	Cadmium	0.20	1.0		U		P
7440-47-3	Chromium	0.40	2.0	2.0	I		P
7439-92-1	Lead	0.30	0.60	0.98			P
7782-49-2	Selenium	0.60	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS16-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-05

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.5 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.032		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS17-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-07

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.1 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1	0.87	I		P
7440-39-3	Barium	1.0	8.2	3.4	I		P
7440-43-9	Cadmium	0.21	1.0		U		P
7440-47-3	Chromium	0.41	2.1	1.8	I		P
7439-92-1	Lead	0.31	0.62	0.72			P
7782-49-2	Selenium	0.62	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS17-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-07

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.1 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.033		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS18-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-09

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 94.5 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.63	2.1	1.3	I		P
7440-39-3	Barium	1.0	8.4	10.3			P
7440-43-9	Cadmium	0.21	1.0	0.38	I		P
7440-47-3	Chromium	0.42	2.1	4.1			P
7439-92-1	Lead	0.31	0.63	133			P
7782-49-2	Selenium	0.63	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS18-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-09

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 94.5 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.035	0.028	I		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS19-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-11

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.2 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.62	2.1	0.74	I		P
7440-39-3	Barium	1.0	8.3	5.8	I		P
7440-43-9	Cadmium	0.21	1.0	0.23	I		P
7440-47-3	Chromium	0.42	2.1	3.2			P
7439-92-1	Lead	0.31	0.62	1.9			P
7782-49-2	Selenium	0.62	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS19-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-11

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.2 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.032		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS20-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-13

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.1 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.61	2.0	1.5	I		P
7440-39-3	Barium	1.0	8.2	6.3	I		P
7440-43-9	Cadmium	0.20	1.0	0.24	I		P
7440-47-3	Chromium	0.41	2.0	4.3			P
7439-92-1	Lead	0.31	0.61	2.4			P
7782-49-2	Selenium	0.61	1.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS20-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-13

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.1 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS21-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-15

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.9 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.60	2.0	0.66	I		P
7440-39-3	Barium	1.0	8.0	5.0	I		P
7440-43-9	Cadmium	0.20	1.0	0.55	I		P
7440-47-3	Chromium	0.40	2.0	2.1			P
7439-92-1	Lead	0.30	0.60	1.5			P
7782-49-2	Selenium	0.60	1.0	0.76	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS21-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT_004

Matrix: SOIL Lab Sample ID: 0903262-15

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 96.9 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.032		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS22-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-17

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.6 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.20	2.0		U		P
7440-38-2	Arsenic	0.61	2.0		U		P
7440-39-3	Barium	1.0	8.1	6.6	I		P
7440-43-9	Cadmium	0.20	1.0	0.29	I		P
7440-47-3	Chromium	0.41	2.0	2.4			P
7439-92-1	Lead	0.30	0.61	3.1			P
7782-49-2	Selenium	0.61	1.0	0.71	I		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS22-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-17

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 97.6 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.014	0.034	0.047			AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS23-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-19

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 93.4 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	0.21	2.1		U		P
7440-38-2	Arsenic	0.64	2.1	1.3	I		P
7440-39-3	Barium	1.1	8.6	8.2	I		P
7440-43-9	Cadmium	0.21	1.1	0.64	I		P
7440-47-3	Chromium	0.43	2.1	3.6			P
7439-92-1	Lead	0.32	0.64	14.8			P
7782-49-2	Selenium	0.64	1.1		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7471A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOCF-SS23-0.5

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: SOIL Lab Sample ID: 0903262-19

Level (low/med): LOW Date Sampled: 03/18/09

% Solids: 93.4 Date Received: 03/19/09

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.013	0.034		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 6010B
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: WATER Lab Sample ID: 0904026-01

Level (low/med): LOW Date Sampled: 04/01/09

% Solids: 0.0 Date Received: 04/02/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7440-22-4	Silver	1.0	10.0		U		P
7440-38-2	Arsenic	3.0	10.0		U		P
7440-39-3	Barium	5.0	40.0	12.8	I		P
7440-43-9	Cadmium	1.0	5.0		U		P
7440-47-3	Chromium	2.0	10.0		U		P
7439-92-1	Lead	1.5	3.0		U		P
7782-49-2	Selenium	3.0	5.0		U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - 7470A
- 1 -
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MPT-AOC-F-MW1

Lab Name: Empirical Labs Contract: TetraTech NUS, Inc.

Lab Code: ELABN Case No.: SAS No.: SDG: MAYPORT 004

Matrix: WATER Lab Sample ID: 0904026-01

Level (low/med): LOW Date Sampled: 04/01/09

% Solids: 0.0 Date Received: 04/02/09

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	MDL	PQL	Concentration	C	Q	M
7439-97-6	Mercury	0.080	0.20		U		AV

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic	1000.0	1012.10	101.2	1000.0	1000.30	100.0	1000.40	100.0	P
Barium	1000.0	1032.70	103.3	1000.0	1035.60	103.6	1048.10	104.8	P
Cadmium	1000.0	1039.10	103.9	1000.0	1027.20	102.7	1031.40	103.1	P
Chromium	1000.0	962.77	96.3	1000.0	967.21	96.7	980.86	98.1	P
Lead	1000.0	966.01	96.6	1000.0	972.73	97.3	986.62	98.7	P
Mercury	2.0	2.13	106.5	4.0	3.91	97.8	3.91	97.8	AV
Selenium	1000.0	1021.70	102.2	1000.0	996.34	99.6	1007.40	100.7	P
Silver	500.0	479.60	95.9	500.0	481.98	96.4	478.00	95.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000.0	1012.20	101.2	1019.50	102.0	P
Barium				1000.0	1047.00	104.7	1054.10	105.4	P
Cadmium				1000.0	1037.50	103.8	1045.20	104.5	P
Chromium				1000.0	967.52	96.8	928.81	92.9	P
Lead				1000.0	985.12	98.5	1001.00	100.1	P
Mercury				2.0	1.90	95.0			AV
Selenium				1000.0	1009.70	101.0	1015.60	101.6	P
Silver				500.0	483.82	96.8	479.27	95.9	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000.0	998.43	99.8	1000.0	998.06	99.8	1010.90	101.1	P
Barium	1000.0	1051.90	105.2	1000.0	1055.90	105.6	1049.20	104.9	P
Cadmium	1000.0	1036.00	103.6	1000.0	1027.10	102.7	1031.60	103.2	P
Chromium	1000.0	960.14	96.0	1000.0	1010.40	101.0	954.03	95.4	P
Lead	1000.0	973.44	97.3	1000.0	980.03	98.0	978.92	97.9	P
Mercury	4.0	3.92	98.0	4.0/2.0	3.77	94.2	1.88	94.0	AV
Selenium	1000.0	1016.00	101.6	1000.0	1005.60	100.6	994.32	99.4	P
Silver	500.0	484.50	96.9	500.0	486.55	97.3	487.96	97.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Initial Calibration Source: Accustandard,HighPurity

Continuing Calibration Source: Spex

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1013.70	101.4	1011.30	101.1	P
Barium				1000.0	1056.70	105.7	1052.30	105.2	P
Cadmium				1000.0	1043.60	104.4	1045.10	104.5	P
Chromium				1000.0	918.31	91.8	910.97	91.1	P
Lead				1000.0	980.58	98.1	981.56	98.2	P
Mercury				2.0	1.92	96.0			AV
Selenium				1000.0	1018.90	101.9	1022.90	102.3	P
Silver				500.0	482.52	96.5	477.62	95.5	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

AA CRDL Standard Source: Ultra

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Arsenic				20.0	19.89	99.4		
Barium								
Cadmium				10.0	9.44	94.4		
Chromium				20.0	20.32	101.6		
Lead				6.0	5.65	94.2		
Mercury	0.20	0.176	88.0					
Selenium				10.0	8.59	85.9		
Silver				20.0	18.91	94.6		

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

AA CRDL Standard Source: Ultra

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Arsenic				20.0	19.34	96.7		
Barium								
Cadmium				10.0	9.99	99.9		
Chromium				20.0	19.89	99.4		
Lead				6.0	7.09	118.2		
Mercury	0.20	0.169	84.5					
Selenium				10.0	9.59	95.9		
Silver				20.0	19.15	95.8		

Control Limits: no limits have been established by EPA at this time

3

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Lead	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	P
Mercury	0.080	U	0.080	U	0.080	U	0.080	U	0.013	U	AV
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.0	U					0.600	U	P
Barium			5.0	U					1.000	U	P
Cadmium			1.0	U					0.200	U	P
Chromium			2.0	U					0.400	U	P
Lead			1.5	U					0.300	U	P
Selenium			3.0	U					0.600	U	P
Silver			1.0	U					0.200	U	P

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Lead	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Mercury	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	AV
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P

3

BLANKS

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.0	U							P
Barium			5.0	U							P
Cadmium			1.0	U							P
Chromium			2.0	U							P
Lead			1.5	U							P
Selenium			3.0	U							P
Silver			1.0	U							P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	100	-3	113.3	113.3			
Barium	0	500	2	573.6	114.7			
Cadmium	0	1000	0	1189.4	118.9			
Chromium	0	500	-2	449.5	89.9			
Lead	0	50	5	50.7	101.4			
Selenium	0	50	6	57.6	115.2			
Silver	0	200	0	201.0	100.5			

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	100	-1	114.5	114.5			
Barium	0	500	2	587.3	117.5			
Cadmium	0	1000	0	1196.3	119.6			
Chromium	0	500	-2	451.8	90.4			
Lead	0	50	4	50.7	101.4			
Selenium	0	50	9	57.8	115.6			
Silver	0	200	0	204.2	102.1			

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS14-0.5S

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	58.1543		0.6224	U	50.85	114.4		P
Barium	75 - 125	487.5926		6.2035	I	406.80	118.3		P
Cadmium	75 - 125	29.8857		0.4180	I	25.43	115.9		P
Chromium	75 - 125	42.8362		2.4168		40.68	99.4		P
Lead	75 - 125	52.2598		0.8198		50.85	101.2		P
Mercury	75 - 125	0.3624		0.0134	U	0.33	109.8		AV
Selenium	75 - 125	55.9637		1.0485		50.85	108.0		P
Silver	75 - 125	53.5758		0.2075	U	50.85	105.4		P

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS14-0.5SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	62.1411		0.6224	U	51.87	119.8		P
Barium	75 - 125	501.5352		6.2035	I	414.94	119.4		P
Cadmium	75 - 125	31.7075		0.4180	I	25.93	120.7		P
Chromium	75 - 125	43.2573		2.4168		41.49	98.4		P
Lead	75 - 125	55.0042		0.3112	U	51.87	106.0		P
Mercury	75 - 125	0.3246		0.0134	U	0.31	104.7		AV
Selenium	75 - 125	59.3403		1.4077		51.87	111.7		P
Silver	75 - 125	54.6888		0.2075	U	51.87	105.4		P

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOC-F-MW1S

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.8666		0.0800	U	2.00	93.3		AV

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOC-F-MW1SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.7857		0.0800	U	2.00	89.3		AV

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MPT-AOCF-SS14-0.5A

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic		310.26		3.00	U	250.0	124.1		P
Barium		2472.10		29.90	I	2000.0	122.1		P
Cadmium		156.79		2.01	I	125.0	123.8		P
Chromium		216.06		11.65		200.0	102.2		P
Lead		268.45		3.95		250.0	105.8		P
Selenium		296.37		5.05		250.0	116.5		P
Silver		264.01		1.00	U	250.0	105.6		P

Comments: _____

6

DUPLICATES

SAMPLE NO.

MPT-AOCF-SS14-0.5SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.4 % Solids for Duplicate: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		58.1544		62.1411		6.6		P
Barium		487.5926		501.5352		2.8		P
Cadmium		29.8857		31.7075		5.9		P
Chromium		42.8362		43.2573		1.0		P
Lead		52.2598		55.0042		5.1		P
Mercury		0.3624		0.3246		11.0		AV
Selenium		55.9637		59.3403		5.9		P
Silver		53.5758		54.6888		2.1		P

6

DUPLICATES

SAMPLE NO.

MPT-AOC-F-MW1SD

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		1.8666		1.7857		4.4		AV

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				50.0	48.9		40.0	60.0	97.8
Barium				400.0	438.3		320.0	480.0	109.6
Cadmium				25.0	25.6		20.0	30.0	102.4
Chromium				40.0	43.2		32.0	48.0	108.0
Lead				50.0	50.1		40.0	60.0	100.2
Mercury				0.33	0.35		0.3	0.4	106.1
Selenium				50.0	47.9		40.0	60.0	95.8
Silver				50.0	49.8		40.0	60.0	99.6

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				50.0	49.7		40.0	60.0	99.4
Barium				400.0	433.2		320.0	480.0	108.3
Cadmium				25.0	25.7		20.0	30.0	102.8
Chromium				40.0	40.4		32.0	48.0	101.0
Lead				50.0	49.9		40.0	60.0	99.8
Selenium				50.0	47.7		40.0	60.0	95.4
Silver				50.0	49.7		40.0	60.0	99.4

7

LABORATORY CONTROL SAMPLE

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Solid LCS Source: HighPurity

Aqueous LCS Source: HighPurity

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	250.0	233.50	93.4						
Barium	2000.0	2048.20	102.4						
Cadmium	125.0	120.80	96.6						
Chromium	200.0	190.14	95.1						
Lead	250.0	235.36	94.1						
Mercury	2.00	1.86	93.0						
Selenium	250.0	229.49	91.8						
Silver	250.0	239.22	95.7						

9
ICP SERIAL DILUTIONS

SAMPLE NO.

MPT-AOCF-SS14-0.5L

Lab Name: Empirical Laboratories Contract: TetraTech N

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	3.00	U	15.00	U			P
Barium	29.90	I	32.05	I	7.2		P
Cadmium	2.01	I	5.00	U	100.0		P
Chromium	11.65		13.49	I	15.8		P
Lead	3.95		9.54	I	141.5		P
Selenium	5.05		15.00	U	100.0		P
Silver	1.00	U	5.00	U			P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	RDL (ug/L)	MDL (ug/L)	M
Arsenic	189.0		10.0	3.0	P
Barium	233.5		40.0	5.0	P
Cadmium	228.8		5.0	1.0	P
Chromium	267.7		10.0	2.0	P
Lead	220.3		3.0	1.5	P
Selenium	196.0		5.0	3.0	P
Silver	328.0		10.0	1.0	P

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: _____ Date: 03/18/08

Flame AA ID Number: PE CVAA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	RDL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.08	AV

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	396.1	0.0000000	0.0000000	-0.0000600	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0014470	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0209590	0.0000000
Vanadium	292.4	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	K	Mn
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0002290	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	-0.0023860	0.0000000	0.0000000	-0.0003500
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Na	Ni	Pb	Sb
Aluminum	396.1	0.0317300	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.7	-0.0001730	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	-0.0012520	0.0000000	0.0001940	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	-0.0001060	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Boron	249.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000030
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Cobalt	228.6	0.0000000	0.0000000	0.0021640	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Molybdenum	202.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001550
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silicon	251.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0006540	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Aluminum	396.1	0.0000000				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Boron	249.7	0.0000000				
Cadmium	228.8	0.0000000				
Calcium	317.9	0.0000000				
Chromium	267.7	0.0000000				
Cobalt	228.6	0.0000000				
Copper	224.7	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Molybdenum	202.0	0.0000000				
Nickel	231.6	0.0000000				
Potassium	766.4	0.0000000				
Selenium	196.0	0.0000000				
Silicon	251.6	0.0000000				
Silver	328.0	0.0000000				
Sodium	330.2	0.0000000				
Strontium	421.5	0.0000000				
Thallium	190.8	0.0000000				
Tin	189.9	0.0000000				
Titanium	334.9	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments: _____

USEPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

ICP ID Number: Thermo ICP 6500 Date: 02/09/09

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	15.00	10000.0	P
Barium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Chromium	15.00	10000.0	P
Lead	15.00	10000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	2000.0	P

Comments: _____

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Method: P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
PBS032709A	03/27/09	1.00	200.0
LCSS032709A	03/27/09	1.00	200.0
MPT-AOCF-SS14-0.5	03/27/09	1.00	200.0
MPT-AOCF-SS14-0.5S	03/27/09	1.02	200.0
MPT-AOCF-SS14-0.5SD	03/27/09	1.00	200.0
MPT-AOCF-SS15-0.5	03/27/09	1.00	200.0
MPT-AOCF-SS16-0.5	03/27/09	1.02	200.0
MPT-AOCF-SS17-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS18-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS19-0.5	03/27/09	1.00	200.0
MPT-AOCF-SS20-0.5	03/27/09	1.01	200.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Method: P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
PBS032709B	03/27/09	1.00	200.0
LCSS032709B	03/27/09	1.00	200.0
MPT-AOCF-SS21-0.5	03/27/09	1.03	200.0
MPT-AOCF-SS22-0.5	03/27/09	1.01	200.0
MPT-AOCF-SS23-0.5	03/27/09	1.00	200.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Method: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
PBW041309A	04/13/09	50.0	50.0
LCSW041309A	04/13/09	50.0	50.0
MPT-AOC-F-MW1	04/13/09	50.0	50.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Method: CV

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
LCSS040209A	04/02/09	0.30	50.0
PBS040209A	04/02/09	0.30	50.0
MPT-AOCF-SS15-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS16-0.5	04/02/09	0.32	50.0
MPT-AOCF-SS17-0.5	04/02/09	0.32	50.0
MPT-AOCF-SS18-0.5	04/02/09	0.30	50.0
MPT-AOCF-SS19-0.5	04/02/09	0.33	50.0
MPT-AOCF-SS20-0.5	04/02/09	0.30	50.0
MPT-AOCF-SS21-0.5	04/02/09	0.32	50.0
MPT-AOCF-SS22-0.5	04/02/09	0.30	50.0
MPT-AOCF-SS23-0.5	04/02/09	0.32	50.0
MPT-AOCF-SS14-0.5	04/02/09	0.31	50.0
MPT-AOCF-SS14-0.5S	04/02/09	0.31	50.0
MPT-AOCF-SS14-0.5SD	04/02/09	0.33	50.0

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PREPARATION LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Method: CV

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCSW041309B	04/13/09	30.0	30.0
PBW041309B	04/13/09	30.0	30.0
MPT-AOC-F-MW1	04/13/09	30.0	30.0
MPT-AOC-F-MW1S	04/13/09	30.0	30.0
MPT-AOC-F-MW1SD	04/13/09	30.0	30.0

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1146				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1151																									
S	1.00	1155				X	X		X		X				X						X	X					
S	1.00	1200					X																				
S	1.00	1205																				X					
S	1.00	1211				X			X		X				X						X						
ZZZZZZ	1.00	1223																									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1233																									
ZZZZZZ	1.00	1238																									
ZZZZZZ	1.00	1243																									
ZZZZZZ	1.00	1249																									
ZZZZZZ	1.00	1257																									
ZZZZZZ	1.00	1304																									
ICV1	1.00	1313				X	X		X		X				X						X	X					
ICB1	1.00	1320				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1325																									
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1334																									
ZZZZZZ	1.00	1338																									
ZZZZZZ	1.00	1343																									
ZZZZZZ	1.00	1348																									
ZZZZZZ	1.00	1352																									
ZZZZZZ	1.00	1357																									
CRDL1	1.00	1405				X	X		X		X				X						X	X					
ICSA	1.00	1409				X	X		X		X				X						X	X					
ICSAB	1.00	1414				X	X		X		X				X						X	X					
CCV1	1.00	1423				X	X		X		X				X						X	X					
CCB1	1.00	1430				X	X		X		X				X						X	X					
PBS032709A	1.00	1435				X	X		X		X				X						X	X					
LCSS032709A	1.00	1439				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1446																									
ZZZZZZ	1.00	1450																									
ZZZZZZ	1.00	1455																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1504																									
ZZZZZZ	1.00	1508																									
ZZZZZZ	1.00	1513																									

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1517																									
ZZZZZZ	1.00	1522																									
ZZZZZZ	1.00	1526																									
CCV2	1.00	1531				X	X		X		X				X						X	X					
CCB2	1.00	1539				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1543																									
ZZZZZZ	1.00	1548																									
ZZZZZZ	1.00	1552																									
MPT-AOCF-SS14-0.5	1.00	1557				X	X		X		X				X						X	X					
MPT-AOCF-SS14-0.5S	1.00	1601				X	X		X		X				X						X	X					
MPT-AOCF-SS14-0.5SD	1.00	1606				X	X		X		X				X						X	X					
MPT-AOCF-SS14-0.5A	1.00	1610				X	X		X		X				X						X	X					
MPT-AOCF-SS14-0.5L	5.00	1616				X	X		X		X				X						X	X					
MPT-AOCF-SS15-0.5	1.00	1621				X	X		X		X				X						X	X					
MPT-AOCF-SS16-0.5	1.00	1625				X	X		X		X				X						X	X					
MPT-AOCF-SS17-0.5	1.00	1630				X	X		X		X				X						X	X					
MPT-AOCF-SS18-0.5	1.00	1635				X	X		X		X				X						X	X					
MPT-AOCF-SS19-0.5	1.00	1639				X	X		X		X				X						X	X					
MPT-AOCF-SS20-0.5	1.00	1644				X	X		X		X				X						X	X					
CCV3	1.00	1650				X	X		X		X				X						X	X					
CCB3	1.00	1657				X	X		X		X				X						X	X					
PBS032709B	1.00	1701				X	X		X		X				X						X	X					
LCSS032709B	1.00	1706				X	X		X		X				X						X	X					
MPT-AOCF-SS21-0.5	1.00	1713				X	X		X		X				X						X	X					
MPT-AOCF-SS22-0.5	1.00	1717				X	X		X		X				X						X	X					
MPT-AOCF-SS23-0.5	1.00	1722				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1727																									
ZZZZZZ	1.00	1731																									
ZZZZZZ	1.00	1736																									
ZZZZZZ	1.00	1740																									
ZZZZZZ	5.00	1746																									
ZZZZZZ	1.00	1751																									
ZZZZZZ	1.00	1755																									
ZZZZZZ	1.00	1800																									
ZZZZZZ	1.00	1805																									
ZZZZZZ	1.00	1809																									
ZZZZZZ	1.00	1814																									
CCV4	1.00	1820				X	X		X		X				X						X	X					

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/13/09 End Date: 04/13/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
CCB4	1.00	1827				X	X		X		X				X						X	X								

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0957				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1001																									
S	1.00	1006				X	X		X		X				X						X	X					
S	1.00	1010					X																				
S	1.00	1015																				X					
S	1.00	1020				X			X		X				X						X						
ZZZZZZ	1.00	1024																									
ZZZZZZ	1.00	1029																									
ZZZZZZ	1.00	1036																									
ZZZZZZ	1.00	1043																									
ICV2	1.00	1052				X	X		X		X				X						X	X					
ICB2	1.00	1059				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1104																									
ZZZZZZ	1.00	1108																									
ZZZZZZ	1.00	1113																									
ZZZZZZ	1.00	1118																									
ZZZZZZ	1.00	1122																									
ZZZZZZ	1.00	1127																									
ZZZZZZ	1.00	1132																									
ZZZZZZ	1.00	1137																									
CRDL1	1.00	1144				X	X		X		X				X						X	X					
ICSA	1.00	1149				X	X		X		X				X						X	X					
ICSAB	1.00	1154				X	X		X		X				X						X	X					
CCV1	1.00	1201				X	X		X		X				X						X	X					
CCB1	1.00	1209				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1213																									
ZZZZZZ	1.00	1218																									
ZZZZZZ	1.00	1224																									
ZZZZZZ	1.00	1229																									
ZZZZZZ	1.00	1233																									
ZZZZZZ	1.00	1238																									
ZZZZZZ	1.00	1243																									
ZZZZZZ	1.00	1247																									
ZZZZZZ	1.00	1252																									
ZZZZZZ	1.00	1256																									
ZZZZZZ	1.00	1301																									
ZZZZZZ	1.00	1305																									
ZZZZZZ	1.00	1311																									

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport_004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	1318																												
ZZZZZZ	1.00	1323																												
ZZZZZZ	1.00	1327																												
ZZZZZZ	1.00	1332																												
ZZZZZZ	1.00	1336																												
ZZZZZZ	1.00	1341																												
ZZZZZZ	1.00	1345																												
ZZZZZZ	1.00	1350																												
ZZZZZZ	5.00	1355																												
ZZZZZZ	1.00	1400																												
ZZZZZZ	1.00	1404																												
ZZZZZZ	1.00	1409																												
ZZZZZZ	1.00	1413																												
ZZZZZZ	1.00	1418																												
ZZZZZZ	1.00	1422																												
ZZZZZZ	1.00	1428																												
ZZZZZZ	1.00	1435																												
ZZZZZZ	1.00	1440																												
ZZZZZZ	1.00	1445																												
ZZZZZZ	1.00	1451																												
ZZZZZZ	1.00	1455																												
ZZZZZZ	1.00	1500																												
ZZZZZZ	1.00	1505																												
ZZZZZZ	1.00	1509																												
ZZZZZZ	1.00	1514																												
ZZZZZZ	1.00	1518																												
ZZZZZZ	1.00	1523																												
ZZZZZZ	1.00	1527																												
ZZZZZZ	1.00	1532																												
ZZZZZZ	1.00	1538																												
ZZZZZZ	1.00	1545																												
ZZZZZZ	1.00	1550																												
ZZZZZZ	1.00	1554																												
ZZZZZZ	1.00	1559																												
ZZZZZZ	1.00	1603																												
ZZZZZZ	5.00	1608																												
ZZZZZZ	1.00	1613																												
ZZZZZZ	1.00	1618																												

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1622																								
ZZZZZZ	1.00	1627																								
ZZZZZZ	1.00	1631																								
ZZZZZZ	1.00	1636																								
ZZZZZZ	1.00	1640																								
ZZZZZZ	1.00	1645																								
ZZZZZZ	1.00	1650																								
ZZZZZZ	1.00	1655																								
ZZZZZZ	1.00	1702																								
ZZZZZZ	1.00	1707																								
ZZZZZZ	1.00	1712																								
ZZZZZZ	1.00	1718																								
ZZZZZZ	1.00	1723																								
ZZZZZZ	1.00	1727																								
ZZZZZZ	1.00	1732																								
ZZZZZZ	1.00	1736																								
ZZZZZZ	1.00	1741																								
ZZZZZZ	1.00	1746																								
ZZZZZZ	1.00	1750																								
ZZZZZZ	1.00	1755																								
ZZZZZZ	1.00	1759																								
ZZZZZZ	1.00	1805																								
ZZZZZZ	1.00	1812																								
ZZZZZZ	1.00	1817																								
ZZZZZZ	1.00	1821																								
ZZZZZZ	1.00	1826																								
ZZZZZZ	1.00	1830																								
ZZZZZZ	1.00	1835																								
ZZZZZZ	1.00	1840																								
ZZZZZZ	1.00	1844																								
ZZZZZZ	1.00	1849																								
ZZZZZZ	1.00	1853																								
ZZZZZZ	1.00	1858																								
ZZZZZZ	1.00	1903																								
ZZZZZZ	1.00	1907																								
ZZZZZZ	1.00	1911																								
ZZZZZZ	5.00	1917																								
ZZZZZZ	1.00	1922																								

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1930																								
ZZZZZZ	1.00	1934																								
ZZZZZZ	1.00	1939																								
ZZZZZZ	1.00	1945																								
ZZZZZZ	1.00	1950																								
ZZZZZZ	1.00	1954																								
ZZZZZZ	1.00	1959																								
ZZZZZZ	1.00	2004																								
ZZZZZZ	1.00	2008																								
ZZZZZZ	1.00	2013																								
ZZZZZZ	1.00	2017																								
ZZZZZZ	1.00	2022																								
ZZZZZZ	1.00	2027																								
ZZZZZZ	1.00	2031																								
ZZZZZZ	1.00	2036																								
ZZZZZZ	1.00	2040																								
ZZZZZZ	5.00	2046																								
ZZZZZZ	1.00	2051																								
ZZZZZZ	1.00	2058																								
ZZZZZZ	1.00	2103																								
ZZZZZZ	1.00	2108																								
ZZZZZZ	1.00	2112																								
ZZZZZZ	1.00	2117																								
ZZZZZZ	1.00	2121																								
ZZZZZZ	1.00	2126																								
ZZZZZZ	1.00	2130																								
ZZZZZZ	1.00	2135																								
ZZZZZZ	1.00	2140																								
ZZZZZZ	1.00	2144																								
ZZZZZZ	1.00	2150																								
ZZZZZZ	1.00	2157																								
ZZZZZZ	1.00	2202																								
ZZZZZZ	1.00	2206																								
ZZZZZZ	1.00	2213																								
ZZZZZZ	1.00	2217																								
ZZZZZZ	1.00	2222																								
ZZZZZZ	1.00	2226																								
ZZZZZZ	1.00	2231																								

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	2235																									
ZZZZZZ	1.00	2240																									
ZZZZZZ	1.00	2245																									
ZZZZZZ	1.00	2249																									
ZZZZZZ	1.00	2254																									
ZZZZZZ	1.00	2259																									
ZZZZZZ	1.00	2307																									
ZZZZZZ	1.00	2311																									
ZZZZZZ	1.00	2316																									
ZZZZZZ	1.00	2320																									
ZZZZZZ	1.00	2325																									
ZZZZZZ	5.00	2330																									
ZZZZZZ	1.00	2335																									
ZZZZZZ	1.00	2339																									
ZZZZZZ	1.00	2344																									
ZZZZZZ	1.00	2349																									
ZZZZZZ	1.00	2353																									
ZZZZZZ	1.00	2358																									
ZZZZZZ	1.00	0002																									
ZZZZZZ	1.00	0007																									
CCV2	1.00	0012				X	X		X		X				X						X	X						
CCB2	1.00	0020				X	X		X		X				X						X	X						
PBW041309A	1.00	0024				X	X		X		X				X						X	X						
LCSW041309A	1.00	0029				X	X		X		X				X						X	X						
ZZZZZZ	1.00	0035																									
ZZZZZZ	1.00	0040																									
ZZZZZZ	1.00	0045																									
ZZZZZZ	1.00	0050																									
ZZZZZZ	1.00	0054																									
ZZZZZZ	5.00	0100																									
ZZZZZZ	1.00	0105																									
ZZZZZZ	1.00	0110																									
ZZZZZZ	1.00	0114																									
ZZZZZZ	1.00	0119																									
ZZZZZZ	1.00	0123																									
ZZZZZZ	1.00	0128																									
ZZZZZZ	5.00	0133																									
ZZZZZZ	1.00	0138																									

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: Thermo ICP 6500 Method: P

Start Date: 04/14/09 End Date: 04/15/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	0142																								
ZZZZZZ	1.00	0147																								
ZZZZZZ	1.00	0152																								
ZZZZZZ	1.00	0156																								
CCV3	1.00	0202				X	X		X		X				X						X	X				
CCB3	1.00	0209				X	X		X		X				X						X	X				
ZZZZZZ	1.00	0214																								
ZZZZZZ	1.00	0219																								
ZZZZZZ	1.00	0223																								
ZZZZZZ	1.00	0228																								
ZZZZZZ	1.00	0232																								
ZZZZZZ	1.00	0237																								
ZZZZZZ	1.00	0242																								
ZZZZZZ	1.00	0246																								
ZZZZZZ	1.00	0251																								
MPT-AOC-F-MW1	1.00	0256				X	X		X		X				X						X	X				
CCV4	1.00	0301				X	X		X		X				X						X	X				
CCB4	1.00	0309				X	X		X		X				X						X	X				

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/06/09 End Date: 04/06/09

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1559																X									
S0.20	1.00	1600																X									
S0.50	1.00	1601																X									
S1.0	1.00	1602																X									
S2.0	1.00	1603																X									
S4.0	1.00	1605																X									
S6.0	1.00	1606																X									
S10.0	1.00	1607																X									
ICV1	1.00	1641																X									
ICB1	1.00	1642																X									
CRDL1	1.00	1644																X									
LCSS040209A	1.00	1645																X									
PBS040209A	1.00	1646																X									
ZZZZZZ	1.00	1647																									
ZZZZZZ	1.00	1648																									
ZZZZZZ	1.00	1650																									
ZZZZZZ	1.00	1651																									
ZZZZZZ	1.00	1652																									
ZZZZZZ	1.00	1653																									
ZZZZZZ	1.00	1655																									
CCV1	1.00	1656																X									
CCB1	1.00	1657																X									
ZZZZZZ	1.00	1658																									
ZZZZZZ	1.00	1659																									
ZZZZZZ	1.00	1701																									
ZZZZZZ	1.00	1702																									
ZZZZZZ	1.00	1703																									
MPT-AOCF-SS15-0.5	1.00	1705																X									
MPT-AOCF-SS16-0.5	1.00	1706																X									
MPT-AOCF-SS17-0.5	1.00	1707																X									
MPT-AOCF-SS18-0.5	1.00	1709																X									
MPT-AOCF-SS19-0.5	1.00	1710																X									
CCV2	1.00	1711																X									
CCB2	1.00	1712																X									
MPT-AOCF-SS20-0.5	1.00	1713																X									
MPT-AOCF-SS21-0.5	1.00	1714																X									
MPT-AOCF-SS22-0.5	1.00	1716																X									
MPT-AOCF-SS23-0.5	1.00	1717																X									

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/06/09 End Date: 04/06/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MPT-AOCF-SS14-0.5	1.00	1718																X										
MPT-AOCF-SS14-0.5S	1.00	1719																X										
MPT-AOCF-SS14-0.5SD	1.00	1721																X										
ZZZZZZ	1.00	1722																										
ZZZZZZ	1.00	1723																										
ZZZZZZ	1.00	1724																										
CCV3	1.00	1725																X										
CCB3	1.00	1727																X										

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/14/09 End Date: 04/14/09

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1053																X								
S0.20	1.00	1054																X								
S0.50	1.00	1055																X								
S1.0	1.00	1057																X								
S2.0	1.00	1058																X								
S4.0	1.00	1059																X								
S6.0	1.00	1100																X								
S10.0	1.00	1102																X								
ICV2	1.00	1103																X								
ICB2	1.00	1105																X								
CRDL1	1.00	1106																X								
ZZZZZZ	1.00	1107																								
ZZZZZZ	1.00	1108																								
ZZZZZZ	1.00	1109																								
ZZZZZZ	1.00	1110																								
ZZZZZZ	1.00	1111																								
ZZZZZZ	1.00	1112																								
ZZZZZZ	1.00	1113																								
ZZZZZZ	1.00	1114																								
ZZZZZZ	1.00	1115																								
ZZZZZZ	1.00	1120																								
ZZZZZZ	1.00	1121																								
ZZZZZZ	1.00	1122																								
ZZZZZZ	1.00	1123																								
ZZZZZZ	1.00	1124																								
ZZZZZZ	1.00	1125																								
ZZZZZZ	1.00	1127																								
ZZZZZZ	1.00	1128																								
ZZZZZZ	1.00	1128																								
ZZZZZZ	1.00	1129																								
ZZZZZZ	1.00	1130																								
ZZZZZZ	1.00	1131																								
CCV1	1.00	1132																X								
CCB1	1.00	1133																X								
ZZZZZZ	1.00	1134																								
ZZZZZZ	1.00	1135																								
ZZZZZZ	1.00	1136																								
ZZZZZZ	1.00	1137																								

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: Empirical Laboratories Contract: TetraTech NUS, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Mayport 004

Instrument ID Number: PE CVAA Method: AV

Start Date: 04/14/09 End Date: 04/14/09

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1138																										
ZZZZZZ	1.00	1139																										
ZZZZZZ	1.00	1140																										
LCSW041309B	1.00	1141																X										
PBW041309B	1.00	1142																X										
MPT-AOC-F-MW1	1.00	1143																X										
CCV2	1.00	1144																X										
CCB2	1.00	1145																X										
MPT-AOC-F-MW1S	1.00	1146																X										
MPT-AOC-F-MW1SD	1.00	1147																X										
ZZZZZZ	1.00	1148																										
CCV3	1.00	1149																X										
CCB3	1.00	1150																X										

Supervisor Check_____

Metals Digestion Log SOP#100

Empirical Laboratories

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Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
3-27-09	KH	PBS 032709A	QC	3050	—	200ml	Soil	A	95.5°C #30	
		LCSS 032709A	ISA080302		1.00g					
		0903219-04			1.07g					
		0903234-01			1.03g					
		0903234-02			1.05g					
		0903263-01			1.01g					
		0903263-02			1.00g					
		0903285-01			1.01g					
		0903285-02			1.03g					
		0903285-03			1.06g					
		0903285-04			1.09g					
		0903285-05			1.06g					
		0903293-01			1.02g					
		0903293-02			1.02g					
		0903293-03			1.02g					
		0903262-01	Tetra Tech		1.00g					
		0903262-01 [MS]			1.02g					
		0903262-01 [MSD]			1.00g					
		0903262-03			1.00g					
		0903262-05			1.02g					
		0903262-07			1.01g					
		0903262-09			1.01g					
		0903262-11			1.00g					
		0903262-13			1.01g					

Comments: QC Therm 49 was used for temp check

see p. 153 for H_2O_2 + Acid Lot #'s

Spike prep: 0.20mls of ISA080290A ——→ 200mls Final Vol.
0.20mls of ISA080290B ——→ 200mls
0.05mls of ISA090012 ——→ 200mls
0.05mls of ISA090013 ——→ 200mls

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Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
3-27-09	KH	PBS 032709B	QC	3050	—	200ml	Soil	B	95.0 ± 3°	
		LCSS 032709B	ISM080302		1.00g					
		0903262-15	Tetra Tech		1.03g					
		0903262-17			1.01g					
		0903262-19			1.00g					
		0903251-01			1.02g					
		0903251-01 MS			1.01g					
		0903251-01 MSD			1.00g					
		0903251-02			1.02g					
		0903251-03			1.00g					
		0903251-04			1.02g					
		0903251-05			1.00g					
		0903251-06			1.01g					
		0903251-07			1.02g					
		0903251-08			1.01g					
		0903251-09			1.01g					
		0903251-10			1.02g					
		0903251-11			1.01g					
		0903251-12			1.01g					
		0903251-13			1.01g					
		0903251-14			1.01g					
		0903251-15			1.01g					
		0903251-16			1.01g					
		0903251-17			1.03g					

Comments: We Therm 49 was used for temp check
See p. 153 for H_2O_2 + Acid Lot #'s
See p. 198 for spike prep details

Date	Analyst	Sample ID	Client	Method	Initial Volume	Final Volume	Matrix	Hot Block	Hot Block Temp.	Transfer Date/By
4-13-09	KH	PBW 041309A	QC	200.7/3005	50ml	50ml	H2O	A	95.6°C #5	4-14-09 RB
		LCSW 041309A	ESA090023							
		0904020-01								
		0904020-02								
		0904020-02 [MS] RB								
		0904020-02 [MSD] RB								
		0904032-01	[redacted]							
		0904040-02								
		0904040-04								
		0904040-04 [MS] RB								
		0904040-04 [MSD] RB								
		0904040-05								
		0904042-01	[redacted]							
		0904042-02								
		0904046-24								
		0904046-30								
		0904046-36								
		0904068-01	[redacted]							
		0904068-02								
		0904068-03								
		0904069-01								
		0904069-02								
		0904069-03								
		0904069-04								
		0904065-01	[redacted]							
		6904026-01	TetraTech							

Comments:

QC Thermo 49 was used for temp check

see p. 208 for Acid Lot #'s

see p. 223 for spike prep details

Supervisor Check_____ Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0.0	H_2O	SC	DI H_2O	7471A		50ml	94.5°C	0°C	A	4/2/09 KH	16:45	17:15	4/6/09 KH
0.2			VA090006										
0.5													
1.0													
2.0													
4.0													
6.0													
10.0													
ICV			VA080303										
ICB			DI H_2O										
0.2 Std.	↓		VA090006										
LCSS040209A	Soil		VA080303		0.30								
PBS040209A			DI H_2O		0.30								
0903251-01		Tetra			0.31								
-01MS			VA080303		0.32								
-01MSD			↓		0.30								
-03					0.31								
-05					0.33								
-07					0.31								
-09					0.31								
-11					0.31								
-13					0.31								
-15					0.31								
-17					0.31								
-19					0.31								
0903262-03					0.31								
-05					0.32								
-07					0.32								
-09					0.30								
-11					0.33								

Reagents:
HNO3 lot# 082911
(Water Only) H2SO4 lot#
(Soil Only) HCL lot# 085020
KMnO4:IRLAHg 090040
(Water Only) K2S2O8:IRLAHg ~~090041~~ DM

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0903262-13	Soil	Tetra		7471A	0.30	50mls	94.8C	0°C	A	4/2/09 RH	16:45	17:15	4/6/09 RH
-15					0.32								
-17					0.30								
-19					0.32								
0903262-01					0.31								
-01MS			WA0903		0.31								
-01MSD			WA0903		0.33								
~~0901LCSS040209B~~		QC			0.30		96.8C		B				
PBS040209B					0.30								
0903361-01		[redacted]			0.31								
-02					0.33								
-03					0.33								
0903138-05					0.30								
-05MS					0.30								
-05MSD					0.30								
0903187-03					0.30								
-03(MS)					0.30								
-03(MSD)					0.30								

Reagents:

HNO3 lot# 082911

(Water Only) H2SO4 lot#

(Soil Only) HCL lot# 085020

KMnO4:IRLAHg 090040

(Water Only) K2S2O8:IRLAHg ~~090051~~ kit

Supervisor Check_____

Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0.0	H2O	SC	DI H2O	7470A		30ml	93.2°	0°C	A	4/13/09 EH	14:20	16:20	4/14/09 KH
0.2			LSA090006										
0.5													
1.0													
2.0													
4.0													
6.0													
10.0													
ICV			LSA080303										
ICB			DI H2O										
0.2 Std			LSA090006										
LCSW041309A			LSA080303										
PBW041309A		↓	DI H2O										
0904052-04	TCLP												
0904052-04MS			LSA080303										
0904052-05													
-05DUP													
-06													
-07													
-07MS		↓	LSA080303										
TCLP BLANK	TCLP	SC											
0904052-08	H2O												
-08MS													
-08MD													
-09													
-10													
-11													
-17													
-18		↓											
0904064-02													

Reagents:

HNO3 lot# 08758

(Water Only) H2SO4 lot# 088225

(Soil Only) HCL lot#

KMnO4:IRLAHg 090655

(Water Only) K2S2O8:IRLAHg 090058

Supervisor Check_____ Mercury Digestion Log SOP#103/104

Sample ID	Matrix	Client	Field ID	Method	Weight (g)	Volume (mL)	Temp. (C)	Temp. Corr.	Block	Digestion Date/By	Time On	Time Off	Analysis/ Transfer
0904064-03	H_2O			7470A		30mls	92.78	0°C	A	4/13/09 FH	14:20	16:20	4/14/09 FH
-04													
-05													
-06													
-07													
0904065-01				245.1									
0904069-04		[redacted]		245.1									
LCSWD413098		QC	1SA0BD303	7470A									
PBW0413098			DI H_2O										
0904026-01		Tetra Tech											
-01MS			1SA0BD303										
-01MSD													

Reagents:
HNO3 lot# 081758
(Water Only) H2SO4 lot# 080255
(Soil Only) HCL lot#
KMnO4:IRLAHg 090055
(Water Only) K2S2O8:IRLAHg 090058.

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
03194-1-5	AF 7:45 3/18/09			IDEs
0903177-02	8:11 3-18-09 RST	9:17 3-18-09 RST		Flashpoint
0903223 01-07	JC 3/18/09 13:55	JC 3/18/09 17:26		TCLP
0903214 03-11	JC 3/18/09 15:53	JC 3/18/01 17:26		↓
0902295-01-17 0903039-02 3/04	KH 3/18/09 6:01	KH 3/18/09 6:35		~~Ag~~ Mercury
0903088-01-05	↓	↓		↓
03250-1-3, 8-21, 26-28	MS 3/19/08 07:40	MS 3/19/08 11:20		DRO
03250-29, 32-37, 42-54	↓	↓		↓
03138 21-24-28	3-19-09 8:46 Am RST	3-19-09 9:20 Am RST		
03187 02-07	3-19-09 9:23 Am RST	3-19-09 10:17 am RST		
03192	3-19-09 10:35 AM RST	3-19-09 10:46 Am RST		
03207 03210 01-02	3-19-09 10:49 Am RST	3-19-09 11:20 Am RST		
03219 01-04	3-19-09 11:23 Am RST	3-19-09 11:46 Am RST		
03234	3-19-09 11:50 Am RST	3-19-09 12:05 pm RST		
03251 (2,4,6,8 20 10,12,14,16,18)	3-19-09 12:10 Am RST	3-19-09 1:06 pm RST		
0903214-12718	14:40 KBG 3/19/09	11:20 KBG 3/19/09		ZHE
3203-2,3 3134-1-7	JJ 3-19-09 7:56 pm	JJ 3-19-09 8:42pm		VPH
3234-01,02 3250-01761	07:25 KBG 3/20/09	10:30 KBG 3/20/09		% Solids
3251-01720 3242-01720	↓	↓	TO-extractions	↓
3138-21,24-28	GI 9:00 3/20/09	AF 16:00 3/20/09		LL PAH

Empirical Laboratories

Empirical Laboratories, LLC

LABORATORY SAMPLE CUSTODY FORM

SOIL REFRIGERATOR

(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
3219-1-4 3234-1,2 3263-1-2	GI 9:00 3/20/09	AF 3/20/09 16:00		Pest
3257-1,3,5,6,7,9,11,13, 15,17,19, 3262-1-19	↓	↓		BNA
↓	↓	↓		FLPRO
3135-03 3133-03	VM 3-20-09 907	3-20-09 1230 VM		CN
3162-01→20 3163-01,02	10:30 KBG 3/20/09	12:00 KBG 3/20/09		% Solids
03036-1	AF 10:55 3/20/09	AF 3/20/09 16:00		Pest
3134 (1-7) 3179-01	3-21-09 8:00AM	———	Hol A-vide	VOA
3138 (25-27)	3-23-09 7:15AM			VOA
03288-1-20	GI 3/23/09 9:30	GI 3/23/09 11:10		BNA
03250-SS-6,1	↓	↓		DRO
3179 & 3187-02/01	RF 3/23/09 10:07	3/23/09 11:00		METALS
3281-01	3-23-09 VM 1045	3-23-09 VM 1630		pH
3207-01 3234 3219-01-04	11:10 3/23/09 RF	11:25 3/23/09		METALS
3263 + 3285	11:30 3/23/09 RF	12:45 3/23/09		METALS
03219-1-4 03285-1-5 03234-1-2 03263-1-2	AF 11:45 3/23/09	AF 3/23/09 16:50		EXP
3179 + 3187	RF 3/23/09 1:37Pm	2:04 3/23/09 RF		METALS
0403214 14-27 0403223 01-03	JG 3/23/09 14:33	3/23/09 16:42 JG		TCLP
03188-6-7	MS 3/24/09 08:05			Pest/PCB
3251	RF 3/24/09 10:33	3/24/09 12:27		Metals
3262 3293-01-03	12:27 3/24/09	3/24/09 2:00		

Empirical Laboratories

EMPIRICAL LABORATORIES, LLC
LABORATORY SAMPLE CUSTODY FORM
WALK-IN REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
04090-21-28	KMV 4/10/09 11:05			TCB
64078-01-04	↓			DRO
038139-23,26	11:15 KBG 4/10/09	11:45 KBG 4/10/09		Hg
4057-01 4059-02 4060-01	JC 4/10/09 17:22	JC 4/10/09 19:50		TSS
4061-01 ~~4084~~ 4041-01	↓	↓		↓
4062-01 4063 01-04 4085-01-07		4/10/09 JC 18:04		TDS
4088 01-04	↓	↓		↓
~~4062-01~~ 4063 01-04 4085 01-07	JC 4/13/09 8:42	JC 4/13/09 13:34		TDS
4088 01-04	↓	↓		↓
4078-01, 4011-02 4052-04,06	4-13-09 9:20 VM	10:22 4-13-09 TCD		pH / Flashpoint
0904041-01	JC 4/13/09 9:50			COD/TPO4
0904020-01-02 0904032-01	KH 4/13/09 9:55	KH 4/13/09 11:16		metals
04040-02,04,05 04042-01-02				
04046-24,30,36 04068-01-03				
09069-01-04 0904065-01; 4026-01				
4053-01 for 4091-01	VM 4-13-09 1005	VM - 4-13-09 1505		TPO4
4078-01	JC 4/13/09 10:17	JC 4/13/09 14:16		TSS
4079-01	JC 4/13/09 10:45	JC 4/13/09 13:58		TCLP
04065-1	AF 4/13/09 11:25			BNA
04052-08-11,17,18 04064-02-07	KH 4/13/09 18:55	KH 4/13/09 13:30		Hg
04065-01, 04069-04 04026-01				